

Supplementary Table 1. BLAST results for 1,363 viral sequences

Viral family	Tool	Sample	Length (nt)	Contig ID	Accession	Description	E-value				
Adenoviridae	blastn	lu	454	1525132	HQ413315	Human adenovirus 6 isolate Tonsil 99	5.00E-154				
		lu	115	NODE_799831_length_85_cov_5.776471	HQ413315	Human adenovirus 6 isolate Tonsil 99	8.00E-51				
		lu	93	1165790	HQ413315	Human adenovirus 6 isolate Tonsil 99	1.00E-37				
		lu	90	node_590642	EU128937	Human adenovirus 2 pIIIA (pIIIA)	3.00E-34				
		lu	97	node_2439213	HQ413315	Human adenovirus 6 isolate Tonsil 99	4.00E-33				
		lu	79	node_1558736	AJ293917	Human adenovirus type 2 early E3 region	1.00E-31				
		lu	77	node_5198546	HQ413315	Human adenovirus 6 isolate Tonsil 99	5.00E-31				
		lu	80	node_2114895	EU128937	Human adenovirus 2 pIIIA (pIIIA)	2.00E-30				
		lu	100	NODE_1346303_length_70_cov_1.200000	HQ413315	Human adenovirus 6 isolate Tonsil 99	3.00E-30				
		lu	86	node_1833672	HQ413315	Human adenovirus 6 isolate Tonsil 99	7.00E-30				
		lu	81	node_1856966	HQ413315	Human adenovirus 6 isolate Tonsil 99	3.00E-28				
		lu	93	node_379696	EU128937	Human adenovirus 2 pIIIA (pIIIA)	4.00E-28				
		lu	77	node_1593032	EU128937	Human adenovirus 2 pIIIA (pIIIA)	1.00E-26				
		lu	130	71222	EU128937	Human adenovirus 2 pIIIA (pIIIA)	5.00E-24				
		lu	87	node_3718540	HQ413315	Human adenovirus 6 isolate Tonsil 99	6.00E-16				
		th	229	370912	HQ413315	Human adenovirus 6 isolate Tonsil 99	8.00E-94				
		th	106	NODE_83428_length_76_cov_42.276318	EU128937	Human adenovirus 2 pIIIA (pIIIA)	2.00E-47				
		th	104	90313	HQ413315	Human adenovirus 6 isolate Tonsil 99	1.00E-43				
		th	124	404943	EU128937	Human adenovirus 2 pIIIA (pIIIA)	3.00E-40				
		th	124	599236	AF534906	Human adenovirus type 1 subgroup C	4.00E-39				
		th	87	node_623862	EU128937	Human adenovirus 2 pIIIA (pIIIA)	3.00E-34				
		th	85	node_648061	EU128937	Human adenovirus 2 pIIIA (pIIIA)	3.00E-33				
		th	85	node_302592	HQ413315	Human adenovirus 6 isolate Tonsil 99	6.00E-31				
		th	83	node_698669	HQ413315	Human adenovirus 6 isolate Tonsil 99	2.00E-15				
		th	91	NODE_101571_length_61_cov_22.606558	HQ413315	Human adenovirus 6 isolate Tonsil 99	2.00E-11				
		th	94	NODE_36422_length_64_cov_4.171875	HQ413315	Human adenovirus 6 isolate Tonsil 99	9.00E-10				
		th	87	NODE_95209_length_57_cov_7.228070	EU128937	Human adenovirus 2 pIIIA (pIIIA)	2.00E-06				
		ur	105	node_50918	HQ413315	Human adenovirus 6 isolate Tonsil 99	6.00E-47				
		ur	104	NODE_30943_length_74_cov_6.175676	EU128937	Human adenovirus 2 pIIIA (pIIIA)	1.00E-43				
		ur	190	187992	HQ413315	Human adenovirus 6 isolate Tonsil 99	3.00E-42				
		ur	91	node_151103	HQ413315	Human adenovirus 6 isolate Tonsil 99	3.00E-39				
		ur	84	node_254756	HQ413315	Human adenovirus 6 isolate Tonsil 99	2.00E-35				
		ur	87	node_234859	HQ413315	Human adenovirus 6 isolate Tonsil 99	7.00E-35				
		ur	77	node_326310	HQ413315	Human adenovirus 6 isolate Tonsil 99	6.00E-30				
		ur	78	node_35008	EU128937	Human adenovirus 2 pIIIA (pIIIA)	2.00E-29				
		ur	156	NODE_6659_length_126_cov_3.182540	GJ226970	Bat adenovirus TJM	8.00E-18				
		Adenoviridae	blastx	lu	168	1325836	ADM46146	52.0 kDa protein [Human adenovirus 57]	1.00E-19		
				lu	141	NODE_26108_length_111_cov_100.045044	ADM46152	VI minor core 27.0 kDa protein [Human adenovirus 57]	2.00E-05		
				lu	80	node_3332916	ADM46152	VI minor core 27.0 kDa protein [Human adenovirus 57]	3.00E-05		
				th	229	NODE_10144_length_199_cov_6.286432	ADD17111	hexon capsid protein [Bat adenovirus TJM]	2.00E-33		
				th	308	678614	P12539	[Murine adenovirus A] Protein IVA2	1.00E-22		
				th	211	NODE_52087_length_181_cov_4.198895	AP_000235	IVA2 [Porcine adenovirus C]	1.00E-15		
				th	104	134173	ADM46152	VI minor core 27.0 kDa protein [Human adenovirus 57]	5.00E-09		
				th	87	node_1505399	AEP16408	maturation protein [Equine adenovirus 1]	2.00E-08		
				th	82	node_61504	YP_004123737	IVA2 [Murine adenovirus 2]	2.00E-06		
				ur	203	167004	ADM46146	52.0 kDa protein [Human adenovirus 57]	3.00E-32		
				ur	212	NODE_27579_length_182_cov_5.164835	ABG22145	hexon [Ovine adenovirus 6]	8.00E-28		
				ur	264	184394	ABG22145	hexon [Ovine adenovirus 6]	3.00E-21		
				ur	163	NODE_23077_length_133_cov_4.954887	AEP16419	early E2A DNA-binding protein [Equine adenovirus 1]	2.00E-14		
				ur	130	NODE_27778_length_100_cov_3.270000	YP_004782109	hexon [Bat adenovirus 2 ]	2.00E-14		
				ur	139	NODE_20581_length_109_cov_3.944954	ACV96785	hexon [Alpaca adenovirus CA/2007]	2.00E-12		
				ur	90	114411	YP_094041	DBP [Bovine adenovirus A]	4.00E-08		
				ur	130	6853	AEK98459	22K [Titi monkey adenovirus ECC-2011]	1.00E-07		
				ur	79	node_59109	ADM46146	52.0 kDa protein [Human adenovirus 57]	2.00E-06		
				ur	82	node_52801	AEM45095	hexon [Colobus gureza adenovirus 2]	9.00E-06		
				ur	81	node_366868	AAF82136	hexon protein [bovine adenovirus 10]	3.00E-05		
				ur	77	node_686357	ADM46152	VI minor core 27.0 kDa protein [Human adenovirus 57]	3.00E-05		
				ur	88	node_323554	YP_004782109	hexon [Bat adenovirus 2 ]>gi 343201211	8.00E-05		
				Adenoviridae	tblastx	ur	262	183266	1169492	Human adenovirus type 19 isolate 2000046912 hexon protein gene	3.00E-26
						ur	170	NODE_15747_length_140_cov_5.421429	1076034	Porcine adenovirus 5	1.82E-21
						ur	172	83216	1013555	Bovine adenovirus type 2	1.36E-11
						ur	101	NODE_25652_length_71_cov_3.323944	13094054	Simian adenovirus 50 isolate 18222	1.26E-08
						ur	170	NODE_17174_length_140_cov_3.657143	1013555	Bovine adenovirus type 2	8.22E-08
						ur	85	node_327321	13931441	Human adenovirus 61 strain MZ	4.16E-07
						ur	266	183731	2511954	Tree shrew adenovirus 1	9.69E-07
						ur	128	NODE_14287_length_98_cov_3.183673	8481442	Simian adenovirus 33	9.75E-07
		ur	120			NODE_16622_length_90_cov_4.255556	4817433	Bovine adenovirus 2 strain 19 hexon gene	2.13E-05		
		ur	107			NODE_31089_length_77_cov_3.454545	954795	Porcine adenovirus serotype 3 complete genome	5.07E-05		
		Herpesviridae	blastn			th	2244	678372	BAJ78563	GP105 [Cavid herpesvirus 2]	0
						th	3437	681784	AEL29769	hypothetical protein [Bovine herpesvirus 4]	0
						th	3437	681785	AEL29769	hypothetical protein [Bovine herpesvirus 4]	0
						th	4195	686135	AEL29788	hypothetical protein [Bovine herpesvirus 4]	0
						th	6318	686453	AEL29808	hypothetical protein [Bovine herpesvirus 4]	0
				th	1748	679480	NP_116409	T55 [Tupaiaid herpesvirus 1]	3.00E-177		
				th	2440	686047	AEL29820	hypothetical protein [Bovine herpesvirus 4]	6.00E-164		
				th	1874	677912	YP_004933858	protein UL86 [Cynomolgus macaque cytomegalovirus strain Ottawa]	2.00E-148		
				th	3518	680352	CAC84358	RRlarge [Saimiriine herpesvirus 2]	2.00E-133		
				th	1997	687887	CAC84320	monocyte chemotactic protein [Saimiriine herpesvirus 2]	4.00E-124		
				th	2340	677313	NP_076556	tegument protein [Bovine herpesvirus 4]	2.00E-123		
				th	1954	679484	NP_116410	T56 [Tupaiaid herpesvirus 1]	1.00E-116		
				th	5115	683236	NP_048040	hypothetical protein AthV3gp09 [Ateline herpesvirus 3]	1.00E-115		
				th	1757	677723	NP_076552	ribonucleotide reductase small subunit [Bovine herpesvirus 4]	5.00E-109		
				Herpesviridae	blastx	th	3226	689219	NP_042636	glycoprotein M [Equid herpesvirus 2]	2.00E-107
						th	2118	685062	AEL29800	hypothetical protein [Bovine herpesvirus 4]	4.00E-105
						th	4234	679715	CAC84324	terminase [Saimiriine herpesvirus 2]	6.00E-99
						th	779	683000	BAJ78545	GP86 [Cavid herpesvirus 2]	6.00E-95
						th	860	682351	AAO46908	DNA polymerase [Sus barbatus rhadinovirus 1]	2.00E-93
						th	995	683867	NP_076548	DNA replication protein [Bovine herpesvirus 4]	5.00E-91
		th	922			node714_0_0_16705	NP_116454	T105 [Tupaiaid herpesvirus 1]	5.00E-89		
		th	1962			678589	NP_116401	T48 [Tupaiaid herpesvirus 1]	2.00E-87		
		th	1619			NODE_32818_length_1589_cov_22.028950	NP_076509	capsid protein [Bovine herpesvirus 4]	2.00E-86		
		th	725			node1266_0_0_38731	BAI22795	DNA polymerase [Bat betaherpesvirus 2]	7.00E-85		
		th	742			node1204_0_0_9543	NP_042621	capsid protein [Equid herpesvirus 2]	2.00E-83		
		th	863			NODE_16282_length_833_cov_6.619448	BAJ78563	GP105 [Cavid herpesvirus 2]	2.00E-80		
		th	1393			680076	NP_116438	T89 [Tupaiaid herpesvirus 1]	3.00E-79		
		th	1588			node155_0_0_18189	AF083424	Ateline herpesvirus 3 complete genome	2.00E-78		
		th	726			683872	NP_116403	T49 [Tupaiaid herpesvirus 1]	6.00E-75		

th	596	678193	YP_004933858	protein UL86 [Cynomolgus macaque cytomegalovirus strain Ottawa]	9.00E-75
th	813	683979	NP_116454	T105 [Tupaiaid herpesvirus 1]	9.00E-71
th	876	NODE_5115_length_846_cov_5.112293	NP_042658	ribonucleotide reductase large subunit [Equid herpesvirus 2]	1.00E-70
th	798	NODE_6917_length_768_cov_7.893229	NP_116435	T86 [Tupaiaid herpesvirus 1]	7.00E-70
th	674	NODE_17498_length_644_cov_10.413043	NP_116441	T92 [Tupaiaid herpesvirus 1]	3.00E-68
th	3523	689051	CAC84297	viral phosphoribosylformylglycineamide amidotransferase [Saimiriine herpesvirus 2]	1.00E-67
th	1731	node119_0_0_51097	CAC84297	viral phosphoribosylformylglycineamide amidotransferase [Saimiriine herpesvirus 2]	1.00E-66
th	1315	687866	AAD30086	DNA polymerase [Human herpesvirus 5]	2.00E-63
th	1042	666421	AAF91253	UL53 protein [Human herpesvirus 5]	7.00E-62
th	618	681260	BAI22795	DNA polymerase [Bat betaherpesvirus 2]	5.00E-60
th	742	683136	YP_068225	rh134 [Macacine herpesvirus 3]	5.00E-59
th	564	686179	NP_116410	T56 [Tupaiaid herpesvirus 1]	8.00E-59
th	551	NODE_19460_length_521_cov_4.470250	BAJ78545	GP86 [Caviid herpesvirus 2]	2.00E-58
th	535	686183	YP_214109	Uracil DNA glycosylase homolog [Murid herpesvirus 1]	3.00E-57
th	1060	568612	NP_116408	T54 [Tupaiaid herpesvirus 1]	6.00E-56
th	1320	683960	NP_076555	tegument protein [Bovine herpesvirus 4]	6.00E-56
th	1098	682500	NP_076516	hypothetical protein BoHV4gp22 [Bovine herpesvirus 4]	3.00E-54
th	514	683312	NP_076498	single-stranded DNA-binding protein MDBP [Bovine herpesvirus 4]	3.00E-54
th	461	NODE_60118_length_431_cov_3.125290	YP_214109	Uracil DNA glycosylase homolog [Murid herpesvirus 1]	1.00E-51
th	897	44494	AAA16740	XILF3 [Human herpesvirus 6]	1.00E-50
th	711	node1323_0_0_6332	NP_076568	tegument protein/v-FGAM-synthetase [Bovine herpesvirus 4]	1.00E-50
th	642	687662	NP_116411	T57 [Tupaiaid herpesvirus 1]	5.00E-50
th	996	661532	NP_116451	T102 [Tupaiaid herpesvirus 1]	4.00E-49
th	1399	686518	ACZ79906	tegument protein US22 [Human herpesvirus 5]	1.00E-48
th	2409	677662	AEL29793	hypothetical protein [Bovine herpesvirus 4]	1.00E-47
th	770	678371	NP_116454	T105 [Tupaiaid herpesvirus 1]	2.00E-47
th	603	NODE_23692_length_573_cov_4.874346	ADB08235	glycoprotein gB [Macaca mulatta rhadinovirus]	2.00E-47
th	440	NODE_18388_length_410_cov_2.973171	YP_002321250	gp57 [Caviid herpesvirus 2]	4.00E-47
th	758	687417	BAJ78563	GP105 [Caviid herpesvirus 2]	1.00E-46
th	690	682109	NP_116438	T89 [Tupaiaid herpesvirus 1]	2.00E-46
th	373	NODE_114226_length_343_cov_11.005831	NP_116435	T86 [Tupaiaid herpesvirus 1]	2.00E-46
th	851	680894	CAC84329	hypothetical protein [Saimiriine herpesvirus 2]	3.00E-46
th	2019	686737	NP_042651	ORF 54 [Equid herpesvirus 2]	2.00E-45
th	426	NODE_41701_length_396_cov_2.295455	NP_116454	T105 [Tupaiaid herpesvirus 1]	3.00E-45
th	1054	138753	NP_076498	single-stranded DNA-binding protein MDBP [Bovine herpesvirus 4]	2.00E-44
th	680	NODE_7308_length_650_cov_11.466154	NP_116466	T115 [Tupaiaid herpesvirus 1]	3.00E-43
th	349	NODE_46337_length_319_cov_3.426332	NP_116410	T56 [Tupaiaid herpesvirus 1]	5.00E-42
th	681	687544	BAI22795	DNA polymerase [Bat betaherpesvirus 2]	1.00E-41
th	1968	689146	YP_438197	ORF75 [Ovine herpesvirus 2]	4.00E-41
th	879	680847	NP_040264	hypothetical protein SaHV2gp27 [Saimiriine herpesvirus 2]	2.00E-39
th	579	node1995_0_0_5426	NP_042652	ORF 55 [Equid herpesvirus 2]	2.00E-39
th	346	688879	ACL51123	DNA polymerase processivity subunit [Human herpesvirus 5]	3.00E-39
th	364	NODE_13608_length_334_cov_7.580838	NP_076498	single-stranded DNA-binding protein MDBP [Bovine herpesvirus 4]	8.00E-39
th	1098	688270	ACE95384	anti-apoptotic protein [Muromegalovirus WP15B]	1.00E-38
th	488	681372	NP_612719	major capsid protein [Panine herpesvirus 2]	4.00E-38
th	893	NODE_43795_length_863_cov_6.502897	AAA16740	XILF3 [Human herpesvirus 6]	7.00E-38
th	571	680788	NP_042617	thymidine kinase [Equid herpesvirus 2]	1.00E-37
th	1373	NODE_35270_length_1343_cov_3.835443	NP_064138	pR33 [Murid herpesvirus 2]	1.00E-37
th	497	677195	NP_040209	transport protein [Saimiriine herpesvirus 2]	3.00E-37
th	500	687705	NP_116454	T105 [Tupaiaid herpesvirus 1]	4.00E-37
th	895	678099	NP_116332	T3 [Tupaiaid herpesvirus 1]	6.00E-37
th	1026	681252	NP_116446	T98 [Tupaiaid herpesvirus 1]	1.00E-36
th	449	node3129_0_0_5824	YP_068225	rh134 [Macacine herpesvirus 3]	5.00E-36
th	1311	677649	NP_116400	T47 [Tupaiaid herpesvirus 1]	6.00E-35
th	317	355724	CAC84320	monocyte chemotactic protein [Saimiriine herpesvirus 2]	7.00E-35
th	499	681186	NP_040211	DNA polymerase [Saimiriine herpesvirus 2]	8.00E-35
th	332	682203	NP_116410	T56 [Tupaiaid herpesvirus 1]	3.00E-34
th	606	51260	NP_116406	T52 [Tupaiaid herpesvirus 1]	2.00E-33
th	1094	677703	NP_116383	T33 [Tupaiaid herpesvirus 1]	2.00E-33
th	568	686607	NP_570766	capsid protein [Macacine herpesvirus 5]	1.00E-32
th	1040	NODE_20527_length_1010_cov_3.341584	YP_068194	rh101 [Macacine herpesvirus 3]	1.00E-32
th	509	NODE_33248_length_479_cov_3.997912	NP_042652	ORF 55 [Equid herpesvirus 2]	2.00E-32
th	295	NODE_59357_length_265_cov_15.037736	BAJ78545	GP86 [Caviid herpesvirus 2]	2.00E-32
th	897	683641	ADQ57900	core gene UL25 family protein [Human herpesvirus 8]	6.00E-32
th	422	685272	YP_004933874	protein UL98 [Cynomolgus macaque cytomegalovirus strain Ottawa]	1.00E-31
th	468	677190	NP_076515	hypothetical protein BoHV4gp22 [Bovine herpesvirus 4]	2.00E-31
th	1122	685098	NP_116398	T45 [Tupaiaid herpesvirus 1]	2.00E-31
th	435	NODE_19119_length_405_cov_10.713580	ACE95545	M34 [Muromegalovirus C4A]	2.00E-31
th	289	NODE_251523_length_259_cov_5.540541	NP_116411	T57 [Tupaiaid herpesvirus 1]	2.00E-31
th	740	678936	NP_612730	deoxyribonuclease [Panine herpesvirus 2]	8.00E-31
th	265	NODE_29749_length_235_cov_4.697872	AEL29788	hypothetical protein [Bovine herpesvirus 4]	1.00E-30
th	410	node3639_0_0_4369	BAJ78517	GP49 [Caviid herpesvirus 2]	6.00E-29
th	335	680090	NP_064162	pR56 [Murid herpesvirus 2]	1.00E-28
th	478	687947	ACE95545	M34 [Muromegalovirus C4A]	1.00E-28
th	778	689163	NP_116451	T102 [Tupaiaid herpesvirus 1]	2.00E-28
th	613	622447	NP_116405	T51 [Tupaiaid herpesvirus 1]	5.00E-28
th	312	72810	NP_116453	T104 [Tupaiaid herpesvirus 1]	6.00E-28
th	1090	682300	BAJ78517	GP49 [Caviid herpesvirus 2]	1.00E-27
th	438	NODE_119923_length_408_cov_4.044117	ADB44898	DNA polymerase [Murid herpesvirus 2]	1.00E-27
th	966	686125	ADY62522	transport protein [Gorilla gorilla cytomegalovirus 1.1]	5.00E-27
th	342	NODE_88271_length_312_cov_3.310897	YP_004933882	protein UL105 [Cynomolgus macaque cytomegalovirus strain Ottawa]	7.00E-27
th	353	679585	ADB08179	envelope glycoprotein gB [Human herpesvirus 8]	3.00E-26
th	250	NODE_58872_length_220_cov_3.950000	AAF81662	DNA polymerase [Retroperitoneal fibromatosis-associated herpesvirus]	6.00E-26
th	410	684108	NP_042634	deoxyribonuclease [Equid herpesvirus 2]	7.00E-26
th	694	681839	NP_047985	hypothetical protein ATHV3gp09 [Ateline herpesvirus 3]	8.00E-26
th	311	NODE_18897_length_281_cov_5.900356	YP_002321239	gp46 [Caviid herpesvirus 2]	1.00E-25
th	337	NODE_269150_length_307_cov_17.671009	BAJ78517	GP49 [Caviid herpesvirus 2]	2.00E-25
th	324	279176	AEL29800	hypothetical protein [Bovine herpesvirus 4]	4.00E-25
th	1008	688108	NP_597953	US22 family protein [Tupaiaid herpesvirus 1]	4.00E-25
th	243	NODE_32355_length_213_cov_3.882629	AAS99982	JM5 [Macaca fuscata rhadinovirus]	5.00E-25
th	1109	687150	NP_116405	T51 [Tupaiaid herpesvirus 1]	1.00E-24
th	260	NODE_91992_length_230_cov_5.382609	NP_612730	deoxyribonuclease [Panine herpesvirus 2]	1.00E-24
th	295	NODE_160328_length_265_cov_5.505661	YP_002321287	gp104 [Caviid herpesvirus 2]	2.00E-24
th	634	680287	NP_064203	pR103 [Murid herpesvirus 2]	3.00E-24
th	1154	683103	HQ247788	Equid herpesvirus 2 strain 276 DNA polymerase gene	4.00E-24
th	1000	node577_0_0_9964	HQ247788	Equid herpesvirus 2 strain 276 DNA polymerase gene	4.00E-24
th	410	687817	NP_116445	T97 [Tupaiaid herpesvirus 1]	6.00E-24
th	464	688610	YP_002321239	gp46 [Caviid herpesvirus 2]	6.00E-24
th	461	685646	YP_002321259	gp75 [Caviid herpesvirus 2]	2.00E-23
th	190	NODE_70912_length_160_cov_5.250000	NP_116408	T54 [Tupaiaid herpesvirus 1]	2.00E-23
th	220	NODE_90821_length_190_cov_8.094737	AAW55920	DNA polymerase [Crocidura russula cytomegalovirus 1]	2.00E-23
th	252	node8796_0_0_2374	ADY62508	glycoprotein B [Macaca fascicularis cytomegalovirus 1]	3.00E-23

