



## HIV-2/SIVsmm Complete Genomes

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### **Alignment of HIV-2 and SIVsmm Complete Genomes**

The HIV-2/SIVsmm alignment contains a non-redundant set of all HIV-2, SIVsmm, and related species (SIVmne, SIVstm and SIVmac). Relative to HIV-1 few HIV-2 complete genomes have been determined, so this alignment contains all but a few duplicate sequences available in the database. This 2006/2007 compendium alignment has not changed since the previous compendium. For a full HIV-2/SIVsmm alignment, the 2006 web-alignment has some additional sequences.

As with HIV-1/SIVcpz, this alignment was generated by an iterative process between automated alignment using HMMER and manual editing using MASE, BioEdit and Se-Al. As in previous years, the alignment presented is not suggested to be an “optimal alignment” with the absolute minimum number of gaps and mismatches. It is a compromise between optimal alignment, readability, and an attempt to keep insertions and deletions from altering the protein reading frame presentation. Most gaps have been introduced in multiples of 3 bases to maintain open reading frames when translated directly from the alignment. The MAC239 sequence was chosen as master sequence in this set.

**Table 1: Table of HIV-2/SIV Sequences Included in the Complete Genome Alignments**

Name	Accession	Country	Author	Reference
H2A.GM.x.H2MCN13	AY509259	Gambia	Schmitz, C	<i>J Virol</i> <b>78</b> (4):2006–2016 (2004)
H2A.GM.x.H2MCR35	AY509260	Gambia	Schmitz, C	<i>J Virol</i> <b>78</b> (4):2006–2016 (2004)
H2A.CI.88.H2UC2	U38293	Cote d'ivoire	Barnett, SW	<i>Virology</i> <b>222</b> (1):257–61 (1996)
H2A.DE.x.H2BEN	M30502	Germany	Kirchhoff, F	<i>Virology</i> <b>177</b> (1):305–11 (1990)
H2A.DE.x.H2PEI2	U22047	Germany	Talbott, R	<i>PNAS U S A</i> <b>90</b> (9):4226–30 (1993)
H2A.GH.x.H2GH1	M30895	Ghana	Hasegawa, A	<i>ARHR</i> <b>5</b> (6):593–604 (1989)
H2A.GM.x.H2ISY	J04498	Gambia	Franchini, G	<i>PNAS U S A</i> <b>86</b> (7):2433–7 (1989)
H2A.GM.87.H2D194	J04542	Gambia	Kuehnel, H	<i>PNAS U S A</i> <b>86</b> (7):2383–7 (1989)
H2A.GW.x.H2ALI	AF082339	Guinea-bissau	Azevedo-Pereira, JM	Unpublished
H2A.GW.x.H2MDS	Z48731	Guinea-bissau	Becker, M	Unpublished
H2A.GW.86.H2FG	J03654	Guinea-bissau	Zagury, JF	<i>PNAS U S A</i> <b>85</b> (16):5941–5 (1988)
H2A.GW.87.H2CAM2CG	D00835	Guinea-bissau	Tristem, M	<i>J Gen Virol</i> <b>72</b> ( Pt 3):721–4 (1991)
H2A.SN.85.H2ROD	M15390	Senegal	Clavel, F	<i>Nature</i> <b>324</b> (6098):691–5 (1986)
H2AB.CI.90.H27312A	L36874	Cote d'ivoire	Gao, F	Unpublished
H2B.CI.x.H2EHO	U27200	Cote d'ivoire	Rey-Cuille, MA	<i>Virology</i> <b>202</b> (1):471–6 (1994)
H2B.CI.88.H2UC1	L07625	Cote d'ivoire	Barnett, SW	<i>J Virol</i> <b>67</b> (2):1006–14 (1993)
H2B.GH.86.H2D205	X61240	Ghana	Kreutz, R	<i>ARHR</i> <b>8</b> (9):1619–29 (1992)
H2B.JP.01.H2KR020	AB100245	Japan	Oka, S-I	<i>ARHR</i> <b>19</b> (11):1045–9 (2003)
H2G.CI.x.H2ABT96	AF208027	Cote d'ivoire	Brennan, CA	<i>ARHR</i> <b>13</b> (5):401–4 (1997)
H2U.FR.96.H212034	AY530889	France	Diamond, F	<i>ARHR</i> <b>20</b> (6):666–672 (2004)
MAC.US.x.239	M33262	U.S.A.	Kestler, H	<i>Science</i> <b>248</b> (4959):1109–12 (1990)
MAC.US.x.251_1A11	M76764	U.S.A.	Planelles, V	<i>ARHR</i> <b>7</b> (11):889–98 (1991)
MAC.US.x.251_32H_PJ5	D01065	U.S.A.	Rud, EW	<i>J Gen Virol</i> <b>75</b> ( Pt 3):529–43 (1994)
MAC.US.x.251_BK28	M19499	U.S.A.	Franchini, G	<i>Nature</i> <b>328</b> (6130):539–43 (1987)
MAC.US.x.MM142	M16403	U.S.A.	Chakrabarti, L	<i>Nature</i> <b>328</b> (6130):543–7 (1987)
MAC.US.x.SMM142B	BD131285	U.S.A.	Alizon, M	Patent: JP 2002030099-A 2 (Pasteur Inst.)
MAC.US.x.1937	AY611495	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.2065	AY611493	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.95112	AY588946	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.96114	AY588945	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.80035	AY611486	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.81035	AY599200	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.85013	AY611490	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.87082	AY600249	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.92050	AY603959	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.92077	AY599201	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.93057	AY611492	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.93062	AY607704	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.95058	AY611494	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.95086	AY607703	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.96016	AY607701	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.96020	AY611488	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.96072	AY611491	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.96081	AY597209	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.96093	AY611489	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.96123	AY611487	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.96135	AY607702	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.97009	AY599199	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.97074	AY599198	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.r80025	AY576480	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MAC.US.x.r90131	AY576481	U.S.A.	O'Connor, DH	<i>J Virol</i> <b>78</b> (24):14012–14022 (2004)
MNE.US.x.MNE027	U79412	U.S.A.	Kimata, JT	<i>J Virol</i> <b>72</b> (1):245–56 (1998)

MNE.US.82.MNE_8	M32741	U.S.A.	Kimata, JT	<i>J Virol</i> <b>72</b> (1):245–56 (1998)
SMM.SL.92.SL92B	AF334679	Sierra leone	Chen, Z	<i>J Virol</i> <b>70</b> (6):3617–27 (1996)
SMM.US.x.17EC1	AY033233	U.S.A.	Anderson, MG	<i>Virology</i> <b>195</b> (2):616–26 (1993)
SMM.US.x.17EFR	AY033146	U.S.A.	Flaherty, MT	<i>J Virol</i> <b>71</b> (8):5790–8 (1997)
SMM.US.x.F236_H4	X14307	U.S.A.	Hirsch, VM	<i>Nature</i> <b>339</b> (6223):389–92 (1989)
SMM.US.x.H9	M80194	U.S.A.	Courgnaud, V	<i>J Virol</i> <b>66</b> (1):414–9 (1992)
SMM.US.x.PBJ14_15	L03295	U.S.A.	Dewhurst, S	<i>Nature</i> <b>345</b> (6276):636–40 (1990)
SMM.US.x.PBJA	M31325	U.S.A.	Dewhurst, S	<i>Nature</i> <b>345</b> (6276):636–40 (1990)
SMM.US.x.PBJ_143	M80193	U.S.A.	Courgnaud, V	<i>J Virol</i> <b>66</b> (1):414–9 (1992)
SMM.US.x.PBJ_6P6	L09212	U.S.A.	Novembre, FJ	<i>J Virol</i> <b>67</b> (5):2466–74 (1993)
SMM.US.x.PGM53	AF077017	U.S.A.	Novembre, FJ	<i>J Virol</i> <b>72</b> (11):8841–51 (1998)
SMM.US.x.SME543	U72748	U.S.A.	Hirsch, VM	<i>J Virol</i> <b>71</b> (2):1608–20 (1997)
STM.US.x.STM	M83293	U.S.A.	Novembre, FJ	<i>Virology</i> <b>186</b> (2):783–7 (1992)

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126
C---G-T---AGG-G---C---A-G---A---T---TCAT---G---G-A-G---T-TAC
126
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H2A.GM.87.D1.94
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H2A.GM.MCN13
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H2A.GM.MCR35
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H2A.GW.-ALI
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H2A.GW.-MDS
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H2A.GW.86.FG
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H2A.GW.87.CAM2CG
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H2A.SN.85.ROD
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H2B.CI.-.EHO
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H2B.CI.88.UC1
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H2B.GH.86.D2.05
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H2U.FR.96.12034
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MAC.US.-.251.32H_FU5
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MAC.US.-.251.BK28
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MAC.US.-.SMM142B
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MAC.US.1937
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MAC.US.2065
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MAC.US.239.95112
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MAC.US.239.96114
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MAC.US.80035
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MAC.US.81035
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MAC.US.85013
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MAC.US.87082
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MAC.US.92050
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MAC.US.92077
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MAC.US.93057
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MAC.US.93062
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MAC.US.95086
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MAC.US.96016
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MAC.US.96081
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MAC.US.96093
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MAC.US.96135
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MAC.US.97009
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MAC.US.97074
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MAC.US.F90131
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SMM.SL.92.SL92B
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SMM.US.-.17BC1
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SMM.US.-.17BFR
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SMM.US.-.F236_H4
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SMM.US.-.H9
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SMM.US.-.PBJ14_15
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SMM.US.-.PBJA_
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SMM.US.-.PBJ_143
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SMM.US.-.PBJ_6P6
52
SMM.US.-.PGM53
126
SMM.US.-.SMB543
28
STM.US.-.STM

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HIV-2/SIV  
complete genomes

