

Supplementary Table 1

Alphabetical listing of proteins identified in HES

Rank	Identity	Conserved domains	Code	Score	SS
138	14-3-3 family member	14-3-3	Hpb_Ad_1_isotig07975	324	NO
213	15kDa ES antigen (Hc15)	None	Hpb_Ad_1_isotig11615	150	SS
371	15kDa ES antigen (Hc15)	None	Hpb_Ad_1_isotig13084	33	SS
29	ACE-1 Acetylcholinesterase	Esterase_lipase	Hpb_Ad_1_isotig05694	1527	SS
43	ACE-2 Acetylcholinesterase	Esterase_lipase	Hpb_Ad_1_isotig00868	1122	SS
49	ACE-3 Acetylcholinesterase	Esterase_lipase	Hpb_Ad_1_isotig00869	1006	SS
131	Actin	Actin	Hpb_Ad_1_isotig01640	340	NO
255	Actin	Actin	Hpb_Ad_1_isotig08340	102	NO
219	Actin depolymerising factor	ADF	Hpb_Ad_1_isotig07522	145	NO
85	Aldolase	FBP_aldolase_I_a	Hpb_Ad_1_isotig04915	627	NO
281	Aldolase	FBP_aldolase_I_a	Hpb_Ad_1_isotig07465	84	NO
307	Aldolase	FBP_aldolase_I_a	Hpb_Ad_1_isotig04899	67	NO
295	Alpha amylase	Alpha-amylase_C	Hpb_Ad_1_isotig06408	79	NO
251	Alpha-L-fucosidase family member	Alpha_L_fucos	Hpb_Ad_1_isotig06108	105	SS
328	Alpha-mannosidase family member	PLN02701 multidomain	Hpb_Ad_1_isotig05364	53	SS*
268	Aminopeptidase	None	Hpb_Ad_1_isotig00804	93	SS*
152	Annexin	Annexin (Double)	Hpb_Ad_1_isotig11499	281	NO
18	APY-1.1 Apyrase-1.1	Apyrase	Hpb_Ad_1_isotig02250	1833	SS
19	APY-1.2 Apyrase-1.2	Apyrase	Hpb_Ad_1_isotig07986	1818	SS
25	APY-1.3 Apyrase-1.3	Apyrase	Hpb_Ad_1_isotig05261	1583	SS
31	APY-2 Apyrase-2	Apyrase	Hpb_Ad_1_isotig07051	1474	SS
83	APY-3 Apyrase-3	Apyrase	Hpb_Ad_1_isotig03589	644	SS
120	APY-4 Apyrase-4	Apyrase	Hpb_Ad_1_isotig08061	394	SS
185	Arginine kinase	Arginine_kinase_like	Hpb_Ad_1_isotig05009	212	NO
56	Aspartyl protease (necepsin)	pepsin_retropepsin_like	Hpb_Ad_1_isotig06497	884	SS
109	Aspartyl protease (necepsin)	pepsin_retropepsin_like	Hpb_Ad_1_isotig03173	433	SS
119	Aspartyl protease (necepsin)	pepsin_retropepsin_like	Hpb_Ad_1_isotig04987	395	SS*
146	Aspartyl protease (necepsin)	pepsin_retropepsin_like	Hpb_Ad_1_isotig01578	310	SS
206	Aspartyl protease (necepsin)	pepsin_retropepsin_like	Hpb_Ad_1_isotig06987	173	SS*
42	Astacin protease NAS-1.1	ZnMc_astacin_like	Hpb_Ad_1_isotig04178	1148	SS*
45	Astacin protease NAS-1.2	ZnMc_astacin_like	Hpb_Ad_1_isotig04179	1095	SS*

59	Astacin protease NAS-2.1	ZnMc_astacin_like	Hpb_Ad_1_isotig01336	858	SS*
61	Astacin protease NAS-2.2	ZnMc_astacin_like	Hpb_Ad_1_isotig01334	836	SS*
62	Astacin protease NAS-3.1	ZnMc_astacin_like	Hpb_Ad_1_isotig01799	832	SS*
63	Astacin protease NAS-4	ZnMc_astacin_like	Hpb_Ad_1_isotig00214	830	SS*
71	Astacin protease NAS-5.1	ZnMc_astacin_like; CUB	Hpb_Ad_1_isotig01596	779	SS*
76	Astacin protease NAS-5.2	ZnMc_astacin_like; CUB	Hpb_Ad_1_isotig01598	691	SS*
80	Astacin protease NAS-6	ZnMc_astacin_like; CUB	Hpb_Ad_1_isotig07866	681	SS*
98	Astacin protease NAS-3.2	ZnMc_astacin_like	Hpb_Ad_1_isotig01792	509	SS*
100	Astacin protease NAS-3.3	ZnMc_astacin_like	Hpb_Ad_1_isotig01791	498	SS*
116	Astacin protease NAS-7	ZnMc_astacin_like	Hpb_Ad_1_isotig06217	399	SS
149	Astacin protease NAS-8	ZnMc_astacin_like	Hpb_Ad_1_isotig03646	294	SS*
169	Astacin protease NAS-9	ZnMc_astacin_like	Hpb_Ad_1_isotig00213	254	SS*
217	Astacin protease NAS-10	ZnMc_astacin_like	Hpb_Ad_1_isotig07968	147	SS*
256	Astacin protease NAS-11	ZnMc_astacin_like	Hpb_Ad_1_isotig06298	101	SS*
