NP
VP35
VP40
GP
VP30
VP24
L
MARV CONSENSUS
1996 Gabon
1994 Gabon
1996 Gabon
2014 COD
1995 COD
1976 COD
2002 Gabon
2008 COD
2007 COD
2013 Guinea -> 2014 epidemic
EBOV
2012 COD
2007 Uganda
BDBV
1994 Côte d'Ivoire
TAFV
1989 PHP - > USA (monkeys)
RESTV
2011 Uganda
2000 Uganda
2012 Uganda
2012 Uganda
1979 Sudan
1976 Sudan
2004 Sudan
SUDV
2003 Spain (bats)
LLOV
2012 COD
2002 COD
2008 Uganda -> Netherlands
1967 Uganda -> Germany
1980 Kenya
2004 Angola
2007 Uganda
2000 COD
1975 Zimbabwe -> S. Africa
MARV
1987 Kenya
1999 COD
2007 Uganda
RAVV
0
400
800
1200
1600
2000
2400
2800
3200
4000
4400
4800
5200
5600
6000
regions with negative selection consistent accross filoviruses