	TCF-1 alpha		
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MAC.US.-.239	GGTTCTAGCAATGGAAGTTTTCACACTCTGCGCTACACTTATGAGGCAATGTTAGATACCCAGAAAGAGTTTGGAGGCAAGTCCAGCCCTGTCAGAGGAGAGGTTTGAAGAAGGCTAACCC	.....GCA	365
H2A.CI.88.UC2	-ACA---TG---CG---A-CT-C-TG---TGAG---CA---C-TCAC-CT---GCA---A---A---ATG-AGGC---AA---G-AA	.....	365
H2A.DE.-.BEN	-ACAT---TG---C---CT-C-TG---T-AC-CA---C-TCAC-CTG---GCA---A---A---ATG-AGGC---AA---G-AA	.....	365
H2A.DE.-.PET2	AACAT---ATG---G---C---T-GG---TGAG---AC---T-T-AA-C---GTAT---A---A---ATG-AGGC---AA---G-AA	.....	357
H2A.GH.-.GHI	.....	.....	0
H2A.GM.-.ISY	.....	.....	0
H2A.GM.87.DI94	.....	.....	0
H2A.GM.MCN13	.....	.....	0
H2A.GM.MCR35	.....	.....	0
H2A.GW.-.ALI	-ACAT---TT---GA---C---T-AG---TC-TGA---CA-A-C-T-A-CT-C---G-A---GTA---C---A-T---TGG-AGGC---A---G-AA	.....	365
H2A.GW.-.MDS	.....	.....	0
H2A.GW.86.FG	-ACA---G-TC---CT-C-TG---CTT-AG---C-T-AC-C---A---GCA---AC---A-T---TGG-AGGC---AA---G-AA	.....	377
H2A.GW.87.CAM2CG	.....	.....	0
H2A.SN.85.ROD	.....	.....	0
H2AB.CI.-.7312A	A.C---T-TC---C---T-CCTC---A---TT-AG---C-TCAC-C---G-T---GTATC---AT-AC---A-G---ATGG-AGGCT---A---AA	.....	367
H2B.CI.-.EHO	-ACC-T-TC---C---CT-CCTC---A---A-TGAC---T---C-TCAC-C---G-T---G---GTATC---AA-C---A---ATGG-AGGCT---AA---G-AA	.....	365
H2B.CI.88.UC1	-ACC-T-C---CG---C---CCTC---AC-TGAC---TA---C-TCAC-C---G-T---G---GTATC---AT-AC---A-G---ATGG-AGGCT---A---AA	.....	365
H2B.GH.86.D205	-AC---TATC---C---T-CCTC---C---A-TGA---T---T-TCAA---G-TT---C-GTA-C---G-AC---G-AC---G---TGG-AGGCT---A---AA	.....	368
H2B.JF.O1.KR020	.....	.....	0
H2G.CI.-.ABT96	.....	.....	0
H2U.FR.96.12034	.....	.....	0
MAC.US.-.251.1A11	.....	.....	365
MAC.US.-.251.32H.PU5	.....	.....	365
MAC.US.-.251.BK28	.....	.....	364
MAC.US.-.MML42	.....	.....	0
MAC.US.-.SMM142B	.....	.....	0
MAC.US.1937	.....	.....	0
MAC.US.2065	.....	.....	0
MAC.US.239.95112	.....	.....	0
MAC.US.239.96114	.....	.....	0
MAC.US.80035	.....	.....	0
MAC.US.81035	.....	.....	0
MAC.US.85013	.....	.....	0
MAC.US.87082	.....	.....	0
MAC.US.92050	.....	.....	0
MAC.US.92077	.....	.....	0
MAC.US.93057	.....	.....	0
MAC.US.93062	.....	.....	0
MAC.US.95058	.....	.....	0
MAC.US.95086	.....	.....	0
MAC.US.96016	.....	.....	0
MAC.US.96020	.....	.....	0
MAC.US.96072	.....	.....	0
MAC.US.96081	.....	.....	0
MAC.US.96093	.....	.....	0
MAC.US.96123	.....	.....	0
MAC.US.96135	.....	.....	0
MAC.US.97009	.....	.....	0
MAC.US.97074	.....	.....	0
MAC.US.r80025	.....	.....	0
MAC.US.r90131	.....	.....	0
MNE.US.-.MNE027	.....	.....	0
MNE.US.82.MNE_8	.....	.....	0
SMM.SL.92.SL92B	.....	.....	0
SMM.US.-.17BC1	.....	.....	365
SMM.US.-.17BFR	.....	.....	365
SMM.US.-.F236_H4	.....	.....	365
SMM.US.-.H9	.....	.....	0
SMM.US.-.PBJ14_15	.....	.....	120
SMM.US.-.PBJA_15	.....	.....	120
SMM.US.-.PBJ_143	.....	.....	0
SMM.US.-.PBJ_16P6	.....	.....	291
SMM.US.-.PGM53	.....	.....	291
SMM.US.-.SMB543	.....	.....	365
STM.US.-.STM	.....	.....	38













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MAC.US.-.239	GAGTGAAGGCAGTAAGGGCGGCGAGGAA	992
H2A.CI.88.UC2	...GACGGCGTGAGGAGC.GGGAGGAGGAGGCGCTCC.GGTTGCA...	1033
H2A.DE.-.BEN	...T-A...G-A...AAA-G...T...T-A...G-A...G-A...A	1033
H2A.DE.-.PET2	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	1000
H2A.GH.-.GH1	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	473
H2A.GM.-.ISY	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	477
H2A.GM.87.D1.94	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	477
H2A.GM.MCN13	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	477
H2A.GM.MCR35	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	477
H2A.GM.-.ALI	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	1028
H2A.GM.-.MDS	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	477
H2A.GM.86.FG	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	477
H2A.GM.87.CAM2CG	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	1042
H2A.SN.85.ROD	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	477
H2AB.CI.-.7312A	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	1033
H2B.CI.-.EHO	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	1027
H2B.CI.88.UC1	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	1031
H2B.GH.86.D2.05	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	1026
H2B.JP.01.KR020	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	172
H2G.CI.-.ABT96	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	398
H2J.FR.96.12034	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	518
MAC.US.-.251.1A11	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	991
MAC.US.-.251.32H.PJ5	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	992
MAC.US.-.251.BK28	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	979
MAC.US.-.MM142	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	490
MAC.US.-.SMM142B	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	490
MAC.US.1937	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	98
MAC.US.2065	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	98
MAC.US.239.95112	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	88
MAC.US.239.96114	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	94
MAC.US.80035	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	98
MAC.US.81035	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	99
MAC.US.85013	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	32
MAC.US.87082	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	69
MAC.US.92050	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	92
MAC.US.92077	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	99
MAC.US.93057	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	97
MAC.US.93062	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	84
MAC.US.95058	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	86
MAC.US.95086	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	0
MAC.US.96016	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	99
MAC.US.96020	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	91
MAC.US.96072	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	103
MAC.US.96081	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	101
MAC.US.96093	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	99
MAC.US.96123	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	0
MAC.US.96135	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	84
MAC.US.97009	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	0
MAC.US.97074	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	0
MAC.US.80025	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	98
MAC.US.F90131	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	472
MNE.US.-.MNE027	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	472
MNE.US.82.MNE_8	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	472
SMM.SL.92.SL92B	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	458
SMM.US.-.17EC1	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	992
SMM.US.-.17EFR	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	992
SMM.US.-.F236.H4	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	988
SMM.US.-.H9	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	474
SMM.US.-.PBJ14_15	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	767
SMM.US.-.PBJ_143	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	474
SMM.US.-.PBJ_6P6	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	959
SMM.US.-.PGM53	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	917
SMM.US.-.SME543	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	990
STM.US.-.STM	...T-A...G-A...A-A-G...T...T-A...G-A...G-A...A	648

Strain	Genomic Region	Sequence	Position
MAC.US.-.239	Gag p17	CAACACAAAA.AG.....AAATAGCTGCTTT.TTATCCAGGAGGGGTAATAAGATAGAGTGGGAG..ATGGGCTGAGAAACTCGCTTCTCAGGGAAGAAACAGCATGATTAAGAAAAA	1107
H2A.CI.88.UC2		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	1157
H2A.DE.-.BEN		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	1157
H2A.DE.-.PE12		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	1125
H2A.GH.-.GHI		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	598
H2A.GH.-.ISV		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	601
H2A.GH.87.D194		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	601
H2A.GH.MCN13		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	602
H2A.GH.MCR35		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	602
H2A.GW.-.ALI		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	1150
H2A.GW.-.MDS		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	601
H2A.GW.86.FG		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	601
H2A.GW.87.CAM2CG		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	1166
H2A.SN.85.ROD		-CTACACC...-ACTGTAGCC.AG--AG--TGT-A.-CC-A-TTTTT.-ACAGG--GA-G-TT	600
H2AB.CI.-.7312A		-TC-A.-TTTT.T.....AACT.G.C.-AC.-T.A.-G.-A-AGTAGG-CAATA	1139
H2B.CI.-.EHO		-TC-A.-TTTT.GC.....AA-TCG-C.-AC.-T.-C.A.-GTACG-ATA	1134
H2B.CI.88.UC1		-TC-A.-TTTT.T.....CA-T.G.C.-GC.-T-A.-A-ASTAGG-CAATA	1138
H2B.GH.86.D205		-TC-A.-TTTT.T.....CA-T.G.C.-GC.-T-A.-A-ASTAGG-CAATA	1133
H2B.UF.01.RK020		-TC-A.-TTTT.TA.....AA-T.G.C.-AG.-T-A.-A-AGTAGG-CAATA	279
H2G.CI.-.ABT96		-C-A.-TT.T.....TAGCCAAA--GGGCTGT.GAA.-CC-A-CTTG-ATA.-C-GGTAGA.-T	520
H2U.FR.96.12034		-A--T.....AARCCA--GGG.T--G.CCTCTG--A--A-AGG-GT--TT	636
MAC.US.-.251.1A11		-A.....G.....A	1106
MAC.US.-.251.32H.PU5		-A.....G.....A	1108
MAC.US.-.251.BK28		-A.....G.....A	1095
MAC.US.-.MML42		-A.....G.....A	605
MAC.US.-.SMM142B		-A.....G.....A	605
MAC.US.1937		-A.....G.....A	213
MAC.US.2065		-A.....G.....A	213
MAC.US.239.95112		-A.....G.....A	203
MAC.US.239.96114		-A.....G.....A	209
MAC.US.80035		-A.....G.....A	213
MAC.US.81035		-A.....G.....A	214
MAC.US.85013		-A.....G.....A	147
MAC.US.87082		-A.....G.....A	184
MAC.US.92050		-A.....G.....A	207
MAC.US.92077		-A.....G.....A	214
MAC.US.93057		-A.....G.....A	212
MAC.US.93062		-A.....G.....A	199
MAC.US.95058		-A.....G.....A	201
MAC.US.95086		-A.....G.....A	70
MAC.US.96016		-A.....G.....A	214
MAC.US.96020		-A.....G.....A	206
MAC.US.96072		-A.....G.....A	218
MAC.US.96081		-A.....G.....A	216
MAC.US.96093		-A.....G.....A	214
MAC.US.96123		-A.....G.....A	103
MAC.US.96135		-A.....G.....A	199
MAC.US.97009		-A.....G.....A	82
MAC.US.97074		-A.....G.....A	82
MAC.US.r80025		-A.....G.....A	70
MAC.US.r90131		-A.....G.....A	213
MNE.US.-.MNE027		-A.....G.....A	587
MNE.US.82.MNE_8		-A.....G.....A	587
SMM.SJ.92.SJL92B		-CTAC-T-CGG.GA.....TAGTAG-AG-A-C	547
SMM.US.-.17BC1		-G-G-G.TC.....T-GGA-AG--CC-A-TTTTGA-AA-GAGTAGG	1107
SMM.US.-.17BFR		-G-G-G.TC.....T-GGA-AG--CC-A-TTTTGA-AA-GAGTAGG	1107
SMM.US.-.F236_H4		-A-G-G-GT.....C-T-GGA-AG--CC-A-TTTTGA-AA-GAGTAGG	1103
SMM.US.-.H9		-A-G-G-GT.....C-T-GGA-AG--CC-A-TTTTGA-AA-GAGTAGG	589
SMM.US.-.PBJ14_15		-A-G-G-GT.....C-T-GGA-AG--CC-A-TTTTGA-AA-GAGTAGG	882
SMM.US.-.PBJ143		-A-G-G-GT.....C-T-GGA-AG--CC-A-TTTTGA-AA-GAGTAGG	589
SMM.US.-.PBJ_6P6		-A-G-G-GT.....C-T-GGA-AG--CC-A-TTTTGA-AA-GAGTAGG	1075
SMM.US.-.PGM53		-A-G-G-GT.....C-T-GGA-AG--CC-A-TTTTGA-AA-GAGTAGG	1033
SMM.US.-.SME543		-A-G-G-GT.....C-T-GGA-AG--CC-A-TTTTGA-AA-GAGTAGG	1104
STM.US.-.STM		GC-ACA-GT-G.C.....C-G-GG---AT-G.-C-A-TCTTGA--A-GAGGT-G-AG	763



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Accession	Genome Sequence	Position
MAC.US..239	AAATTGTGGGAGACCATCAAGCGGCTATGCGAGATTATCAGAGATATTATAAAGAGGAGGCTGCGAGATTGGGACTTGGAGCAC.....CCACAA.....CCAGCTCCACACAGGACAACTTAGG	1739
Gag P24	N_C_V_G_D_H_Q_A_A_M_Q_I_I_R_D_I_I_N_E_A_A_D_W_D_I_Q_H.....P_Q.....P_A_P_Q_Q_G_Q_L_R	Gag
H2A.CI.88.UC2	T...C-T-A-A-C...A-C...A-C...T-T-A-A-A-G...TGC...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.DE..BEN	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.DE..PET1	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.GH..GHI	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.GW..ISV	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.GM.87.D1.94	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.GM.MCN13	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.GM.MCR35	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.GW..ALI	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.GW..MDS	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.GW.86.FG	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.GW.87.CAM2CG	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2A.GW.85.ROD	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2AB.CI..7312A	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2B.CI..EHO	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2B.CI.88.UC1	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2B.GH.86.D205	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2B.JF.01.RK20	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2G.CI..ABT96	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
H2U.FR.96.12034	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US..251.1A11	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US..251.32H.FU5	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US..251.BK28	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US..MM142	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US..SMM142B	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.1937	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.2065	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.239.95112	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.239.96114	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.80035	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.81035	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.85013	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.87082	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.92050	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.92077	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.93057	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.93062	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.95058	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.95086	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.96016	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.96020	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.96072	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.96081	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.96093	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.96123	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.96135	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.97009	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.97074	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.r80025	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MAC.US.r90131	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MNE.US..MNE027	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
MNE.US.82.MNE_8	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.SL.92.SL92B	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.US..17BC1	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.US..17BFR	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.US..F236.H4	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.US..H9	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.US..PBJ14_15	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.US..PBJ7A	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.US..PBJ143	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.US..PBJ_6P6	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.US..PGM53	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
SNM.US..SMB543	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792
STM.US..STM	T...C-T-C...A-A...A-A...G-T-T-A-A-A-C...T-C...AT...CCAGGCC-CTT-C-GC-G-G--A	1792