269	Astacin protease NAS-12.1	ZnMc_astacin_like	Hpb_Ad_1_isotig01323	92	SS*
272	Astacin protease NAS-12.2	ZnMc_astacin_like	Hpb_Ad_1_isotig01325	91	SS*
53	Astacin protease family member (fragment)	None	Hpb_Ad_1_isotig01219	956	SS*
161	Astacin protease family member (fragment)	None	Hpb_Ad_1_isotig18617	262	SS
362	C-type lectin	CLECT	Hpb_Ad_1_isotig07296	38	SS
330	C-type lectin (fragment)	CLECT	Hpb_Ad_1_sing01928	53	SS*
126	C-type lectin mannose receptor-like	CLECT (Double)	Hpb_Ad_1_isotig00496	366	SS
331	Calmodulin	EFh (Double)	Hpb_Ad_1_isotig07710	53	NO
302	Calreticulin	Calreticulin	Hpb-CRT	74	SS
351	Catalase	Catalase_like	Hpb_Ad_1_isotig06077	43	NO
172	Cathepsin A	Peptidase_S10	Hpb_Ad_1_isotig06324	248	SS
306	Cathepsin A	Peptidase_S10	Hpb_Ad_1_isotig07455	69	SS*
215	Cathepsin B-like cysteine protease	Peptidase_C1	Hpb_Ad_1_isotig07017	147	SS
224	CCP-domain containing protein	CCP	Hpb_Ad_1_isotig17372	135	SS
236	CCP-domain containing protein	CCP	Hpb_Ad_1_isotig02616	115	SS
284	CCP-domain containing protein	CCP	Hpb_Ad_1_isotig02055	83	SS*
27	Chitin binding Peritrophin-A domain protein	Chitin-binding domain type 2	Hpb_Ad_1_isotig05677	1561	SS*
52	Chitinase	Chitinase_glyco_hydro_19	Hpb_Ad_1_isotig04840	988	SS
74	Chondroitin family member	NO CONSERVED DOMAINS	Hpb_Ad_1_isotig01493	710	SS
151	Chondroitin family member	CBM_14 (Triple)	Hpb_Ad_1_isotig06559	284	SS*
287	Chondroitin family member	None	Hpb_Ad_1_isotig08745	82	SS

322	Chondroitin family member	None	Hpb_Ad_1_isotig01171	55	SS
324	Chondroitin family member	None	Hpb_Ad_1_isotig02806	54	SS
334	Chondroitin family member	None	Hpb_Ad_1_isotig04525	51	SS
300	Claudin-like protein	None	Hpb_Ad_1_isotig10277	74	SS*
84	Complement regulatory protein	CCP	Hpb_Ad_1_isotig13827	632	SS
86	Complement regulatory protein	CCP	Hpb_Ad_1_isotig12552	611	SS*
112	Complement related short precursor	None	Hpb_Ad_1_isotig00942	423	SS
128	Complement related short precursor	None	Hpb_Ad_1_isotig00938	358	SS
130	CSN-1 Conserved Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig04564	344	NO
230	CSN-2 Conserved Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig04423	127	NO
297	CSN-3 Conserved Secreted protein, No signal peptide	None	Hpb_Ad_1_sing15506	78	NO
336	CSN-4 Conserved Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig12802	51	NO
350	CSN-5 Conserved Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig03664	43	NO
96	CSP-1 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig13235	528	SS*
99	CSP-2 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig09016	502	SS
107	CSP-3 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig16457	457	SS
110	CSP-4 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig13290	428	SS
111	CSP-5 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig15172	423	SS
163	CSP-6 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig13004	261	SS
177	CSP-7 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig13458	242	SS
190	CSP-8 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_sing00568	200	SS*
200	CSP-9 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig09761	192	SS*
204	CSP-10 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig13653	176	SS*
216	CSP-11 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig14016	147	SS
249	CSP-12 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig09063	106	SS
