

Table S1. List of Bunyamwera serogroup sequences used in the study.

Nº	Virus species (ICTV)	Virus species (in fact)	Virus name	Strain/iso late	Isolation region	Isolation source put genus and species names in italics	Isolation date	References
1	<i>Bunyamwera orthobunyavirus</i>	<i>Fort Sherman orthobunyavirus</i> (FSV)	Bunyamwera virus (BUNV)	SFAbCrE q238	Argentina	Horse	2013	KP063898- KP063900
2	<i>Bunyamwera orthobunyavirus</i>	<i>Fort Sherman orthobunyavirus</i> (FSV)	Bunyamwera virus (BUNV)	SFAbCrE q232	Argentina	Horse	2013	KP063895- KP063897
3	<i>Bunyamwera orthobunyavirus</i>	<i>Fort Sherman orthobunyavirus</i> (FSV)	Bunyamwera virus (BUNV)	SFCrEq 231	Argentina	Horse	2013	KP063892- KP063894
4	<i>Bunyamwera orthobunyavirus</i>	<i>Bunyamwera orthobunyavirus</i>	Bunyamwera virus (BUNV)	46A-122	Kenya	<i>Aedes ochraceus</i>	2006	MH484288- MH484290
5	<i>Bunyamwera orthobunyavirus</i>	<i>Bunyamwera orthobunyavirus</i>	Bunyamwera virus (BUNV)	unknown	unknown	unknown	unknown	NC001925- NC001927
6	<i>Bunyamwera orthobunyavirus</i>	<i>Bunyamwera orthobunyavirus</i>	Ngari virus (NRIV)	9800521	Somalia	Human	1998	JX857325- JX857327
7	<i>Bunyamwera orthobunyavirus</i>	<i>Bunyamwera orthobunyavirus</i>	Ngari virus (NRIV)	9800535	Kenya	Human	1998	JX857328- JX857330
8	<i>Bunyamwera orthobunyavirus</i>	<i>Bunyamwera orthobunyavirus</i>	Ngari virus (NRIV)	Adrar	Mauritania	Small ruminant	2010	KJ716848- KJ716850

9	<i>Bunyamwera orthobunyavirus</i>	<i>Bunyamwera orthobunyavirus</i>	Ngari virus (NRIV)	Dakar D28542/4e	Senegal	Human	1979	KC608152-KC608154
10	<i>Bunyamwera orthobunyavirus</i>	<i>Bunyamwera orthobunyavirus</i>	Ngari virus (NRIV)	SUD-HKV66	Sudan	Human	1988	JX857319-JX857321
11	<i>Bunyamwera orthobunyavirus</i>	<i>Bunyamwera orthobunyavirus</i>	Ngari virus (NRIV)	SUD-HKV141	Sudan	Human	1988	JX857322-JX857324
12	<i>Bunyamwera orthobunyavirus</i>	<i>Northway orthobunyavirus</i> *	Northway virus (NORV)	0234	USA	Aedes sp.	1971	MH484312-MH484314
13	<i>Bunyamwera orthobunyavirus</i>	<i>Shokwe orthobunyavirus</i> *	Shokwe virus (SHOV)	SAAr 4042	South Africa	Aedes cummingsii	1962	MH484330-MH484332
14	<i>Bunyamwera orthobunyavirus</i>	<i>Main Drain orthobunyavirus</i>	Lokern virus (LOKV)	A 10391	USA	unknown	unknown	MH484303-MH484305
15	<i>Bunyamwera orthobunyavirus</i>	<i>Main Drain orthobunyavirus</i>	Lokern virus (LOKV)	FMS 4332	USA	Culex tarsalis	1962	MG820264, MG828823, MG696865
16	<i>Bunyamwera orthobunyavirus</i>	<i>Main Drain orthobunyavirus</i>	Santa Rosa virus (SARV)	M2-1493	Mexico	Ochlerotatus angustivittatus	1972	MH484324-MH484326
17	<i>Main Drain orthobunyavirus</i>	<i>Main Drain orthobunyavirus</i>	Main Drain virus (MDV)	72V2567	USA	Aedes vexans	1972	MH484306-MH484308
18	<i>Main Drain orthobunyavirus</i>	<i>Main Drain orthobunyavirus</i>	Main Drain virus (MDV)	R4680	USA	Anopheles freeborni	1974	MH484309-MH484311
19	<i>Batai orthobunyavirus</i>	<i>Willare orthobunyavirus</i> *	Batai virus (BATV)	K10441	Australia	Culex annulirostris	1993	KU661980, KU661984, KU661991
20	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Batai virus (BATV)	BatNM/12	China	Cattle	2014	KJ187038-KJ187040