MAC.US.-.239	GAGCCCTCAGGATCAGATATTGAGGAAACAACCTAGTTTCAAGTGGATGACACAGAACCCCACTACAGTAGGCAACATTTTACAGGAGATGGATCCAACTGGGGTTGCAAA	1869
Gag P24	E_P_S_G_S_D_I_A_G_T_I_S_S_V_D_E_Q_I_Q_W_M_Y_R_Q_Q_N_P_I_P_V_G_N_I_Y_R_R_W_I_Q_I_G_L_I_Q	Gag
H2A.CI.88.UC2	-C-AAGG-G-T-C-A-A-CA-A-T-G-G-A-T-T-G-G-G-G-C-C-A-T-T-G-A-A-C-G	1922
H2A.DE.-.BEN	-C-AAGG-G-T-C-A-A-CA-A-T-G-G-A-T-T-G-G-G-G-C-C-A-T-T-G-A-A-C-G	1922
H2A.DE.-.PEI2	-C-AAGG-G-T-C-A-A-CA-A-T-G-G-A-T-T-G-G-G-G-C-C-A-T-T-G-A-A-C-G	1890
H2A.GH.-.GHI	-C-AAGG-G-T-C-A-A-CA-A-T-G-G-A-T-T-G-G-G-G-C-C-A-T-T-G-A-A-C-G	1366
H2A.GW.-.ISV	-T-AAGG-G-T-C-A-A-G-A-G-A-T-T-G-G-A-T-T-G-G-G-G-C-C-T-T-T-G-A-A-C-G	1366
H2A.GM.87.D1.94	-C-AAGG-G-T-C-A-A-CA-A-T-T-G-G-A-T-T-G-G-G-G-C-C-T-T-T-G-A-A-C-G	1366
H2A.GM.MCN13	-A-AAG-G-T-C-A-A-CA-A-T-T-G-G-A-T-T-G-G-G-G-C-C-T-T-T-G-A-A-C-G	1367
H2A.GM.MCR35	-A-AAG-G-T-C-A-A-CA-A-T-T-G-G-A-T-T-G-G-G-G-C-C-T-T-T-G-A-A-C-G	1367
H2A.GW.-.ALI	-A-AAG-G-T-C-A-A-CA-A-T-T-G-G-A-T-T-G-G-G-G-C-C-T-T-T-G-A-A-C-G	1915
H2A.GW.-.MDS	-A-AAG-G-T-C-A-A-CA-A-T-T-G-G-A-T-T-G-G-G-G-C-C-T-T-T-G-A-A-C-G	1366
H2A.GW.86.FG	-AAG-G-T-C-A-A-G-A-G-A-T-T-G-G-A-T-T-G-TG-G-G-A-T-T-G-A-A-C-G	1360
H2A.GW.87.CAM2CG	-C-AAG-G-T-C-A-A-CA-A-T-T-G-G-A-T-T-G-G-G-G-C-C-T-T-T-G-A-A-C-G	1931
H2A.SN.85.ROD	-AAGG-T-T-C-A-A-G-A-CA-A-T-T-G-G-A-T-T-G-G-G-G-C-C-T-T-T-G-A-A-C-G	1365
H2AB.CI.-.7312A	-C-CAG-A-G-C-C-CA-G-G-A-GGGT-A-GT-T-T-C-G-G-T-T-G-A-A-C-G	1889
H2B.CI.-.EHO	-A-AAG-G-C-A-G-C-C-CA-A-G-A-T-TG-C-C-G-A-C-T-T-A-G-T-T-A-A-C-G	1884
H2B.CI.88.UC1	-C-CAG-G-A-C-C-CA-G-G-A-GGC-A-T-TG-T-G-G-A-T-T-A-A-C-G	1888
H2B.GH.86.D2.05	-C-AAG-G-A-C-C-CA-G-G-A-GGC-A-T-TG-C-G-A-T-T-A-T-T-A-C-G	1883
H2B.JF.01.KR20	-C-AAG-G-A-C-C-CA-G-G-A-GGC-A-T-TG-C-G-A-T-T-A-T-T-A-C-G	1029
H2G.CI.-.ABT96	-A-A-G-C-C-A-A-A-A-T-T-CAC-G-G-A-T-T-A-T-Y-T-T-A-T-T-A-AC-T-	1285
H2U.FR.96.12034	-AAG-T-T-CA-G-A-G-A-T-T-CG-A-T-A-G-G-T-T-C-TC-T-T-CC-A-	1401
MAC.US.-.251.1A11	MAC.US.-.251.32H.FU5	1868
MAC.US.-.251.BK28	MAC.US.-.251.BK28	1870
MAC.US.-.MM142	MAC.US.-.MM142	1857
MAC.US.-.SMM142B	MAC.US.-.SMM142B	1367
MAC.US.4937	MAC.US.4937	1367
MAC.US.2065	MAC.US.2065	975
MAC.US.239.95112	MAC.US.239.95112	975
MAC.US.239.96114	MAC.US.239.96114	965
MAC.US.80035	MAC.US.80035	971
MAC.US.81035	MAC.US.81035	976
MAC.US.85013	MAC.US.85013	909
MAC.US.87082	MAC.US.87082	946
MAC.US.92050	MAC.US.92050	969
MAC.US.92077	MAC.US.92077	976
MAC.US.93057	MAC.US.93057	974
MAC.US.93062	MAC.US.93062	961
MAC.US.95058	MAC.US.95058	963
MAC.US.95086	MAC.US.95086	832
MAC.US.96016	MAC.US.96016	976
MAC.US.96020	MAC.US.96020	968
MAC.US.96072	MAC.US.96072	980
MAC.US.96081	MAC.US.96081	978
MAC.US.96093	MAC.US.96093	976
MAC.US.96123	MAC.US.96123	865
MAC.US.96135	MAC.US.96135	961
MAC.US.97009	MAC.US.97009	844
MAC.US.97074	MAC.US.97074	844
MAC.US.r80025	MAC.US.r80025	832
MAC.US.r90131	MAC.US.r90131	975
MNE.US.-.MNE027	MNE.US.-.MNE027	1349
MNE.US.82.MNE_8	MNE.US.82.MNE_8	1349
SMM.SL.92.SL92B	SMM.SL.92.SL92B	1312
SMM.US.-.17BC1	SMM.US.-.17BC1	1869
SMM.US.-.17BFR	SMM.US.-.17BFR	1869
SMM.US.-.F236.H4	SMM.US.-.F236.H4	1868
SMM.US.-.H9	SMM.US.-.H9	1354
SMM.US.-.PBJ14_15	SMM.US.-.PBJ14_15	1647
SMM.US.-.PBJA	SMM.US.-.PBJA	1354
SMM.US.-.PBJ143	SMM.US.-.PBJ143	1840
SMM.US.-.PBG_6P6	SMM.US.-.PBG_6P6	1798
SMM.US.-.PGM53	SMM.US.-.PGM53	1869
SMM.US.-.SMB543	SMM.US.-.SMB543	1531
STM.US.-.STM	STM.US.-.STM	

HIV-2/SIV complete genomes

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MAC.US..239	AATGTCAGATGATATACCCGACAAACATTCCTAGATGATGAGCAGGTTCTCAAAAAGTTTAAAGACAGAAACAGACAGATGACGAGTAAAGAA	1999
Gag_P24	K_C_V_R_M_Y_N_P_T_N_I_L_D_V_K_Q_G_P_K_E_P_F_Q_S_Y_V_D_R_F_Y_K_S_L_R_A_E_Q_T_D_A_A_V_K_N	Gag
H2A.CI.88.UC2	G-C-G-CT-C-G-G-A-AT-C-T-C-G-G-A-G-AG-G-AG-CC-G-A	2052
H2A.DE..BEN	G-A-C-T-T-CA-G-A-A-G-C-A-T-G-G-A-CC-G-A	2052
H2A.DE..PEI2	G-C-G-C-T-C-C-G-A-G-C-A-G-C-A-CC-G-A	2020
H2A.GH..GHI	G-G-C-T-T-CT-C-G-G-A-G-A-G-C-A-CC-G-A	1496
H2A.GW..ISV	G-C-C-T-C-CA-G-G-A-T-G-C-A-T-G-C-A-CC-G-A	1496
H2A.GM.87.DI.94	G-C-G-C-T-CT-G-G-G-A-AT-G-C-A-CC-G-A	1496
H2A.GM.MCN13	G-C-G-C-G-C-CA-G-A-C-A-T-T-A-CC-G-A	1497
H2A.GM.MCR35	G-C-G-C-G-C-CA-G-A-C-A-T-T-A-CC-G-A	1497
H2A.GW..ALI	G-C-G-C-G-C-CA-G-A-C-A-T-T-A-CC-G-A	2045
H2A.GW..MDS	G-C-G-C-T-C-C-CA-G-G-A-G-C-A-CC-G-A	1496
H2A.GW.86.FG	G-C-G-C-T-C-CA-T-A-G-A-C-A-CC-G-A	1490
H2A.GW.87.CAM2CG	G-C-G-C-G-C-CA-G-A-G-T-C-A-CC-G-A	2061
H2A.SN.85.ROD	G-G-C-G-C-CA-G-G-A-G-C-A-CC-G-A	1495
H2AB.CI..7312A	G-C-G-C-T-T-T-A-A-C-C-A-G-C-C-G-AG-G-CA-G-C-G-GAGC	2019
H2B.CI..EHO	C-G-T-T-T-A-G-CA-G-C-C-A-T-A-CC-G-A	2014
H2B.CI.88.UC1	C-G-T-T-C-AT-CA-G-G-A-A-T-C-A-CC-G-A	2018
H2B.GH.86.D205	C-C-T-T-C-AT-CA-G-G-A-G-C-C-A-CC-G-A	2013
H2B.JF.01.RK020	C-G-T-T-A-G-CA-G-G-A-G-A-C-C-A-CC-G-A	1159
H2G.CI..ABT96	G-Y-T-C-T-T-A-G-C-T-TCT-T-A-G-C-R-A-T-C-A	1415
H2U.FR.96.12034	C-T-T-T-CT-A-G-G-T-T-A-A-C-C-G-A	1531
MAC.US..251.1A11	C-T-T-T-T-A-G-CA-G-C-C-A-T-A-CC-G-A	1998
MAC.US..251.32H.FU5	C-T-T-T-C-AT-CA-G-G-A-A-T-C-A-CC-G-A	2000
MAC.US..251.BK28	C-T-T-T-C-AT-CA-G-G-A-G-C-C-A-CC-G-A	1987
MAC.US..MM142	C-T-T-T-T-A-G-CA-G-G-A-G-A-C-C-A-CC-G-A	1497
MAC.US..SMM142B	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1497
MAC.US.4937	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1105
MAC.US.2065	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1105
MAC.US.239.95112	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1095
MAC.US.239.96114	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1101
MAC.US.80035	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1105
MAC.US.81035	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1106
MAC.US.85013	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1039
MAC.US.87082	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1076
MAC.US.92050	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1099
MAC.US.92077	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1106
MAC.US.93057	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1104
MAC.US.93062	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1091
MAC.US.95058	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1105
MAC.US.95086	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	962
MAC.US.96016	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1106
MAC.US.96020	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1098
MAC.US.96072	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1110
MAC.US.96081	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1108
MAC.US.96123	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1106
MAC.US.96135	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	995
MAC.US.97009	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1091
MAC.US.97074	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	974
MAC.US.r80025	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	974
MAC.US.r90131	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	962
MNE.US..MNE027	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1105
MNE.US.82.MNE_8	C-T-T-T-T-A-G-CA-G-G-A-G-C-C-A-CC-G-A	1479
SMM.SL.92.SL92B	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-G-C-G-G	1442
SMM.US..17BC1	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-T-G-C-G-G	1999
SMM.US..17BFR	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-T-G-C-G-G	1999
SMM.US..F236.H4	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-T-G-C-G-G	1998
SMM.US..H9	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-T-G-C-G-G	1484
SMM.US..PBJ14_15	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-T-G-C-G-G	1778
SMM.US..PBJA	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-T-G-C-G-G	1484
SMM.US..PBJ_143	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-T-G-C-G-G	1484
SMM.US..PBJ_6P6	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-T-G-C-G-G	1970
SMM.US..PGM53	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-T-G-C-G-G	1928
SMM.US..SMB543	C-G-C-G-T-T-G-C-T-T-G-C-A-T-T-T-G-C-G-G	1999
STM.US..STM	C-T-T-GTT-T-C-G-AA-G-C-A-T-T-T-G-C-T-T-G-A	1661