250	CSP-13 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig09363	106	SS
261	CSP-14 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig05150	96	SS
274	CSP-15 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig03724	90	SS
292	CSP-16 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig04467	80	SS*
293	CSP-17 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig18632	80	SS*
304	CSP-18 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig05540	71	SS
310	CSP-19 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig05817	65	SS
314	CSP-20 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig13240	60	SS
353	CSP-21 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig02800	43	SS
354	CSP-22 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_sing12214	42	SS*

356	CSP-23 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig16100	39	SS*
363	CSP-24 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig05262	36	SS
366	CSP-25 Conserved secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig07912	36	SS
166	Cyclophilin	Cyclophilin	Hpb_Ad_1_isotig11124	256	NO
241	Cyclophilin	Cyclophilin	Hpb_Ad_1_isotig09088	111	SS
162	Cystatin	CY	Hpb_Ad_1_isotig02700	261	SS
158	Cysteine protease (necpain)	Peptidase C1A Cathepsin B	Hpb_Ad_1_isotig07654	265	SS
337	Cytochrome C	Cytochrome C	Hpb_Ad_1_isotig11144	50	NO
50	Deoxyribonuclease II family member	Dnase II	Hpb_Ad_1_isotig08122	1006	SS*
103	Dipeptidyl Peptidase Four (IV) family member (fragment)	Esterase lipase	Hpb_Ad_1_isotig04148	479	NO
137	Dipeptidyl Peptidase Four (IV) family member (fragment)	None	Hpb_Ad_1_sing02304	324	NO
335	Dipeptidyl Peptidase Four (IV) family member (fragment)	None	Hpb_Ad_1_sing07688	51	NO
199	DOMON domain containing protein	DOMON	Hpb_Ad_1_isotig05113	192	SS
267	DOMON domain containing protein	DOMON	Hpb_Ad_1_isotig11195	93	SS
229	DUF1261 domain containing protein	DUF1261	Hpb_Ad_1_isotig11817	128	SS*
263	DUF1261 domain containing protein	DUF1261	Hpb_Ad_1_isotig10529	95	SS
264	DUF1261 domain containing protein	DUF1261	Hpb_Ad_1_isotig05135	95	SS
326	DUF1261 domain containing protein	DUF1261	Hpb_Ad_1_isotig14147	54	SS*
170	DUF148 domain containing protein	DUF148	Hpb_Ad_1_isotig12370	252	SS*
367	Dyenin light chain (fragment)	Dyenin light	Hpb_Ad_1_isotig08463	35	NO
64	Enolase	Enolase	Hpb_Ad_1_isotig06965	826	NO
136	Enolase (fragment)	TIM phosphate-binding	Hpb_Ad_1_isotig18996	326	NO
296	ERM family member	B41 multidomain; ERM multidomain	Hpb_Ad_1_isotig02815	79	NO
323	Esterase-lipase domain containing protein (fragment)	Esterase lipase	Hpb_Ad_1_sing03585	55	NO
349	Eukaryotic translation elongation factor 1A	EF-1 alpha multidomain	Hpb_Ad_1_isotig02523	44	NO
278	Eukaryotic translation elongation factor 2	PTZ00416 multidomain	Hpb_Ad_1_isotig05363	86	NO
207	Evr1-Alr family protein	Evr1 Alr superfamily	Hpb_Ad_1_isotig05952	170	SS*
91	Fatty acid and retinol binding protein	Gp-FAR-1	Hpb_Ad_1_isotig11475	577	SS*
305	Fatty acid and retinol binding protein (fragment)	Gp-FAR-1	Hpb_Ad_1_sing12372	71	SS*
234	Ferritin	Ferritin_like	Hpb_Ad_1_isotig15727	117	NO
134	Galectin	GLECT (Double)	Hpb_Ad_1_isotig07456	334	NO
211	Galectin	GLECT (Double)	Hpb_Ad_1_isotig07026	163	NO
233	Galectin	GLECT (Double)	Hpb_Ad_1_isotig09082	120	NO