21	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Batai virus (BATV)	ZJ2014	China	Muscovy duck	2014	KU746869-KU746871
22	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Batai virus (BATV)	MM2222	Malaysia	<i>Culex gelidus</i>	1955	JX846595-JX846597
23	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Batai virus (BATV)	Chittoor/IG-20217	India	<i>Anopheles barbirostris</i>	1957	JX846598-JX846600
24	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Batai virus (BATV)	UgMP-6830	Uganda	<i>Aedes abnormalis</i>	unknown	JX846601-JX846603
25	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Batai virus (BATV)	CVOV 41.3	Austria	<i>Anopheles maculipennis</i>	2013	KM507321-KM507323
26	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Batai virus (BATV)	Italy-2009	Italy	Mosquito	2009	KC168046-KC168048
27	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Batai virus (BATV)	PV424	Germany	<i>Phoca vitulina</i>	2016	MH299972-MH299974
28	<i>Batai orthobunyavirus</i>	MS50 <i>orthobunyavirus</i>	Batai virus (BATV)	MS50	Malaysia	<i>Aedes curtipes</i>	1962	NC_043579-NC_043581
29	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Calovo virus (CVOV)	134	Czech Republic	<i>Anopheles maculipennis</i>	1963	KJ542624-KJ542626
30	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Calovo virus (CVOV)	JAn (MS3)	Croatia	<i>Anopheles maculipennis</i>	1969	KJ542627-KJ542629
31	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Calovo virus (CVOV)	138-pool 468	Yugoslavia	unknown	1983	KC608155-KC608157
32	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Calovo virus (CVOV)	8020	Slovakia	<i>Anopheles maculipennis</i>	1975	KJ542630-KJ542632

33	<i>Batai orthobunyavirus</i>	<i>Batai orthobunyavirus</i>	Calovo virus (CVOV)	8040	Slovakia	Anopheles maculipennis	1975	KJ542633-KJ542635
34	<i>Cache Valley orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Cache Valley virus (CVV)	6V633	USA	Culiseta inornata	1956	NC_043618-NC_043620
35	<i>Cache Valley orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Cache Valley virus (CVV)	W728-67	USA	Aedes communis	1967	KX100136-KX100138
36	<i>Cache Valley orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Cache Valley virus (CVV)	MPB1-1551	USA	Psorophora confinnis	1971	KX100142-KX100144
37	<i>Cache Valley orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Cache Valley virus (CVV)	W308-67	USA	Aedes trivittatus	1967	KX100139-KX100141
38	<i>Cache Valley orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Cache Valley virus (CVV)	CK-102	USA	Sheep	1980	KX100145-KX100147
39	<i>Cache Valley orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Cache Valley virus (CVV)	R103016b	USA	Human	2015	MK861965-MK861967
40	<i>Cache Valley orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Cache Valley virus (CVV)	WI-03BS7669	USA	Human	2003	KX100151-KX100153
41	<i>Cache Valley orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Cache Valley virus (CVV)	MI80-1-450	USA	Horse	1980	KX100148-KX100150
42	<i>Cache Valley orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Tlacotalpan virus (TLAV)	61D240	Mexico	Mansonella titillans	1961	MH484342-MH484344
43	<i>Maguari orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Playas virus (PLAV)	75V5938	Ecuador	Aedeomyia taeniorhynchus	1975	KX100124-KX100126
44	<i>Maguari orthobunyavirus</i>	<i>Maguari orthobunyavirus</i>	Playas virus (PLAV)	75V5758	Ecuador	Aedeomyia taeniorhynchus	1975	KX100127-KX100129