th	258	node8293_0_0_2339	YP_004933870	protein UL89 [Cynomolgus macaque cytomegalovirus strain Ottawa]	4.00E-23
th	228	NODE_34782_length_198_cov_4.176768	ACE95609	M105 [Muromegalovirus C4A]	6.00E-23
th	1349	682563	AAO12326	glycoprotein H [Porcine lymphotropic herpesvirus 3]	2.00E-22
th	1011	687529	AEL29776	hypothetical protein [Bovine herpesvirus 4]	2.00E-22
th	1011	687530	AEL29776	hypothetical protein [Bovine herpesvirus 4]	2.00E-22
th	250	NODE_35046_length_220_cov_3.677273	AEL29753	hypothetical protein [Bovine herpesvirus 4]	9.00E-22
th	226	NODE_108765_length_196_cov_2.193877	NP_116383	T33 [Tupaiaid herpesvirus 1]	2.00E-21
th	193	NODE_31781_length_163_cov_5.613497	NP_064194	pR89 [Murid herpesvirus 2]	5.00E-21
th	310	679814	ADV04419	capsid portal protein [Human herpesvirus 5]	6.00E-21
th	256	108122	NP_116404	T50 [Tupaiaid herpesvirus 1]	1.00E-20
th	330	307070	NP_597953	US22 family protein [Tupaiaid herpesvirus 1]	1.00E-20
th	228	NODE_59397_length_198_cov_6.191919	NP_116454	T105 [Tupaiaid herpesvirus 1]	1.00E-20
th	789	NODE_57090_length_759_cov_4.919631	AY129399	Mandrillus cytomegalovirus major DNA binding protein gene	2.00E-20
th	1136	684062	NP_116386	T37 [Tupaiaid herpesvirus 1]	3.00E-20
th	340	NODE_57875_length_310_cov_4.274194	YP_001129418	ORF61 [Human herpesvirus 8]	3.00E-20
th	143	node_1122632	FJ538487	Pan troglodytes cytomegalovirus 2.1 major DNA binding protein gene	4.00E-20
th	661	NODE_22167_length_631_cov_2.624406	NP_048044	v-cyclin [Ateline herpesvirus 3]	8.00E-20
th	176	NODE_40751_length_146_cov_2.205479	ABU62802	glycoprotein B [Colobus guereza cytomegalovirus 1.1]	8.00E-20
th	380	NODE_182839_length_350_cov_3.768571	NP_064203	pR103 [Murid herpesvirus 2]	1.00E-19
th	538	688814	FJ538487	Pan troglodytes cytomegalovirus 2.1 major DNA binding protein gene	2.00E-19
th	284	NODE_228925_length_254_cov_3.055118	NP_047980	major ssDNA binding protein [Ateline herpesvirus 3]	2.00E-19
th	1096	679967	FJ538487	Pan troglodytes cytomegalovirus 2.1 major DNA binding protein gene	4.00E-19
th	294	687543	AAL09158	DNA polymerase type B [Cercopithecine herpesvirus 3]	4.00E-19
th	222	NODE_147943_length_192_cov_11.348958	BAD08315	DNA polymerase [unidentified herpesvirus]	4.00E-19
th	176	NODE_162402_length_146_cov_6.356164	NP_116403	T49 [Tupaiaid herpesvirus 1]	4.00E-19
th	736	NODE_77308_length_706_cov_4.045326	ACE95384	anti-apoptotic protein [Muromegalovirus WP15B]	6.00E-19
th	137	259596	YP_002321273	gp89 [Caviid herpesvirus 2]	1.00E-18
th	1385	679708	AAD56654	IL-8 receptor-like G protein coupled receptor homolog [Human herpesvirus 8]	1.00E-18
th	219	NODE_86697_length_189_cov_7.629630	NP_064162	pR56 [Murid herpesvirus 2]	2.00E-18
th	312	NODE_91385_length_282_cov_6.131206	YP_068233	rh142 [Macacine herpesvirus 3]	2.00E-18
th	217	NODE_107016_length_187_cov_2.422460	ACE95603	M98 [Muromegalovirus C4A]	5.00E-18
th	243	NODE_130947_length_213_cov_4.492958	ACE95571	major DNA-binding protein [Muromegalovirus C4A]	6.00E-18
th	162	NODE_79213_length_132_cov_5.462121	FJ538487	Pan troglodytes cytomegalovirus 2.1 major DNA binding protein gene	8.00E-18
th	353	283888	YP_002321239	gp46 [Caviid herpesvirus 2]	1.00E-17
th	320	685175	YP_004933810	tegument protein UL48 [Cynomolgus macaque cytomegalovirus strain Ottawa]	2.00E-17
th	151	NODE_42608_length_121_cov_3.561984	YP_004207860	hypothetical protein RHVP.24 [Rodent herpesvirus Peru]	2.00E-17
th	166	node_303469	YP_004933874	protein UL98 [Cynomolgus macaque cytomegalovirus strain Ottawa]	3.00E-17
th	215	NODE_36297_length_185_cov_24.081081	BAD08315	DNA polymerase [unidentified herpesvirus]	4.00E-17
th	173	NODE_21244_length_143_cov_3.377622	ACY00423	ORF25 [Human herpesvirus 8]	7.00E-17
th	208	NODE_38953_length_178_cov_8.157304	YP_002321287	gp104 [Caviid herpesvirus 2]	1.00E-16
th	282	680840	YP_002321287	gp104 [Caviid herpesvirus 2]	3.00E-16
th	436	684075	NP_116398	T45 [Tupaiaid herpesvirus 1]	3.00E-16
th	193	node_282983	NP_076498	single-stranded DNA-binding protein MDBP [Bovine herpesvirus 4]	3.00E-16
th	688	NODE_63276_length_658_cov_3.969605	NP_597953	US22 family protein [Tupaiaid herpesvirus 1]	3.00E-16
th	202	NODE_114115_length_172_cov_9.273255	AAM89282	DNA polymerase [Mandrillus cytomegalovirus]	4.00E-16
th	526	677133	NP_076498	single-stranded DNA-binding protein MDBP [Bovine herpesvirus 4]	6.00E-16
th	275	NODE_108245_length_245_cov_4.004082	NP_048044	v-cyclin [Ateline herpesvirus 3]	7.00E-16
th	137	node_182212	AAL09158	DNA polymerase type B [Cercopithecine herpesvirus 3]	7.00E-16
th	221	node_88222	ADE88080	tegument protein UL88 [Human herpesvirus 5]	8.00E-16
th	290	682419	NP_116445	T97 [Tupaiaid herpesvirus 1]	1.00E-15
th	276	node7229_0_0_3130	AC280400	tegument protein US22 [Human herpesvirus 5]	1.00E-15
th	467	497068	NP_042987	protein U94/rep [Human herpesvirus 6]	2.00E-15
th	1083	513505	BAJ78515	GP48 [Caviid herpesvirus 2]	2.00E-15
th	874	678186	YP_002321299	GP105 [Caviid herpesvirus 2]	2.00E-15
th	168	NODE_13239_length_138_cov_2.188406	NP_064159	pR53 [Murid herpesvirus 2]	2.00E-15
th	1080	NODE_86952_length_1050_cov_7.276190	BAJ78515	GP48 [Caviid herpesvirus 2]	2.00E-15
th	107	node_213761	AB592928	Caviid herpesvirus 2 DNA	3.00E-15
th	244	252381	AAO12279	major DNA binding protein [Porcine lymphotropic herpesvirus 2]	3.00E-15
th	247	476369	BAI22795	DNA polymerase [Bat betaherpesvirus 2]	3.00E-15
th	278	NODE_118209_length_248_cov_3.302419	NP_048003	hypothetical protein ATHV3gp09 [Ateline herpesvirus 3]	4.00E-15
th	214	NODE_43177_length_184_cov_2.782609	NP_116404	T50 [Tupaiaid herpesvirus 1]	6.00E-15
th	280	687303	YP_002321250	gp57 [Caviid herpesvirus 2]	1.00E-14
th	216	NODE_3248_length_186_cov_5.091398	ACE95592	M87 [Muromegalovirus C4A]	1.00E-14
th	195	NODE_67168_length_165_cov_5.969697	NP_116411	T57 [Tupaiaid herpesvirus 1]	1.00E-14
th	268	12678	NP_042617	thymidine kinase [Equid herpesvirus 2]	2.00E-14
th	316	677286	NP_076498	single-stranded DNA-binding protein MDBP [Bovine herpesvirus 4]	2.00E-14
th	679	688719	NP_612691	large tegument protein [Panine herpesvirus 2]	2.00E-14
th	328	NODE_23148_length_298_cov_4.120805	YP_002321254	gp70 [Caviid herpesvirus 2]	2.00E-14
th	407	node3680_0_0_6245	NP_042628	ORF 32 [Equid herpesvirus 2]	2.00E-14
th	172	26922	BAJ78517	GP49 [Caviid herpesvirus 2]	3.00E-14
th	425	678657	NP_116454	T105 [Tupaiaid herpesvirus 1]	3.00E-14
th	680	681725	Q69545	RecName: Full=Uncharacterized protein L1 [Human herpesvirus 6]	3.00E-14
th	287	NODE_41986_length_257_cov_3.813230	CAC84324	terminase [Saimiriine herpesvirus 2]	3.00E-14
th	219	NODE_50537_length_189_cov_6.978836	YP_004933840	glycoprotein UL75 [Cynomolgus macaque cytomegalovirus strain Ottawa]	3.00E-14
th	179	NODE_119175_length_149_cov_6.228188	ABO40779	DNA polymerase [Apodemus flavicollis cytomegalovirus 2]	4.00E-14
th	300	283368	ACE95384	anti-apoptotic protein [Muromegalovirus WP15B]	5.00E-14
th	157	NODE_75062_length_127_cov_11.291339	ACE95406	M56 [Muromegalovirus WP15B]	5.00E-14
th	616	NODE_84494_length_586_cov_4.392491	NP_597953	US22 family protein [Tupaiaid herpesvirus 1]	6.00E-14
th	1004	686336	BAJ78496	GP29 [Caviid herpesvirus 2]	8.00E-14
th	1107	NODE_10610_length_1077_cov_6.493965	NP_116337	t8 [Tupaiaid herpesvirus 1]	1.00E-13
th	155	node_13741	NP_116454	T105 [Tupaiaid herpesvirus 1]	1.00E-13
th	160	NODE_62555_length_130_cov_3.161538	FJ483969	Cercopithecine herpesvirus 5 strain Colburn	2.00E-13
th	260	112651	NP_048029	hypothetical protein ATHV3gp09 [Ateline herpesvirus 3]	2.00E-13
th	383	NODE_16096_length_353_cov_6.087819	NP_116330	T1 [Tupaiaid herpesvirus 1]	2.00E-13
th	589	678402	NP_116331	T2 [Tupaiaid herpesvirus 1]	3.00E-13
th	357	NODE_13833_length_327_cov_3.669725	NP_116401	T48 [Tupaiaid herpesvirus 1]	3.00E-13
th	768	NODE_21643_length_738_cov_3.233062	NP_064238	pr127 [Murid herpesvirus 2]	3.00E-13
th	362	NODE_44325_length_332_cov_4.759036	NP_040258	hypothetical protein SaHV2gp27 [Saimiriine herpesvirus 2]	3.00E-13
th	318	NODE_12724_length_288_cov_9.059028	YP_002321239	gp46 [Caviid herpesvirus 2]	4.00E-13
th	185	NODE_24134_length_155_cov_5.341936	ADV04420	helicase-primase helicase subunit [Human herpesvirus 5]	4.00E-13
th	177	node_430262	ADV04403	major capsid protein [Human herpesvirus 5]	4.00E-13
th	470	NODE_73750_length_440_cov_7.781818	ACT81830	tegument protein US22 [Human herpesvirus 5]	5.00E-13
th	122	76604	NP_116436	T87 [Tupaiaid herpesvirus 1]	6.00E-13
th	189	572862	ADE88080	tegument protein UL88 [Human herpesvirus 5]	1.00E-12
th	717	678267	NP_116467	t116 [Tupaiaid herpesvirus 1]	2.00E-12
th	209	NODE_158061_length_179_cov_10.614525	NP_116400	T47 [Tupaiaid herpesvirus 1]	2.00E-12
th	127	NODE_191911_length_97_cov_3.752577	YP_002321250	gp57 [Caviid herpesvirus 2]	2.00E-12
th	137	node_308582	NP_116454	T105 [Tupaiaid herpesvirus 1]	2.00E-12
th	426	NODE_44525_length_396_cov_8.376263	BAJ78515	GP48 [Caviid herpesvirus 2]	2.00E-12
th	405	NODE_5451_length_375_cov_5.488000	YP_004933862	tegument protein UL88 [Cynomolgus macaque cytomegalovirus strain Ottawa]	2.00E-12
th	249	NODE_62550_length_219_cov_3.086758	NP_116423	T73 [Tupaiaid herpesvirus 1]	2.00E-12
th	408	node3677_0_0_2771	YP_004933862	tegument protein UL88 [Cynomolgus macaque cytomegalovirus strain Ottawa]	2.00E-12