288	Galectin	GLECT	Hpb_Ad_1_isotig09713	81	NO
343	Galectin	GLECT	Hpb_Ad_1_isotig11886	47	NO

183	Glutathione S-transferase	PTZ00057 multidomain	Hpb_Ad_1_isotig11588	219	NO
345	Glutathione S-transferase	PTZ00057 multidomain	Hpb_Ad_1_isotig10292	47	NO
108	Glutathione S-transferase 2	PTZ00057 multidomain	Hpb-GST-2 (AF128959)	453	NO
248	Glycosyl hydrolase family 31 protein	GH31 (Double)	Hpb_Ad_1_isotig07314	107	SS*
92	Hexokinase	Hexokinase 1; Hexokinase 2	Hpb_Ad_1_isotig05973	563	NO
282	Histidine acid phosphatase	HP HAP-like	Hpb_Ad_1_isotig06890	84	SS*
141	Histone	H2A	Hpb_Ad_1_isotig11690	317	NO
311	Histone	H2A	Hpb_Ad_1_isotig13099	65	NO
329	Histone	H2A	Hpb_Ad_1_isotig13367	53	NO
196	HSP60	GroEL	Hpb_Ad_1_isotig06093	195	NO
257	HSP70	PTZ00009 multidomain	Hpb_Ad_1_isotig07134	100	NO
214	HSP70 (fragment)	PTZ00009 multidomain	Hpb_Ad_1_isotig13132	148	NO
266	Hyaluronidase	Glyco hydro 56	Hpb_Ad_1_isotig07073	94	SS*
341	Independent phosphoglycerate mutase	Sulfatase	Hpb_Ad_1_isotig01699	48	NO
127	Keratin-like protein	DUF148	Hpb_Ad_1_isotig04028	365	SS
231	Keratin-like protein	DUF148	Hpb_Ad_1_isotig11509	127	SS*
355	Keratin-like protein	DUF148	Hpb_Ad_1_isotig11580	40	SS*
155	Kunitz inhibitor	KU	Hpb_Ad_1_isotig01217	273	SS
237	Kunitz inhibitor	KU	Hpb_Ad_1_isotig18024	115	SS
239	Kunitz inhibitor	KU	Hpb_Ad_1_isotig17776	113	SS
277	Kunitz inhibitor	KU	Hpb_Ad_1_isotig00584	88	SS
286	Kunitz inhibitor	KU	Hpb_Ad_1_isotig02721	82	SS
298	Kunitz inhibitor	KU	Hpb_Ad_1_isotig10130	77	SS
369	Kunitz inhibitor	KU	Hpb_Ad_1_isotig02378	35	SS
312	Legumain-like protein	Peptidase C13	Hpb_Ad_1_isotig01389	62	SS*
316	Legumain-like protein	Peptidase C13	Hpb_Ad_1_isotig06842	59	SS*
156	Lipase family protein	Lipase 3	Hpb_Ad_1_isotig07987	268	SS*
235	Lipase-like protein	Abhydro lipase; Esterase lipase	Hpb_Ad_1_isotig03824	116	SS
252	Lipocalin domain containing protein	Lipocalin	Hpb_Ad_1_isotig05316	104	SS
8	LYS-1 Lysozyme	Muramidase GH25	Hpb_Ad_1_isotig08802	3615	SS
12	LYS-2 Lysozyme	Muramidase GH25	Hpb_Ad_1_isotig05074	2947	SS
79	LYS-3 Lysozyme	Muramidase GH25	Hpb_Ad_1_isotig08606	683	SS*
174	LYS-4 Lysozyme	Muramidase GH25	Hpb_Ad_1_isotig03666	246	SS
178	LYS-5 Lysozyme	Muramidase GH25	Hpb_Ad_1_isotig08740	242	SS
188	LYS-6 Lysozyme	Muramidase GH25	Hpb_Ad_1_isotig14122	210	SS

221	LYS-7 Lysozyme	Muramidase GH25	Hpb_Ad_1_isotig08406	141	SS
262	LYS-8 Lysozyme	Muramidase GH25	Hpb_Ad_1_isotig13335	96	SS*
167	Macrophage migration inhibitory factor	MIF	Hpb_Ad_1_isotig14093	256	NO
36	Major Sperm Protein	Motile Sperm	Hpb_Ad_1_isotig01565	1278	NO
348	Malate dehydrogenase	LDH MDH-like	Hpb_Ad_1_isotig05076	44	SS*
187	MD / EGF CA domain-containing protein	MD; EGF CA	Hpb_Ad_1_isotig02190	210	SS*
194	MD / vWFA domain-containing protein	MD; vWFA	Hpb_Ad_1_isotig02191	197	SS*
290	MD-domain containing protein (fragment)	MD	Hpb_Ad_1_sing04917	81	SS*
60	MFH-1 Ascaris MFP2b homologue	MFP2b	Hpb_Ad_1_isotig07283	845	NO
82	MFH-2 Ascaris MFP2b homologue	MFP2b	Hpb_Ad_1_isotig07373	647	NO
105	MFH-3 Ascaris MFP2b homologue	MFP2b	Hpb_Ad_1_isotig07980	463	NO
360	MFH-4 Ascaris MFP2b homologue	MFP2b	Hpb_Ad_1_isotig02603	38	NO
244	ML-domain containing protein	ML	Hpb_Ad_1_isotig10098	110	SS
182	Motile_Sperm domain containing protein	Motile_Sperm	Hpb_Ad_1_isotig16375	220	NO
