

Table S1. List of reference Rabies Viruses whose nucleocapsid coding gene sequences were used in the analyses.

Country	Virus Name	Host (Scientific name)^a	Year	Phylogenetic clade (subclade)^b	Accession number	Reference
Algeria	15006FRA	Dog (<i>Canis familiaris</i>)	2015	Cosmopolitan (AF-1a)	KX148197	[1]
Algeria	96018ALG	Human (<i>Homo sapiens</i>)	1996	Cosmopolitan (AF-1a)	EU853567	[2]
Algeria	96019ALG	Human (<i>Homo sapiens</i>)	1996	Cosmopolitan (AF-1a)	EU853568	[2]
Benin	8697BEN	Cat (<i>Felis catus</i>)	1986	Africa-2	U22485	[3]
Burkina Faso	139BF	Dog (<i>Canis familiaris</i>)	2007	Africa-2	EU478515	[2]
Burkina Faso	36BF	Dog (<i>Canis familiaris</i>)	2007	Africa-2	EU478502	[2]

Burkina Faso	28BF	Dog (<i>Canis familiaris</i>)	2007	Africa-2	EU478492	[2]
Burkina Faso	49BF	Dog (<i>Canis familiaris</i>)	2007	Africa-2	EU478518	[2]
Burkina Faso	9547HAV	Dog (<i>Canis familiaris</i>)	1995	Africa-2	EU853645	[2]
Cameroon	9236CAM	Dog (<i>Canis familiaris</i>)	1992	Cosmopolitan (AF-1a)	KT119782	[4]
Cameroon	11018CAM	Dog (<i>Canis familiaris</i>)	2009	Cosmopolitan (AF-1a)	KT119787	[4]
Cameroon	11019CAM	Dog (<i>Canis familiaris</i>)	2010	Cosmopolitan (AF-1a)	KT119788	[4]
Cameroon	11020CAM	Dog (<i>Canis familiaris</i>)	2009	Cosmopolitan (AF-1a)	KT119789	[4]
Cameroon	11027CAM	Dog (<i>Canis familiaris</i>)	2010	Cosmopolitan (AF-1a)	KT119793	[4]
Cameroon	11023CAM	Dog (<i>Canis familiaris</i>)	2011	Cosmopolitan (AF-1a)	KT119791	[4]
Cameroon	11025CAM	Dog (<i>Canis familiaris</i>)	2009	Cosmopolitan (AF-1a)	KT119792	[4]

Cameroon	11028CAM	Dog (<i>Canis familiaris</i>)	2011	Cosmopolitan (AF-1a)	KT119794	[4]
Cameroon	11029CAM	Dog (<i>Canis familiaris</i>)	2011	Cosmopolitan (AF-1a)	KT119795	[4]
Cameroon	88003CAM	Dog (<i>Canis familiaris</i>)	1987	Africa-2	KX148243	[1]
Cameroon	95002CAM	Dog (<i>Canis familiaris</i>)	1994	Africa-2	KX148242	[1]
Cameroon	9502CAM	Dog (<i>Canis familiaris</i>)	1994	Africa-2	KT119784	[4]
Cameroon	8802CAM	Dog (<i>Canis familiaris</i>)	1987	Africa-2	KT119774	[4]
Cameroon	8801CAM	Dog (<i>Canis familiaris</i>)	1987	Africa-2	U22634	[3]
Cameroon	8804CAM	Dog (<i>Canis familiaris</i>)	1988	Africa-2	U22635	[2]
Cameroon	8805CAM	Dog (<i>Canis familiaris</i>)	1988	Africa-2	U22636	[2]