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see Kaye, *J Virol* 72(7):5877-5885(1998) for Gag p2 role in RNA encapsidation  
 Gag p24 end // Gag p2 start  
 Gag p2 end // Gag NC (p8) start  
 AAGCTAGATTATGCGAAGCCCTGAAAGAGCCCTCGACCAAGTCCCAATC...CCITTTGACACGCCCAAGAGG...GGACCAAGAAAG...CCAAATTAAGTGTTTGGAAATTTGGGAAAGAGG  
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Strain	Genomic Region	Sequence	Position
MAC.US.-.239	Gag p9	GACACTTCGAAAGCCAGAGCCCAAGAAAGACAGGGATGCTGGAAATGTGGAAAATGACACATGTTATGGCCAAATGCCCAAGACAGCGGGTTT.TTTAGGCGCTTGGTCCATGGGGAAGA	2379
Gag p9	Pol	G H S A R Q C R A P R R R Q G C W K C G K M D H V M A K C P D R Q A G F L R P W S M G K E	2379
H2A.CI.88.UC2	ribosome -1 slip site	-----G-G-AA-G-C-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.CI.88.UC2	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.CI.88.UC1	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.DE.-.PE12	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.GH.-.GH1	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.GM.-.ISY	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.GM.87.D194	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.GM.WCNI13	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.GM.MCR35	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.GM.-.ALI	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.GM.-.MDS	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.GM.86.FG	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.GM.87.CAM2GG	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2A.SN.85.ROD	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2AB.CI.-.7312A	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2B.CI.-.EHO	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2B.CI.88.UC1	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2B.GH.86.D205	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2B.JP.01.KR020	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2G.CI.-.ABT96	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
H2U.FR.96.12034	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.-.251.1A11	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.-.251.32H.PU5	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.-.251.BK28	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.-.MM142	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.-.SMM142B	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.1937	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.2065	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.239.95112	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.239.96114	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.80035	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.81035	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.85013	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.87082	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.82050	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.92077	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.93057	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.93062	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.95058	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.95086	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.96016	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.96020	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.96072	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.96081	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.96093	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.96123	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.96135	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.97009	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.97074	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.r80025	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MAC.US.r90131	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MNE.US.-.MNE027	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
MNE.US.82.MNE_8	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.SL.92.SL92B	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.US.-.17BC1	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.US.-.17EPR	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.US.-.F236_H4	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.US.-.H9	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.US.-.PBJ14_15	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.US.-.PBJA	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.US.-.PBJ_143	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.US.-.PBJ_6P6	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.US.-.PGM53	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
SMM.US.-.SMB543	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423
STM.US.-.STM	ribosome -1 slip site	-----G-A-G-C-A-T-----C-GCCA-GA-CA-C-----A-T-----G-----GA-G-CT-----	2423

HIV-2/SIV complete genomes

HIV-2/SIV complete genomes

MAC.US.-.239	Gag p1 end \ / Gag p6 start	AGCCGCGCAATTTCCCATGCTCCAGTGCATCAGGGGCTGATGCCAACTGCTCC	CCGAGAGACCAGCTGGATCTCTAAAGAACTACATGCAGTTGGCCAGCAGCAGAG.	2494
Gag P9	K P R N F P H M A Q V H Q S V A S G A G L M P T A P	P B D P A V D L L K E L H A V G O A R	.....	Gag
Pol 1F	A P Q F P H G S S A Q G A D A N C S	P R G P S C G S A K E L H A V G O A R	.....	Pol
H2A.CI.88.UC2	H2A.CI.88.UC2	C C C T C A A A C C C C A T G A C C	CA T G A C C T T G A A T T	GGAGCAGAGGGA
H2A.DE.BEN	H2A.DE.BEN	G A C C C A T C A A T C A A T C	CA A G G A A	GGAGCAGAGGGA
H2A.DE.PET2	H2A.DE.PET2	G A C C C A T C A A T C A A T C	CA A G G A A	GGAGCAGAGGGA
H2A.GH.GHI	H2A.GH.GHI	G A C C C A T C A A T C A A T C	CA A G G A A	GGAGCAGAGGGA
H2A.GH.ISY	H2A.GH.ISY	G A C C C A T C A A T C A A T C	CA A G G A A	GGAGCAGAGGGA
H2A.GM.87.D194	H2A.GM.87.D194	G C C C T C A G T T C G A C A C C C	AT T A C A G G G	AGAGCAGAGGGA
H2A.GM.MCN13	H2A.GM.MCN13	G C C C T C A G T T C G A C A C C C	AT T A C A G G G	AGAGCAGAGGGA
H2A.GM.MCR35	H2A.GM.MCR35	G C C C T C A G T T C G A C A C C C	AT T A C A G G G	AGAGCAGAGGGA
H2A.GW.ALI	H2A.GW.ALI	G A A C C A C A C C C A T C A A T C	CA A G G A A	AGAGCAGAGGGA
H2A.GW.MDS	H2A.GW.MDS	G C C G T C G A C A C C C A T C A A T C	CA A G G A A	AGAGCAGAGGGA
H2A.GW.86.FG	H2A.GW.86.FG	G C C G T C G A C A C C C A T C A A T C	CA A G G A A	AGAGCAGAGGGA
H2A.GW.87.CAM2CG	H2A.GW.87.CAM2CG	G C C T C A C A C C C A T C A A T C	CA A G G A A	AGAGCAGAGGGA
H2A.SN.85.ROD	H2A.SN.85.ROD	G C C T C A C A C C C A T C A A T C	CA A G G A A	AGAGCAGAGGGA
H2AB.CI.-.7312A	H2AB.CI.-.7312A	T C C G A T G A C A C A G A G G A	AT C A T C A A G G A	AGAGCAGAGGGA
H2B.CI.-.EHO	H2B.CI.-.EHO	G C G C A C C A A A G	T C C G A T G A C A C A G A T C	AGAGCAGAGGGA
H2B.CI.88.UC1	H2B.CI.88.UC1	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
H2B.GH.86.D205	H2B.GH.86.D205	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
H2B.JP.01.KR020	H2B.JP.01.KR020	T G A C C A C C A T G A C C C A G	A G A C A T G A C T C	AGAGCAGAGGGA
H2G.CI.-.ABT96	H2G.CI.-.ABT96	A C C C T A A A A A G A T	A A C A A G A T	AGAGCAGAGGGA
H2U.FR.96.12034	H2U.FR.96.12034	C C G A T G A C C A G A G G A	A T C A T C A A G G A	AGAGCAGAGGGA
MAC.US.-.251.1A11	MAC.US.-.251.1A11	C G C A C C A A A G	T C C G A T G A C A C A T C	AGAGCAGAGGGA
MAC.US.-.251.32H.PJ5	MAC.US.-.251.32H.PJ5	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.-.251.BK28	MAC.US.-.251.BK28	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.-.MML142	MAC.US.-.MML142	T G A C C A C C A T G A C C C A G	A G A C A T G A C T C	AGAGCAGAGGGA
MAC.US.1937	MAC.US.1937	A C C C T A A A A A G A T	A A C A A G A T	AGAGCAGAGGGA
MAC.US.2065	MAC.US.2065	C C G A T G A C C A G A G G A	A T C A T C A A G G A	AGAGCAGAGGGA
MAC.US.239.95112	MAC.US.239.95112	C C G A T G A C C A G A G G A	A T C A T C A A G G A	AGAGCAGAGGGA
MAC.US.239.96114	MAC.US.239.96114	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.80035	MAC.US.80035	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.81035	MAC.US.81035	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.85013	MAC.US.85013	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.87082	MAC.US.87082	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.92050	MAC.US.92050	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.92077	MAC.US.92077	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.93057	MAC.US.93057	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.93062	MAC.US.93062	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.95058	MAC.US.95058	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.95086	MAC.US.95086	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.96016	MAC.US.96016	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.96020	MAC.US.96020	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.96072	MAC.US.96072	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.96081	MAC.US.96081	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.96093	MAC.US.96093	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.96123	MAC.US.96123	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.96135	MAC.US.96135	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.97009	MAC.US.97009	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.97074	MAC.US.97074	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.r80025	MAC.US.r80025	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MAC.US.r90131	MAC.US.r90131	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA
MNE.US.-.MNE027	MNE.US.-.MNE027	C C A C A C C A C C A T G A C C C A G	A T C A T C A A G G A	AGAGCAGAGGGA
MNE.US.82.MNE_8	MNE.US.82.MNE_8	C C A C A C C A C C A T G A C C C A G	A T C A T C A A G G A	AGAGCAGAGGGA
SMM.SL.92.SL92B	SMM.SL.92.SL92B	G G A C A A C A T C A T C A G T A A	A C C C G G A A G C	AGAGCAGAGGGA
SMM.US.-.17BC1	SMM.US.-.17BC1	G G A C A A C A T C A T C A G T A A	A C C C G G A A G C	AGAGCAGAGGGA
SMM.US.-.17BFR	SMM.US.-.17BFR	G G A C A A C A T C A T C A G T A A	A C C C G G A A G C	AGAGCAGAGGGA
SMM.US.-.F236_H4	SMM.US.-.F236_H4	G A C C A C A C C A T G A C C C A G	A T C A T C A A G G A	AGAGCAGAGGGA
SMM.US.-.H9	SMM.US.-.H9	G A C C A C A C C A T G A C C C A G	A T C A T C A A G G A	AGAGCAGAGGGA
SMM.US.-.PB114_15	SMM.US.-.PB114_15	G A C C A C A C C A T G A C C C A G	A T C A T C A A G G A	AGAGCAGAGGGA
SMM.US.-.PB114_15	SMM.US.-.PB114_15	G A C C A C A C C A T G A C C C A G	A T C A T C A A G G A	AGAGCAGAGGGA
SMM.US.-.PBU_143	SMM.US.-.PBU_143	G A C C A C A C C A T G A C C C A G	A T C A T C A A G G A	AGAGCAGAGGGA
SMM.US.-.PBU_6P6	SMM.US.-.PBU_6P6	G A C C A C A C C A T G A C C C A G	A T C A T C A A G G A	AGAGCAGAGGGA
SMM.US.-.PGM53	SMM.US.-.PGM53	G A C C A C A C C A T G A C C C A G	A T C A T C A A G G A	AGAGCAGAGGGA
SMM.US.-.SME543	SMM.US.-.SME543	G A C C A C A C C A T G A C C C A G	A T C A T C A A G G A	AGAGCAGAGGGA
STM.US.-.STM	STM.US.-.STM	A C C C A T G A C C C A G	A G G A G C G C T C	AGAGCAGAGGGA