205	Motile_Sperm domain containing protein	Motile_Sperm	Hpb_Ad_1_isotig16097	175	NO
222	Motile_Sperm domain containing protein	Motile_Sperm	Hpb_Ad_1_isotig16212	138	NO
26	Myoglobin	Globin	Hpb_Ad_1_isotig04274	1579	SS
32	Myoglobin	Globin	Hpb_Ad_1_isotig11742	1446	SS
34	Myoglobin	Globin	Hpb_Ad_1_isotig04273	1390	SS
46	Myoglobin	Globin	Hpb_Ad_1_isotig05169	1094	SS
78	Myoglobin	Globin	Hpb_Ad_1_isotig11666	683	SS
117	Myoglobin	Globin	Hpb_Ad_1_isotig11356	398	SS*
114	Myoglobin (fragment)	None	Hpb_Ad_1_isotig19571	415	SS*
30	Nematode polyprotein allergen	None	Hpb_Ad_1_isotig02438	1498	SS
72	NSN-1 Novel Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig18405	777	NO
90	NSN-2 Novel Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig14195	589	NO
160	NSN-3 Novel Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig17079	263	NO
164	NSN-4 Novel Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig08805	260	NO
176	NSN-5 Novel Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig18558	242	NO
243	NSN-6 Novel Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig12574	110	NO
346	NSN-7 Novel Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig04967	46	NO
358	NSN-8 Novel Secreted protein, No signal peptide	None	Hpb_Ad_1_sing15995	38	NO
364	NSN-9 Novel Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig18369	36	NO
370	NSN-10 Novel Secreted protein, No signal peptide	None	Hpb_Ad_1_isotig04069	33	NO
24	NSP-1 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig11973	1584	SS

69	NSP-2 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12022	802	SS
70	NSP-3 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12137	802	SS
81	NSP-4 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig05257	681	SS
87	NSP-5 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12800	599	SS
88	NSP-6 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12832	596	SS
89	NSP-7 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12576	592	SS
93	NSP-8 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig16252	557	SS
94	NSP-9 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig09200	529	SS
104	NSP-10 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig11963	468	SS
115	NSP-11 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig10785	411	SS
121	NSP-12 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12761	375	SS
122	NSP-13 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig04332	373	SS
123	NSP-14 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig11904	371	SS
124	NSP-15 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12691	369	SS
132	NSP-16 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig11873	339	SS
135	NSP-17 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig01555	331	SS
139	NSP-18 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig05245	317	SS
140	NSP-19 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig10773	317	SS
143	NSP-20 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig07000	315	SS
145	NSP-21 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig16202	311	SS
148	NSP-22 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12388	297	SS
165	NSP-23 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig02071	257	SS
171	NSP-24 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig02755	250	SS