Cameroon	86100CAM	Shrew	1974	Mokola Lyssavirus	EU293117	[5]
Central African Republic	08275RCA	Dog (<i>Canis familiaris</i>)	2008	Cosmopolitan (AF-1b)	KT119710	[4]
Central African Republic	09041RCA	Dog (<i>Canis familiaris</i>)	2009	Cosmopolitan (AF-1b)	KT119710	[4]
Central African Republic	09041RCA	Dog (<i>Canis familiaris</i>)	2009	Cosmopolitan (AF-1b)	KT119736	[4]
Central African Republic	07134RCA	Dog (<i>Canis familiaris</i>)	2003	Cosmopolitan (AF-1b)	KT119640	[4]
Central African Republic	07150RCA	Dog (<i>Canis familiaris</i>)	2004	Cosmopolitan (AF-1b)	KT119655	[4]
Central African Republic	07157RCA	Dog (<i>Canis familiaris</i>)	2006	Cosmopolitan (AF-1b)	KT119660	[4]
Central African Republic	07160RCA	Dog (<i>Canis familiaris</i>)	2007	Cosmopolitan (AF-1b)	KT119665	[4]
Central African Republic	7180RCA	Dog (<i>Canis familiaris</i>)	2007	Cosmopolitan (AF-1b)	KT119683	[4]

Central African Republic	07128RCA	Dog (<i>Canis familiaris</i>)	2003	Cosmopolitan (AF-1b)	EU853586	[2]
Central African Republic	7189RCA	Dog (<i>Canis familiaris</i>)	2007	Cosmopolitan (AF-1b)	EU853589	[2]
Central African Republic	07072RCA	Dog (<i>Canis familiaris</i>)	2000	Cosmopolitan (AF-1b)	EU853590	[2]
Central African Republic	CAR_11_001	Human (<i>Homo sapiens</i>)	2011	Africa-2	KF977826	[6]
Central African Republic	othercity_0715 1RCA_2004_7 08	Dog (<i>Canis familiaris</i>)	2004	Africa-2	KT119755	[4]
Central African Republic	07149RCA	Dog (<i>Canis familiaris</i>)	2004	Africa-2	EU853651	[2]
Chad	90021TCH	Dog (<i>Canis familiaris</i>)	1990	Africa-2	KX148240	[1]
Chad	96009TCH	Dog (<i>Canis familiaris</i>)	1996	Africa-2	KX148241	[1]
Chad	9218TCH	Dog (<i>Canis familiaris</i>)	1992	Africa-2	U22644	[3]

Chad	369	Dog (<i>Canis familiaris</i>)	2013	Africa-2	KU564995	Lepelletier <i>et al.</i> (unpublished)
Chad	359	Dog (<i>Canis familiaris</i>)	2012	Africa-2	KU564990	Lepelletier <i>et al.</i> (unpublished)
Chad	364	Dog (<i>Canis familiaris</i>)	2012	Africa-2	KU564992	Lepelletier <i>et al.</i> (unpublished)
Chad	367	Dog (<i>Canis familiaris</i>)	2013	Africa-2	KU564993	Lepelletier <i>et al.</i> (unpublished)
Chad	Chad2006_45	Dog (<i>Canis familiaris</i>)	2006	Africa-2	EU718783	[2]
Chad	Chad_36_193	Dog (<i>Canis familiaris</i>)	2005	Africa-2	EU718740	[2]
Chad	Chad_31_188	Dog (<i>Canis familiaris</i>)	2005	Africa-2	EU718743	[7]
Chad	Chad_42_199	Dog (<i>Canis familiaris</i>)	2006	Africa-2	EU718763	[2]
Egypt	86092EGY	Human (<i>Homo sapiens</i>)	1979	Cosmopolitan (AF-4)	KX148101	[1]