HIV-2/SIV  
complete genomes

MAC.US.-.239 Pol. Protease 2724  
 ATATTGAGGACAGCCTGTAGAGTATTACTGGATACAGGGCTCATGATTCCTATTGTAACAGGAGATAGAGTTAGGTCACACATTATACCCCAAAATAGTAGGAGGAATAGAGGTTTATTAATACTAA  
 H\_I\_E\_G\_Q\_P\_V\_E\_V\_L\_I\_D\_T\_G\_A\_D\_D\_S\_I\_V\_T\_G\_I\_E\_L\_G\_P\_H\_Y\_T\_P\_K\_I\_V\_G\_G\_I\_G\_G\_I\_N\_T\_K  
 C-C-G-AT-G-G-A-A-G-C-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2807 H2A.CI.88.UC2 C-C-G-AT-G-G-A-A-G-C-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2807 H2A.DE.-.BEN C-C-G-AT-G-G-A-A-G-C-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2775 H2A.DE.-.PEI2 C-C-G-AT-G-G-A-A-G-C-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2251 H2A.GH.-.GHI C-C-G-AT-G-G-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2248 H2A.GW.-.ISV C-C-G-AT-G-G-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2251 H2A.GM.87.D1.94 TC-C-G-AT-G-G-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2252 H2A.GM.MCN13 CG-C-G-C-A-A-T-C-G-A-C-G-C-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2252 H2A.GM.MCR35 CG-C-G-C-A-A-T-C-G-A-C-G-C-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2800 H2A.GW.-.ALI T-T-A-C-C-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2251 H2A.GW.-.MDS T-T-A-C-C-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2245 H2A.GW.86.FG T-GT-A-C-A-A-C-C-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2816 H2A.GW.87.CAM2GG T-GT-A-C-A-A-C-C-A-A-G-GGACA-C-T-G-G-G-A-C-A-C-C  
 2253 H2A.SN.85.ROD C-C-G-T-A-C-C-GT-A-C-C-A-A-G-GAACA-G-G-A-C-A-C-C  
 2789 H2AB.CI.-.7312A C-C-G-T-A-C-C-GT-A-C-C-A-A-G-AAGCA-C-C-G-G-C-A-C-A-C  
 2778 H2B.CI.-.EHO C-C-G-T-AT-A-A-A-C-A-A-G-G-AAGCA-C-C-G-G-A-A-A-C-C  
 2788 H2B.CI.88.UC1 H2B.CI.88.UC1 C-C-G-T-A-G-A-C-A-A-G-G-AAGCA-C-C-G-G-A-A-A-C-C  
 2783 H2B.GH.86.D205 G-C-G-T-T-A-A-A-C-A-A-T-C-C-A-A-G-G-AAGCA-C-C-G-G-A-C-A-C  
 1929 H2B.JF.01.RK020 G-C-G-T-AT-A-A-A-C-A-A-T-C-C-A-A-G-AAGT-G-C-G-G-A-C-A-C  
 2134 H2G.CI.-.ABT96 C-A-A-T-A-A-C-T-A-C-C-T-A-C-C-A-A-G-AAGTA-GT-A-A-A-C-C  
 2289 H2U.FR.96.12034 C-A-G-G-A-A-A-C-A-A-C-A-A-G-G-TA-A-AA-T-T-CT-G-A-A-G-C-A  
 2723 MAC.US.-.251.1A11 MAC.US.-.251.1A11 A-A  
 2725 MAC.US.-.251.32H.FU5 MAC.US.-.251.32H.FU5 A-A  
 2700 MAC.US.-.251.BK28 MAC.US.-.251.BK28 T-T  
 2210 MAC.US.-.MM142 MAC.US.-.MM142 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2210 MAC.US.-.SMM142B MAC.US.-.SMM142B T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1830 MAC.US.4937 MAC.US.4937 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1830 MAC.US.2065 MAC.US.2065 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1820 MAC.US.239.95112 MAC.US.239.95112 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1826 MAC.US.239.96114 MAC.US.239.96114 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1830 MAC.US.80035 MAC.US.80035 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1830 MAC.US.81035 MAC.US.81035 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1831 MAC.US.85013 MAC.US.85013 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1764 MAC.US.87082 MAC.US.87082 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1801 MAC.US.92050 MAC.US.92050 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1824 MAC.US.82077 MAC.US.82077 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1829 MAC.US.93057 MAC.US.93057 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1816 MAC.US.95062 MAC.US.95062 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1818 MAC.US.95058 MAC.US.95058 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1687 MAC.US.95086 MAC.US.95086 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1831 MAC.US.96016 MAC.US.96016 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1823 MAC.US.96020 MAC.US.96020 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1835 MAC.US.96072 MAC.US.96072 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1833 MAC.US.96081 MAC.US.96081 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1835 MAC.US.96123 MAC.US.96123 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1720 MAC.US.96135 MAC.US.96135 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1699 MAC.US.97009 MAC.US.97009 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1699 MAC.US.97074 MAC.US.97074 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 1687 MAC.US.r80025 MAC.US.r80025 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2192 MAC.US.r90131 MAC.US.r90131 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 MNE.US.-.MNE027 MNE.US.-.MNE027 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 MNE.US.82.MNE\_8 MNE.US.82.MNE\_8 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2155 SWM.SL.92.SL92B SWM.SL.92.SL92B T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2724 SWM.US.-.17BC1 SWM.US.-.17BC1 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2724 SWM.US.-.17BFR SWM.US.-.17BFR T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2197 SWM.US.-.F236.H4 SWM.US.-.F236.H4 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2491 SWM.US.-.H9 SWM.US.-.H9 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2197 SWM.US.-.PBJ14\_15 SWM.US.-.PBJ14\_15 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2197 SWM.US.-.PBJA SWM.US.-.PBJA T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2197 SWM.US.-.PBJ143 SWM.US.-.PBJ143 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2683 SWM.US.-.PBJ\_6P6 SWM.US.-.PBJ\_6P6 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2641 SWM.US.-.PGM53 SWM.US.-.PGM53 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2712 SWM.US.-.SMB543 SWM.US.-.SMB543 T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A  
 2371 STM.US.-.STM STM.US.-.STM T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A-T-T-A









MAC US. - .239	Pol RT	ACTTTACCATCAATAATGCAGAGCAGGAAACGATACATTTTAAAGTTTCCTCAGGATGGAGGGTACAGAGCCATCTTCCCAATACACTATGAGACATGCTAGAACCCCTTCAGGAAGG	3371
H2A.CI.88.UC2		T_L_P_S_V_N_N_A_E_P_G_K_R_Y_I_Y_K_V_L_P_Q_G_W_K_G_S_P_A_I_F_Q_Y_T_M_R_H_V_L_I_E_P_F_R_K	3371
H2A.CI.88.UC2		CC-T-A-C-T-A-A-A-A-A-G-A-A-A-T-T-A-T-A-G-GA-CT-T-A-A	3454
H2A.DE.1.BEN		CC-G-ATG-A-T-A-A-CT-A-A-A-T-T-A-T-T-A-G-A-CT-T-A-A	3454
H2A.DE.1.PE12		C-A-G-C-A-T-A-C-A-A-A-G-A-T-T-C-A-A-G-A-CT-G-A-A	3422
H2A.GH.1.GH1		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2898
H2A.GW.1.ISV		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2898
H2A.GM.87.D1.94		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2898
H2A.GM.MCN13		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2899
H2A.GM.MCR35		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2899
H2A.GW.1.ALI		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3447
H2A.GW.1.MDS		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2898
H2A.GW.86.FG		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2892
H2A.GW.87.CAM2CG		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3463
H2A.SN.85.ROD		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2900
H2AB.CI.1.7312A		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3436
H2B.CI.1.EHO		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3425
H2B.CI.88.UC1		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3435
H2B.GH.86.D2.05		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3427
H2B.JF.01.RK020		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2577
H2G.CI.1.ABT96		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2781
H2U.FR.96.12034		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2936
MAC US. - .251.1A11		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3370
MAC US. - .251.32H.FU5		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3372
MAC US. - .251.BK28		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3347
MAC US. - .MM142		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2857
MAC US. - .SMM142B		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2857
MAC US.1937		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2857
MAC US.2065		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2477
MAC US.239.95112		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2477
MAC US.239.96114		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2467
MAC US.80035		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2473
MAC US.81035		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2477
MAC US.85013		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2478
MAC US.87082		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2411
MAC US.92050		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2448
MAC US.92077		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2471
MAC US.93057		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2471
MAC US.93062		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2476
MAC US.95058		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2463
MAC US.95086		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2465
MAC US.96016		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2334
MAC US.96020		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2478
MAC US.96072		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2470
MAC US.96081		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2482
MAC US.96093		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2480
MAC US.96123		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2367
MAC US.96135		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2478
MAC US.97009		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2463
MAC US.97074		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2346
MAC US.r60025		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2346
MAC US.r90131		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2334
MNE US. - .MNE027		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2477
MNE US.82.MNE_8		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2839
SMM.SL.92.SL92B		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2839
SMM.US.17BC1		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2802
SMM.US.17BFR		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3371
SMM.US.F236.H4		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3371
SMM.US.H9		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3358
SMM.US.PBJ14_15		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2844
SMM.US.PBJA_15		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3138
SMM.US.PBJ_143		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3137
SMM.US.PBJ_143		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	2844
SMM.US.PBJ_6P6		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3330
SMM.US.PGM53		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3358
SMM.US.SMB543		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3288
STM.US.1.STM		CC-G-C-A-T-A-C-T-A-A-A-T-T-T-C-A-A-G-A-CT-T-A-A	3018

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MAC.US.-.239	Pol integrase	AAAAGATAGCCAGCAGCAAGAACATGATAAATACCATAGTAAATGTTAAAGAAATTTGGATTACCCAGAAATAGTGGCCAGACAGATAGTAGACACCCTGTGATTAATGTCATCAGAA	4665
H2A.CI.88.UC2		E_K_I_E_P_A_Q_E_H_D_K_Y_H_S_N_V_K_E_L_V_F_K_F_G_L_P_R_I_V_A_R_Q_I_V_D_T_C_D_K_C_H_Q_K	4748
H2A.DE..BEN		-G-A-T-C-G-A-A-T-C-A-GC-A-CCAT	4748
H2A.DE..PEI2		-C-T-G-A-T-C-T-A-C-AACCCAT	4748
H2A.GH.-GHI		-G-C-T-G-A-T-C-A-G-ATGCCAT	4716
H2A.GW.-ISV		-G-GA-C-T-G-GA-T-C-A-G-C-A-CCAT	4192
H2A.GM.87.D1.94		-C-T-G-C-A-T-C-A-C-A-CCAT	4189
H2A.GM.MCN13		-C-T-G-C-A-T-C-A-C-A-CCAT	4193
H2A.GM.MCR35		-C-T-G-C-A-T-C-A-C-A-CCAT	4193
H2A.GW.-ALI		-C-T-G-C-A-T-C-A-C-A-CCAT	4741
H2A.GW.-MDS		-C-T-G-C-A-T-C-A-C-A-CCAT	4192
H2A.GW.86.FG		-A-A-C-G-G-A-T-C-C-A-AGC	4186
H2A.GW.87.CAM2CG		-T-T-G-A-T-C-C-ATA	4757
H2A.SN.85.ROD		-C-T-G-A-T-C-C-TCCAT	4194
H2AB.CI.-.7312A		-A-C-G-G-A-T-G-C-GC-TCCAT	4730
H2B.CI.-.EHO		-A-T-A-T-A-T-A-T-ACA-C	4719
H2B.CI.88.UC1		-A-T-A-T-A-T-A-T-ACA-T	4729
H2B.GH.86.D2.05		-A-A-C-G-A-T-G-C-A-TCCAT	4721
H2B.JF.01.RK20		-T-A-C-C-G-A-T-G-C-A-TCCAT	3871
H2G.CI.-.ABT96		-A-A-T-T-A-R-TT-G-A-R-TT-G	4075
H2U.FR.96.12034		-A-A-T-T-G-C-T-GC-ACGCAT	4227
MAC.US.-.251.1A11		-G	4664
MAC.US.-.251.32H.PU5		-G	4666
MAC.US.-.251.BK28		-G	4641
MAC.US.-.MM142		-AG	4151
MAC.US.-.SMM142B		-AG	4151
MAC.US.4937			3771
MAC.US.2065			3771
MAC.US.239.95112			3761
MAC.US.239.96114			3767
MAC.US.80035			3772
MAC.US.81035			3772
MAC.US.85013			3705
MAC.US.87082			3742
MAC.US.92050			3765
MAC.US.92077			3772
MAC.US.93057			3770
MAC.US.93062			3757
MAC.US.95058			3759
MAC.US.95086			3628
MAC.US.96016			3772
MAC.US.96020			3764
MAC.US.96072			3776
MAC.US.96081			3774
MAC.US.96093			3772
MAC.US.96123			3661
MAC.US.96135			3757
MAC.US.97009			3640
MAC.US.97074			3628
MAC.US.r80025			3771
MAC.US.r90131			3771
MNE.US.-.MNE027			4133
MNE.US.82.MNE_8			4133
SMM.SL.92.SL92B			4096
SMM.US.-.17BC1			4665
SMM.US.-.17BFR			4665
SMM.US.-.F236.H4			4653
SMM.US.-.H9			4138
SMM.US.-.PBJ14_15			4432
SMM.US.-.PBJA			4431
SMM.US.-.PBJ143			4138
SMM.US.-.PBJ_6P6			4624
SMM.US.-.PGM53			4582
SMM.US.-.SMB543			4653
STM.US.-.STM			4312