181	NSP-25 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12964	228	SS
186	NSP-26 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig11916	212	SS
191	NSP-27 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig01550	200	SS
193	NSP-28 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig03992	198	SS
195	NSP-29 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig13553	197	SS
197	NSP-30 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12701	194	SS
202	NSP-31 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig11681	188	SS
208	NSP-32 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12755	167	SS
209	NSP-33 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig06181	166	SS
218	NSP-34 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12710	145	SS
223	NSP-35 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig04118	136	SS
228	NSP-36 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig15557	128	SS

232	NSP-37 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig11755	121	SS
238	NSP-38 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12243	115	SS
246	NSP-39 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig16333	108	SS
258	NSP-40 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig17875	99	SS
259	NSP-41 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig17793	98	SS
265	NSP-42 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12577	94	SS
270	NSP-43 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig15139	92	SS
273	NSP-44 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12049	91	SS
275	NSP-45 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig16925	89	SS
276	NSP-46 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig11980	89	SS
283	NSP-47 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig13627	83	SS
294	NSP-48 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12083	80	SS
301	NSP-49 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig17751	74	SS
308	NSP-50 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig10636	66	SS
315	NSP-51 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig11357	60	SS
319	NSP-52 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig12335	58	SS
320	NSP-53 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig01125	56	SS
332	NSP-54 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig02368	52	SS
340	NSP-55 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig13626	48	SS
342	NSP-56 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig04317	47	SS
344	NSP-57 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig09936	47	SS
352	NSP-58 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig16618	43	SS
361	NSP-59 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig13319	38	SS
365	NSP-60 Novel secreted protein with Signal Peptide	None	Hpb_Ad_1_isotig09979	36	SS
106	Nucleoside diphosphate kinase	NDPk_I	Hpb_Ad_1_isotig05236	462	SS
279	PHA02639 domain containing protein	PHA02639	Hpb_Ad_1_isotig08060	86	SS
44	PHA02954 domain containing protein	PHA02954	Hpb_Ad_1_isotig03547	1120	SS
198	PHA02954 domain containing protein	PHA02954	Hpb_Ad_1_isotig11322	192	SS**
254	PHA02954 domain containing protein	PHA02954	Hpb_Ad_1_isotig16931	103	SS**
309	PHA02954 domain containing protein	PHA02954	Hpb_Ad_1_isotig08016	66	SS