th	148	NODE_119144_length_118_cov_2.076271	AEL29768	hypothetical protein [Bovine herpesvirus 4]	3.00E-12
th	165	NODE_20732_length_135_cov_2.044445	NP_047980	major ssDNA binding protein [Ateline herpesvirus 3]	4.00E-12
th	132	143595	ACY71883	DNA polymerase [Equid herpesvirus 5]	5.00E-12
th	403	472553	ACY00466	ORF63 [Human herpesvirus 8]	7.00E-12
th	176	NODE_65023_length_146_cov_4.849315	ACY00455	ORF56 [Human herpesvirus 8]	8.00E-12
th	196	NODE_102601_length_166_cov_4.451807	NP_042617	thymidine kinase [Equid herpesvirus 2]	1.00E-11
th	169	NODE_63817_length_139_cov_4.179856	BAJ78563	GP105 [Caviid herpesvirus 2]	1.00E-11
th	162	282758	NP_612730	deoxyribonuclease [Panine herpesvirus 2]	2.00E-11
th	162	NODE_223588_length_132_cov_3.371212	ACB69202	glycoprotein B [Sus barbatus rhadinovirus 1]	2.00E-11
th	147	node_556557	ACT68393	glycoprotein B [Gorilla gorilla cytomegalovirus 1.1]	2.00E-11
th	216	node_82169	NP_065553	deoxyuridine triphosphatase [Alcelaphine herpesvirus 1]	2.00E-11
th	474	680083	NP_116433	T84 [Tupaiaid herpesvirus 1]	3.00E-11
th	167	NODE_11552_length_137_cov_6.051095	ACE95568	DNA polymerase [Muromegalovirus C4A]	3.00E-11
th	127	NODE_74896_length_97_cov_5.639175	ADV04385	single-stranded DNA-binding protein [Human herpesvirus 5]	3.00E-11
th	182	NODE_90322_length_152_cov_2.118421	NP_047996	major capsid protein [Ateline herpesvirus 3]	3.00E-11
th	229	node10617_0_0_1954	CAC84304	polmerase [Saimiriine herpesvirus 2]	3.00E-11
th	310	685795	NP_116379	T30 [Tupaiaid herpesvirus 1]	4.00E-11
th	119	453076	AAM89279	DNA polymerase [Pongo pygmaeus cytomegalovirus 1]	7.00E-11
th	472	677586	NP_116330	T1 [Tupaiaid herpesvirus 1]	7.00E-11
th	144	NODE_152665_length_114_cov_2.622807	NP_570766	capsid protein [Macacine herpesvirus 5]	7.00E-11
th	102	node_446343	ACE95266	M89 [Muromegalovirus G4]	7.00E-11
th	116	node_49999	AEL29768	hypothetical protein [Bovine herpesvirus 4]	7.00E-11
th	830	NODE_43772_length_800_cov_8.417500	NP_116375	T29 [Tupaiaid herpesvirus 1]	8.00E-11
th	167	178320	AEI91957	putative capsid protein [Porcine cytomegalovirus]	9.00E-11
th	202	NODE_13887_length_172_cov_4.290698	AAO12325	thymidine kinase [Porcine lymphotropic herpesvirus 3]	9.00E-11
th	847	682028	NP_116445	T97 [Tupaiaid herpesvirus 1]	1.00E-10
th	149	NODE_10588_length_119_cov_2.663866	NP_042949	capsid triplex subunit 2 [Human herpesvirus 6]	1.00E-10
th	137	259595	YP_002321273	gp89 [Caviid herpesvirus 2]	2.00E-10
th	133	node_311731	NP_042621	capsid protein [Equid herpesvirus 2]	2.00E-10
th	106	NODE_55739_length_76_cov_4.828948	YP_002321273	gp89 [Caviid herpesvirus 2]	2.00E-10
th	654	node1570_0_0_5747	NP_116334	T5 [Tupaiaid herpesvirus 1]	2.00E-10
th	117	486438	ADV04385	single-stranded DNA-binding protein [Human herpesvirus 5]	3.00E-10
th	258	NODE_59862_length_228_cov_2.587719	NP_064186	pR87 [Murid herpesvirus 2]	3.00E-10
th	405	NODE_39780_length_375_cov_4.170667	AB592928	Caviid herpesvirus 2 DNA	4.00E-10
th	179	37656	NP_050252	origin binding protein [Human herpesvirus 6]	4.00E-10
th	113	NODE_93192_length_83_cov_4.421687	CAC84339	helicase [Saimiriine herpesvirus 2]	4.00E-10
th	178	10145	YP_002321271	gp87 [Caviid herpesvirus 2]	5.00E-10
th	138	NODE_120645_length_108_cov_2.351852	AAA16740	XILF3 [Human herpesvirus 6]	5.00E-10
th	150	NODE_48909_length_120_cov_6.541667	ADY62505	glycoprotein B [Mandrillus cytomegalovirus]	5.00E-10
th	128	NODE_53012_length_98_cov_4.193878	AAO12282	DNA polymerase [Porcine lymphotropic herpesvirus 2]	5.00E-10
th	149	NODE_190995_length_119_cov_5.176471	YP_073773	protein UL49 [Human herpesvirus 7]	6.00E-10
th	166	NODE_95578_length_136_cov_5.345588	NP_116443	T94 [Tupaiaid herpesvirus 1]	6.00E-10
th	607	node1799_0_0_4393	BAJ78495	GP28.1 [Caviid herpesvirus 2]	6.00E-10
th	127	NODE_101875_length_97_cov_2.876289	AAF60007	packaging protein [Rhesus monkey rhadinovirus H26-95]	8.00E-10
th	130	node_358925	YP_004933826	protein UL57 [Cynomolgus macaque cytomegalovirus strain Ottawa]	8.00E-10
th	306	NODE_91359_length_276_cov_5.036232	NP_040266	hypothetical protein SaHV2gp27 [Saimiriine herpesvirus 2]	8.00E-10
th	326	node5426_0_0_2856	NP_116374	t28.2 [Tupaiaid herpesvirus 1]	8.00E-10
th	95	node_110945	AB592928	Caviid herpesvirus 2 DNA	9.00E-10
th	171	306305	NP_042661	tegument protein [Equid herpesvirus 2]	1.00E-09
th	653	678933	NP_116374	t28.2 [Tupaiaid herpesvirus 1]	1.00E-09
th	445	681749	BAA78228	U8 [Human herpesvirus 6B]	1.00E-09
th	354	686243	ADE88046	protein UL38 [Human herpesvirus 5]	1.00E-09
th	120	NODE_36510_length_90_cov_3.000000	ABO40787	DNA polymerase [Rattus exulans cytomegalovirus 1]	1.00E-09
th	179	NODE_38619_length_149_cov_4.677852	NP_076529	alkaline exonuclease [Bovine herpesvirus 4]	1.00E-09
th	183	NODE_88270_length_153_cov_4.653595	NP_116454	T105 [Tupaiaid herpesvirus 1]	1.00E-09
th	141	NODE_88777_length_111_cov_5.225225	BAI22795	DNA polymerase [Bat betaherpesvirus 2]	1.00E-09
th	195	130407	NP_116384	T34 [Tupaiaid herpesvirus 1]	2.00E-09
th	349	677148	NP_076525	hypothetical protein BoHV4gp22 [Bovine herpesvirus 4]	2.00E-09
th	186	NODE_106371_length_156_cov_2.057692	NP_050223	transactivator [Human herpesvirus 6]	2.00E-09
th	179	NODE_140828_length_149_cov_2.362416	YP_068292	rh204 [Macacine herpesvirus 3]	2.00E-09
th	186	node_383088	ADY62519	DNA polymerase [Gorilla gorilla cytomegalovirus 2.1]	2.00E-09
th	132	NODE_59228_length_102_cov_9.774509	ACE95557	DNA-binding protein [Muromegalovirus C4A]	2.00E-09
th	781	node_74353	Q69545	RecName: Full=Uncharacterized protein L1 [Human herpesvirus 6]	2.00E-09
th	200	NODE_118446_length_170_cov_2.800000	CAC84355	hypothetical protein [Saimiriine herpesvirus 2]	3.00E-09
th	194	NODE_140870_length_164_cov_2.378049	CAC84352	primase [Saimiriine herpesvirus 2]	3.00E-09
th	136	NODE_141156_length_106_cov_8.330189	NP_065555	primase [Alcelaphine herpesvirus 1]	3.00E-09
th	115	NODE_158035_length_85_cov_3.870588	ACE95609	M105 [Muromegalovirus C4A]	3.00E-09
th	118	NODE_128479_length_88_cov_3.454545	NP_116438	T89 [Tupaiaid herpesvirus 1]	4.00E-09
th	120	node_174159	CAC84324	terminase [Saimiriine herpesvirus 2]	4.00E-09
th	121	node_68399	YP_004933881	protein UL104 [Cynomolgus macaque cytomegalovirus strain Ottawa]	4.00E-09
th	159	258493	NP_040209	transport protein [Saimiriine herpesvirus 2]	5.00E-09
th	141	node_202400	ACE95406	M56 [Muromegalovirus WP15B]	5.00E-09
th	898	NODE_13506_length_868_cov_6.647465	YP_002321299	GP105 [Caviid herpesvirus 2]	7.00E-09
th	155	NODE_17530_length_125_cov_2.504000	NP_116446	T98 [Tupaiaid herpesvirus 1]	7.00E-09
th	90	node_473077	NP_042620	ORF 24 [Equid herpesvirus 2]	7.00E-09
th	97	node_9173	NP_116454	T105 [Tupaiaid herpesvirus 1]	7.00E-09
th	320	685463	NP_612730	deoxyribonuclease [Panine herpesvirus 2]	9.00E-09
th	579	685815	YP_073809	tegument serine/threonine protein kinase [Human herpesvirus 7]	9.00E-09
th	147	NODE_10589_length_117_cov_2.384615	AEI91957	putative capsid protein [Porcine cytomegalovirus]	9.00E-09
th	106	149741	YP_004207860	hypothetical protein RHVP.24 [Rodent herpesvirus Peru]	1.00E-08
th	848	678162	ADQ57884	ORF10 protein [Human herpesvirus 8]	1.00E-08
th	119	NODE_120282_length_89_cov_2.752809	CAC84304	polmerase [Saimiriine herpesvirus 2]	1.00E-08
th	102	NODE_55445_length_72_cov_3.027778	NP_116411	T57 [Tupaiaid herpesvirus 1]	1.00E-08
th	569	node2049_0_0_4156	NP_612687	DNA polymerase processivity subunit [Panine herpesvirus 2]	1.00E-08
th	160	1921	NP_116411	T57 [Tupaiaid herpesvirus 1]	2.00E-08
th	126	419834	ACB55590	glycoprotein B [Babryousa babryussa rhadinovirus 1]	2.00E-08
th	457	680838	NP_570809	large ribonucleotide reductase [Macacine herpesvirus 5]	2.00E-08
th	536	683416	NP_042645	glycoprotein L [Equid herpesvirus 2]	2.00E-08
th	118	node_216060	AEL29788	hypothetical protein [Bovine herpesvirus 4]	2.00E-08
th	113	NODE_82215_length_83_cov_3.506024	NP_076498	single-stranded DNA-binding protein MDBP [Bovine herpesvirus 4]	2.00E-08
th	368	node4372_12_0_10580	Q69545	RecName: Full=Uncharacterized protein L1 [Human herpesvirus 6]	2.00E-08
th	110	309270	ADV04385	single-stranded DNA-binding protein [Human herpesvirus 5]	3.00E-08
th	184	NODE_104451_length_154_cov_5.993506	YP_002321242	gp49 [Caviid herpesvirus 2]	3.00E-08
th	159	node_291527	ADV04414	deoxyribonuclease [Human herpesvirus 5]	3.00E-08
th	203	NODE_36627_length_173_cov_3.456647	NP_116379	T30 [Tupaiaid herpesvirus 1]	3.00E-08
th	234	NODE_6292_length_204_cov_16.372549	AF281817	Tupaia herpesvirus strain 2	4.00E-08
th	149	NODE_139046_length_119_cov_2.949580	ACE95571	major DNA-binding protein [Muromegalovirus C4A]	4.00E-08
th	304	NODE_3656_length_274_cov_2.605839	NP_064154	pR48 [Murid herpesvirus 2]	4.00E-08
th	145	NODE_99447_length_115_cov_8.791305	NP_116334	T5 [Tupaiaid herpesvirus 1]	4.00E-08
th	751	684529	YP_004933812	protein UL48a [Cynomolgus macaque cytomegalovirus strain Ottawa]	5.00E-08
th	1155	688409	NP_116398	T45 [Tupaiaid herpesvirus 1]	5.00E-08
th	160	node_109711	ACY00423	ORF25 [Human herpesvirus 8]	6.00E-08

th	121	node_292245	YP_002321239	gp46 [Caviid herpesvirus 2]	6.00E-08
th	150	NODE_31113_length_120_cov_5.450000	2W4B_A	Chain A	6.00E-08
th	203	NODE_11526_length_173_cov_3.560694	NP_064141	pR36 [Murid herpesvirus 2]	7.00E-08
th	140	NODE_42489_length_110_cov_3.100000	NP_733870	ORF17 [Callitrichine herpesvirus 3]	7.00E-08
th	174	NODE_61871_length_144_cov_3.625000	NP_042658	ribonucleotide reductase large subunit [Equid herpesvirus 2]	7.00E-08
th	253	NODE_13989_length_223_cov_3.757848	AEL29801	hypothetical protein [Bovine herpesvirus 4]	8.00E-08
th	108	node_35382	ADV04403	major capsid protein [Human herpesvirus 5]	8.00E-08
th	95	NODE_102674_length_65_cov_5.892308	YP_004933882	protein UL105 [Cynomolgus macaque cytomegalovirus strain Ottawa]	1.00E-07
th	348	NODE_42066_length_318_cov_6.679245	NP_116454	T105 [Tupaiaid herpesvirus 1]	1.00E-07
th	143	node_62341	NP_076525	hypothetical protein BoHV4gp22 [Bovine herpesvirus 4]	1.00E-07
th	174	node_77803	NP_116385	T35 [Tupaiaid herpesvirus 1]	1.00E-07
th	119	node_79685	YP_004933882	protein UL105 [Cynomolgus macaque cytomegalovirus strain Ottawa]	1.00E-07
th	321	171142	ADZ99565	glycoprotein H [Equid herpesvirus 2]	2.00E-07
th	525	683601	BAJ78515	GP48 [Caviid herpesvirus 2]	2.00E-07
th	88	node_108382	ABH05841	DNA polymerase [Eptesicus serotinus rhadinovirus 1]	2.00E-07
th	123	NODE_139238_length_93_cov_2.763441	BAJ78545	GP86 [Caviid herpesvirus 2]	2.00E-07
th	98	node_1573363	CAC84358	RRlarge [Saimiriine herpesvirus 2]	2.00E-07
th	100	node_585250	BAJ78517	GP49 [Caviid herpesvirus 2]	2.00E-07
th	184	NODE_72986_length_154_cov_11.012987	NP_116384	T34 [Tupaiaid herpesvirus 1]	2.00E-07
th	299	node6213_0_0_2490	NP_597953	US22 family protein [Tupaiaid herpesvirus 1]	2.00E-07
th	145	NODE_11175_length_115_cov_2.000000	AF327830	Bovine lymphotropic herpesvirus DNA polymerase (DPOL) gene	3.00E-07
th	97	node_162944	BAJ78563	GP105 [Caviid herpesvirus 2]	3.00E-07
th	191	NODE_43415_length_161_cov_4.310559	AEL29807	hypothetical protein [Bovine herpesvirus 4]	3.00E-07
th	356	680432	ADE88080	tegument protein UL88 [Human herpesvirus 5]	4.00E-07
th	330	NODE_63202_length_300_cov_3.433333	NP_047993	glycoprotein H [Ateline herpesvirus 3]	4.00E-07
th	194	165928	YP_004933814	protein UL49 [Cynomolgus macaque cytomegalovirus strain Ottawa]	5.00E-07
th	314	678605	BAJ78552	GP94 [Caviid herpesvirus 2]	5.00E-07
th	140	node_12407	CAC84337	hypothetical protein [Saimiriine herpesvirus 2]	5.00E-07
th	984	478975	NP_064151	pR45 [Murid herpesvirus 2]	6.00E-07
th	146	NODE_215611_length_116_cov_5.646552	BAJ78545	GP86 [Caviid herpesvirus 2]	6.00E-07
th	103	node_346418	ACT68393	glycoprotein B [Gorilla gorilla cytomegalovirus 1.1]	6.00E-07
th	131	node_8569	NP_116453	T104 [Tupaiaid herpesvirus 1]	6.00E-07
th	98	node_919025	AAM89282	DNA polymerase [Mandrillus cytomegalovirus]	6.00E-07
th	133	332968	NP_064199	pR98 [Murid herpesvirus 2]	8.00E-07
th	477	681741	NP_048030	hypothetical protein AthV3gp09 [Ateline herpesvirus 3]	8.00E-07
th	226	686012	NP_116403	T49 [Tupaiaid herpesvirus 1]	8.00E-07
th	87	node_1178673	YP_004933858	protein UL86 [Cynomolgus macaque cytomegalovirus strain Ottawa]	8.00E-07
th	91	node_213762	NP_116411	T57 [Tupaiaid herpesvirus 1]	8.00E-07
th	238	NODE_45584_length_208_cov_2.552885	NP_612795	tegument protein US22 [Panine herpesvirus 2]	8.00E-07
th	124	155207	NP_116410	T56 [Tupaiaid herpesvirus 1]	1.00E-06
th	127	NODE_196015_length_97_cov_2.298969	AEL29808	hypothetical protein [Bovine herpesvirus 4]	1.00E-06
th	114	node_380625	NP_065560	ribonucleotide-reductase	1.00E-06
th	158	NODE_71805_length_128_cov_3.484375	NP_116374	t28.2 [Tupaiaid herpesvirus 1]	1.00E-06
th	193	435852	NP_116387	T38 [Tupaiaid herpesvirus 1]	2.00E-06
th	106	NODE_112372_length_76_cov_7.421052	YP_004933858	protein UL86 [Cynomolgus macaque cytomegalovirus strain Ottawa]	2.00E-06
th	82	node_1606468	ACY71885	DNA terminase [Equid herpesvirus 5]	2.00E-06
th	87	node_309649	NP_116438	T89 [Tupaiaid herpesvirus 1]	2.00E-06
th	131	NODE_45555_length_101_cov_3.049505	YP_004933871	protein UL95 [Cynomolgus macaque cytomegalovirus strain Ottawa]	2.00E-06
th	90	node_476606	ACY82599	DNA polymerase [Egyptian fruit bat gammaherpesvirus]	2.00E-06
th	228	NODE_75238_length_198_cov_3.803030	NP_116403	T49 [Tupaiaid herpesvirus 1]	2.00E-06
th	109	node_83459	NP_116411	T57 [Tupaiaid herpesvirus 1]	2.00E-06
th	778	682679	ACE95558	ribonucleotide reductase [Muromegalovirus C4A]	3.00E-06
th	994	683758	AAG01636	Orf73 [Human herpesvirus 8]	3.00E-06
th	110	NODE_119454_length_80_cov_3.087500	AAK28844	DNA polymerase [Ovine herpesvirus 2]	3.00E-06
th	81	node_1376838	NP_116406	T52 [Tupaiaid herpesvirus 1]	3.00E-06
th	297	NODE_31492_length_267_cov_3.861423	NP_064239	pR128 [Murid herpesvirus 2]	3.00E-06
th	154	NODE_40956_length_124_cov_2.596774	NP_065526	ORF27 [Alcelaphine herpesvirus 1]	3.00E-06
th	126	node_111848	NP_064203	pR103 [Murid herpesvirus 2]	4.00E-06
th	96	node_1388298	ACE95609	M105 [Muromegalovirus C4A]	4.00E-06
th	88	node_484987	NP_116454	T105 [Tupaiaid herpesvirus 1]	4.00E-06
th	95	440132	AEL29763	hypothetical protein [Bovine herpesvirus 4]	5.00E-06
th	84	node_1321217	NP_116438	T89 [Tupaiaid herpesvirus 1]	5.00E-06
th	373	NODE_16171_length_343_cov_8.166181	YP_004933802	tegument protein UL43 [Cynomolgus macaque cytomegalovirus strain Ottawa]	5.00E-06
th	125	node_73349	NP_064162	pR56 [Murid herpesvirus 2]	5.00E-06
th	124	NODE_74117_length_94_cov_4.957447	YP_073806	tegument protein UL16 [Human herpesvirus 7]	5.00E-06
th	98	node_802809	ADR79392	capsid protein [Cytomegalovirus Eptesicus fuscus/IT/USA/2009]	5.00E-06
th	113	node_822205	NP_612729	tegument serine/threonine protein kinase [Panine herpesvirus 2]	5.00E-06
th	111	node_94817	YP_067987	BDRF1 [Macacine herpesvirus 4]	5.00E-06
th	237	node9904_0_0_2115	NP_116452	T103 [Tupaiaid herpesvirus 1]	5.00E-06
th	93	386874	YP_073776	DNA packaging protein UL32 [Human herpesvirus 7]	7.00E-06
th	276	NODE_107525_length_246_cov_4.158536	NP_064158	pR52 [Murid herpesvirus 2]	7.00E-06
th	200	node_265207	CAC84352	primase [Saimiriine herpesvirus 2]	7.00E-06
th	170	node_300384	YP_002321271	gp87 [Caviid herpesvirus 2]	7.00E-06
th	746	NODE_3533_length_716_cov_7.420391	YP_002321299	GP105 [Caviid herpesvirus 2]	7.00E-06
th	90	node_703509	NP_048017	helicase [Ateline herpesvirus 3]	7.00E-06
th	102	node_711083	AAS99982	JM5 [Macaca fuscata rhadinovirus]	7.00E-06
th	297	NODE_88092_length_267_cov_11.666667	NP_116386	T37 [Tupaiaid herpesvirus 1]	7.00E-06
th	128	NODE_95165_length_98_cov_5.704082	YP_002321287	gp104 [Caviid herpesvirus 2]	7.00E-06
th	90	node_983709	YP_004207846	single-stranded DNA binding protein [Rodent herpesvirus Peru]	7.00E-06
th	1102	node442_0_0_26930	AAT00005	JM28 [Macaca fuscata rhadinovirus]	8.00E-06
th	276	310793	ABB22266	R-transactivator-like protein [Ovine herpesvirus 2]	9.00E-06
th	111	node_292225	NP_064198	pR97 [Murid herpesvirus 2]	9.00E-06
th	135	NODE_56865_length_105_cov_5.552381	ADY62519	DNA polymerase [Gorilla gorilla cytomegalovirus 2.1]	9.00E-06
th	87	node_726078	AAO46909	DNA polymerase [Sus barbatus lymphotropic herpesvirus 1]	9.00E-06
th	218	NODE_77153_length_188_cov_9.531915	NP_116386	T37 [Tupaiaid herpesvirus 1]	9.00E-06
th	83	node_776528	BAJ78563	GP105 [Caviid herpesvirus 2]	9.00E-06
th	548	686233	BAA78211	LT1 [Human herpesvirus 6B]	1.00E-05
th	310	NODE_13240_length_280_cov_3.403571	NP_116407	T53 [Tupaiaid herpesvirus 1]	1.00E-05
th	163	NODE_149053_length_133_cov_4.842105	NP_612730	deoxyribonuclease [Panine herpesvirus 2]	1.00E-05
th	1323	NODE_33695_length_1293_cov_6.852282	NP_116337	t8 [Tupaiaid herpesvirus 1]	1.00E-05
th	97	NODE_94533_length_67_cov_7.671642	ACE95429	M88 [Muromegalovirus WP15B]	1.00E-05
th	233	NODE_102636_length_203_cov_2.044335	AEL29801	hypothetical protein [Bovine herpesvirus 4]	2.00E-05
th	89	node_1356849	ACE95568	DNA polymerase [Muromegalovirus C4A]	2.00E-05
th	116	NODE_206082_length_86_cov_3.220930	YP_002321264	gp80 [Caviid herpesvirus 2]	2.00E-05
th	79	node_267223	ABR80649	glycoprotein B [Eptesicus serotinus rhadinovirus 1]	2.00E-05
th	90	node_313980	NP_733881	ORF28 [Callitrichine herpesvirus 3]	2.00E-05
th	166	NODE_32150_length_136_cov_13.183824	ACE95384	anti-apoptotic protein [Muromegalovirus WP15B]	2.00E-05
th	105	NODE_42349_length_75_cov_2.053333	ADV04385	single-stranded DNA-binding protein [Human herpesvirus 5]	2.00E-05
th	203	NODE_62327_length_173_cov_9.624277	NP_116387	T38 [Tupaiaid herpesvirus 1]	2.00E-05
th	80	node_720451	NP_116454	T105 [Tupaiaid herpesvirus 1]	2.00E-05
th	158	51491	YP_068012	BALF2 [Macacine herpesvirus 4]	3.00E-05
th	435	677390	NP_064139	pR34 [Murid herpesvirus 2]	3.00E-05