Equatorial Guinea	eg1	Human (<i>Homo sapiens</i>)	2008	Cosmopolitan (AF-1a)	FJ440104	[8]
Ethiopia	9531ETH	Cow	1987	Cosmopolitan (AF-1a)	EU853580	[2]
Ethiopia	8808ETH	Dog (<i>Canis familiaris</i>)	1988	Cosmopolitan (AF-1a)	EU853581	[2]
Ethiopia	RV2985	Ethiopian wolf (<i>Canis simensis</i>)	2014	Cosmopolitan (AF-1a)	KP723638	[9]
Gabon	8698GAB	Dog (<i>Canis familiaris</i>)	1986	Cosmopolitan (AF-1a)	KT119772	[4]
Gabon	95049GAB	Dog (<i>Canis familiaris</i>)	1995	Cosmopolitan (AF-1a)	KX148202	[1]
Guinea	90024GUI	Dog (<i>Canis familiaris</i>)	1990	Africa-2	KX148244	[1]
Guinea	9361GUI	Dog (<i>Canis familiaris</i>)	1993	Africa-2	EU853594	[2]
Israel	RV2324	Dog (<i>Canis familiaris</i>)	1950	Cosmopolitan (AF-4)	KF154998	[9]
Ivory Coast	07059IC	Dog (<i>Canis familiaris</i>)	2007	Africa-2	EU853615	[2]
Ivory Coast	9237IC	Dog (<i>Canis familiaris</i>)	1992	Africa-2	EU853618	[2]

Ivory Coast	9238IC	Dog (<i>Canis familiaris</i>)	1992	Africa-2	EU853619	[2]
Ivory Coast	8913IC	Dog (<i>Canis familiaris</i>)	1989	Africa-2	EU853621	[2]
Kenya	14015ITA	Human (<i>Homo sapiens</i>)	2014	Cosmopolitan (AF-1b)	KX148207	[1]
Mali	07232MAL	Dog (<i>Canis familiaris</i>)	2006	Africa-2	EU853605	[2]
Mali	07235MAL	Dog (<i>Canis familiaris</i>)	2006	Africa-2	EU853598	[2]
Mali	07217MAL	Dog (<i>Canis familiaris</i>)	2007	Africa-2	EU853600	[2]
Madagascar	04033MAD	Dog (<i>Canis familiaris</i>)	2004	Cosmopolitan (AF-1c)	KX148209	[1]
Madagascar	86046MAD	Dog (<i>Canis familiaris</i>)	1986	Cosmopolitan (AF-1c)	KX148211	[1]
Madagascar	98002MAD	Human (<i>Homo sapiens</i>)	1998	Cosmopolitan (AF-1c)	KX148210	[1]

Mauritania	9311MAU	Dog (<i>Canis familiaris</i>)	1993	Africa-2	EU853606	[2]
Mauritania	9133MAU	Ass	1991	Africa-2	EU853613	[2]
Mauritania	1923MAU/05	Dog (<i>Canis familiaris</i>)	2005	Africa-2	EU514577	[2]
Mauritania	2019MAU/06	Dog (<i>Canis familiaris</i>)	2006	Africa-2	EU514580	[2]
Mauritania	2049MAU/07	Goat	2007	Africa-2	EU514581	[2]
Mozambique	86031MOZ	Dog (<i>Canis familiaris</i>)	1986	Cosmopolitan (AF-1b)	KX148203	[1]
Morocco	9016MAR	Dog (<i>Canis familiaris</i>)	1990	Cosmopolitan (AF-1a)	EU853569	[2]
Morocco	9109MAR	Human (<i>Homo sapiens</i>)	1991	Cosmopolitan (AF-1a)	EU853570	[2]
Morocco	9108MAR	Human (<i>Homo sapiens</i>)	1991	Cosmopolitan (AF-1a)	EU853571	[2]
Morocco	8678MAR	Human (<i>Homo sapiens</i>)	1986	Cosmopolitan (AF-1a)	EU853572	[2]