133	Phosphatidylethanolamine binding protein	PEBP euk	Hpb_Ad_1_isotig05126	339	SS
339	Phospholipase A2	PLA2c	Hpb_Ad_1_isotig04018	49	SS
201	Phospholipase D	PLDc (Double)	Hpb_Ad_1_isotig05688	191	NO
299	PIWI-domain containing protein	PIWI-like	Hpb_Ad_1_isotig04875	77	NO
192	PLN02980 multidomain containing protein	PLN02980 multidomain	Hpb_Ad_1_isotig14562	199	SS

102	Poly(U)specific endoribonuclease	XendoU (Double)	Hpb_Ad_1_isotig05789	497	SS
303	Propylcarboxypeptidase	Esterase lipase	Hpb_Ad_1_isotig07006	73	SS*
226	Protein disulfide isomerase	ER PDI fam multidomain	Hpb_Ad_1_isotig05787	133	SS
289	Protein disulfide isomerase	PDI multidomain	Hpb_Ad_1_isotig01916	81	SS*
325	Rab GDP dissociation inhibitor	GDI	Hpb_Ad_1_isotig06129	54	NO
372	Retinol-binding protein	Gp-FAR-1	Hpb-RBP	29	SS
247	Ribosomal protein 60S L40 / Ubiquitin fusion protein	Ribosomal L40e; Ubiquitin	Hpb_Ad_1_isotig13199	108	NO
359	Ribosomal protein 60S P0	Ribosomal P0 L10e	Hpb_Ad_1_isotig01358	38	NO
271	Scavenger receptor homolog	CD36	Hpb_Ad_1_isotig08123	92	SS*
318	Scavenger receptor homolog	CD36	Hpb_Ad_1_isotig05891	58	SS
95	Serine carboxypeptidase	Esterase lipase	Hpb_Ad_1_isotig05975	529	SS
253	Serine carboxypeptidase	Esterase lipase	Hpb_Ad_1_isotig06064	104	SS**
368	Serine carboxypeptidase	Peptidase S10	Hpb_Ad_1_isotig06714	35	SS
97	Serpin	Serpin	Hpb_Ad_1_isotig08233	512	NO
153	Serpin	Serpin	Hpb_Ad_1_isotig02225	281	NO
175	Serpin	Serpin	Hpb_Ad_1_isotig07410	242	NO
179	Superoxide dismutase	Cu-Zn Superoxide Dismutase	Hpb_Ad_1_isotig09104	235	NO
327	Superoxide dismutase	Cu-Zn Superoxide Dismutase	Hpb_Ad_1_isotig10272	54	NO
203	SXC-1 (fragment)	None	Hpb_Ad_1_isotig17658	183	SS
373	Thioredoxin	Thioredoxin-like	Hpb_Ad_1_isotig11056	28	NO
101	Thioredoxin peroxidase	Thioredoxin-like	Hpb_Ad_1_isotig05188	498	NO
260	TIL domain containing protein	TIL	Hpb_Ad_1_isotig00779	98	SS*
317	Transaldolase	Transaldolase Ta1AB	Hpb_Ad_1_isotig07176	59	NO
154	Triose phosphate isomerase	TIM phosphate binding	Hpb_Ad_1_isotig05016	276	NO
54	Trypsin family protein	Tryp_SPc	Hpb_Ad_1_isotig03474	919	NO
57	Trypsin family protein	Tryp_SPc	Hpb_Ad_1_isotig03473	883	NO
125	Trypsin family protein	TryP_SPc	Hpb_Ad_1_isotig02625	369	SS
16	TTR-1 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig04612	2130	SS
41	TTR-2 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig13558	1156	SS
66	TTR-3 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig14171	821	SS
113	TTR-4 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig04121	418	SS
118	TTR-5 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig13207	397	SS
147	TTR-6 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig05212	304	SS
150	TTR-7 Transthyretin-related protein	None	Hpb_Ad_1_isotig14043	286	SS*
210	TTR-8 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig13820	166	SS

240	TTR-9 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig12227	112	SS
245	TTR-10 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig11792	108	SS
285	TTR-11 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig04258	83	SS
313	TTR-12 Transthyretin-related protein	DUF290	Hpb_Ad_1_isotig09798	61	SS*
374	UNC-18	SEC1 multidomain	Hpb_Ad_1_isotig05626	27	NO
1	VAL-1.1	SCP (Double)	Hpb_Ad_1_isotig06320	6546	SS
2	VAL-1.2	SCP (Double)	Hpb_Ad_1_isotig03069	5788	SS*
