

**Table S1.** Adenoviruses identified in the present study in African humans and NHPs (sequences of  $\approx 250$  bps DNA polymerase gene) and their identity with GenBank reference sequences.

Code	Species	Origine	Best Blastn GenBank	% Identity	% Cover	Type
GC01	<i>Macaca sylvanus</i>	Algeria	FJ025922.1 SAdV38	98	100	E
GC08	<i>Macaca sylvanus</i>	Algeria	FJ025922.1 SAdV38	98	100	E
GC11	<i>Macaca sylvanus</i>	Algeria	FJ025922.1 SAdV38	100	100	E
RS04	<i>Macaca sylvanus</i>	Algeria	FJ025922.1 SAdV38	100	99	E
RS13	<i>Macaca sylvanus</i>	Algeria	FJ025922.1 SAdV38	100	99	E
TE01	<i>Macaca sylvanus</i>	Algeria	FJ025922.1 SAdV38	99.5	99	E
TE02	<i>Macaca sylvanus</i>	Algeria	FJ025922.1 SAdV38	100	99	E
G1	<i>Gorilla gorilla</i>	Rep. Congo	FJ025922.1 SAdV38	100	100	E
G11	<i>Gorilla gorilla</i>	Rep. Congo	KC702817.1 Gorilla b. graueri AdV 8 isolate GC45	97.6	100	C
CHS03	<i>Pan troglodytes</i>	Senegal	FJ025927.1 SAdV41.2	97.1	100	B
CHS11	<i>Pan troglodytes</i>	Senegal	FJ025922.1 SAdV38	98.7	100	E
CHS18	<i>Pan troglodytes</i>	Senegal	FJ025922.1 SAdV38	100	100	E
CHS20	<i>Pan troglodytes</i>	Senegal	FJ025922.1 SAdV38	99.5	100	E
CHS28	<i>Pan troglodytes</i>	Senegal	FJ025922.1 SAdV38	100	100	E
CHS43	<i>Pan troglodytes</i>	Senegal	FJ025922.1 SAdV38	100	100	E
CHS25	<i>Pan troglodytes</i>	Senegal	FJ025922.1 SAdV38	100	100	E
CHS27	<i>Pan troglodytes</i>	Senegal	FJ025922.1 SAdV38	100	100	E
CHS32	<i>Pan troglodytes</i>	Senegal	FJ025922.1 SAdV38	100	100	E
CHS44	<i>Pan troglodytes</i>	Senegal	FJ025922.1 SAdV38	100	100	E
Bab 1	<i>Papio hamadryas</i>	Djibouti	FJ025922.1 SAdV38	100	100	E
G06	<i>Gorilla gorilla</i>	Rep. Congo	FJ025903.1 SAdV42.1	99.5	100	C
G10	<i>Gorilla gorilla</i>	Rep. Congo	LC504573.1 HAdV-C K67-339	100	100	C
G02A	<i>Gorilla gorilla</i>	Rep. Congo	FJ025903.1 SAdV42.1	99.4	99	C
G04A	<i>Gorilla gorilla</i>	Rep. Congo	FJ025903.1 SAdV42.1	100	100	C
G07A	<i>Gorilla gorilla</i>	Rep. Congo	FJ025903.1 SAdV42.1	99.5	100	C
Ibou01A	<i>Human</i>	Rep. Congo	FJ025903.1 SAdV42.1	99.5	100	C

<b>Mbou25</b>	<i>Human</i>	Rep. Congo	FJ025903.1 SAdV42.1	99.5	100	C
<b>Mbou058</b>	<i>Human</i>	Rep. Congo	FJ025903.1 SAdV42.1	99.5	100	C
<b>Mbou024</b>	<i>Human</i>	Rep. Congo	KF268200.1 HAdV-D strain human/USA/UFL/2005[P-NEW/H45/F-NEW]	98	100	D