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HIV-2/SIV complete genomes

MAC.US.-.239	AGGAGGGCTATACATGGGAGGCAAAATTCAGATCTAGGACTTGGCAATGGATTTGACCCATCTAGAGGAAATAATCAATAGTTCAGTACATGCTAGCTAGTTCAGTTCATAGACGAGAGGTAATT	4795
Pol integrase	G_E_A_I_H_G_Q_A_N_S_D_L_I_G_T_W_Q_M_D_C_T_H_L_I_E_G_K_I_I_V_A_V_H_V_A_S_G_F_I_E_A_E_V_I	Pol
H2A.CI.88.UC2	---C---A-T---G---AA---CGT---C-C-A-CT---A---C-T---A---T---A---T---A---C-C---C---C	4878
H2A.DE.-.BEN	---A-C---A-T---G---AA---CGT---C-AC-A-CT---A---C-T---A---T---A---T---A---C-C---C	4878
H2A.DE.-.PEI2	---G-A---A-T---G---A---G---C---C-A-CT---A---C-T---A---T---A---T---A---C-G-T---C	4846
H2A.GH.-.GH1	---C---A-T---G---AA---TGTTC---C-C-A-CT---A---G-C-T---A---T---A---T---A---T---C	4322
H2A.GW.-.ISV	---G-A---A-T---G---A---C---C---C-A-CT---A---C-T---A---T---A---T---A---T---A---C	4319
H2A.GM.87.D194	---A-C---A-T---G---AA---CGT---C-C-A-CT---A---G-C-T---A---T---A---T---A---C-C	4322
H2A.GM.MCN13	---G---A-T---G---A---A---C---C-C-A-CT---A---G-C-T---A---T---A---T---A---C-C	4323
H2A.GM.MCR35	---G---A-T---G---A---A---C---C-C-A-CT---A---G-C-T---A---T---A---T---A---C-C	4323
H2A.GW.-.ALI	G---A-TG---G---A---C---C-C-A-CT---A---G-C-T---A---G---T---C---C---A---C-C	4871
H2A.GW.-.MDS	---G---A-T---G---A---C---C---C-T---A---G-C-T---A---T---A---T---G---A---C-C	4322
H2A.GW.86.FG	---G---A-T---G---A---C---C---C-T---A---G-C-T---A---T---A---T---G---A---C-C	4316
H2A.GW.87.CAM2CG	---G---A-T---G---A---C---C---C-T---A---G-C-T---A---T---A---T---G---A---C-C	4887
H2A.SN.85.ROD	---G-A---A-T---G---A---C---C---C-T---A---G-C-T---A---T---A---T---A---C-C	4324
H2AB.CI.-.7312A	---A---G-T---A---T---G---A---A---T---A---G-C-C-A---A---C---C---G-T---A---A---C-C	4860
H2B.CI.-.EHO	---G-A---T---A---T---G---A---A---T---A---G-C-C-A---A---G---T---C---C---A---A---A	4849
H2B.CI.88.UC1	---G-A---G-T---A---T---G---A---A---A---G---C---A---A---G---C---C---C---C---A---A	4859
H2B.GH.86.D205	---G-A---T---A---T---G---C---A---A---G---C---A---T---A---A---G---C---C---G-T---A	4851
H2B.JF.01.RK20	---A---C---A---TG---G---A---A---A---A---A---A---A---A---A---A---A---A---A---A	4001
H2G.CI.-.ABT96	---A-C-T---A---T---G---AT-G-T---A---A---G---A---T---A---G-C---C---C---TG---A	4205
H2U.FR.96.12034	---A-C-G---A---T---A---AG---A---AG---C---CT---C---G---G---C---C---C---T---A	4357
MAC.US.-.251.1A11	---A---A---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	4794
MAC.US.-.251.32H.FU5	---A---A---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	4796
MAC.US.-.251.BK28	---A---A---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	4771
MAC.US.-.MM142	---A---A---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	4281
MAC.US.-.SMM142B	---A---A---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	4281
MAC.US.4937	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3901
MAC.US.2065	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3901
MAC.US.239.95112	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3891
MAC.US.239.96114	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3897
MAC.US.80035	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3901
MAC.US.81035	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3902
MAC.US.85013	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3835
MAC.US.87082	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3872
MAC.US.92050	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3895
MAC.US.92077	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3902
MAC.US.93057	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3900
MAC.US.93062	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3887
MAC.US.95058	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3889
MAC.US.95086	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3758
MAC.US.96016	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3902
MAC.US.96020	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3894
MAC.US.96072	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3906
MAC.US.96081	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3904
MAC.US.96123	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3902
MAC.US.96135	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3791
MAC.US.97009	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3887
MAC.US.97074	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3770
MAC.US.r80025	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3758
MAC.US.r90131	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	3901
MNE.US.-.MNE027	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	4263
MNE.US.82.MNE_8	---T---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A---T---A	4263
SWM.SL.92.SL92B	G---A---G---T---A---T---A---G---GG---C---A---G---C---C---CT---A---A---GG-T---A	4226
SWM.US.-.17BC1	---T---A---G---GG---C---A---G---C---C---CT---A---A---GG-T---A---G---C---T---A	4795
SWM.US.-.17BFR	---T---A---G---GG---C---A---G---C---C---CT---A---A---GG-T---A---G---C---T---A	4795
SWM.US.-.F236.H4	---A---C---A-T---G---A---A---C---G-C---A---C---T---A---T---G---A---T---G---A	4783
SWM.US.-.H9	---A---Y---A-T---G---R---A---C---A---C---A---C---T---A---T---G---G---G---C	4268
SWM.US.-.PBJ14_15	---A---C---A---A-T---G---A---C---A---C---A---C---T---A---T---G---A---T---C	4562
SWM.US.-.PBJA_15	---A---C---A---A-T---G---R---A---C---A---C---A---C---T---A---T---G---A---T	4561
SWM.US.-.PBJ143	---A---Y---A-T---A-T---G---R---A---C---A---C---C---T---A---T---G---G---A	4268
SWM.US.-.PBJ_6P6	---A---C---A---A-T---G---A---C---A---C---C---T---A---T---G---G---A---C	4754
SWM.US.-.PGM53	---A---C---A---T---G---A---A---C---A---C---C---T---A---T---G---G---A---C	4712
SWM.US.-.SMB543	---A---C---A---T---G---A---A---C---A---C---C---T---A---T---G---G---A---C	4783
STM.US.-.STM	---A---A---T---G---GT---G---G---A---A---A---C---G---T---A---A---G---T---G---A	4442





MAC US - 239	Pol integrase	5185
H2A.CI.88.UC2	ATTAAATGGCAGTTTCATTTCATGAATTTTAAAGAAAGGGGAGGAAATAGGGGATATGACTCCAGCAGAAAGATTAAATTAACATGATCACTACAGAACAGAGATACAAATTTTCAACAAATCAAAAACCTCAAAA	Pol
H2A.DE.1.BEN	---	5268
H2A.DE.1.PE12	---	5268
H2A.GH.1.GH1	---	5236
H2A.GW.1.ISY	---	4712
H2A.GM.87.D1.94	---	4709
H2A.GM.MCN13	---	4712
H2A.GM.MCR35	---	4713
H2A.GW.1.ALI	---	4713
H2A.GW.1.MDS	---	4712
H2A.GW.86.FG	---	4706
H2A.GW.87.CAM2CG	---	5277
H2A.SN.85.ROD	---	4714
H2AB.CI.1.7312A	---	5250
H2B.CI.1.EHO	---	5239
H2B.CI.88.UC1	---	5249
H2B.GH.86.D2.05	---	5241
H2B.JF.01.RK020	---	4391
H2G.CI.1.ABT96	---	4595
H2U.FR.96.12034	---	4747
MAC US - 251.1A11	---	5184
MAC US - 251.32H.FU5	---	5186
MAC US - 251.BK28	---	5161
MAC US - MM142	---	4671
MAC US - SMM142B	---	4671
MAC US.1937	---	4291
MAC US.2065	---	4291
MAC US.239.95112	---	4281
MAC US.239.96114	---	4287
MAC US.80035	---	4291
MAC US.81035	---	4225
MAC US.85013	---	4292
MAC US.87082	---	4262
MAC US.92050	---	4285
MAC US.92077	---	4292
MAC US.93057	---	4290
MAC US.93062	---	4277
MAC US.95058	---	4279
MAC US.95086	---	4148
MAC US.96016	---	4292
MAC US.96020	---	4284
MAC US.96072	---	4296
MAC US.96081	---	4294
MAC US.96093	---	4292
MAC US.96123	---	4181
MAC US.96135	---	4277
MAC US.97009	---	4160
MAC US.97074	---	4160
MAC US.r60025	---	4148
MAC US.r90131	---	4291
MNE US - MNE027	---	4653
MNE US.82.MNE_8	---	4653
SMM.SL.92.SL192B	---	4616
SMM.US.17BC1	---	5185
SMM.US.17BFR	---	5185
SMM.US.F236.H4	---	5173
SMM.US.H9	---	4658
SMM.US.PBJ14_15	---	4952
SMM.US.PBJA_1	---	4951
SMM.US.PBJ_143	---	4658
SMM.US.PBJ_6P6	---	5144
SMM.US.PGN53	---	5102
SMM.US.SMB543	---	5173
STM.US.1.STM	---	4832