13	VAL-1.3	SCP (Double)	Hpb_Ad_1_isotig06456	2668	SS
17	VAL-1.4	SCP (Double)	Hpb_Ad_1_isotig01653	1841	SS
23	VAL-1.5	SCP (Double)	Hpb_Ad_1_isotig01652	1596	SS*
58	VAL-1.6 (incomplete)	SCP (Double)	Hpb_Ad_1_isotig01655	867	SS
212	VAL-1.7 (incomplete)	SCP (Double)	Hpb_Ad_1_isotig08291	160	SS*
6	VAL-2.1	SCP (Double)	Hpb_Ad_1_isotig03106	4003	SS
3	VAL-2.2	SCP (Double)	Hpb_Ad_1_isotig07425	5149	SS*
4	VAL-2.3	SCP (Double)	Hpb_Ad_1_isotig03105	5039	SS
5	VAL-3.1	SCP (Double)	Hpb_Ad_1_isotig05790	4754	SS
157	VAL-3.2 (incomplete)	SCP (Single)	Hpb_Ad_1_isotig09998	265	SS
21	VAL-4	SCP (Single)	Hpb_Ad_1_isotig10387	1770	SS
73	VAL-5	SCP (Double)	Hpb_Ad_1_isotig04839	746	SS
51	VAL-6	SCP (Double)	Hpb_Ad_1_isotig03505	996	SS
15	VAL-7.1	SCP (Single)	Hpb_Ad_1_isotig01524	2593	SS
9	VAL-7.2	SCP (Single)	Hpb_Ad_1_isotig01525	3369	SS
11	VAL-7.3	SCP (Single)	Hpb_Ad_1_isotig02284	3051	SS
14	VAL-7.4	SCP (Single)	Hpb_Ad_1_isotig02282	2604	SS
10	VAL-7.5	SCP (Single)	Hpb_Ad_1_isotig01526	3367	SS
40	VAL-8.1	SCP (Double)	Hpb_VAL-8, 02308-like	1200	SS
47	VAL-8.2	SCP (Double)	Hpb_Ad_1_isotig02308	1040	SS*
144	VAL-8.3	SCP (Single)	Hpb_Ad_1_isotig02309	313	SS*
33	VAL-9	SCP (Double)	Hpb_Ad_1_isotig05765	1431	SS
142	VAL-10	SCP (Single)	Hpb_Ad_1_isotig04979	316	SS
35	VAL-11 (incomplete)	SCP (Double)	Hpb_Ad_1_isotig05330	1303	SS*
68	VAL-12	SCP (Double)	Hpb_Ad_1_isotig06637	803	SS
20	VAL-13	SCP (Double)	Hpb_Ad_1_isotig06642	1809	SS
77	VAL-14	SCP (Double)	Hpb_Ad_1_isotig04896	689	SS
225	VAL-15	SCP (Single)	Hpb_Ad_1_isotig02149	133	SS

291	VAL-16	SCP (Double)	Hpb_Ad_1_isotig04861	81	SS
65	VAL-17	SCP (Double)	Hpb_Ad_1_isotig05765	825	SS*
168	VAL-18 (incomplete)	SCP (Double)	Hpb_Ad_1_isotig07988	255	SS*
173	VAL-19.1	SCP (Single)	Hpb_Ad_1_isotig01969	247	SS
180	VAL-19.2	SCP (Single)	Hpb_Ad_1_isotig01971	229	SS
189	VAL-20	SCP (Double)	Hpb_Ad_1_isotig03093	206	SS
184	VAL-21	SCP (Single)	Hpb_Ad_1_isotig09582	216	SS
242	VAL-22	None	Hpb_Ad_1_isotig09707	111	SS
280	VAL-23	SCP (Single)	Hpb_Ad_1_isotig09817	85	SS*
333	VAL-24 (incomplete)	SCP (Single)	Hpb_Ad_1_isotig10211	52	SS*
357	VAL-25	SCP (Single)	Hpb_Ad_1_isotig10274	39	SS
347	VAL Unassigned (fragment)	SCP	Hpb_Ad_1_sing07038	45	SS*
7	Vitellogenin	DUF1943; Vitellogenin N	Hpb_Ad_1_contig00471	3997	SS
28	Vitellogenin	DUF1943	Hpb_Ad_1_contig00207	1552	SS*
38	Vitellogenin	Vitellogenin N	Hpb_Ad_1_contig00203	1205	SS*
39	Vitellogenin	VWD	Hpb_Ad_1_contig00477	1204	SS*
55	Vitellogenin	VWD	Hpb_Ad_1_contig00212	918	SS*
75	Vitellogenin	Vitellogenin N	Hpb_Ad_1_contig00199	696	SS
159	Vitellogenin	None	Hpb_Ad_1_contig00211	263	SS*
220	Vitellogenin (fragment)	VWD	Hpb_Ad_1_contig00212	144	SS*
227	Vitellogenin (fragment)	Vitellogenin N	Hpb_Ad_1_sing00711	131	SS*
321	vWFA domain containing protein	vWFA	Hpb_Ad_1_isotig03936	55	SS*
338	vWFA domain containing protein	vWFA	Hpb_Ad_1_isotig05915	50	NO
22	Zinc metalloprotease MEP-1	Peptidase M13; Peptidase M13N	Hpb_Ad_1_isotig02967	1624	SS*
37	Zinc metalloprotease MEP-2	Pep0; Peptidase M13N	Hpb_Ad_1_isotig05366	1232	SS
48	Zinc metalloprotease MEP-3	Peptidase M13; Peptidase M13N	Hpb_Ad_1_isotig05155	1007	SS*
67	Zinc metalloprotease MEP-4	Peptidase M13; Peptidase M13N	Hpb_Ad_1_isotig05402	806	SS
129	Zinc metalloprotease MEP-5	Peptidase M13N	Hpb_Ad_1_isotig12816	349	SS*