

Alphavirus Primers

Alignment with reference sequences

PCR – Forward (α .nsP4.PF)

	430	440	450	460	470
gi 9629246 ref NC 001786.1 Barmah Forest virus complete genome	ATAAAR	TCGATG	ATCCAG	ATCCAG	TGGATCA
gi 21218484 ref NC 003899.1 Eastern equine encephalitis virus complete genome	ATAACA	ACGGATG	GTTCG	CTTCG	TCGCA
gi 685497472 ref NC 024887.1 Middelburg virus isolate ArB-8422 complete genome	ATCAGA	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 226823166 ref NC 012561.1 Highlands J virus complete genome	ACTGCA	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 9627007 ref NC 001512.1 Onyong-nyong virus complete genome	ACCAAG	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 9790297 ref NC 001544.1 Ross River virus complete genome	ACCAAG	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 16767845 ref NC 003215.1 Semliki forest virus complete genome	ACCAAG	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 9790313 ref NC 001547.1 Sindbis virus complete genome	ATCAGA	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 9626526 ref NC 001449.1 Venezuelan equine encephalitis virus complete genome	ACTGTA	ATCCAG	ATCCAG	CTTCG	TCGCA
gi 21238454 ref NC 003908.1 Western equine encephalomyelitis virus complete genome	ATTGTA	ATCCAG	ATCCAG	CTTCG	TCGCA
gi 27754751 ref NC 004162.2 Chikungunya virus complete genome	ACCAAR	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 21218488 ref NC 003900.1 Aura virus complete genome	ACCAAG	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 379765038 ref NC 016961.1 Whataroa virus complete genome	ACCAAG	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 269954645 ref NC 013528.1 Fort Morgan virus complete genome	ATGGAA	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 56692396 ref NC 006558.1 Getah virus complete genome	ACCAAG	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 19073904 ref NC 003417.1 Mayaro virus complete genome	ACCAAG	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 379765013 ref NC 016959.1 Ndumu virus complete genome	ACCAAG	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 379765069 ref NC 016962.1 Bebaru virus complete genome	ACCAAG	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 19352423 ref NC 003433.1 Sleeping disease virus complete genome	TCCGAG	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 21321727 ref NC 003930.1 Salmon pancreas disease virus complete genome	TCCGTA	ACGGATG	ATCCAG	CTTCG	TCGCA
gi 380034914 ref NC 016960.1 Southern elephant seal virus complete genome	ATCGCA	ACGGATG	ATCCAG	CTTCG	TCGCA
gi 406356611 ref NC 018615.1 Eilat virus isolate EO329 complete genome	ATCAGA	ACGGACG	ATCCAG	CTTCG	TCGCA
gi 596458719 ref NC 023812.1 Madariaga virus strain MADV/Cebus apella/BRA/BEAN5122/1956	ACACCA	ACGGATG	ATCCAG	CTTCG	TCGCA
alpha.nsP4.PF				TAYYD	GA

PCR – Reverse (α .nsP4.PR)

	230	240	250	2
gi 9629246 ref NC 001786.1 Barmah Forest virus complete genome	AGTGGCAAT	GGCTTAC	AGCTTGA	CAACAT
gi 21218484 ref NC 003899.1 Eastern equine encephalitis virus complete genome	AGTGGAAAG	GGCTTAC	AGCTTGA	CAACAT
gi 685497472 ref NC 024887.1 Middelburg virus isolate ArB-8422 complete genome	GCAGGCAGC	GGCTTAC	AGCTTGA	CAACAT
gi 226823166 ref NC 012561.1 Highlands J virus complete genome	AAAGGGAGT	GGCTTAC	AGCTTGA	CAACAT
gi 9627007 ref NC 001512.1 Onyong-nyong virus complete genome	GCTGCCAGG	GGCTTAC	AGCTTGA	CAACAT
gi 9790297 ref NC 001544.1 Ross River virus complete genome	GCGGTAAAG	GGCTTAC	AGCTTGA	CAACAT
gi 16767845 ref NC 003215.1 Semliki forest virus complete genome	GCTGTAGC	GGCTTAC	AGCTTGA	CAACAT
gi 9790313 ref NC 001547.1 Sindbis virus complete genome	GCTGGGAGC	GGCTTAC	AGCTTGA	CAACAT
gi 9626526 ref NC 001449.1 Venezuelan equine encephalitis virus complete genome	ACTGCCAGG	GGCTTAC	AGCTTGA	CAACAT
gi 21238454 ref NC 003908.1 Western equine encephalomyelitis virus complete genome	ACTGGCAAT	GGCTTAC	AGCTTGA	CAACAT
gi 27754751 ref NC 004162.2 Chikungunya virus complete genome	GCCCGTAGC	GGCTTAC	AGCTTGA	CAACAT
gi 21218488 ref NC 003900.1 Aura virus complete genome	ACTGGTAGG	GGCTTAC	AGCTTGA	CAACAT
gi 379765038 ref NC 016961.1 Whataroa virus complete genome	GCGGGTAGT	GGCTTAC	AGCTTGA	CAACAT
gi 269954645 ref NC 013528.1 Fort Morgan virus complete genome	GTTGGTAA	GGCTTAC	AGCTTGA	CAACAT
gi 56692396 ref NC 006558.1 Getah virus complete genome	GCCGGGAGC	GGCTTAC	AGCTTGA	CAACAT
gi 19073904 ref NC 003417.1 Mayaro virus complete genome	GCTGGTAGA	GGCTTAC	AGCTTGA	CAACAT
gi 379765013 ref NC 016959.1 Ndumu virus complete genome	GCAGGCAGT	GGCTTAC	AGCTTGA	CAACAT
gi 379765069 ref NC 016962.1 Bebaru virus complete genome	GCAGGCAGC	GGCTTAC	AGCTTGA	CAACAT
gi 19352423 ref NC 003433.1 Sleeping disease virus complete genome	TTCAAGGCT	GGCTTAC	AGCTTGA	CAACAT
gi 21321727 ref NC 003930.1 Salmon pancreas disease virus complete genome	TTCAAGGCT	GGCTTAC	AGCTTGA	CAACAT
gi 380034914 ref NC 016960.1 Southern elephant seal virus complete genome	GTGGGAAGT	GGCTTAC	AGCTTGA	CAACAT
gi 406356611 ref NC 018615.1 Eilat virus isolate EO329 complete genome	GCTGTAAGC	GGCTTAC	AGCTTGA	CAACAT
gi 596458719 ref NC 023812.1 Madariaga virus strain MADV/Cebus apella/BRA/BEAN5122/1956	AGGGCCAA	GGCTTAC	AGCTTGA	CAACAT
alpha.nsP4.PR				GGCTTAC