HIV-2/SIV complete genomes



MAC. US. - .239	Pol. Integrase	Pol. Gag-Pol and p31 integrase end \	Vif start
H2A.CI.88.UC2	GAAGGCTAAATATCAAGATTATGGAGGAGGAAAGAGGGTGGATAGCAGTTCCACCATGGAGATACCGGAGAGGCTAGA...GAGGTGGCATAGCCCTATAAAATATCTGMAATATAA...AACTAA	R_K_A_K_I_I_K_D_Y_G_G_K_E_V_D_S_S_H_M_E_D_T_I_G_E_A_R...E_V_A*	5440
H2A.DE. .BEN	GG-C-G-...GG-C-C-...T-C-C-...G-G-A-G-...A-G-...-AA-...GC-...TG-C-C-...C-A-...C-G-...-A	M_E_E_E_K_R_W_I_A_V_P_T_W_R_I_P_E_R_L_E...R_W_H_S_L_I_K_Y_L_K_Y_K...T_K	5523
H2A.DE. .PEI2	H2A.DE. .GHI	H2A.GM. .87.D194	5523
H2A.GM. .87.D194	H2A.GM. .MCR35	H2A.GM. .ALI	5491
H2A.GM. .MDS	H2A.GM. .66.FG	H2A.GM. .87.CAM2CG	4967
H2A.SN.85.ROD	H2A.SN.85.ROD	H2A.SN.85.ROD	4967
H2AB.CI. .7121A	H2AB.CI. .7121A	H2AB.CI. .7121A	4968
H2B.CI. .EHO	H2B.CI. .88.UC1	H2B.CI. .88.UC1	5516
H2B.GH.86.D205	H2B.GH.86.D205	H2B.GH.86.D205	4967
H2B.JP.01.KR202	H2B.JP.01.KR202	H2B.JP.01.KR202	5532
H2G.CI. .ABTP96	H2G.CI. .ABTP96	H2G.CI. .ABTP96	4969
H2U.FR.96.12034	H2U.FR.96.12034	H2U.FR.96.12034	5505
MAC.US. .251.1A11	MAC.US. .251.1A11	MAC.US. .251.1A11	5494
MAC.US. .251.32H.PJ5	MAC.US. .251.32H.PJ5	MAC.US. .251.32H.PJ5	5504
MAC.US. .251.BK28	MAC.US. .251.BK28	MAC.US. .251.BK28	5496
MAC.US. .MM142	MAC.US. .MM142	MAC.US. .MM142	4646
MAC.US. .SMM142B	MAC.US. .SMM142B	MAC.US. .SMM142B	4850
MAC.US.1937	MAC.US.1937	MAC.US.1937	5001
MAC.US.2065	MAC.US.2065	MAC.US.2065	5439
MAC.US.239.95112	MAC.US.239.95112	MAC.US.239.95112	5441
MAC.US.239.96114	MAC.US.239.96114	MAC.US.239.96114	5416
MAC.US.80035	MAC.US.80035	MAC.US.80035	4926
MAC.US.81035	MAC.US.81035	MAC.US.81035	4546
MAC.US.85013	MAC.US.85013	MAC.US.85013	4536
MAC.US.87082	MAC.US.87082	MAC.US.87082	4542
MAC.US.92050	MAC.US.92050	MAC.US.92050	4547
MAC.US.92077	MAC.US.92077	MAC.US.92077	4480
MAC.US.93062	MAC.US.93062	MAC.US.93062	4517
MAC.US.95058	MAC.US.95058	MAC.US.95058	4540
MAC.US.95086	MAC.US.95086	MAC.US.95086	4547
MAC.US.96016	MAC.US.96016	MAC.US.96016	4545
MAC.US.96020	MAC.US.96020	MAC.US.96020	4532
MAC.US.96072	MAC.US.96072	MAC.US.96072	4534
MAC.US.96081	MAC.US.96081	MAC.US.96081	4403
MAC.US.96093	MAC.US.96093	MAC.US.96093	4547
MAC.US.96123	MAC.US.96123	MAC.US.96123	4551
MAC.US.96135	MAC.US.96135	MAC.US.96135	4549
MAC.US.97009	MAC.US.97009	MAC.US.97009	4547
MAC.US.97074	MAC.US.97074	MAC.US.97074	4436
MAC.US.*80025	MAC.US.*80025	MAC.US.*80025	4532
MAC.US.*90131	MAC.US.*90131	MAC.US.*90131	4415
MNE.US. .MNE027	MNE.US. .MNE027	MNE.US. .MNE027	4403
MNE.US.82.MNE.8	MNE.US.82.MNE.8	MNE.US.82.MNE.8	4547
SMM.SJ.92.SL92B	SMM.SJ.92.SL92B	SMM.SJ.92.SL92B	4908
SMM.US. .17EFC1	SMM.US. .17EFC1	SMM.US. .17EFC1	4908
SMM.US. .F236.H4	SMM.US. .F236.H4	SMM.US. .F236.H4	4874
SMM.US. .H9	SMM.US. .H9	SMM.US. .H9	5440
SMM.US. .PBJ14_15	SMM.US. .PBJ14_15	SMM.US. .PBJ14_15	5428
SMM.US. .PBJ14_1	SMM.US. .PBJ14_1	SMM.US. .PBJ14_1	4913
SMM.US. .PBJ_143	SMM.US. .PBJ_143	SMM.US. .PBJ_143	5207
SMM.US. .PGM53	SMM.US. .PGM53	SMM.US. .PGM53	5206
SMM.US. .SMB543	SMM.US. .SMB543	SMM.US. .SMB543	4913
STM.US. .STM	STM.US. .STM	STM.US. .STM	5399
			5357
			5428
			5087

HIV-2/SIV complete genomes

HIV-2/SIV  
complete genomes

MAC.US.-.239	AGATCTACAAAAGGTTTCTATGTCGCCCAITTTAAGGTCGGATCGGCAATGGTGGACCTCAGCAGAGTAATCTTCCCACTACAGGAAGGACCCATTTTAGAAGTACAAGGGTATTGCGATTTGACACCA	5570
Vif	D_L_Q_K_V_C_Y_V_P_H_F_K_V_G_W_A_W_W_T_C_S_R_V_I_F_P_L_I_Q_E_G_S_H_L_J_E_V_Q_G_Y_W_H_L_I_T_P	5571
H2A.CI.88.UC2	--C-G-GGG-GC-TT-CCAC-G-G-A--A-A-G-A-T-T-C-GA-G-CA-A-CC-A-G-	5653
H2A.DE.-.BEN	--C-G-GGG-GC-TT-CCAC-G-G-A--A-G-AA-T-T-C-A-G-CA-A-CC-A-	5653
H2A.DE.-.PEI2	--C-G-GGG-GC-TT-CCAC-G-G-A--A-G-AA-T-T-C-A-G-CA-A-CC-A-	5621
H2A.GH.-.GHI	--C-G-GGG-GC-TT-CCAC-G-G-A--A-A-G-A-T-T-C-GA-G-CA-A-CC-A-G-	5097
H2A.GH.-.ISV	--C-G-GGG-GC-TT-CCAC-G-G-A--A-A-G-AAC-T-T-C-GA-G-CA-A-CC-A-	5094
H2A.GM.87.D1.94	--CT-G-GG-GC-TT-CAC-A--T-A-G-A-T-T-C-GA-G-CA-A-CC-A-	5097
H2A.GM.MCN13	--G-G-C-G-TT-CCA-A--T-A--G-AAC-T-T-C-A--G-CA-A-CC-A-G-	5098
H2A.GM.MCR35	--G-G-C-G-TT-CCA-A--T-A--G-AAC-T-T-C-A--G-CA-A-CC-A-G-	5098
H2A.GW.-.ALI	--G-G-G-GC-TT-CCA-A--T-A--G-A-T-T-C-GA-G-CA-A-CC-A-	5646
H2A.GW.-.MDS	--G-G-G-GC-TT-CCA-A--T-GA-A-GAAC-T-T-C-GA-G-CA-A-CC-A-	5097
H2A.GW.-.86.FG	--CT-G-G-G-TT-CA--G-A-GAAC-T-T-C-G-GA-A-CC-A-	5091
H2A.GW.87.CAM2CG	--G-G-C-G-TT-CCA-A--T-AGA-G-AC-T-T-G-GA-G-CA-A-CC-A-	5662
H2A.SN.85.ROD	--G-G-G-TT-CCA-A--T-A-A-G-AAC-T-T-C-GA-G-CA-A-CC-A-	5099
H2AB.CI.-.7312A	--AT-G--C-C-CTT-C--CCAC--G--T--T--C--A-A-G--GCATGCC--G-C--C--C--G	5635
H2B.CI.-.EHO	--CT-G--C-C-CTT-T-T-CCA-A--A--T--C--GA-A--GCA--C--C--A--C--C--C--	5624
H2B.CI.88.UC1	--GT-G--C-C-CTT-C-T-CCAC--G--C--T--T--A--C--A--A--GCATC--G--C--A--C--C--G	5634
H2B.GH.86.D2.05	--GT-G--C-C-CTT-C-T-CCAC--A--T--T--A--T--C--A--CA--GCATGCC--C--A--A--CC--A--C--	5626
H2B.JF.01.RK20	--AT-GG-C--CACT--T-T-CCA--A--T--T--A--C--A--A--GCAT--C--GA-C--A--A--CC--C--G	4776
H2G.CI.-.ABT96	--C--G--CGGTT--T-T-CAC-A-T-T--G--A--T--ACAA--A-GCA--G-A--A-C--C--T	4980
H2U.FR.96.12034	--G--G--A--G--T--CAC--A--T--T--A--AA--TCA--G-G-G--CC--A	5131
MAC.US.-.251.1A11	MAC.US.-.251.1A11	5569
MAC.US.-.251.32H.FU5	MAC.US.-.251.32H.FU5	5571
MAC.US.-.251.BK28	MAC.US.-.251.BK28	5546
MAC.US.-.MM142	MAC.US.-.MM142	5056
MAC.US.-.SMM142B	MAC.US.-.SMM142B	5056
MAC.US.4937	MAC.US.4937	4676
MAC.US.2065	MAC.US.2065	4676
MAC.US.239.95112	MAC.US.239.95112	4666
MAC.US.239.96114	MAC.US.239.96114	4672
MAC.US.80035	MAC.US.80035	4676
MAC.US.81035	MAC.US.81035	4677
MAC.US.85013	MAC.US.85013	4610
MAC.US.87082	MAC.US.87082	4647
MAC.US.92050	MAC.US.92050	4670
MAC.US.92077	MAC.US.92077	4677
MAC.US.93057	MAC.US.93057	4675
MAC.US.93062	MAC.US.93062	4662
MAC.US.95058	MAC.US.95058	4664
MAC.US.95086	MAC.US.95086	4533
MAC.US.96016	MAC.US.96016	4677
MAC.US.96020	MAC.US.96020	4669
MAC.US.96072	MAC.US.96072	4681
MAC.US.96081	MAC.US.96081	4679
MAC.US.96093	MAC.US.96093	4677
MAC.US.96123	MAC.US.96123	4566
MAC.US.96135	MAC.US.96135	4662
MAC.US.97009	MAC.US.97009	4545
MAC.US.97074	MAC.US.97074	4545
MAC.US.r80025	MAC.US.r80025	4533
MAC.US.r90131	MAC.US.r90131	4676
MNE.US.-.MNE027	MNE.US.-.MNE027	5038
MNE.US.82.MNE_8	MNE.US.82.MNE_8	5038
SMM.SL.92.SL92B	SMM.SL.92.SL92B	5004
SMM.US.-.17BC1	SMM.US.-.17BC1	5570
SMM.US.-.17BFR	SMM.US.-.17BFR	5570
SMM.US.-.F236.H4	SMM.US.-.F236.H4	5558
SMM.US.-.H9	SMM.US.-.H9	5043
SMM.US.-.PBJ14_15	SMM.US.-.PBJ14_15	5337
SMM.US.-.PBJA	SMM.US.-.PBJA	5336
SMM.US.-.PBJ143	SMM.US.-.PBJ143	5043
SMM.US.-.PBJ_6P6	SMM.US.-.PBJ_6P6	5529
SMM.US.-.PGM53	SMM.US.-.PGM53	5487
SMM.US.-.SMB543	SMM.US.-.SMB543	5558
STM.US.-.STM	STM.US.-.STM	5217

































MAC US - 239	Env	9P120	7455
H2A.CI.88.UC2	Env	9P120	7455
H2A.DE.1.BEN			7457
H2A.DE.1.PE12			7478
H2A.GH.1.GH1			6954
H2A.GW.1.ISV			6951
H2A.GM.87.D1.94			6945
H2A.GM.MCN13			6967
H2A.GM.MCR35			6967
H2A.GM.1.ALI			7518
H2A.GM.1.MDS			7011
H2A.GM.86.FG			6942
H2A.GM.87.CAM2CG			7540
H2A.SN.85.ROD			6980
H2AB.CI.1.7312A			7519
H2B.CI.1.EHO			7496
H2B.CI.88.UC1			7509
H2B.GH.86.D2.05			7504
H2B.JF.01.RK020			6627
H2G.CI.1.ABT96			6868
H2U.FR.96.12034			6997
MAC US.1.251.1A11			7451
MAC US.1.251.32H.FU5			7453
MAC US.1.251.BK28			7437
MAC US.1.MM142			6950
MAC US.1.SMM142B			6947
MAC US.1.4937			6561
MAC US.2065			6561
MAC US.239.95112			6551
MAC US.239.96114			6551
MAC US.80035			6557
MAC US.81035			6561
MAC US.85013			6562
MAC US.87082			6495
MAC US.92050			6532
MAC US.92077			6555
MAC US.93057			6562
MAC US.93062			6560
MAC US.95058			6547
MAC US.95086			6549
MAC US.96016			6418
MAC US.96020			6562
MAC US.96072			6554
MAC US.96081			6566
MAC US.96123			6564
MAC US.96135			6562
MAC US.97009			6451
MAC US.97074			6547
MAC US.r80025			6430
MAC US.r90131			6418
MNE US.1.MNE027			6561
MNE US.82.MNE_8			6926
SMM.SL.92.SL92B			6923
SMM.US.1.17BC1			6891
SMM.US.1.17BFR			7455
SMM.US.1.F236.H4			7455
SMM.US.H9			7405
SMM.US.PBJ114_15			6932
SMM.US.PBJA			7235
SMM.US.PBJ_143			7234
SMM.US.PBJ_6F6			6947
SMM.US.PGM53			7427
SMM.US.SMB543			7395
STM.US.1.STM			7447

