Virus	Subtype/ genotype/ serotype	Abbrev.	*N*	%human	Gene/product	*L*	Outgroup accession	Ref.
Astroviridae								
Astrovirus		AstV	350	100.00	capsid	348	AF056197	[1]
Bunyaviridae								
Hantaan virus		HTNV	109	7.06	glycoprotein G2	357	NC_005234	[2]
Oropouche virus		OROV	98	95.08	nucleocapsid (N)	693	AY383717	[3]
Rift valley fever virus		RVF	171	41.61	glycoprotein	718	DQ380191	[4]
Seoul virus		SeoV	234	6.33	nucleocapsid	415	JQ665905	[5]
Calciviridae								
Norwalk virus	II	NV-II	743	99.13	capsid protein (VP1)	1623	JX846924	[6]
Sapovirus	1	SapV-1	180	94.74	capsid protein	729	FJ844411	[7]
Sapovirus	2	SapV-2	55	95.24		729	AY646853	
Flaviviridae								
Dengue virus	1I	DEN-1I	1055	99.17	E protein (envelope)	1485	AB074760	[8]
Dengue virus	1II	DEN-1II	449	93.83		1485	AB074760	
Dengue virus	2	DEN-2	1022	95.08		1487	D00346	[9]
Dengue virus	3	DEN-3	1008	97.96		1500	L11423	[10]
Dengue virus	4	DEN-4	325	98.84		1485	U18433	[11]
GB virus C		GBVC	215	96.43	envelope protein (E2)	1006	AF070476	[12]
Hepatitis C virus	1a	HCV-1a	646	100.00	envelope glycoprotein (E1)	585	FJ207922	[13]
Hepatitis C virus	1b	HCV-1b	536	100.00	envelope glycoprotein (E1)	585	HQ113666	
Hepatitis C virus	2a	HCV-2a	77	100.00	Core/E1	1198	L38337	
Hepatitis C virus	2b	HCV-2b	91	100.00	NS5b	563	GQ285070	
Hepatitis C virus	3a	HCV-3a	493	100.00	NS5b	300	JQ303586	

Table S1: continued

Virus	Subtype/ genotype/ serotype	Abbrev.	*N*	%human	Gene/product	*L*	Outgroup accession	Ref.
Hepatitis C virus	5a	HCV-5a	246	100.00	envelope glycoprotein (E1)	581	DQ164595	
Hepatitis C virus	6a	HCV-6a	296	100.00	NS5b	922	D84262	
Japanese encephalitis virus	3	JEV	280	5.97	glycoprotein E2	1500	JF706269	[14]
Murray valley encephalitis virus		MVEV	37	2.70	envelope protein (E)	889	U70408	[15]
Tick-borne encephalitis virus	Europe	TBEV-1	124	2.27	envelope glycoprotein (E)	459	GU444281	[7]
Tick-borne encephalitis virus	Far-Eastern	TBEV-2	86	59.38		459	HM468183	
Tick-borne encephalitis virus	Siberian	TBEV-3	298	6.64		459	AY178833	
West Nile virus		WNV	636	10.40	polyprotein	10321	AY532665	[16]
Yellow fever virus		YFV	169	16.67	envelope protein (E)	670	AY640589	[17]
Orthomyxoviridae								
Influenza A virus	H1	IAV-H1	1662	100.00	hemagglutinin (HA)	1696	HM567544	[18]
Influenza A virus	H2	IAV-H2	114	100.00		1686	L11129	[19]
Influenza A virus	H3	IAV-H3	7759	100.00		1027	M16737	[20]
Influenza A virus	H5	IAV-H5	367	100.00		1704	GU052518	[21]
Influenza B virus		IBV	3076	73.69	hemagglutinin (HA)	1137	DQ792897	[22]
Influenza C virus		ICV	125	100.00	hemagglutinin-esterase-fusion protein	1968	M11637	[23]
Paramyxoviridae								
Human parainfluenza	1	hPIV-1	168	100.00	hemagglutinin-neuraminidase (HN)	1897	M31228	[24]
Human respiratory syncytial virus		RSV	300	100.00	attachment protein (G)	303	M17213	[25]
Measles virus		MeV	501	91.01	hemagglutinin (H)	1854	AY523581	[26]

Table S1: continued

Virus	Subtype/ genotype/ serotype	Abbrev.	*N*	%human	Gene/product	*L*	Outgroup accession	Ref.
Mumps virus		MUV	118	90.24	hemagglutinin-neuraminidase (HN)	1749	GU980052	[26]
Picornaviridae								
Coxsackievirus		CA24v	206	100.00	capsid protein (VP1)	915	D90457	[27]
Echovirus	30	E30	1078	99.46	capsid protein (VP1)	879	AJ131523	[28]
Encephalomyocarditis virus		EMCV	43	28.57	RNA-dependent RNA polymerase (3dpol)	312	L22089	[29]
Enterovirus	71	EV71	2861	100.00	capsid protein (VP1)	891	JN874547	[30]
Hepatitis A virus		HAV	251	97.10	capsid protein (VP1)	770	M20273	[31]
Human rhinovirus	A	RhiV-A	190	100.00	polyprotein	6958	NC_001490	[32]
Poliovirus	1,wild	PV-1W	543	100.00	major capsid protein (VP1)	906	AY184220	[33]
Reoviridae								
Rotavirus A	1	RotA-1	613	99.18	outer capsid glycoprotein (VP7)	1160	AB018697	[34]
Rotavirus A	12	RotA-12	113	96.77		1160	M58290	
Rotavirus A	2	RotA-2	283	100.00		1160	DQ172849	
Rotavirus A	3	RotA-3	103	100.00		1160	JF805004	
Rotavirus A	4	RotA-4	132	100.00		1160	GU377167	
Rotavirus A	9	RotA-9	282	100.00		1160	AF260959	
Rotavirus C		RotC	58	86.67	outer capsid protein (VP4)	715	M74218	[35]
Retroviridae								
Human immunodeficiency virus	A	HIV1-A	172	100.00	negative regulatory factor (nef)	618	CMU11421	[36]
Human immunodeficiency virus	B	HIV1-B	1466	100.00		594	BRRJ045	
Human immunodeficiency virus	C	HIV1-C	623	100.00		612	VI991	

Table S1: continued

Virus	Subtype/ genotype/ serotype	Abbrev.	*N*	%human	Gene/product	*L*	Outgroup accession	Ref.
Rhabdoviridae								
Rabies virus	dogs	RabV-1	1016	5.67	nucleoprotein	1349	AF351854	[7]
Rabies virus	bats	RabV-2	717	2.35		1349	EU086201	
Rabies virus	Asian	RabV-3	229	8.90		1349	AB571004	
Togaviridae								
Chikungunya virus		ChikV	90	98.57	genome	11851	AF079456	[37]
Crimean-Congo hemorrhagic fever virus		CCHF	189	90.43	nucleocapsid	456	AF434165	[38]
Rubella virus	1	RubV-1	409	99.26	glycoprotein E1	741	DQ975202	[7]
Rubella virus	2	RubV-2	117	95.51		741	EU518611	
unclassified								
Hepatitis D virus		HDV	370	100.00	hepatitis delta antigen (HDAg1)	557	AB037949	[7]
Hepatitis E virus		HEV	244	79.58	capsid protein	414	AY535004	[39]

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