th	91	node_101396	YP_004207861	major capsid protein [Rodent herpesvirus Peru]	3.00E-05	
th	124	NODE_120385_length_94_cov_5.882979	NP_116379	T30 [Tupaiaid herpesvirus 1]	3.00E-05	
th	130	NODE_139865_length_100_cov_3.100000	NP_116454	T105 [Tupaiaid herpesvirus 1]	3.00E-05	
th	93	NODE_222061_length_63_cov_5.952381	ADB08238	glycoprotein gB [Macaca mulatta rhadinovirus]	3.00E-05	
th	200	NODE_22697_length_170_cov_29.835295	YP_073809	tegument serine/threonine protein kinase [Human herpesvirus 7]	3.00E-05	
th	217	node_42331	ADVO4385	single-stranded DNA-binding protein [Human herpesvirus 5]	3.00E-05	
th	105	node_655995	NP_064139	pR34 [Murid herpesvirus 2]	3.00E-05	
th	95	node_75080	NP_612718	capsid triplex subunit 2 [Panine herpesvirus 2]	3.00E-05	
th	110	NODE_168606_length_80_cov_2.150000	AAF59984	transport protein [Rhesus monkey rhadinovirus H26-95]	5.00E-05	
th	82	node_528188	NP_116397	T44 [Tupaiaid herpesvirus 1]	5.00E-05	
th	117	node_262911	ABV03816	UL54 [Colobus guereza cytomegalovirus 1.2]	6.00E-05	
th	100	NODE_63457_length_70_cov_2.371428	NP_612687	DNA polymerase processivity subunit [Panine herpesvirus 2]	6.00E-05	
th	142	266098	ACY00455	ORF56 [Human herpesvirus 8]	8.00E-05	
th	87	node_1326554	YP_073800	protein UL87 [Human herpesvirus 7]	8.00E-05	
th	129	NODE_158459_length_99_cov_2.787879	NP_040228	hypothetical protein SaHV2gp27 [Saimiriine herpesvirus 2]	8.00E-05	
th	106	NODE_200171_length_76_cov_2.328947	NP_064194	pR89 [Murid herpesvirus 2]	8.00E-05	
th	168	NODE_34067_length_138_cov_3.391304	NP_116451	T102 [Tupaiaid herpesvirus 1]	8.00E-05	
th	193	NODE_50571_length_163_cov_14.006135	YP_002321239	gp46 [Caviid herpesvirus 2]	8.00E-05	
th	473	NODE_68830_length_443_cov_4.902935	YP_004933803	protein UL44 [Cynomolgus macaque cytomegalovirus strain Ottawa]	8.00E-05	
th	96	node_704837	YP_004933882	protein UL105 [Cynomolgus macaque cytomegalovirus strain Ottawa]	8.00E-05	
th	79	120281	ABH08757	DNA polymerase [Bandicota savillei rhadinovirus 1]	1.00E-04	
th	82	152254	BAJ78563	GP105 [Caviid herpesvirus 2]	1.00E-04	
th	92	476851	YP_004933814	protein UL49 [Cynomolgus macaque cytomegalovirus strain Ottawa]	1.00E-04	
th	143	NODE_106171_length_113_cov_2.221239	NP_042638	DNA helicase-primease complex component [Equid herpesvirus 2]	1.00E-04	
th	233	NODE_126492_length_203_cov_3.896552	NP_570752	hypothetical protein MmVgp09 [Macacine herpesvirus 5]	1.00E-04	
th	123	node_142652	NP_064138	pR33 [Murid herpesvirus 2]	1.00E-04	
th	260	NODE_22141_length_230_cov_2.530435	YP_073770	tegument protein UL37 [Human herpesvirus 7]	1.00E-04	
th	306	NODE_37928_length_276_cov_2.231884	AAT00100	JM123 [Macaca fuscata rhadinovirus]	1.00E-04	
th	360	NODE_60319_length_330_cov_12.275758	NP_116368	T25 [Tupaiaid herpesvirus 1]	1.00E-04	
th	147	node_752702	NP_116386	T37 [Tupaiaid herpesvirus 1]	1.00E-04	
th	127	node_975218	NP_116446	T98 [Tupaiaid herpesvirus 1]	1.00E-04	
tblastx	lu	401	1421542	AF037218	Human herpesvirus 7 strain RK	1.25E-13
	lu	169	1526298	U71366	Kaposi's sarcoma-associated herpes-like virus fragment II	8.67E-13
	lu	349	NODE_1629_length_319_cov_4.489028	AF037218	Human herpesvirus 7 strain RK	2.58E-09
	lu	208	NODE_1015082_length_178_cov_1.904494	AF037218	Human herpesvirus 7 strain RK	1.77E-07
	lu	134	node_2264031	AB021506	Human herpesvirus 6B DNA	3.97E-07
	lu	100	node_6202313	AF037218	Human herpesvirus 7 strain RK	4.66E-07
	lu	123	node_5080090	AF037218	Human herpesvirus 7 strain RK	1.48E-06
	lu	564	1525723	EF526170	Gallid herpesvirus 2 strain 648a hypothetical protein	2.94E-05
	th	1792	node110_0_5_125522	EF526176	Gallid herpesvirus 2 strain JM/102W hypothetical protein	4.94E-16
	th	404	NODE_36018_length_374_cov_8.112300	AJ410493	Saimiriine herpesvirus 2 complete L-DNA sequence	1.36E-07
	th	150	NODE_69529_length_120_cov_6.058333	FJ483970	Aotine herpesvirus 1 strain S34E genomic sequence	1.02E-06
	th	82	node_460558	FJ483970	Aotine herpesvirus 1 strain S34E genomic sequence	1.05E-06
	th	85	node_1551951	AB592928	Caviid herpesvirus 2 DNA	1.98E-06
	th	84	523245	AF232689	Rat cytomegalovirus Maastricht	1.98E-06
	th	124	node_508075	AF281817	Tupaia herpesvirus strain 2	2.11E-06
	th	170	NODE_140392_length_140_cov_2.914286	FJ483969	Cercopithecine herpesvirus 5 strain Colburn	2.63E-06
	th	106	NODE_78867_length_76_cov_4.500000	Z83323	Phocid herpesvirus 2 HSV-2 ORF56-like gene	2.70E-06
	th	105	NODE_190987_length_75_cov_2.506667	FJ483967	Squirrel monkey cytomegalovirus 1 genomic sequence	2.70E-06
	th	103	260317	AF281817	Tupaia herpesvirus strain 2	2.71E-06
	th	89	node_58194	FJ483967	Squirrel monkey cytomegalovirus 1 genomic sequence	2.72E-06
	th	200	NODE_168556_length_170_cov_3.205882	AY528864	Macaca fuscata rhadinovirus	3.59E-06
	th	100	node_302679	AY528864	Macaca fuscata rhadinovirus	3.72E-06
	th	87	node_214360	GU305914	Murid herpesvirus 1 strain Smith	3.74E-06
	th	179	NODE_241260_length_149_cov_5.308725	JN133502	Bovine herpesvirus 4 strain V.test long unique region	4.95E-06
	th	225	node11021_0_0_1372	JN133502	Bovine herpesvirus 4 strain V.test long unique region	4.98E-06
	th	126	NODE_132087_length_96_cov_2.010417	AB592928	Caviid herpesvirus 2 DNA	5.05E-06
	th	101	node_1566023	AF281817	Tupaia herpesvirus strain 2	5.11E-06
	th	85	node_1626226	EU165547	Equid herpesvirus 7 strain T-07 DNA polymerase gene	5.14E-06
	th	84	node_655558	HQ247774	Equid herpesvirus 2 strain 2B glycoprotein H (gH) gene	5.14E-06
	th	90	node_817724	AF281817	Tupaia herpesvirus strain 2	5.48E-06
	th	224	NODE_45604_length_194_cov_2.891752	AF318573	Bovine herpesvirus 4 long unique region	5.86E-06
	th	150	NODE_16970_length_120_cov_5.916667	DQ198083	Ovine herpesvirus 2	6.88E-06
	th	129	NODE_61112_length_99_cov_9.696970	U20824	Equid herpesvirus 2	6.94E-06
	th	88	node_547198	AY129396	Pongo pygmaeus cytomegalovirus 1 major DNA binding protein gene	7.05E-06
	th	86	node_1054203	AY528864	Macaca fuscata rhadinovirus	7.06E-06
	th	85	node_685769	AB592928	Caviid herpesvirus 2 DNA	7.07E-06
	th	181	NODE_95105_length_151_cov_12.006622	AF281817	Tupaia herpesvirus strain 2	9.34E-06
	th	118	NODE_103018_length_88_cov_3.386364	AB592928	Caviid herpesvirus 2 DNA	9.57E-06
	th	223	node11176_0_0_2862	AF480884	Chimpanzee cytomegalovirus	9.82E-06
	th	83	node_1500483	AY528864	Macaca fuscata rhadinovirus	1.24E-05
	th	141	node_16911	DQ198083	Ovine herpesvirus 2	1.30E-05
	th	141	NODE_79159_length_111_cov_3.531532	AF281817	Tupaia herpesvirus strain 2	1.30E-05
	th	110	NODE_166247_length_80_cov_4.237500	FJ483970	Aotine herpesvirus 1 strain S34E genomic sequence	1.37E-05
	th	87	node_1219384	GU305914	Murid herpesvirus 1 strain Smith	1.83E-05
	th	138	NODE_75850_length_108_cov_2.657408	FJ483967	Squirrel monkey cytomegalovirus 1 genomic sequence	2.46E-05
	th	146	NODE_190445_length_116_cov_6.922414	AF480884	Chimpanzee cytomegalovirus	2.48E-05
	th	121	node_586716	AF281817	Tupaia herpesvirus strain 2	2.48E-05
	th	83	node_1055509	AF281817	Tupaia herpesvirus strain 2	2.52E-05
	th	210	NODE_21784_length_180_cov_3.505556	AF318573	Bovine herpesvirus 4 long unique region	2.85E-05
	th	146	396730	JN227533	Cynomolgus macaque cytomegalovirus strain Ottawa	3.37E-05
	th	85	node_148700	AF327830	Bovine lymphotropic herpesvirus DNA polymerase (DPOL) gene	3.38E-05
	th	92	NODE_212906_length_62_cov_2.112903	AF157706	Human herpesvirus 6B strain Z29	3.45E-05
	th	88	node_329187	AF281817	Tupaia herpesvirus strain 2	3.45E-05
	th	88	node_602914	AB592928	Caviid herpesvirus 2 DNA	3.45E-05
	th	88	node_1251364	AF157706	Human herpesvirus 6B strain Z29	3.45E-05
	th	157	311171	JN227533	Cynomolgus macaque cytomegalovirus strain Ottawa	4.61E-05
	th	121	604442	AF037218	Human herpesvirus 7 strain RK	4.68E-05
	th	88	node_1652319	AB592928	Caviid herpesvirus 2 DNA	4.75E-05
	th	85	node_559134	GU305914	Murid herpesvirus 1 strain Smith	4.75E-05
	th	77	node_564562	AF281817	Tupaia herpesvirus strain 2	4.76E-05
	th	85	node_742166	EF125071	Rattus exulans cytomegalovirus 1 glycoprotein B (gB) and DNA polymerase (DPOL) genes	4.92E-05
	th	84	node_996529	AF157706	Human herpesvirus 6B strain Z29	4.93E-05
	th	78	389468	AY129397	Colobus guereza cytomegalovirus 1.1 major DNA binding protein (MDBP) gene	5.86E-05
	th	132	NODE_94689_length_102_cov_2.245098	AV037858	Cercopithecine herpesvirus 15 strain LCL8664	6.40E-05
	th	89	node_425156	AB517983	Bat betaherpesvirus 2 gB	6.51E-05
	th	89	node_571568	GU305914	Murid herpesvirus 1 strain Smith	6.51E-05
	th	78	node_1725038	AF157706	Human herpesvirus 6B strain Z29	6.53E-05
	th	79	node_346731	AF232689	Rat cytomegalovirus Maastricht	6.54E-05
	th	203	NODE_112099_length_173_cov_7.739884	JN133502	Bovine herpesvirus 4 strain V.test long unique region	6.82E-05
	th	122	NODE_190112_length_92_cov_3.206522	U20824	Equid herpesvirus 2	8.02E-05
	th	89	node_957450	JN133502	Bovine herpesvirus 4 strain V.test long unique region	8.95E-05

Papillomaviridae blastn	lu	96	NODE_803976_length_66_cov_1.318182	X70827	Human papillomavirus type 4 complete genome	2.00E-16
	th	642	680206	DQ366842	Rousettus aegyptiacus papillomavirus type 1	1.00E-41
	th	980	107285	AF020905	Common chimpanzee papillomavirus 1	3.00E-10
	th	289	NODE_19824_length_259_cov_3.791506	DQ366842	Rousettus aegyptiacus papillomavirus type 1	3.00E-09
	th	533	687996	DQ366842	Rousettus aegyptiacus papillomavirus type 1	7.00E-09
	th	90	node_728681	AF364505	Macaca fascicularis papillomavirus isolate MFAA26 major capsid protein (L1) gene	5.00E-07
	th	983	NODE_12326_length_953_cov_5.002099	DQ418472	Human papillomavirus isolate FA156 major capsid protein L1 (L1) gene	6.00E-07
	th	78	node_259828	GQ161313	Human papillomavirus type 31 strain CU77 E1 gene	2.00E-05
	th	3358	node19_0_0_80844	GU129016	Human papillomavirus type 148	1.00E-04
blastx	th	4036	681549	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	0
	th	3418	681815	YP_717912	L2 [Rousettus aegyptiacus papillomavirus type 1]	6.00E-166
	th	1584	682004	CAB96121	L1 [Cottontail rabbit papillomavirus]	2.00E-161
	th	1740	688209	NP_040902	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	3.00E-144
	th	1301	NODE_18539_length_1271_cov_8.662471	YP_249604	L1 [Procyon lotor papillomavirus 1]	5.00E-143
	th	1480	681254	Q07848	unnamed protein product [Human papillomavirus type 65]	2.00E-139
	th	1258	559198	YP_717912	L2 [Rousettus aegyptiacus papillomavirus type 1]	8.00E-135
	th	1317	679786	NP_040902	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	9.00E-134
	th	1418	683490	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	6.00E-127
	th	1188	node354_0_0_12094	NP_057848	major capsid protein L1 [Rabbit oral papillomavirus]	1.00E-124
	th	1040	node532_0_0_17651	AAB91540	L1 protein [Cottontail rabbit papillomavirus]	4.00E-107
	th	1046	679116	NP_040902	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	9.00E-99
	th	961	683255	NP_057848	major capsid protein L1 [Rabbit oral papillomavirus]	6.00E-91
	th	868	688552	Q07848	unnamed protein product [Human papillomavirus type 65]	4.00E-86
	th	1018	686111	NP_040294	hypothetical protein [Human papillomavirus type 41]	7.00E-85
	th	609	679637	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	8.00E-82
	th	1895	682085	YP_004646333	E1 [Macaca fascicularis papillomavirus type 2]	1.00E-79
	th	717	683613	AAB91540	L1 protein [Cottontail rabbit papillomavirus]	2.00E-76
	th	1388	678913	NP_040902	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	3.00E-74
	th	585	NODE_63452_length_555_cov_2.392793	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-67
	th	2809	677334	NP_040308	minor capsid protein L2 [Human papillomavirus - 1]	9.00E-67
	th	751	680697	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	8.00E-65
	th	785	684773	AAX86628	E1 protein [Panthera leo persica papillomavirus type 1]	9.00E-65
	th	554	NODE_8694_length_524_cov_5.856870	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-58
	th	903	686877	YP_717912	L2 [Rousettus aegyptiacus papillomavirus type 1]	4.00E-57
	th	1237	680991	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-53
	th	558	680824	AAF25684	major capsid protein [Human papillomavirus type 11]	9.00E-53
	th	498	182216	P36719	envelope protein [Human papillomavirus type 3]	5.00E-51
	th	1037	688335	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-49
	th	487	NODE_10156_length_457_cov_4.958425	NP_040294	hypothetical protein [Human papillomavirus type 41]	7.00E-49
	th	396	688353	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-48
	th	922	NODE_5945_length_892_cov_18.312780	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-47
	th	725	NODE_28399_length_695_cov_6.548202	YP_717912	L2 [Rousettus aegyptiacus papillomavirus type 1]	5.00E-47
	th	451	54628	AC146053	L1 [Feline papillomavirus type 2]	2.00E-43
	th	588	node1931_0_0_6190	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-43
	th	456	685878	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	3.00E-42
	th	640	687870	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	4.00E-40
	th	928	685569	YP_249603	L2 [Procyon lotor papillomavirus 1]	9.00E-39
	th	1163	685927	NP_848022	E2 protein [Felis domesticus papillomavirus type 1]	3.00E-38
	th	1424	NODE_15294_length_1394_cov_9.882353	NP_057843	regulatory protein E1 [Rabbit oral papillomavirus]	1.00E-37
	th	261	NODE_36003_length_231_cov_3.199134	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-35
	th	460	684354	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	6.00E-35
	th	395	NODE_157906_length_365_cov_8.391781	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	3.00E-34
	th	969	node636_0_0_13356	YP_003204680	L2 [Canine papillomavirus 6]	3.00E-33
	th	316	NODE_61511_length_286_cov_2.496504	Q07848	unnamed protein product [Human papillomavirus type 65]	5.00E-33
	th	365	NODE_70804_length_335_cov_5.982090	NP_040902	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	3.00E-32
	th	1044	682535	YP_717907	E6 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-31
	th	505	684466	YP_249604	L1 [Procyon lotor papillomavirus 1]	2.00E-31
	th	331	683978	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	4.00E-31
	th	734	685485	YP_249604	L1 [Procyon lotor papillomavirus 1]	2.00E-30
	th	339	NODE_62762_length_309_cov_3.906149	ABX56103	E1 [Macaca fascicularis papillomavirus type 5]	4.00E-30
	th	296	NODE_49920_length_266_cov_5.048872	NP_057848	major capsid protein L1 [Rabbit oral papillomavirus]	7.00E-30
	th	370	NODE_12387_length_340_cov_5.502941	AEM05818	E1 [Peromyscus papillomavirus type 1]	9.00E-30
	th	258	NODE_75399_length_228_cov_4.934210	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-29
	th	705	682796	NP_040901	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	2.00E-29
	th	310	NODE_103151_length_280_cov_13.628572	YP_003778198	L1 [Mus musculus papillomavirus type 1]	1.00E-28
	th	947	NODE_32789_length_917_cov_9.014176	NP_848022	E2 protein [Felis domesticus papillomavirus type 1]	3.00E-28
	th	565	node2082_0_0_13262	NP_040294	hypothetical protein [Human papillomavirus type 41]	5.00E-28
	th	422	685012	AEP82740	L1 [Canine papillomavirus 9]	1.00E-27
	th	929	682800	NP_040294	hypothetical protein [Human papillomavirus type 41]	2.00E-27
	th	1423	686973	YP_717907	E6 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-27
	th	267	NODE_40994_length_237_cov_5.421941	AAX86628	E1 protein [Panthera leo persica papillomavirus type 1]	2.00E-26
	th	1098	685105	NP_040901	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	3.00E-26
	th	209	NODE_105355_length_179_cov_7.491620	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	6.00E-26
	th	322	NODE_14251_length_292_cov_6.410959	YP_249604	L1 [Procyon lotor papillomavirus 1]	1.00E-25
	th	825	NODE_8454_length_795_cov_6.052830	NP_040308	minor capsid protein L2 [Human papillomavirus - 1]	1.00E-25
	th	209	node_4409	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-25
	th	1083	685405	YP_717907	E6 [Rousettus aegyptiacus papillomavirus type 1]	3.00E-25
	th	338	679634	YP_717907	E6 [Rousettus aegyptiacus papillomavirus type 1]	4.00E-24
	th	222	NODE_33773_length_192_cov_5.666667	NP_057848	major capsid protein L1 [Rabbit oral papillomavirus]	6.00E-24
	th	274	node7330_0_0_2072	YP_001595472	major structural protein [Bandicoot papillomatosis carcinomatosis virus type 1]	7.00E-24
	th	591	node1910_0_0_7492	NP_040901	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	9.00E-24
	th	261	24772	NP_057848	major capsid protein L1 [Rabbit oral papillomavirus]	2.00E-23
	th	829	687312	AAX86615	E2 protein [Lynx rufus papillomavirus type 1]	2.00E-23
	th	249	NODE_116688_length_219_cov_4.872146	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-23
	th	268	node7714_0_0_1900	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-23
	th	897	683353	NP_848022	E2 protein [Felis domesticus papillomavirus type 1]	4.00E-23
	th	963	684943	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	7.00E-23
	th	366	NODE_60439_length_336_cov_3.642857	AAX86629	E2 protein [Panthera leo persica papillomavirus type 1]	4.00E-22
	th	795	684621	NP_848022	E2 protein [Felis domesticus papillomavirus type 1]	2.00E-21
	th	187	NODE_128029_length_157_cov_5.592357	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-21
	th	194	NODE_152208_length_164_cov_4.018293	BAL14429	hypothetical protein [Human papillomavirus type 126]	2.00E-21
	th	323	682751	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	4.00E-21
	th	456	679654	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	8.00E-21
	th	206	NODE_128758_length_176_cov_2.073864	YP_002427692	helicase [Erinaceus europaeus papillomavirus]	1.00E-20
	th	227	NODE_91465_length_197_cov_5.015228	YP_717906	putative major capsid protein [Canine papillomavirus 3]	1.00E-20
	th	227	NODE_37383_length_197_cov_7.197969	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-20
	th	526	node2374_0_0_11064	NP_848022	E2 protein [Felis domesticus papillomavirus type 1]	2.00E-20
	th	299	node6209_0_0_4772	YP_717907	E6 [Rousettus aegyptiacus papillomavirus type 1]	3.00E-20
	th	228	NODE_152595_length_198_cov_13.671718	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	7.00E-20
	th	259	NODE_44112_length_229_cov_11.296944	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	9.00E-20
	th	420	687243	YP_249600	E1 [Procyon lotor papillomavirus 1]	9.00E-20
	th	1217	688308	AAX86631	L2 protein [Panthera leo persica papillomavirus type 1]	1.00E-19