Morocco	04031MAR	Dog (<i>Canis familiaris</i>)	2004	Cosmopolitan (AF-1a)	KX148195	[1]
Morocco	08342MAR	Dog (<i>Canis familiaris</i>)	2008	Cosmopolitan (AF-1a)	KX148193	[1]
Morocco	RV2627	Cow (<i>Bos taurus</i>)	2009	Cosmopolitan (AF-1b)	KF155001	[9]
Namibia	92030NAM	Dog (<i>Canis familiaris</i>)	1992	Cosmopolitan (AF-1b)	KX148204	[1]
Niger	9013NIG	Dog (<i>Canis familiaris</i>)	1990	Africa-2	EU853649	[2]
Niger	246NIG/07	Dog (<i>Canis familiaris</i>)	2007	Africa-2	EU514571	[2]
Niger	247NIG/07	Dog (<i>Canis familiaris</i>)	2007	Africa-2	EU514572	[2]
Niger	252NIG/07	Dog (<i>Canis familiaris</i>)	2007	Africa-2	EU514574	[2]
Niger	8718NIG	Dog (<i>Canis familiaris</i>)	1975	Africa-2	U22863	[3]
Nigeria	86003BRE	Dog (<i>Canis familiaris</i>)	1986	Cosmopolitan (AF-1a)	KX148201	[1]

Nigeria	RD128	Dog (<i>Canis familiaris</i>)	2006	Africa-2	EU038108	[2]
Nigeria	RD141HN	Dog (<i>Canis familiaris</i>)	2006	Africa-2	EU038109	[2]
Nigeria	D7305HN	Dog (<i>Canis familiaris</i>)	2005	Africa-2	EU038089	Dzikwi,A.A <i>et al.</i> , (unpublished)
Nigeria	RD41HN	Dog (<i>Canis familiaris</i>)	2006	Africa-2	EU038091	[2]
Nigeria	RD103	Dog (<i>Canis familiaris</i>)	2006	Africa-2	EU038100	[2]
Nigeria	9N/2005	Dog (<i>Canis familiaris</i>)	2005	Africa-2	KF022169	David D. (unpublished)
Nigeria	155N/2005	Dog (<i>Canis familiaris</i>)	2005	Africa-2	KF022185	David D. (unpublished)
Nigeria	177N/2005	Dog (<i>Canis familiaris</i>)	2005	Africa-2	KF022189	David D. (unpublished)
Nigeria	DRV-NG11	Dog (<i>Canis familiaris</i>)	2011	Africa-2	KC196743	[10]

Nigeria	252NigeriaMinna2012	Dog (<i>Canis familiaris</i>)	2012	Africa-2	KR080521	Velasco-Villa, A. <i>et al.</i> , (unpublished)
Rwanda	94289RWA	Dog (<i>Canis familiaris</i>)	1994	Cosmopolitan (AF1-b)	KX148205	[1]
Senegal	07207SEN	Human (<i>Homo sapiens</i>)	1997	Africa-2	EU853626	[2]
Senegal	07020SEN	Human (<i>Homo sapiens</i>)	2002	Africa-2	EU853627	[2]
Senegal	07021SEN	Human (<i>Homo sapiens</i>)	2004	Africa-2	EU853639	[2]
Senegal	07019SEN	Human (<i>Homo sapiens</i>)	1996	Africa-2	EU853640	[2]
Senegal	02025SEN	Human (<i>Homo sapiens</i>)	2001	Africa-2	EU853644	[2]
Senegal	07023SEN	Human (<i>Homo sapiens</i>)	2005	Africa-2	EU853592	[2]
Sierra Leone	07208SL	cat	1997	Africa-2	EU853595	[2]
South Africa	15001AFS	Yellow mongoose (<i>Cynictis penicillata</i>)	2013	Africa-3	KX148220	[1]

South Africa	956-06	Mongoose	2014	Africa-3	JQ692991	Ngoepe E. <i>et al.</i> , (unpublished)
Tanzania	RV853	spotted hyena	2000	Cosmopolitan (AF-1b)	DQ900566	[11]
Tanzania	A04-4981	small-spotted genet	2003	Cosmopolitan (AF-1b)	DQ900566	[11]

^a The scientific name of host species is provided, if available.

^b AF-1a, lineage “a” of the subclade Africa-1; AF-1b, lineage “b” of the subclade Africa-1, AF-1c, lineage “c” of the subclade Africa-1.

ND, no data available.

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