45	<i>Maguari orthobunyavirus</i>	<i>Cache Valley orthobunyavirus</i>	Maguari virus (MAGV)	CoAr 3363	Colombia	<i>Aedes scapularis</i>	1964	KX100106-KX100108
46	<i>Maguari orthobunyavirus</i>	<i>Maguari orthobunyavirus</i>	Maguari virus (MAGV)	OBS 6657	Peru	Human	1998	KX100115-KX100117
47	<i>Maguari orthobunyavirus</i>	<i>Maguari orthobunyavirus</i>	Maguari virus (MAGV)	BeAr 7272	Brazil	Mosquito	1957	KX100103-KX100105
48	<i>Maguari orthobunyavirus</i>	<i>Fort Sherman orthobunyavirus</i>	Maguari virus (MAGV)	AG83-1746	Argentina	<i>Psorophora varinervis</i>	1982	KX100112-KX100114
49	<i>Maguari orthobunyavirus</i>	<i>Fort Sherman orthobunyavirus</i>	Maguari virus (MAGV)	CbaAr 426	Argentina	<i>Aedes albifasciatus</i>	1965	KX100109-KX100111
50	<i>Fort Sherman orthobunyavirus</i>	<i>Fort Sherman orthobunyavirus</i>	Fort Sherman virus (FSV)	Barreiras	Brazil	Horse	2018	MN379833-MN379835
51	<i>Fort Sherman orthobunyavirus</i>	<i>Fort Sherman orthobunyavirus</i>	Fort Sherman virus (FSV)	86MSP18	Panama	Human	1985	MH484294-MH484296
52	<i>Tensaw orthobunyavirus</i>	<i>Tensaw orthobunyavirus</i>	Tensaw virus (TENV)	TSV-FL06	USA	Mosquito	2006	FJ943506, FJ943507, FJ943509
53	<i>Tensaw orthobunyavirus</i>	<i>Tensaw orthobunyavirus</i>	Tensaw virus (TENV)	TSV-FE3-66FB	USA	Mosquito	1963	NC_043546-NC_043548
54	<i>Tensaw orthobunyavirus</i>	<i>Tensaw orthobunyavirus</i>	Tensaw virus (TENV)	A9-171B	USA	<i>Anopheles crucians</i>	1960	MH484333-MH484335
55	<i>Potosi orthobunyavirus</i>	<i>Potosi orthobunyavirus</i>	Potosi virus (POTV)	89-3380	USA	<i>Aedes albopictus</i>	1989	MH484321-MH484323
56	<i>Potosi orthobunyavirus</i>	<i>Potosi orthobunyavirus</i>	Potosi virus (POTV)	IL94-1899	USA	<i>Aedes albopictus</i>	1994	NC_043645-NC_043647

57	<i>Anadyr orthobunyavirus</i>	<i>Anadyr orthobunyavirus</i>	Anadyr virus (ANADV)	LEIV-13395Mg	Russia	Aedes sp.	1986	NC_055199-NC_055201
58	<i>Birao orthobunyavirus</i>	<i>Birao orthobunyavirus</i>	Birao virus (BIRV)	DakArB 2198	CAR	Anopheles pharonsis	1969	MH484282-MH484284
59	<i>Bozo orthobunyavirus</i>	<i>Bozo orthobunyavirus</i>	Bozo virus (BOZOV)	DakArB 7343	CAR	Aedes opok	1975	NC_043653-NC_043655
60	<i>Ilesha orthobunyavirus</i>	<i>Ilesha orthobunyavirus</i>	Ilesha virus (ILEV)	ILESHA/8e	Senegal	Human	1972	KC608149-KC608151
61	<i>Ilesha orthobunyavirus</i>	<i>Ilesha orthobunyavirus</i>	Ilesha virus (ILEV)	R5964	Nigeria	Human	1957	NC_043585-NC_043587
62	<i>Ilesha orthobunyavirus</i>	<i>Ilesha orthobunyavirus</i>	Ilesha virus (ILEV)	KO/2	Western Nigeria	Human	1967	MT272830-MT272832
63	<i>Kairi orthobunyavirus</i>	<i>Kairi orthobunyavirus</i>	Kairi virus (KRIV)	BeAr8226	Brazil	Ochlerotatus scapularis	1957	NC_038738-NC_038740
64	<i>La Crosse orthobunyavirus</i>	<i>La Crosse orthobunyavirus</i>	La Crosse virus (LACV)	LACV/human/1960	USA	Human	1960	EF485030-EF485032