th	202	NODE_138995_length_172_cov_3.348837	YP_001931973	L1 [Ursus maritimus papillomavirus 1]	2.00E-19
th	309	NODE_3281_length_279_cov_2.437276	AEP82743	E1 [Canine papillomavirus 10]	2.00E-19
th	194	NODE_56977_length_164_cov_5.018293	AAB91540	L1 [protein [Cottontail rabbit papillomavirus]	2.00E-19
th	220	NODE_53567_length_190_cov_5.968421	YP_717912	L2 [Rousettus aegyptiacus papillomavirus type 1]	3.00E-19
th	195	NODE_42592_length_165_cov_3.890909	AAX86628	E1 protein [Panthera leo persica papillomavirus type 1]	6.00E-19
th	262	NODE_68219_length_232_cov_7.137931	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	7.00E-19
th	334	NODE_57472_length_304_cov_4.203948	YP_249600	E1 [Procyon lotor papillomavirus 1]	9.00E-19
th	242	NODE_42161_length_212_cov_2.415094	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-18
th	150	494124	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-18
th	641	686724	ACV30150	E1 [Human papillomavirus type 118]	2.00E-18
th	176	node_315631	BAL14429	hypothetical protein [Human papillomavirus type 126]	2.00E-18
th	196	NODE_33309_length_166_cov_3.722892	NP_040294	hypothetical protein [Human papillomavirus type 41]	2.00E-18
th	202	NODE_9310_length_172_cov_9.558140	AAX86625	L1 protein [Puma concolor papillomavirus type 1]	2.00E-18
th	165	NODE_38958_length_135_cov_3.992593	NP_057848	major capsid protein L1 [Rabbit oral papillomavirus]	3.00E-18
th	207	640599	YP_002117846	L1 [Tursiops truncatus papillomavirus 1]	4.00E-18
th	239	NODE_76890_length_209_cov_6.856459	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	4.00E-18
th	541	681010	ACOS8658	putative replication protein E1 [Ovine papillomavirus 3]	6.00E-18
th	224	NODE_105386_length_194_cov_3.180412	YP_004646333	E1 [Macaca fascicularis papillomavirus type 2]	1.00E-17
th	225	338510	AAA47016	coat protein [Human papillomavirus type 13]	2.00E-17
th	506	512302	ACOS8660	putative minor capsid protein L2 [Ovine papillomavirus 3]	2.00E-17
th	234	NODE_138324_length_204_cov_3.382353	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-17
th	238	NODE_92864_length_208_cov_4.105769	YP_004857837	E1 [Morelia spilota papillomavirus 1]	3.00E-17
th	155	454431	AET11874	E1 protein [Human Papillomavirus type 153]	5.00E-17
th	243	NODE_20773_length_213_cov_3.507042	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	7.00E-17
th	465	NODE_119139_length_435_cov_4.781609	CAF05704	E1 protein [Human papillomavirus type 95]	9.00E-17
th	283	NODE_45238_length_253_cov_6.976285	YP_717907	E6 [Rousettus aegyptiacus papillomavirus type 1]	9.00E-17
th	152	NODE_102966_length_122_cov_5.377049	NP_040902	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	1.00E-16
th	215	node11965_0_0_1851	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-16
th	313	190787	YP_656497	L2 protein [Human papillomavirus type 103]	3.00E-16
th	783	218431	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	3.00E-16
th	151	NODE_148981_length_121_cov_4.033058	NP_043439	replication protein E1 [Human papillomavirus type 60]	3.00E-16
th	155	179367	AAX86621	E1 protein [Puma concolor papillomavirus type 1]	6.00E-16
th	175	NODE_16005_length_145_cov_4.813793	YP_003204677	E1 [Canine papillomavirus 6]	6.00E-16
th	264	NODE_100233_length_234_cov_5.918803	YP_717907	E6 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-15
th	202	NODE_4716_length_172_cov_9.139535	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-15
th	152	NODE_78718_length_122_cov_7.737705	AET11874	E1 protein [Human Papillomavirus type 153]	3.00E-15
th	300	686049	YP_002117841	E1 [Tursiops truncatus papillomavirus 1]	4.00E-15
th	878	687946	NP_040305	E6 protein [Human papillomavirus - 1]	4.00E-15
th	163	NODE_55846_length_133_cov_9.052631	NP_040308	minor capsid protein L2 [Human papillomavirus - 1]	4.00E-15
th	230	83162	YP_249600	E1 [Procyon lotor papillomavirus 1]	5.00E-15
th	170	NODE_16402_length_140_cov_8.071428	YP_717912	L2 [Rousettus aegyptiacus papillomavirus type 1]	5.00E-15
th	1279	679992	NP_040305	E6 protein [Human papillomavirus - 1]	6.00E-15
th	231	NODE_35577_length_201_cov_5.398010	AAQ72425	L1 protein [Human papillomavirus]	8.00E-15
th	597	687562	NP_040305	E6 protein [Human papillomavirus - 1]	1.00E-14
th	329	NODE_103882_length_299_cov_3.244147	YP_717912	L2 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-14
th	179	NODE_142142_length_149_cov_2.087248	AAX86625	L1 protein [Puma concolor papillomavirus type 1]	1.00E-14
th	219	NODE_158073_length_189_cov_4.333333	AEP82747	L1 [Canine papillomavirus 10]	1.00E-14
th	194	NODE_32945_length_164_cov_4.518293	Q07848	unnamed protein product [Human papillomavirus type 65]	1.00E-14
th	263	NODE_66862_length_233_cov_6.128756	CAA63876	E2 [Human papillomavirus - 72]	1.00E-14
th	153	489545	YP_003778198	L1 [Mus musculus papillomavirus type 1]	3.00E-14
th	146	NODE_119171_length_116_cov_4.525862	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	4.00E-14
th	261	node8087_0_0_2118	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	4.00E-14
th	148	NODE_168183_length_118_cov_2.635593	YP_003169705	L1 [Rattus norvegicus papillomavirus 1 EES-2009]	5.00E-14
th	200	NODE_63293_length_170_cov_4.229412	NP_040309	major capsid protein L1 [Human papillomavirus - 1]	7.00E-14
th	622	NODE_18916_length_592_cov_5.407094	YP_717907	E6 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-13
th	140	node_951000	AEI61088	early protein E1 [Human papillomavirus type 31]	1.00E-13
th	191	NODE_42137_length_161_cov_4.981367	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-13
th	409	NODE_77259_length_379_cov_7.902375	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	3.00E-13
th	371	684917	YP_249600	E1 [Procyon lotor papillomavirus 1]	4.00E-13
th	143	NODE_19016_length_113_cov_3.699115	ADH29821	replication protein E1 [Human papillomavirus type 123]	4.00E-13
th	301	682830	AAX86621	E1 protein [Puma concolor papillomavirus type 1]	5.00E-13
th	185	NODE_52879_length_155_cov_4.670968	ABX56103	E1 [Macaca fascicularis papillomavirus type 5]	5.00E-13
th	183	565915	AAM92153	putative replication protein E1 [Human papillomavirus type 89]	6.00E-13
th	264	node7919_0_0_2083	CAW42231	L2 protein [Human papillomavirus type 99]	6.00E-13
th	335	84375	ABA61876	L2 [Uncia uncia papillomavirus type 1]	1.00E-12
th	188	NODE_128760_length_158_cov_3.069620	ADJ96360	E1 protein [Lagenorhynchus acutus papillomavirus]	1.00E-12
th	141	NODE_150177_length_111_cov_6.918919	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-12
th	173	NODE_118864_length_143_cov_3.405594	NP_057848	major capsid protein L1 [Rabbit oral papillomavirus]	2.00E-12
th	142	node_687189	ACOS8660	putative minor capsid protein L2 [Ovine papillomavirus 3]	2.00E-12
th	445	678701	AEI61392	early protein E1 [Human papillomavirus type 35]	3.00E-12
th	196	NODE_60630_length_166_cov_5.710844	YP_001931973	L1 [Ursus maritimus papillomavirus 1]	3.00E-12
th	380	681099	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	4.00E-12
th	398	NODE_107409_length_368_cov_2.750000	NP_040309	major capsid protein L1 [Human papillomavirus - 1]	4.00E-12
th	426	NODE_63573_length_396_cov_4.088384	ACZ58405	early protein E1 [Human papillomavirus type 115]	4.00E-12
th	337	678159	NP_040902	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	6.00E-12
th	137	node_716770	NP_040902	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	6.00E-12
th	135	node_247843	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	8.00E-12
th	673	678335	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-11
th	677	NODE_12671_length_647_cov_3.275116	AAX86626	E6 protein [Panthera leo persica papillomavirus type 1]	1.00E-11
th	296	NODE_16215_length_266_cov_4.187970	NP_040901	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	1.00E-11
th	133	NODE_211136_length_103_cov_5.514563	NP_597847	replication protein E1 [Ovine papillomavirus - 1]	1.00E-11
th	302	NODE_4095_length_272_cov_4.834559	ACI46051	E2 [Feline papillomavirus type 2]	1.00E-11
th	970	678356	YP_003668027	replication protein E1 [Human papillomavirus 121]	2.00E-11
th	787	689064	AAX86626	E6 protein [Panthera leo persica papillomavirus type 1]	2.00E-11
th	199	NODE_64206_length_169_cov_3.047337	YP_002635573	putative L2 [Equine papillomavirus 2]	2.00E-11
th	201	NODE_96770_length_171_cov_2.631579	ADQ85946	L2 [Human papillomavirus type 149]	2.00E-11
th	157	node_346373	NP_775307	E1 [Human papillomavirus type 92]	3.00E-11
th	409	NODE_57833_length_379_cov_7.638523	YP_003204680	L2 [Canine papillomavirus 6]	3.00E-11
th	469	684759	YP_003668027	replication protein E1 [Human papillomavirus 121]	4.00E-11
th	131	NODE_166916_length_101_cov_2.267327	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	6.00E-11
th	249	287029	NP_040309	major capsid protein L1 [Human papillomavirus - 1]	7.00E-11
th	732	680435	CAW42273	E2 protein [Human papillomavirus type 113]	9.00E-11
th	180	NODE_44030_length_150_cov_3.680000	ADH29829	regulatory protein E2 [Human papillomavirus type 124]	9.00E-11
th	431	14875	ADD14050	L2 protein [Human papillomavirus type 114]	1.00E-10
th	464	686048	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-10
th	149	node_448657	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-10
th	151	NODE_68226_length_121_cov_4.512397	NP_040902	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	1.00E-10
th	330	677216	ADH29829	regulatory protein E2 [Human papillomavirus type 124]	2.00E-10
th	162	NODE_158678_length_132_cov_2.068182	ADH29822	regulatory protein E2 [Human papillomavirus type 123]	2.00E-10
th	181	NODE_174500_length_151_cov_3.125828	YP_249600	E1 [Procyon lotor papillomavirus 1]	2.00E-10
th	176	NODE_38358_length_146_cov_7.554794	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	2.00E-10
th	124	node_428548	YP_002427692	helicase [Erinaceus europaeus papillomavirus]	2.00E-10



th	129	NODE_6993_length_99_cov_2.646465	NP_040309	major capsid protein L1 [Human papillomavirus - 1]	2.00E-10
th	143	node_378803	AAX86628	E1 protein [Panthera leo persica papillomavirus type 1]	4.00E-10
th	378	237317	AEM05820	L2 [Peromyscus papillomavirus type 1]	5.00E-10
th	126	node_254746	NP_056819	late protein [Canine oral papillomavirus]	5.00E-10
th	207	NODE_33702_length_194_cov_3.273196	YP_717912	L2 [Roussetus aegyptiacus papillomavirus type 1]	5.00E-10
th	168	NODE_16262_length_438_cov_3.052511	YP_003668027	replication protein E1 [Human papillomavirus 121]	8.00E-10
th	484	NODE_192009_length_154_cov_2.175325	YP_002004570	E2 [Capreolus capreolus papillomavirus 1]	1.00E-09
th	126	NODE_67524_length_96_cov_10.562500	NP_040294	hypothetical protein [Human papillomavirus type 41]	1.00E-09
th	134	NODE_105560_length_104_cov_2.048077	Q05137	late protein [Human papillomavirus type 15]	2.00E-09
th	122	NODE_21509_length_92_cov_3.065217	YP_249604	L1 [Procyon lotor papillomavirus 1]	2.00E-09
th	492	NODE_32088_length_462_cov_27.025974	YP_003204680	L2 [Canine papillomavirus 6]	2.00E-09
th	217	NODE_19887_length_187_cov_5.406417	YP_717913	L1 [Roussetus aegyptiacus papillomavirus type 1]	3.00E-09
th	174	NODE_24160_length_144_cov_2.888889	ACX32368	L1 [Human papillomavirus type 53]	3.00E-09
th	109	node_269347	BAL14429	hypothetical protein [Human papillomavirus type 126]	3.00E-09
th	355	NODE_125975_length_325_cov_3.907692	YP_003204677	E1 [Canine papillomavirus 6]	5.00E-09
th	125	NODE_243712_length_95_cov_2.305263	YP_224223	E1 [Erethizon dorsatum papillomavirus type 1]	5.00E-09
th	123	node_325765	NP_848025	L1 protein [Felis domesticus papillomavirus type 1]	5.00E-09
th	194	NODE_43068_length_164_cov_2.371951	YP_717909	E1 [Roussetus aegyptiacus papillomavirus type 1]	5.00E-09
th	101	node_98222	YP_717909	E1 [Roussetus aegyptiacus papillomavirus type 1]	5.00E-09
th	402	678719	AEP82743	E1 [Canine papillomavirus 10]	7.00E-09
th	287	679302	CCS55756	major capsid protein [Human papillomavirus type 11]	7.00E-09
th	142	NODE_65908_length_112_cov_7.285714	ABP99779	E2 [Human papillomavirus type 18]	7.00E-09
th	659	NODE_43244_length_629_cov_2.686805	YP_717908	E7 [Roussetus aegyptiacus papillomavirus type 1]	8.00E-09
th	215	NODE_114357_length_185_cov_5.783784	YP_003204677	E1 [Canine papillomavirus 6]	9.00E-09
th	177	NODE_132068_length_147_cov_4.129251	CAB96121	L1 [Cottontail rabbit papillomavirus]	9.00E-09
th	212	NODE_17127_length_182_cov_5.362638	YP_717907	E6 [Roussetus aegyptiacus papillomavirus type 1]	9.00E-09
th	158	NODE_21685_length_128_cov_2.875000	YP_004346964	E1 [Zalophus californianus papillomavirus 1]	9.00E-09
th	122	node_704239	NP_040294	hypothetical protein [Human papillomavirus type 41]	9.00E-09
th	549	686557	YP_717909	E1 [Roussetus aegyptiacus papillomavirus type 1]	1.00E-08
th	162	NODE_9309_length_132_cov_6.060606	NP_040309	major capsid protein L1 [Human papillomavirus - 1]	1.00E-08
th	474	680096	ACOS8660	putative minor capsid protein L2 [Ovine papillomavirus 3]	2.00E-08
th	331	NODE_16214_length_301_cov_3.039867	NP_040309	major capsid protein L1 [Human papillomavirus - 1]	2.00E-08
th	127	node_170924	YP_003204674	L1 [Canine papillomavirus 5]	2.00E-08
th	118	NODE_36249_length_88_cov_3.136364	YP_003104799	E1 [Francolinus leucoscepus papillomavirus 1]	2.00E-08
th	116	node_523898	YP_003622569	L1 [Bettongia penicillata papillomavirus 1]	2.00E-08
th	112	NODE_59889_length_82_cov_4.560976	YP_224227	major capsid protein [Erethizon dorsatum papillomavirus type 1]	2.00E-08
th	124	node_721731	AAG27046	major capsid protein L1 [Human papillomavirus]	2.00E-08
th	554	NODE_8695_length_119_cov_6.529412	YP_717909	E1 [Roussetus aegyptiacus papillomavirus type 1]	2.00E-08
th	171	NODE_140652_length_141_cov_4.460993	YP_004346968	L1 [Zalophus californianus papillomavirus 1]	3.00E-08
th	136	NODE_173337_length_106_cov_7.160378	BAL14429	hypothetical protein [Human papillomavirus type 126]	3.00E-08
th	252	NODE_222695_length_222_cov_5.360360	NP_040305	E6 protein [Human papillomavirus - 1]	3.00E-08
th	130	NODE_53260_length_100_cov_3.090000	YP_002117841	E1 [Tursiops truncatus papillomavirus 1]	3.00E-08
th	128	NODE_118201_length_98_cov_2.489796	ACX32353	E1 [Human papillomavirus type 42]	6.00E-08
th	129	NODE_205690_length_99_cov_4.383838	YP_717913	L1 [Roussetus aegyptiacus papillomavirus type 1]	6.00E-08
th	87	node_533385	YP_717909	E1 [Roussetus aegyptiacus papillomavirus type 1]	6.00E-08
th	170	NODE_116922_length_140_cov_3.185714	NP_694432	putative replication protein E1 [Bovine papillomavirus - 5]	7.00E-08
th	129	node_119099	ABP99779	E2 [Human papillomavirus type 18]	7.00E-08
th	169	NODE_190809_length_139_cov_6.863309	YP_003858577	E2 [Gammmapapillomavirus HPV127]	7.00E-08
th	124	NODE_262501_length_94_cov_2.234043	YP_717913	L1 [Roussetus aegyptiacus papillomavirus type 1]	7.00E-08
th	115	node_185604	ADH29821	replication protein E1 [Human papillomavirus type 123]	8.00E-08
th	116	node_260989	YP_717909	E1 [Roussetus aegyptiacus papillomavirus type 1]	8.00E-08
th	224	NODE_95666_length_194_cov_2.432990	YP_004111309	E6 [Human papillomavirus type 148]	1.00E-07
th	211	90374	NP_040896	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	2.00E-07
th	136	190457	ACC99401	E1 [Macaca fascicularis papillomavirus type 10]	2.00E-07
th	114	NODE_115069_length_84_cov_3.035714	NP_043449	minor capsid protein L2 [Human papillomavirus 61]	2.00E-07
th	115	NODE_150384_length_85_cov_5.541176	BAL14429	hypothetical protein [Human papillomavirus type 126]	2.00E-07
th	100	NODE_204893_length_70_cov_2.585714	P08341	Major capsid protein L1 [Bovine papillomavirus 3]	2.00E-07
th	115	NODE_24535_length_85_cov_2.070588	AAG37280	E1 protein [Human papillomavirus]	2.00E-07
th	213	NODE_55668_length_183_cov_12.868853	AEP82743	E1 [Canine papillomavirus 10]	2.00E-07
th	131	NODE_175355_length_101_cov_4.623763	YP_717913	L1 [Roussetus aegyptiacus papillomavirus type 1]	3.00E-07
th	105	NODE_184080_length_75_cov_2.293333	YP_249604	L1 [Procyon lotor papillomavirus 1]	3.00E-07
th	252	NODE_50441_length_222_cov_2.959460	YP_249604	L1 [Procyon lotor papillomavirus 1]	3.00E-07
th	95	node_169560	YP_224227	major capsid protein [Erethizon dorsatum papillomavirus type 1]	4.00E-07
th	139	node_320523	NP_040891	hypothetical protein HpV4gp3 [Human papillomavirus type 4]	4.00E-07
th	300	683653	YP_717912	L2 [Roussetus aegyptiacus papillomavirus type 1]	5.00E-07
th	324	683880	YP_717909	E1 [Roussetus aegyptiacus papillomavirus type 1]	5.00E-07
th	233	NODE_22335_length_203_cov_4.551724	NP_040897	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	5.00E-07
th	82	node_447737	YP_002235541	L2 [Sus scrofa papillomavirus type 1]	5.00E-07
th	638	NODE_76475_length_608_cov_2.883224	YP_717901	putative transforming protein [Canine papillomavirus 3]	5.00E-07
th	126	NODE_78139_length_96_cov_2.760417	AAO48993	major capsid protein [Human papillomavirus]	5.00E-07
th	186	NODE_105385_length_156_cov_2.160256	YP_249600	E1 [Procyon lotor papillomavirus 1]	6.00E-07
th	153	node_143041	YP_002756550	L2 protein [Human papillomavirus 112]	6.00E-07
th	100	node_851474	ACC99401	E1 [Macaca fascicularis papillomavirus type 10]	6.00E-07
th	96	NODE_251730_length_66_cov_2.954545	YP_717912	L2 [Roussetus aegyptiacus papillomavirus type 1]	8.00E-07
th	94	node_375732	ACA61505	L1 protein [Bovine papillomavirus BAA5-Japan]	8.00E-07
th	107	node_599874	CAW42263	E1 protein [Human papillomavirus type 105]	8.00E-07
th	157	NODE_102484_length_127_cov_4.811024	YP_001955935	minor capsid protein [Bandicoot papillomatosis carcinomatosis virus type 2]	1.00E-06
th	213	NODE_124846_length_183_cov_2.109290	YP_717912	L2 [Roussetus aegyptiacus papillomavirus type 1]	1.00E-06
th	97	node_1821054	AAL06737	putative replication protein E1 [Human papillomavirus type 86]	1.00E-06
th	176	NODE_33161_length_146_cov_8.130137	NP_057847	minor capsid protein L2 [Rabbit oral papillomavirus]	1.00E-06
th	226	NODE_40199_length_196_cov_3.831633	YP_717912	L2 [Roussetus aegyptiacus papillomavirus type 1]	1.00E-06
th	144	NODE_8848_length_114_cov_2.807018	YP_002756548	E2 protein [Human papillomavirus 112]	1.00E-06
th	149	NODE_107474_length_119_cov_5.697479	YP_249604	L1 [Procyon lotor papillomavirus 1]	2.00E-06
th	117	NODE_128806_length_87_cov_3.172414	NP_041784	early protein [Human papillomavirus type 26]	2.00E-06
th	201	NODE_163841_length_171_cov_7.210526	NP_056818	late protein [Canine oral papillomavirus]	2.00E-06
th	99	node_185442	YP_249604	L1 [Procyon lotor papillomavirus 1]	2.00E-06
th	84	node_799971	ABE73478	major capsid protein [Koala papillomavirus isolate KoAA1]	2.00E-06
th	90	node_961649	NP_040294	hypothetical protein [Human papillomavirus type 41]	2.00E-06
th	243	294016	NP_597740	regulatory protein E2 [Human papillomavirus - 1]	3.00E-06
th	381	NODE_173589_length_351_cov_4.606838	CAW42236	E7 protein [Human papillomavirus type 100]	3.00E-06
th	597	677170	YP_004857848	L1 [Canine papillomavirus 8]	4.00E-06
th	98	node_619379	ACX32356	L1 [Human papillomavirus type 42]	4.00E-06
th	120	NODE_159307_length_90_cov_2.555556	ABP99835	E2 [Human papillomavirus type 45]	5.00E-06
th	175	503652	YP_249604	L1 [Procyon lotor papillomavirus 1]	7.00E-06
th	166	NODE_108075_length_136_cov_3.014706	ADH29821	replication protein E1 [Human papillomavirus type 123]	7.00E-06
th	117	NODE_158075_length_87_cov_3.022989	AET11874	E1 protein [Human Papillomavirus type 153]	7.00E-06
th	131	NODE_89863_length_101_cov_3.079208	Q05134	early protein [Human papillomavirus type 12]	7.00E-06
th	222	NODE_184192_length_192_cov_4.260417	YP_717909	E1 [Roussetus aegyptiacus papillomavirus type 1]	9.00E-06
th	86	node_23064	YP_003204681	L1 [Canine papillomavirus 6]	9.00E-06
th	139	node_235354	YP_717912	L2 [Roussetus aegyptiacus papillomavirus type 1]	9.00E-06
th	83	node_650894	NP_042019	L1 protein [Mastomys natalensis papillomavirus]	9.00E-06
th	95	node_836842	ACC78262	L1 protein [Human papillomavirus FA75/K188-03]	9.00E-06

th	106	NODE_20730_length_76_cov_2.421053	YP_717907	E6 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-05	
th	92	NODE_40204_length_62_cov_2.548387	AC146050	E1 [Feline papillomavirus type 2]	1.00E-05	
th	130	NODE_40995_length_100_cov_3.320000	ABX56058	E1 [Macaca fascicularis papillomavirus type 7]	1.00E-05	
th	137	449318	P50801	putative L2 [Human papillomavirus type 70]	2.00E-05	
th	106	NODE_219834_length_76_cov_3.013158	AAZ03735	early protein 1 [Feline papillomavirus]	2.00E-05	
th	115	NODE_42035_length_85_cov_3.011765	YP_004169265	E1 [Human papillomavirus type 128]	2.00E-05	
th	143	NODE_63330_length_113_cov_3.256637	YP_003858578	L2 [Gammapapillomavirus HPV127]	2.00E-05	
th	94	NODE_93039_length_64_cov_2.718750	NP_042016	E1 protein [Mastomys natalensis papillomavirus]	2.00E-05	
th	171	211562	YP_717907	E6 [Rousettus aegyptiacus papillomavirus type 1]	3.00E-05	
th	225	678709	BAL14429	hypothetical protein [Human papillomavirus type 126]	3.00E-05	
th	91	node_1043427	ABS12699	E1 [Sus scrofa papillomavirus 1]	3.00E-05	
th	78	node_1342461	NP_057848	major capsid protein L1 [Rabbit oral papillomavirus]	3.00E-05	
th	84	node_147553	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	3.00E-05	
th	125	NODE_157993_length_95_cov_2.778947	ACZ58406	early protein E2 [Human papillomavirus type 115]	3.00E-05	
th	84	node_178717	AC146053	L1 [Feline papillomavirus type 2]	3.00E-05	
th	98	NODE_40555_length_68_cov_2.220588	ACOS8660	putative minor capsid protein L2 [Ovine papillomavirus 3]	3.00E-05	
th	134	NODE_79444_length_104_cov_2.788461	ADQ85968	E1 [Human papillomavirus type 133]	3.00E-05	
th	180	NODE_90170_length_150_cov_2.713333	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	3.00E-05	
th	337	678870	CAW42216	E1 protein [Human papillomavirus type 98]	4.00E-05	
th	91	node_889260	NP_043439	replication protein E1 [Human papillomavirus type 60]	4.00E-05	
th	147	293587	YP_004111311	E1 [Human papillomavirus type 148]	5.00E-05	
th	264	NODE_56837_length_234_cov_5.905983	CAW42216	E1 protein [Human papillomavirus type 98]	5.00E-05	
th	104	node_767795	YP_717912	L2 [Rousettus aegyptiacus papillomavirus type 1]	5.00E-05	
th	227	NODE_14101_length_197_cov_2.756345	YP_717912	L2 [Rousettus aegyptiacus papillomavirus type 1]	6.00E-05	
th	103	NODE_152206_length_73_cov_2.821918	P50813	major capsid protein L1 [Human papillomavirus type 37]	6.00E-05	
th	96	node_492731	YP_001595472	major structural protein [Bandicoot papillomatosis carcinomatosis virus type 1]	6.00E-05	
th	336	NODE_61141_length_306_cov_4.009804	AAX86617	L2 protein [Lynx rufus papillomavirus type 1]	6.00E-05	
th	114	NODE_64722_length_84_cov_4.452381	YP_717913	L1 [Rousettus aegyptiacus papillomavirus type 1]	6.00E-05	
th	115	NODE_87835_length_85_cov_7.635294	YP_717910	E2 [Rousettus aegyptiacus papillomavirus type 1]	6.00E-05	
th	96	node_1447855	ACT32130	replication protein [Macaca fascicularis papillomavirus type 11]	8.00E-05	
th	94	node_24220	NP_057848	major capsid protein L1 [Rabbit oral papillomavirus]	8.00E-05	
th	132	NODE_6577_length_102_cov_5.872549	YP_001648802	replication protein [Canine papillomavirus 4]	8.00E-05	
th	118	NODE_71543_length_88_cov_6.386364	NP_041865	late protein [Human papillomavirus type 9]	8.00E-05	
th	205	210785	NP_040901	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	1.00E-04	
th	122	231501	NP_040898	hypothetical protein HpV63gp1 [Human papillomavirus type 63]	1.00E-04	
th	689	680954	NP_848025	L1 protein [Felis domesticus papillomavirus type 1]	1.00E-04	
th	171	node_129210	YP_717912	L2 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-04	
th	84	node_1322338	NP_040294	hypothetical protein [Human papillomavirus type 41]	1.00E-04	
th	80	node_1394496	YP_717909	E1 [Rousettus aegyptiacus papillomavirus type 1]	1.00E-04	
th	82	node_1578434	AEE80936	major capsid protein [Bovine papillomavirus]	1.00E-04	
th	102	NODE_160210_length_72_cov_2.944444	CAF05790	protein L1a [Human papillomavirus type 43]	1.00E-04	
th	233	NODE_42252_length_203_cov_4.320197	NP_040309	major capsid protein L1 [Human papillomavirus - 1]	1.00E-04	
th	237	NODE_75805_length_207_cov_2.429952	NP_040293	hypothetical protein [Human papillomavirus type 41]	1.00E-04	
th	99	NODE_77212_length_69_cov_2.565217	ABA61877	L1 [Uncia uncia papillomavirus type 1]	1.00E-04	
th	132	node_917305	ACV30150	E1 [Human papillomavirus type 118]	1.00E-04	
th	89	node_968353	YP_002427696	major capsid protein [Erinaceus europaeus papillomavirus]	1.00E-04	
tblastx	th	99	node_1611495	AY904724	Panthera leo persica papillomavirus type 1	1.44E-06
	th	116	400948	HM011570	Gammapapillomavirus HPV127 isolate R3a	1.96E-06
	th	109	536165	FJ492744	Canine papillomavirus 6 isolate Zurich	1.96E-06
	th	92	node_1007267	DQ366842	Rousettus aegyptiacus papillomavirus type 1	1.98E-06
	th	90	node_512820	Y15174	Human papillomavirus type 76 E6	1.98E-06
	th	89	node_383341	AF227240	Rabbit oral papillomavirus	1.98E-06
	th	87	node_468755	AF377865	Feline papillomavirus putative transforming protein E6 (E6)	2.20E-06
	th	178	NODE_168705_length_148_cov_6.554054	DQ269468	Old World harvest mouse papillomavirus	2.63E-06
	th	109	node_289964	AF227240	Rabbit oral papillomavirus	2.70E-06
	th	103	2965	GU117620	Delphinus delphis papillomavirus	2.70E-06
	th	102	NODE_37986_length_72_cov_3.777778	EU918767	Human papillomavirus type 59 isolate LZod68-59	2.71E-06
	th	95	NODE_51876_length_65_cov_4.676923	FJ379293	European hedgehog papillomavirus	2.71E-06
	th	87	node_1401208	X56147	Human papillomavirus type 41	3.26E-06
	th	126	NODE_223905_length_96_cov_2.281250	AJ243287	Cottontail rabbit papillomavirus subtype b complete genome	3.31E-06
	th	401	687407	EF028290	Macaca fascicularis papillomavirus type 1	3.33E-06
	th	91	node_1010722	AF322245	Human papillomavirus isolate HPV-alb-10 E1 protein (E1) gene	3.73E-06
	th	89	node_566425	DQ366842	Rousettus aegyptiacus papillomavirus type 1	3.73E-06
	th	77	node_1249914	U06714	Human papillomavirus type 1a (3-3)	3.75E-06
	th	109	NODE_191146_length_79_cov_2.329114	X74480	Human papillomavirus type 49 genomic DNA	5.09E-06
	th	78	node_79073	X56147	Human papillomavirus type 41	5.10E-06
	th	77	node_452898	DQ366842	Rousettus aegyptiacus papillomavirus type 1	5.16E-06
	th	80	node_309207	X74467	Human papillomavirus type 14D genomic DNA	7.05E-06
	th	90	node_1153504	X70828	Human papillomavirus type 63 complete genome	7.07E-06
	th	87	node_1234296	JN171845	Human papillomavirus type 153	9.70E-06
	th	96	NODE_265889_length_66_cov_2.212121	EF558841	Macaca fascicularis papillomavirus type 4 Mac54	1.33E-05
	th	93	node_505006	AB211993	Human papillomavirus type 27b DNA	1.33E-05
	th	88	node_1189426	U31792	Human papillomavirus type 60	1.33E-05
	th	87	node_584441	EU277647	Bandicoot papillomatosis carcinomatosis virus type 2	1.33E-05
	th	85	node_743622	DQ366842	Rousettus aegyptiacus papillomavirus type 1	1.33E-05
	th	82	node_1343108	U31792	Human papillomavirus type 60	1.48E-05
	th	79	node_433683	JF755418	Peromyscus papillomavirus type 1 strain M-14 PmPV1	1.78E-05
	th	83	NODE_88206_length_53_cov_5.849057	AF531420	Human papillomavirus type 92	1.83E-05
	th	79	node_1105999	AF227240	Rabbit oral papillomavirus	1.83E-05
	th	78	node_1367577	FJ598133	Rhesus papillomavirus type 1b isolate Mac686	1.83E-05
	th	106	node_325264	DQ366842	Rousettus aegyptiacus papillomavirus type 1	2.42E-05
	th	107	NODE_35045_length_77_cov_2.103896	GU014531	Macaca fascicularis papillomavirus type 2 isolate Mac191	2.49E-05
	th	99	NODE_64493_length_69_cov_2.376812	EF591300	Rhesus papillomavirus type 1b isolate Mac170	2.50E-05
	th	85	node_1525241	AF498323	Equus caballus papillomavirus type 1	2.52E-05
	th	205	NODE_20147_length_175_cov_10.074286	EU796884	Feline papillomavirus type 2 isolate Main Coon 2007	2.65E-05
	th	101	NODE_131455_length_71_cov_4.028169	DQ366842	Rousettus aegyptiacus papillomavirus type 1	3.10E-05
	th	91	node_226236	HQ537712	Human papillomavirus type 35 isolate Z141	3.45E-05
	th	86	node_37541	GU117622	Phocoena phocoena papillomavirus 2	3.45E-05
	th	102	node_60278	U85660	Human papillomavirus RTRX7	3.73E-05
	th	90	node_1260588	AF531420	Human papillomavirus type 92	3.76E-05
	th	106	node_83447	FM212639	Human papillomavirus type 108	4.71E-05
	th	87	node_71555	DQ366842	Rousettus aegyptiacus papillomavirus type 1	4.75E-05
	th	99	168374	AF227240	Rabbit oral papillomavirus	6.49E-05
	th	85	node_1128374	DQ366842	Rousettus aegyptiacus papillomavirus type 1	6.52E-05
	th	90	node_690460	FJ492744	Canine papillomavirus 6 isolate Zurich	8.32E-05
	th	122	NODE_190089_length_92_cov_2.978261	HQ912791	Camelus dromedarius papillomavirus type 2	8.83E-05
	th	83	node_263496	AB646346	Human papillomavirus type 126 DNA	8.97E-05
	th	79	node_343578	DQ366842	Rousettus aegyptiacus papillomavirus type 1	8.98E-05
	th	79	node_688651	DQ664501	Mastomys coucha papillomavirus 2	8.98E-05
	th	79	node_1759238	DQ366842	Rousettus aegyptiacus papillomavirus type 1	9.65E-05
ur	87	node_468317	3696278	Rousettus aegyptiacus papillomavirus type 1	4.50E-08	
ur	79	node_565960	3696278	Rousettus aegyptiacus papillomavirus type 1	1.89E-05	

Parvoviridae	blastn	th	619	NODE_8618_length_589_cov_3.624788	AY189948	Blattella germanica densovirus	0
	blastx	th	1528	node176_9_9_893755	ADZ48579	nonstructural protein [Parvovirus partridge/PA147/ITA/2008]	1.00E-64
		th	357	683421	ACD68163	structural protein [Bombyx mori densovirus Zhenjiang]	2.00E-16
		th	249	NODE_64599_length_219_cov_5.684931	AET79240	capsid protein VP1 [Bovine parvovirus-1]	1.00E-15
		th	275	node7292_0_0_7345	AET79240	capsid protein VP1 [Bovine parvovirus-1]	1.00E-15
	tblastx	th	143	NODE_143257_length_113_cov_3.911505	HM362436	Parvovirus partridge/PA147/ITA/2008 nonstructural protein gene	1.48E-05
		th	130	NODE_22624_length_100_cov_2.730000	EU623082	Bombyx mori densovirus Zhenjiang segment VD1	4.67E-05
		th	135	NODE_140328_length_105_cov_10.619047	EU623082	Bombyx mori densovirus Zhenjiang segment VD1	6.39E-05
		ur	992	182867	1351680	Haemagogus equinus densovirus nonstructural protein 1	1.17E-31
		ur	874	185239	13650782	Parvovirus partridge/PA147/ITA/2008 nonstructural protein gene	4.76E-08
Picornaviridae	blastn	lu	109	NODE_420260_length_79_cov_1.468354	AF105342	Coxsackievirus B6 strain Schmitt	1.00E-04
		ur	593	NODE_7448_length_563_cov_38.733570	EU143282	Aichi virus isolate J-4404 polyprotein gene	9.00E-53
		ur	608	185867	EU143282	Aichi virus isolate J-4404 polyprotein gene	2.00E-44
		ur	1033	181630	EU143282	Aichi virus isolate J-4404 polyprotein gene	4.00E-44
	blastx	ur	295	NODE_689_length_265_cov_27.305660	AAV28657	polyprotein [Aichi virus]	1.00E-23
		ur	117	84431	ACX33797	polyprotein [Aichi virus]	3.00E-13
		ur	87	node_653853	AEO19724	polyprotein [Canine kobuvirus US-PC0082]	2.00E-05
Polymoviridae	blastx	th	102	NODE_103172_length_72_cov_2.722222	ADQ54207	VP1 [Gorilla gorilla gorilla polymavirus 1]	6.00E-08
Poxviridae	blastn	th	552	678625	U60315	Molluscum contagiosum virus subtype 1	3.00E-77
		th	787	node1036_0_0_38518	DQ356948	Crocodilepox virus	1.00E-28
		th	248	NODE_16995_length_218_cov_8.715596	DQ356948	Crocodilepox virus	1.00E-22
		th	84	node_863768	AY386265	Bovine papular stomatitis virus strain BV-AR02	3.00E-09
		th	85	node_106281	GQ329670	Pseudocowpox virus strain VR634	2.00E-05
	blastx	th	804	682392	NP_044038	MC087R [Molluscum contagiosum virus subtype 1]	5.00E-93
		th	704	682835	NP_044050	MC099R [Molluscum contagiosum virus subtype 1]	6.00E-78
		th	815	685744	NP_044041	MC090R [Molluscum contagiosum virus subtype 1]	4.00E-59
		th	395	683062	NP_044036	MC085L [Molluscum contagiosum virus subtype 1]	9.00E-49
		th	355	NODE_56749_length_325_cov_9.916924	NP_044028	MC077R [Molluscum contagiosum virus subtype 1]	7.00E-43
		th	321	node_19088	NP_044050	MC099R [Molluscum contagiosum virus subtype 1]	9.00E-38
		th	314	NODE_10643_length_284_cov_4.024648	NP_043982	MC031L [Molluscum contagiosum virus subtype 1]	2.00E-35
		th	494	686834	NP_043982	MC031L [Molluscum contagiosum virus subtype 1]	1.00E-34
		th	486	686305	NP_044048	MC097R [Molluscum contagiosum virus subtype 1]	9.00E-33
		th	378	NODE_25400_length_348_cov_9.629311	NP_044048	MC097R [Molluscum contagiosum virus subtype 1]	2.00E-32
		th	446	689118	NP_044028	MC077R [Molluscum contagiosum virus subtype 1]	4.00E-32
		th	278	NODE_78585_length_248_cov_3.326613	NP_955210	CNP187 RNA polymerase associated protein RAP94 [Canarypox virus]	4.00E-31
		th	794	686158	NP_043993	MC042L [Molluscum contagiosum virus subtype 1]	5.00E-25
		th	454	681320	NP_938288	32L [Yaba monkey tumor virus]	1.00E-23
		th	226	node_8323	NP_957991	ORF082 hypothetical protein [Bovine papular stomatitis virus]	3.00E-11
		th	342	680797	NP_957991	ORF082 hypothetical protein [Bovine papular stomatitis virus]	2.00E-10
		th	141	NODE_16716_length_111_cov_4.090090	NP_039091	Myristylated membrane protein [Fowlpox virus]	2.00E-10
		th	288	node6646_0_0_2081	NP_043983	MC032L [Molluscum contagiosum virus subtype 1]	2.00E-10
		th	148	NODE_156976_length_118_cov_5.957627	NP_043982	MC031L [Molluscum contagiosum virus subtype 1]	5.00E-10
		th	523	NODE_106014_length_493_cov_4.188641	AA857938	similar to variola C15L and vaccinia F11L [Molluscum contagiosum virus subtype 1]	2.00E-09
		th	166	NODE_38602_length_136_cov_2.161765	NP_044019	MC068R [Molluscum contagiosum virus subtype 1]	4.00E-09
		th	213	NODE_157912_length_183_cov_3.901639	NP_043968	MC017L [Molluscum contagiosum virus subtype 1]	1.00E-08
		th	86	node_881152	NP_044036	MC085L [Molluscum contagiosum virus subtype 1]	2.00E-07
		th	137	node_224400	NP_044021	MC070R [Molluscum contagiosum virus subtype 1]	6.00E-07
		th	137	NODE_122199_length_107_cov_2.644860	YP_004821443	NTPase [Yoka poxvirus]	1.00E-06
		th	233	NODE_40359_length_203_cov_12.221675	NP_043993	MC042L [Molluscum contagiosum virus subtype 1]	1.00E-06
		th	89	node_381449	NP_044016	MC065L [Molluscum contagiosum virus subtype 1]	3.00E-06
		th	434	682722	NP_044095	MC144R [Molluscum contagiosum virus subtype 1]	3.00E-05
		th	222	NODE_100720_length_192_cov_5.125000	ABD51466	O1L [Squirrel poxvirus]	6.00E-05
		th	109	node_463664	AB572327	L1R [Goatpox virus]	1.00E-04
	tblastx	th	130	NODE_66687_length_100_cov_4.320000	U60315	Molluscum contagiosum virus subtype 1	1.03E-06
		th	109	NODE_160310_length_79_cov_3.417722	U86906	Molluscum contagiosum virus subtype 1	1.96E-06
		th	80	node_1799129	AY689437	Deerpox virus W-1170-84	6.84E-06
Retroviridae	blastn	lu	194	1495715	Y18305	Jaagsiekte sheep retrovirus env gene	5.00E-21
		lu	80	node_828314	DQ199106	HIV-1 isolate TZB0540 from Tanzania envelope glycoprotein (env) gene	5.00E-06
		th	337	677686	AF033811	Moloney murine leukemia virus	4.00E-158
		ur	189	135317	AF033811	Moloney murine leukemia virus	5.00E-85
		ur	160	NODE_29710_length_130_cov_4.084615	AF033811	Moloney murine leukemia virus	6.00E-74
		ur	78	node_152817	V01185	Genome of murine sarcoma virus (strain 124)	6.00E-20
	blastx	lu	362	416903	AAC31805	pol polyprotein [Mus dunni endogenous virus]	2.00E-43
		lu	315	817779	AAD43256	polymerase [Simian retrovirus 2]	2.00E-29
		lu	382	node_216999	P04502	polyprotein [Kirsten murine sarcoma virus]	5.00E-27
		lu	354	NODE_194604_length_324_cov_3.500000	ABC26818	polymerase [Reticuloendotheliosis virus]	8.00E-27
		lu	295	1138514	ADK26403	protease [Ovine enzootic nasal tumor virus]	8.00E-23
		lu	318	NODE_299285_length_288_cov_2.649306	Q9TTC0	envelope protein [Phascolarctos cinereus]	8.00E-23
		lu	188	NODE_4256_length_158_cov_3.367089	ADK26414	pol protein [Ovine enzootic nasal tumor virus]	2.00E-22
		lu	211	479816	AD150272	gag-pro protein [Enzootic nasal tumour virus of goats]	2.00E-21
		lu	320	1521182	P51517	Pol polyprotein [Mason-Pfizer monkey virus]	3.00E-21
		lu	291	1441797	CAA33367	reverse transcriptase (476 AA) [Woolly monkey sarcoma virus]	3.00E-19
		lu	200	832845	YP_001994915	hypothetical mature IN protein [Friend murine leukemia virus]	6.00E-19
		lu	486	1522873	ABD46828	gag protein [Reticuloendotheliosis virus]	6.00E-19
		lu	212	NODE_413038_length_182_cov_3.230769	CCB84243	putative gag-pro-pol polyprotein [PreXMRV-2]	2.00E-18
		lu	229	NODE_349841_length_199_cov_3.291457	ADC52787	protease [Simian retrovirus 4]	4.00E-18
		lu	212	NODE_384288_length_182_cov_3.005495	AJ22867	pol [Simian endogenous retrovirus vero ATCC CCL-81]	4.00E-18
		lu	268	460775	ACJ65652	gag protein [Reticuloendotheliosis virus]	1.00E-17
		lu	264	NODE_107090_length_234_cov_4.756410	AAA66452	aspartyl protease [Squirrel monkey retrovirus-H]	1.00E-17
		lu	483	1526068	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	2.00E-17
		lu	181	NODE_607037_length_151_cov_6.874172	ACT75573	gag protein [Reticuloendotheliosis virus]	2.00E-17
		lu	182	NODE_487511_length_152_cov_2.572368	YP_002000606	Hypothetical mature RT protein [Gibbon ape leukemia virus]	3.00E-17
		lu	296	NODE_286709_length_266_cov_4.691730	CAA33367	reverse transcriptase (476 AA) [Woolly monkey sarcoma virus]	9.00E-17
		lu	235	NODE_301383_length_205_cov_2.092683	AAPO6677	pol protein [Human endogenous retrovirus HCML-ARV]	2.00E-16
		lu	234	node_203552	AEB80488	pol protein [Reticuloendotheliosis virus]	4.00E-16
		lu	160	node_1065491	NP_862831	gag protein [Enzootic nasal tumour virus of goats]	6.00E-16
		lu	179	834504	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	1.00E-15
		lu	168	NODE_24778_length_138_cov_1.181159	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	2.00E-15
		lu	235	1220525	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	1.00E-14
		lu	212	NODE_270731_length_182_cov_5.818681	ADJ50271	gag protein [Enzootic nasal tumour virus of goats]	1.00E-14
		lu	335	1526500	ACT75573	gag protein [Reticuloendotheliosis virus]	2.00E-14
		lu	184	node_1183839	AEB80488	pol protein [Reticuloendotheliosis virus]	7.00E-14
		lu	206	NODE_127551_length_176_cov_6.414773	AEB80488	pol protein [Reticuloendotheliosis virus]	9.00E-14
		lu	147	node_364767	AEB80488	pol protein [Reticuloendotheliosis virus]	2.00E-13
		lu	164	NODE_131664_length_134_cov_3.723881	ADK26418	pol protein [Ovine enzootic nasal tumor virus]	2.00E-12
		lu	139	node_710044	AEB80488	pol protein [Reticuloendotheliosis virus]	2.00E-12
		lu	277	1342510	ADJ50271	gag protein [Enzootic nasal tumour virus of goats]	5.00E-12
		lu	129	912597	BAA89659	gag-pol precursor polyprotein [Baboon endogenous virus strain M7]	6.00E-12
		lu	157	616263	ADK26415	envelope protein [Ovine enzootic nasal tumor virus]	1.00E-11
		lu	328	1492386	T29096	gag polyprotein - murine endogenous retrovirus ERV-L [Mus musculus]	1.00E-11
		lu	284	NODE_153910_length_254_cov_2.078740	AAPO6677	pol protein [Human endogenous retrovirus HCML-ARV]	1.00E-11

lu	140	node_1264642	ADW95139	envelope protein [Odocoileus hemionus endogenous retrovirus]	2.00E-11
lu	197	NODE_587150_length_167_cov_2.089820	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	2.00E-11
lu	128	357710	AAF60207	reverse transcriptase [Jaagsiekte sheep retrovirus]	3.00E-11
lu	141	NODE_51143_length_111_cov_2.234234	AAPO6677	pol protein [Human endogenous retrovirus HCML-ARV]	4.00E-11
lu	324	NODE_62009_length_294_cov_2.442177	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	4.00E-11
lu	212	1140650	ADIS0271	gag protein [Enzootic nasal tumour virus of goats]	5.00E-11
lu	143	NODE_57108_length_113_cov_3.159292	YP_002000607	Hypothetical mature IN protein [Gibbon ape leukemia virus]	5.00E-11
lu	176	759900	NP_955577	pol gene polyprotein [Feline leukemia virus]	7.00E-11
lu	125	1078700	AAZ57418	polymerase [Reticuloendotheliosis virus]	9.00E-11
lu	165	NODE_343848_length_135_cov_2.807407	YP_001994915	hypothetical mature IN protein [Friend murine leukemia virus]	9.00E-11
lu	157	1385582	BAI16549	Gag-Pol precursor polyprotein [RD114 retrovirus]	1.00E-10
lu	119	568642	AAZ57418	polymerase [Reticuloendotheliosis virus]	5.00E-10
lu	147	NODE_1052537_length_117_cov_1.487180	BAL04139	gag-pol precursor polyprotein [Feline leukemia virus]	8.00E-10
lu	150	NODE_148769_length_120_cov_1.700000	P26810	Pol polyprotein [Murine leukaemia virus]	8.00E-10
lu	227	792972	AAPO6677	pol protein [Human endogenous retrovirus HCML-ARV]	1.00E-09
lu	124	NODE_453122_length_94_cov_1.393617	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	1.00E-09
lu	141	339135	ABA28277	reverse transcriptase [Human endogenous retrovirus K]	2.00E-09
lu	225	879778	AEB80488	pol protein [Reticuloendotheliosis virus]	2.00E-09
lu	352	1523430	O92815	Gag-Pol polyprotein [Walleye dermal sarcoma virus]	2.00E-09
lu	306	1524495	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	2.00E-09
lu	118	NODE_191593_length_88_cov_1.363636	AAZ57418	polymerase [Reticuloendotheliosis virus]	2.00E-09
lu	156	node_228114	P04025	pol protein [Simian retrovirus 1]	2.00E-09
lu	107	NODE_23998_length_77_cov_2.948052	AEJ22867	pol [Simian endogenous retrovirus vero ATCC CCL-81]	2.00E-09
lu	127	236089	CAA33367	reverse transcriptase (476 AA) [Woolly monkey sarcoma virus]	3.00E-09
lu	94	NODE_1020633_length_64_cov_2.140625	ABL74442	pol protein [Porcine endogenous retrovirus C]	4.00E-09
lu	146	NODE_336692_length_116_cov_1.051724	ADI76909	pol protein [Simian retrovirus 1]	4.00E-09
lu	191	NODE_95106_length_161_cov_1.981367	AAPO6677	pol protein [Human endogenous retrovirus HCML-ARV]	4.00E-09
lu	113	NODE_1241866_length_83_cov_1.542169	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	5.00E-09
lu	129	node_655571	ADW95139	envelope protein [Odocoileus hemionus endogenous retrovirus]	5.00E-09
lu	117	NODE_686194_length_87_cov_2.735632	YP_241114	gag-pol fusion [Ovine enzootic nasal tumour virus]	5.00E-09
lu	152	NODE_186278_length_122_cov_1.598361	AAD45226	pol [Jaagsiekte sheep retrovirus]	7.00E-09
lu	114	NODE_811746_length_84_cov_4.238095	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	7.00E-09
lu	153	1374956	ACT75573	gag protein [Reticuloendotheliosis virus]	9.00E-09
lu	127	NODE_148848_length_97_cov_2.618557	YP_001994915	hypothetical mature IN protein [Friend murine leukemia virus]	9.00E-09
lu	168	NODE_296863_length_138_cov_3.413043	YP_223871	protease/polymerase [Reticuloendotheliosis virus]	9.00E-09
lu	121	node_306511	ACT75573	gag protein [Reticuloendotheliosis virus]	9.00E-09
lu	137	NODE_372668_length_107_cov_4.813084	NP_862833	gag-pro-pol fusion [Enzootic nasal tumour virus of goats]	9.00E-09
lu	114	NODE_622855_length_84_cov_1.071429	CCB84243	putative gag-pro-pol polyprotein [PreXMRV-2]	9.00E-09
lu	164	262922	AAC31806	envelope glycoprotein [Mus dunni endogenous virus]	1.00E-08
lu	681	1520580	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	1.00E-08
lu	122	NODE_408415_length_92_cov_5.010870	ADK26413	protease [Ovine enzootic nasal tumor virus]	1.00E-08
lu	219	696892	AAC31806	envelope glycoprotein [Mus dunni endogenous virus]	3.00E-08
lu	130	NODE_381867_length_100_cov_1.920000	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	3.00E-08
lu	117	NODE_899795_length_87_cov_1.425287	BAI16549	Gag-Pol precursor polyprotein [RD114 retrovirus]	3.00E-08
lu	104	NODE_668771_length_74_cov_3.864865	AAN77283	Gag-Pro-Pol protein [Python molurus endogenous retrovirus]	4.00E-08
lu	279	NODE_601487_length_249_cov_3.847389	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	5.00E-08
lu	217	677849	AAO46147	envelope glycoprotein [Recombinant M-MuLV/RaLV retrovirus]	6.00E-08
lu	111	NODE_401274_length_81_cov_2.962963	AEI84616	putative gag-pro-pol polyprotein [Xenotopic MuLV-related virus RKO]	8.00E-08
lu	108	1423692	NP_057933	Pr180 [Moloney murine leukemia virus]	1.00E-07
lu	169	NODE_131314_length_139_cov_1.215827	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	1.00E-07
lu	94	289264	AAC14144	polymerase [Human endogenous retrovirus K]	2.00E-07
lu	221	751102	ADIS0273	gag-pro-pol protein [Enzootic nasal tumour virus of goats]	2.00E-07
lu	144	1363926	AAPO6677	pol protein [Human endogenous retrovirus HCML-ARV]	2.00E-07
lu	152	NODE_208665_length_122_cov_2.918033	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	2.00E-07
lu	98	node_4285327	CAA28802	endonuclease (391 AA) [Murine leukemia virus]	2.00E-07
lu	137	NODE_572208_length_107_cov_1.102804	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	2.00E-07
lu	160	NODE_584781_length_130_cov_2.076923	BAI16549	Gag-Pol precursor polyprotein [RD114 retrovirus]	2.00E-07
lu	114	node_638415	BAA89659	gag-pol precursor polyprotein [Baboon endogenous virus strain M7]	2.00E-07
lu	110	644499	NP_057933	Pr180 [Moloney murine leukemia virus]	3.00E-07
lu	109	NODE_1133078_length_79_cov_1.164557	P04024	prt [Simian retrovirus 1]	4.00E-07
lu	177	NODE_67508_length_147_cov_9.986395	YP_002000602	hypothetical mature p30(CA) protein [Gibbon ape leukemia virus]	4.00E-07
lu	145	NODE_852969_length_115_cov_2.182609	AAA79247	putative reverse transcriptase [Murine leukemia virus]	4.00E-07
lu	198	1417344	AAPO6676	retroviral gag protein [Human endogenous retrovirus HCML-ARV]	5.00E-07
lu	87	node_3622574	AEL75190	envelope protein [XMRV]	5.00E-07
lu	109	NODE_670020_length_79_cov_1.164557	AEB80488	pol protein [Reticuloendotheliosis virus]	5.00E-07
lu	238	NODE_766392_length_208_cov_2.745192	AEB80488	pol protein [Reticuloendotheliosis virus]	5.00E-07
lu	89	node_2361008	NP_862831	gag protein [Enzootic nasal tumour virus of goats]	6.00E-07
lu	150	NODE_288162_length_120_cov_2.041667	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	6.00E-07
lu	173	NODE_396360_length_143_cov_3.090909	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	7.00E-07
lu	326	715115	O92815	Gag-Pol polyprotein [Walleye dermal sarcoma virus]	8.00E-07
lu	194	1358960	O92815	Gag-Pol polyprotein [Walleye dermal sarcoma virus]	8.00E-07
lu	90	node_1658436	AAZ57418	polymerase [Reticuloendotheliosis virus]	8.00E-07
lu	196	node_219178	ACI65652	gag protein [Reticuloendotheliosis virus]	8.00E-07
lu	192	NODE_384868_length_162_cov_4.277778	AAPO6676	retroviral gag protein [Human endogenous retrovirus HCML-ARV]	8.00E-07
lu	105	NODE_924166_length_75_cov_1.493333	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	8.00E-07
lu	171	NODE_965848_length_141_cov_7.063830	BAL04139	gag-pol precursor polyprotein [Feline leukemia virus]	8.00E-07
lu	78	816024	YP_241114	gag-pro-pol fusion [Ovine enzootic nasal tumour virus]	1.00E-06
lu	511	1521170	P31792	Pol polyprotein [Felis silvestris]	1.00E-06
lu	105	NODE_1027762_length_75_cov_1.053333	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	1.00E-06
lu	102	NODE_1512_length_72_cov_1.833333	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	1.00E-06
lu	88	node_1530837	YP_002000602	hypothetical mature p30(CA) protein [Gibbon ape leukemia virus]	1.00E-06
lu	168	NODE_205553_length_138_cov_2.050725	AAPO6677	pol protein [Human endogenous retrovirus HCML-ARV]	1.00E-06
lu	141	NODE_627234_length_111_cov_1.747748	YP_223871	protease/polymerase [Reticuloendotheliosis virus]	1.00E-06
lu	128	NODE_717348_length_98_cov_1.530612	YP_002000606	Hypothetical mature RT protein [Gibbon ape leukemia virus]	1.00E-06
lu	239	NODE_132366_length_209_cov_1.449761	ABC26818	polymerase [Reticuloendotheliosis virus]	2.00E-06
lu	131	NODE_266899_length_101_cov_3.504951	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	2.00E-06
lu	85	node_3035460	AAZ57418	polymerase [Reticuloendotheliosis virus]	2.00E-06
lu	288	NODE_382684_length_258_cov_2.019380	AEN03777	envelope polyprotein [Avian leukosis virus]	2.00E-06
lu	112	node_4056180	NP_862833	gag-pro-pol fusion [Enzootic nasal tumour virus of goats]	2.00E-06
lu	96	NODE_733678_length_66_cov_2.242424	ADU55774	pol protein [XMRV]	2.00E-06
lu	150	NODE_920784_length_120_cov_1.483333	AAPO6676	retroviral gag protein [Human endogenous retrovirus HCML-ARV]	2.00E-06
lu	143	NODE_953092_length_113_cov_1.318584	AAPO6677	pol protein [Human endogenous retrovirus HCML-ARV]	2.00E-06
lu	118	NODE_98427_length_88_cov_1.534091	NP_056891	RT-IN [Mason-Pfizer monkey virus]	2.00E-06
lu	256	177244	AEB80488	pol protein [Reticuloendotheliosis virus]	3.00E-06
lu	165	967454	AAPO6677	pol protein [Human endogenous retrovirus HCML-ARV]	3.00E-06
lu	160	NODE_13083_length_130_cov_3.453846	AEB80488	pol protein [Reticuloendotheliosis virus]	4.00E-06
lu	124	NODE_217873_length_94_cov_1.691489	AEB80488	pol protein [Reticuloendotheliosis virus]	4.00E-06
lu	95	node_2546677	AAD43256	polymerase [Simian retrovirus 2]	5.00E-06
lu	155	NODE_417704_length_125_cov_1.680000	CAA77116	env protein [Jaagsiekte sheep retrovirus]	5.00E-06
lu	117	NODE_500140_length_87_cov_2.597701	AEB80488	pol protein [Reticuloendotheliosis virus]	5.00E-06
lu	129	1420089	AAPO6678	env protein [Human endogenous retrovirus HCML-ARV]	7.00E-06
lu	103	NODE_271532_length_73_cov_5.013699	AEB80488	pol protein [Reticuloendotheliosis virus]	7.00E-06

lu	240	NODE_277552_length_210_cov_5.704762	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	7.00E-06
lu	163	NODE_730447_length_133_cov_3.466165	ACT75573	gag protein [Reticuloendotheliosis virus]	7.00E-06
lu	88	node_7700459	CCE45536	protease	7.00E-06
lu	150	NODE_1023660_length_120_cov_1.800000	O92815	Gag-Pol polyprotein [Walleye dermal sarcoma virus]	9.00E-06
lu	93	node_1869384	P04025	pol protein [Simian retrovirus 1]	9.00E-06
lu	82	node_4298158	AEB80488	pol protein [Reticuloendotheliosis virus]	9.00E-06
lu	107	NODE_475506_length_77_cov_1.506493	NP_041186	pol protein [Jaagsiekte sheep retrovirus]	9.00E-06
lu	201	NODE_906203_length_171_cov_3.011696	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	9.00E-06
lu	192	NODE_123290_length_162_cov_2.654321	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	1.00E-05
lu	108	NODE_131112_length_78_cov_17.307692	ADIS0273	gag-pro-pol protein [Enzootic nasal tumour virus of goats]	1.00E-05
lu	87	node_2099812	ADIS0271	gag protein [Enzootic nasal tumour virus of goats]	1.00E-05
lu	91	NODE_483902_length_61_cov_14.229508	AAL87856	pol protein [porcine endogenous retrovirus]	1.00E-05
lu	89	node_1195578	AEB80488	pol protein [Reticuloendotheliosis virus]	2.00E-05
lu	88	node_13828	AAZ57418	polymerase [Reticuloendotheliosis virus]	2.00E-05
lu	112	node_1990278	AEB80488	pol protein [Reticuloendotheliosis virus]	2.00E-05
lu	112	node_2098149	AEB80488	pol protein [Reticuloendotheliosis virus]	2.00E-05
lu	101	NODE_28236_length_71_cov_25.014084	AEB80488	pol protein [Reticuloendotheliosis virus]	2.00E-05
lu	106	node_300550	AEB80488	pol protein [Reticuloendotheliosis virus]	2.00E-05
lu	130	node_46244	ADK26415	envelope protein [Ovine enzootic nasal tumor virus]	2.00E-05
lu	78	node_5399875	ADG27337	truncated pol protein [Porcine endogenous retrovirus]	2.00E-05
lu	92	NODE_595509_length_62_cov_4.532258	ABD46828	gag protein [Reticuloendotheliosis virus]	2.00E-05
lu	88	node_6282472	NP_056891	RT-IN [Mason-Pfizer monkey virus]	2.00E-05
lu	99	node_7382599	AAA82052	polymerase [Human endogenous retrovirus K]	2.00E-05
lu	113	NODE_830736_length_83_cov_2.542169	YP_223871	protease/polymerase [Reticuloendotheliosis virus]	2.00E-05
lu	103	NODE_955656_length_73_cov_1.082192	ACT75573	gag protein [Reticuloendotheliosis virus]	2.00E-05
lu	113	NODE_974408_length_83_cov_2.795181	NP_955577	pol gene polyprotein [Feline leukemia virus]	2.00E-05
lu	144	116321	ABD46828	gag protein [Reticuloendotheliosis virus]	3.00E-05
lu	199	node_103609	AEB80488	pol protein [Reticuloendotheliosis virus]	3.00E-05
lu	106	node_1330103	AEB80488	pol protein [Reticuloendotheliosis virus]	3.00E-05
lu	99	NODE_223800_length_69_cov_3.144928	NP_041184	gag protein [Jaagsiekte sheep retrovirus]	3.00E-05
lu	130	NODE_378317_length_100_cov_1.440000	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	3.00E-05
lu	90	node_4708983	AEB80488	pol protein [Reticuloendotheliosis virus]	3.00E-05
lu	124	NODE_648967_length_94_cov_6.500000	ABD46828	gag protein [Reticuloendotheliosis virus]	3.00E-05
lu	185	NODE_735945_length_155_cov_1.987097	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	3.00E-05
lu	107	NODE_873631_length_77_cov_3.454545	ACJ65652	gag protein [Reticuloendotheliosis virus]	3.00E-05
lu	81	node_877007	NP_862831	gag protein [Enzootic nasal tumour virus of goats]	3.00E-05
lu	153	NODE_411_length_123_cov_1.845528	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	4.00E-05
lu	183	1381008	AAB66527	protease [multiple sclerosis associated retrovirus]	5.00E-05
lu	147	NODE_559371_length_117_cov_2.136752	AAP06676	retroviral gag protein [Human endogenous retrovirus HCML-ARV]	5.00E-05
lu	123	982707	AEB80488	pol protein [Reticuloendotheliosis virus]	6.00E-05
lu	80	996221	YP_001994915	hypothetical mature IN protein [Friend murine leukemia virus]	6.00E-05
lu	127	NODE_133838_length_97_cov_1.783505	AAB19067	pol protein [Human endogenous retrovirus]	6.00E-05
lu	91	node_2539337	ACJ65652	gag protein [Reticuloendotheliosis virus]	6.00E-05
lu	86	node_2930155	AEB80488	pol protein [Reticuloendotheliosis virus]	6.00E-05
lu	84	node_2987081	AAV68488	gag-pol polyprotein [Murine leukemia virus]	6.00E-05
lu	89	477355	ADK26415	envelope protein [Ovine enzootic nasal tumor virus]	8.00E-05
lu	186	782033	ADK26418	pol protein [Ovine enzootic nasal tumor virus]	8.00E-05
lu	87	node_1720000	AEB80488	pol protein [Reticuloendotheliosis virus]	8.00E-05
lu	114	node_459525	ACJ65652	gag protein [Reticuloendotheliosis virus]	8.00E-05
lu	81	node_486869	ADI76909	pol protein [Simian retrovirus 1]	8.00E-05
lu	92	NODE_565686_length_62_cov_1.758065	ADK26413	protease [Ovine enzootic nasal tumor virus]	8.00E-05
lu	109	node_660023	AAP73837	pol [Human betaretrovirus]	8.00E-05
lu	77	node_6748001	ADIS0271	gag protein [Enzootic nasal tumour virus of goats]	8.00E-05
lu	115	NODE_675240_length_85_cov_1.023529	AAP06678	env protein [Human endogenous retrovirus HCML-ARV]	8.00E-05
lu	117	NODE_784218_length_87_cov_1.517241	AAV68488	gag-pol polyprotein [Murine leukemia virus]	8.00E-05
lu	108	382337	AEB80488	pol protein [Reticuloendotheliosis virus]	1.00E-04
lu	117	586708	CGB84243	putative gag-pro-pol polyprotein [PreXMRV-2]	1.00E-04
lu	150	1109467	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	1.00E-04
lu	87	node_144585	NP_955577	pol gene polyprotein [Feline leukemia virus]	1.00E-04
lu	177	NODE_171730_length_147_cov_2.129252	ADIS0273	gag-pro-pol protein [Enzootic nasal tumour virus of goats]	1.00E-04
lu	78	node_2678689	ADIS0271	gag protein [Enzootic nasal tumour virus of goats]	1.00E-04
lu	97	NODE_344430_length_67_cov_1.134328	AAL69910	Pr180 gag-pro-pol polyprotein [Moloney murine leukemia virus]	1.00E-04
lu	142	NODE_353406_length_112_cov_2.428571	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	1.00E-04
lu	122	NODE_519909_length_92_cov_2.043478	AAP06676	retroviral gag protein [Human endogenous retrovirus HCML-ARV]	1.00E-04
lu	136	NODE_61012_length_106_cov_1.679245	BAA03767	gag pro pol polyprotein [Mouse mammary tumor virus]	1.00E-04
lu	105	NODE_993190_length_75_cov_1.013333	AAZ57418	polymerase [Reticuloendotheliosis virus]	1.00E-04
th	567	node2071_0_0_36607	AEB80488	pol protein [Reticuloendotheliosis virus]	3.00E-57
th	566	NODE_62045_length_536_cov_5.259328	ABC26818	polymerase [Reticuloendotheliosis virus]	4.00E-44
th	355	node4654_0_0_5734	YP_223871	protease/polymerase [Reticuloendotheliosis virus]	3.00E-38
th	326	155766	YP_223871	protease/polymerase [Reticuloendotheliosis virus]	1.00E-33
th	493	NODE_58317_length_463_cov_3.736501	AAZ57418	polymerase [Reticuloendotheliosis virus]	9.00E-33
th	333	683665	P04502	polyprotein [Kirsten murine sarcoma virus]	9.00E-25
th	219	NODE_105806_length_189_cov_9.666667	ADK26414	pol protein [Ovine enzootic nasal tumor virus]	9.00E-22
th	414	687427	ABD46828	gag protein [Reticuloendotheliosis virus]	4.00E-21
th	336	684846	Q9TTC1	pol protein [Phascocartus cinereus]	1.00E-19
th	186	NODE_35541_length_156_cov_3.147436	AAC14144	polymerase [Human endogenous retrovirus K]	3.00E-19
th	321	node_32819	AEB80488	pol protein [Reticuloendotheliosis virus]	1.00E-17
th	214	node12043_0_0_2188	YP_002000606	Hypothetical mature RT protein [Gibbon ape leukemia virus]	1.00E-17
th	209	NODE_41461_length_179_cov_3.653631	ADIS0274	env protein [Enzootic nasal tumour virus of goats]	1.00E-15
th	172	NODE_60501_length_142_cov_8.485915	BAJ16549	Gag-Pol precursor polyprotein [RD114 retrovirus]	9.00E-14
th	392	NODE_99628_length_362_cov_4.378453	ACT75573	gag protein [Reticuloendotheliosis virus]	3.00E-13
th	476	682082	ACT75573	gag protein [Reticuloendotheliosis virus]	1.00E-12
th	181	NODE_106124_length_151_cov_2.576159	AEB80488	pol protein [Reticuloendotheliosis virus]	2.00E-12
th	218	NODE_71713_length_188_cov_3.851064	ADK35878	pol protein [Porcine endogenous retrovirus C]	2.00E-12
th	215	NODE_187287_length_185_cov_2.875676	AAP06677	pol protein [Human endogenous retrovirus HCML-ARV]	4.00E-12
th	272	NODE_76523_length_242_cov_10.855371	ACT75573	gag protein [Reticuloendotheliosis virus]	1.00E-11
th	188	647454	ACT75573	gag protein [Reticuloendotheliosis virus]	4.00E-11
th	334	686537	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	4.00E-11
th	293	NODE_118662_length_263_cov_8.467681	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	6.00E-11
th	131	NODE_54696_length_101_cov_2.732673	Q9TTC2	gag protein [Phascocartus cinereus]	6.00E-11
th	241	136092	AAC98548	pol polypeptide [Murine leukemia virus]	2.00E-10
th	237	NODE_106666_length_207_cov_3.048309	AAP06676	retroviral gag protein [Human endogenous retrovirus HCML-ARV]	2.00E-10
th	146	NODE_63888_length_116_cov_2.551724	AAT76466	envelope precursor protein [Feline leukemia virus]	3.00E-10
th	185	NODE_70302_length_155_cov_6.625806	CAA61544	pol protein [Human T-lymphotropic virus 2]	6.00E-10
th	230	NODE_47479_length_200_cov_9.830000	AAP06677	pol protein [Human endogenous retrovirus HCML-ARV]	1.00E-09
th	129	NODE_22443_length_99_cov_2.383838	AAC31805	pol polyprotein [Mus dunni endogenous virus]	9.00E-09
th	310	node5845_0_0_1836	AAP06678	env protein [Human endogenous retrovirus HCML-ARV]	3.00E-08
th	264	680184	AAC31805	pol polyprotein [Mus dunni endogenous virus]	1.00E-07
th	335	682188	AEB80488	pol protein [Reticuloendotheliosis virus]	1.00E-07
th	159	node_518690	CAA71419	protease [Human endogenous retrovirus K]	2.00E-07
th	106	NODE_135385_length_76_cov_2.052632	AAN77282	Env [Python molurus endogenous retrovirus]	4.00E-07
th	108	6010	YP_002000602	hypothetical mature p30(CA) protein [Gibbon ape leukemia virus]	1.00E-06

th	483	679550	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	1.00E-06	
th	93	node_823387	AEB80488	pol protein [Reticuloendotheliosis virus]	2.00E-06	
th	385	NODE_76836_length_355_cov_3.890141	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	4.00E-06	
th	96	node_203331	AAN77283	Gag-Pro-Pol protein [Python molurus endogenous retrovirus]	5.00E-06	
th	88	node_1223602	AAV68488	gag-pol polyprotein [Murine leukemia virus]	9.00E-06	
th	263	NODE_42753_length_233_cov_4.287554	T29097	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	1.00E-05	
th	142	node_245156	AAC31805	pol polyprotein [Mus dunni endogenous virus]	2.00E-05	
th	164	NODE_107982_length_134_cov_2.417910	AAV68488	gag-pol polyprotein [Murine leukemia virus]	3.00E-05	
th	231	node_134795	AD150274	env protein [Enzootic nasal tumour virus of goats]	3.00E-05	
th	133	NODE_137242_length_103_cov_6.174757	ACT75573	gag protein [Reticuloendotheliosis virus]	4.00E-05	
th	100	node_443736	Q9TTC1	pol protein [Phascocarcus cinereus]	4.00E-05	
th	244	NODE_5280_length_214_cov_2.322430	ACT75573	gag protein [Reticuloendotheliosis virus]	4.00E-05	
th	87	233261	AEB80488	pol protein [Reticuloendotheliosis virus]	6.00E-05	
th	96	NODE_120071_length_66_cov_5.469697	AEB80488	pol protein [Reticuloendotheliosis virus]	1.00E-04	
ur	489	NODE_7253_length_459_cov_3.797386	BAA22064	gag-pol polyprotein [precursor protein] [Friend murine leukemia virus]	1.00E-41	
tblastx	lu	195	434459	HE608663	Bovine endogenous retrovirus beta 1 proviral partial pro gene	8.86E-13
	lu	117	NODE_1018611_length_87_cov_2.448276	GQ375848	Reticuloendotheliosis virus strain HLI071	1.30E-12
	lu	160	NODE_395439_length_130_cov_2.100000	AJ236117	Epicrionops marmoratus retrovirus partial pol and pro genes	1.51E-11
	lu	133	node_872588	JO2034	Baboon endogenous virus strain M7 proviral LTR	1.63E-09
	lu	158	NODE_180403_length_128_cov_2.812500	AJ225216	RV-Horse partial mRNA for polyprotein	3.36E-09
	lu	173	NODE_64674_length_143_cov_1.286713	AJ225216	RV-Horse partial mRNA for polyprotein	4.70E-09
	lu	277	857843	AJ506107	Xenopus laevis endogenous retrovirus Xen1 complete proviral genome	7.43E-09
	lu	84	node_3967875	AJ225225	RV-Rhinatreid caecilianII partial mRNA for polyprotein	2.32E-08
	lu	144	NODE_334672_length_114_cov_1.842105	AF356697	Porcine endogenous retrovirus class E clone P14.1	3.42E-08
	lu	107	NODE_1023359_length_77_cov_1.194805	X99924	Murine leukemia related virus genes encoding protease and reverse transcriptase	2.13E-07
	lu	86	node_892917	GQ415646	Reticuloendotheliosis virus strain HLR0901 from China	2.72E-06
	lu	137	NODE_395670_length_107_cov_2.046729	DQ387450	Reticuloendotheliosis virus strain APC-566	3.66E-06
	lu	131	NODE_755741_length_101_cov_1.306931	GU292318	Ovine enzootic nasal tumor virus isolate ENTV-1NA3	3.67E-06
	lu	91	node_4461532	GQ415646	Reticuloendotheliosis virus strain HLR0901 from China	3.73E-06
	lu	115	NODE_900312_length_85_cov_1.082353	GQ375848	Reticuloendotheliosis virus strain HLI071	5.08E-06
	lu	108	node_2952546	GQ415646	Reticuloendotheliosis virus strain HLR0901 from China	5.09E-06
	lu	124	node_857488	AY714522	Murine leukemia virus isolate M-RV_15A integrase (pol) and envelope glycoprotein (env)	9.56E-06
	lu	88	node_256857	AB187565	Murine leukemia virus Graffi GV-1.2 DNA	1.31E-05
	lu	112	NODE_910729_length_82_cov_1.121951	X99925	Murine leukemia related virus genes encoding protease and reverse transcriptase	1.68E-05
	lu	77	node_1030322	GQ415646	Reticuloendotheliosis virus strain HLR0901 from China	2.45E-05
	lu	102	NODE_473373_length_72_cov_3.833333	AY842951	Reticuloendotheliosis virus strain HA9901 from China	2.50E-05
	lu	103	NODE_884016_length_73_cov_5.095891	DQ387450	Reticuloendotheliosis virus strain APC-566	3.43E-05
	lu	129	NODE_84730_length_99_cov_1.444444	GQ415646	Reticuloendotheliosis virus strain HLR0901 from China	3.50E-05
	lu	110	NODE_328138_length_80_cov_1.150000	GQ415646	Reticuloendotheliosis virus strain HLR0901 from China	4.69E-05
	lu	89	node_2971580	GQ415646	Reticuloendotheliosis virus strain HLR0901 from China	4.74E-05
	lu	89	node_4676370	GQ415646	Reticuloendotheliosis virus strain HLR0901 from China	7.44E-05
	th	89	node_1492702	AJ225222	RV-Pit viper partial mRNA for polyprotein	2.72E-06
	th	84	node_1614906	GQ415646	Reticuloendotheliosis virus strain HLR0901 from China	1.83E-05

Samples	Abbreviation	Assembly algorithm	Notation
Throat swath		ABYSS	xxx
Lung	lu	Velvet	NODE_xxxx_length ...
Urine	ur	Metacortex	node_xxxx
		MetaIDBA	nodexxx_0_0_ ...