HIV-2/SIV complete genomes

HIV-2/SIV  
complete genomes

MAC.US.-.239	AGAACCTTATATTTCTGGCATGGTAGGATAATAGGACTATAATAGTTTAAATAGTAATGATTTATTAATCTAACAAATGTAAGACGACGAGAAATAAAGACAGATTTTACCAGTCCACCATTT.....A	7576
Env 9P120	.....A	Env
H2A.CI.88.UC2	.....A	7606
H2A.CI.88.BEN	.....A	7658
H2A.DE.-.PET2	.....A	7599
H2A.GH.-.GHI	.....A	7075
H2A.GW.-.ISV	.....A	7072
H2A.GM.87.D1.94	.....A	7066
H2A.GM.MCN13	.....A	7088
H2A.GM.MCR35	.....A	7088
H2A.GW.-.ALI	.....A	7639
H2A.GW.-.MDS	.....A	7132
H2A.GW.86.FG	.....A	7063
H2A.GW.87.CAM2GG	.....A	7661
H2A.SN.85.ROD	.....A	7101
H2AB.CI.-.7312A	.....A	7640
H2B.CI.-.EHO	.....A	7617
H2B.CI.88.UC1	.....A	7630
H2B.GH.86.D2.05	.....A	7625
H2B.JF.01.RK20	.....A	6748
H2G.CI.-.ABT96	.....A	6989
H2U.FR.96.12034	.....A	7118
MAC.US.-.251.1A11	.....A	7572
MAC.US.-.251.32H.FU5	.....A	7574
MAC.US.-.251.BK28	.....A	7558
MAC.US.-.MM142	.....A	7071
MAC.US.-.SMM142B	.....A	7068
MAC.US.4937	.....A	6682
MAC.US.2065	.....A	6682
MAC.US.239.95112	.....A	6672
MAC.US.239.96114	.....A	6682
MAC.US.80035	.....A	6678
MAC.US.81035	.....A	6682
MAC.US.85013	.....A	6683
MAC.US.87082	.....A	6616
MAC.US.92050	.....A	6676
MAC.US.92077	.....A	6676
MAC.US.93057	.....A	6681
MAC.US.93062	.....A	6681
MAC.US.95058	.....A	6668
MAC.US.95086	.....A	6670
MAC.US.96016	.....A	6539
MAC.US.96020	.....A	6683
MAC.US.96072	.....A	6675
MAC.US.96081	.....A	6687
MAC.US.96093	.....A	6685
MAC.US.96123	.....A	6683
MAC.US.96135	.....A	6572
MAC.US.97009	.....A	6668
MAC.US.97074	.....A	6551
MAC.US.r80025	.....A	6539
MAC.US.r90131	.....A	6682
MNE.US.-.MNE027	.....A	7047
MNE.US.82.MNE_8	.....A	7044
SMM.SL.92.SL92B	.....A	7012
SMM.US.-.17BC1	.....A	7576
SMM.US.-.17BFR	.....A	7576
SMM.US.-.F236.H4	.....A	7526
SMM.US.-.H9	.....A	7053
SMM.US.-.PBJ14_15	.....A	7355
SMM.US.-.PBJA	.....A	7355
SMM.US.-.PBJ143	.....A	7068
SMM.US.-.PBJ_6P6	.....A	7548
SMM.US.-.PGM53	.....A	7516
SMM.US.-.SMB543	.....A	7568
STM.US.-.STM	.....A	7215



MAC US - 239	Env 9P120	MAC US - 251 1A11	MAC US - 251 32H_RU5	MAC US - 251 BK28	MAC US - MM142	MAC US - SMM142B	MAC US 4937	MAC US 2065	MAC US 239_95112	MAC US 239_96114	MAC US 80035	MAC US 81035	MAC US 85013	MAC US 87082	MAC US 92050	MAC US 92077	MAC US 93057	MAC US 93062	MAC US 95058	MAC US 95086	MAC US 96016	MAC US 96020	MAC US 96072	MAC US 96081	MAC US 96093	MAC US 96123	MAC US 96135	MAC US 97009	MAC US 97074	MAC US r80025	MAC US r90131	MNE US - MNE027	MNE US 82_MNE_8	SMM SL 92_SL92B	SMM US - 17BC1	SMM US - 17BFR	SMM US - F236_H4	SMM US - H9	SMM US - PB114_15	SMM US - PB1A	SMM US - PB1J_143	SMM US - PB1J_6P6	SMM US - PGM53	SMM US - SMB543	STM US - STM
MAC US - 239	Env 9P120	MAC US - 251 1A11	MAC US - 251 32H_RU5	MAC US - 251 BK28	MAC US - MM142	MAC US - SMM142B	MAC US 4937	MAC US 2065	MAC US 239_95112	MAC US 239_96114	MAC US 80035	MAC US 81035	MAC US 85013	MAC US 87082	MAC US 92050	MAC US 92077	MAC US 93057	MAC US 93062	MAC US 95058	MAC US 95086	MAC US 96016	MAC US 96020	MAC US 96072	MAC US 96081	MAC US 96093	MAC US 96123	MAC US 96135	MAC US 97009	MAC US 97074	MAC US r80025	MAC US r90131	MNE US - MNE027	MNE US 82_MNE_8	SMM SL 92_SL92B	SMM US - 17BC1	SMM US - 17BFR	SMM US - F236_H4	SMM US - H9	SMM US - PB114_15	SMM US - PB1A	SMM US - PB1J_143	SMM US - PB1J_6P6	SMM US - PGM53	SMM US - SMB543	STM US - STM
MAC US - 239	Env 9P120	MAC US - 251 1A11	MAC US - 251 32H_RU5	MAC US - 251 BK28	MAC US - MM142	MAC US - SMM142B	MAC US 4937	MAC US 2065	MAC US 239_95112	MAC US 239_96114	MAC US 80035	MAC US 81035	MAC US 85013	MAC US 87082	MAC US 92050	MAC US 92077	MAC US 93057	MAC US 93062	MAC US 95058	MAC US 95086	MAC US 96016	MAC US 96020	MAC US 96072	MAC US 96081	MAC US 96093	MAC US 96123	MAC US 96135	MAC US 97009	MAC US 97074	MAC US r80025	MAC US r90131	MNE US - MNE027	MNE US 82_MNE_8	SMM SL 92_SL92B	SMM US - 17BC1	SMM US - 17BFR	SMM US - F236_H4	SMM US - H9	SMM US - PB114_15	SMM US - PB1A	SMM US - PB1J_143	SMM US - PB1J_6P6	SMM US - PGM53	SMM US - SMB543	STM US - STM

HIV-2/SIV complete genomes

HIV-2/SIV complete genomes

MAC.US.-.239 Env 9P120 CAGGTACTGGG...ACTAACAACTACTGATATAAATCAATTTGAGG.....GCTCCTGGG...GGAGGAGATCCGGAAAGTTACTTTCATGTTGGACAAATTCGACAGGAGAGATTCTCTACTGTAAATG

H2A.CI.88.UC2 H2A.DE..BEN H2A.DE..PET1 H2A.GH..GHI H2A.GW..ISV H2A.GM.87.D194 H2A.GM.MCN13 H2A.GM.MCR35 H2A.GW..ALI H2A.GW..MDS H2A.GW.86.FG H2A.GW.87.CAM2GG H2A.SN.85.ROD H2AB.CI..7312A H2B.CI..EHO H2B.CI.88.UC1 H2B.GH.86.D205 H2B.JF.01.RK020 H2G.CI..ABT96 H2U.FR.96.12034 MAC.US..251.1A11 MAC.US..251.32H.FU5 MAC.US..251.BK28 MAC.US..MM142 MAC.US..SMM142B MAC.US.4937 MAC.US.2065 MAC.US.239.95112 MAC.US.239.96114 MAC.US.80035 MAC.US.81035 MAC.US.85013 MAC.US.87082 MAC.US.92050 MAC.US.92077 MAC.US.93057 MAC.US.93062 MAC.US.95058 MAC.US.95086 MAC.US.96016 MAC.US.96020 MAC.US.96072 MAC.US.96081 MAC.US.96093 MAC.US.96123 MAC.US.96135 MAC.US.97009 MAC.US.97074 MAC.US.r60025 MAC.US.r90131 MNE.US..MNE027 MNE.US.82.MNE\_8 SVM.SL.92.SL92B SVM.US..17BC1 SVM.US..17BFR SVM.US..F236.H4 SVM.US..H9 SVM.US..PBJ14\_15 SVM.US..PBJA SVM.US..PBJ143 SVM.US..PBJ\_6P6 SVM.US..PGM53 SVM.US..SMB543 STM.US..SITM

7815 Env 7851 7900 7844 7317 7311 7333 7333 7881 7374 7311 7906 7349 7882 7859 7872 7873 6990 7231 7357 7811 7813 7797 7310 7307 6921 6921 6911 6917 6921 6922 6855 6892 6915 6922 6920 6907 6778 6778 7286 7286 7251 7815 7815 7765 7292 7594 7307 7787 7755 7807 7454

---C-AA---C-TG---GAG---G---GTA---CTC---C-A-G-G-A-A---T---C---A---TT---C---  
---A-C-AA---TC-TG---A-GG---T---C---T---AAA---G---GCA---CTC---C---G-G-A-T---T---C---A---TT---C---  
---GA---C---G-C-AG-G---T---C---T---CAA---A---AAA---TTC---G-A---GGTA---A---T---C---A---TT---C---  
---AA---C---G-C-AA-G---T---C---T---AAA---A---AGA---CTC---C-A---GG-A-A---T---C---A---TT---C---  
---AA---C-TG-C-AA---T---C---T---A---A---A---AAA---ACTC---C-A---AG-A-AT---T---C---A---TT---C---  
---CGGA---A-TG---A-GA---T---C---T---A---A---A---ATA---TTC---C-A---AG-A-A---T---C---A---TT---C---  
---AA---C-TG-A-AA-G---T---C---T---A---A---A---AAG---CTC---C-A-G-G-A-A---T---C---A---TT---C---  
---AA---C-TG-AA-AA-G---T---C---T---A---AAA---A---AGA---CTC---G-A---GGTA---AT---T---C---A---TT---C---  
---AA---C-TG-C-AA-CC---T---C---T---A---AAA---A---AGA---CTC---G-A---GGTA---AT---T---C---A---TT---C---  
---AG---C-GT---C-TAACA---T---T---CC---C---A---A---AAA---CTC---C-A---AG-A-A---T---C---A---TT---C---  
---A---AA---GAAC---GG-G-CGC---A-G---T---T---AA---A---A---GAGA---CTC---C-A---AG-A-A---T---C---A---TT---C---  
---AA---C---C---A---C---TACGG---T---CC---C---AA---A---A---AGA---TTC---C-A---AG-A-A---T---C---A---TT---C---  
---GA---C---C-TG-C-AAAGG---T---T---GC---TG---A---A---A---AAA---CTC---C-A---AG-A-A---T---C---A---TT---C---  
---AA---C---C-TG-C-AAAGG---T---T---CC---T---A---AAA---A---ACA---CTC---C-A---AG-A-A---T---C---A---TT---C---  
---A---T---A---CA---TCTCAC---G-A-GG---AG---A---A---AG-AC---CGAGAA---CTC---A---A---GA---AT---T---C---T---G---A---TT---  
---AA---A---T---C---C---G-GG---A-GA---GTA---GG---CTGGCA---TTC---C-A-G-G-GACAT---T---C---T---G---A---TT---  
---AA---GGTG---A---A---TCACA---GCG---A-G---AGTA---TCA---AA---A---AAA---TTC---A---ACA---A---AT---T---C---A---TT---  
---A---A---A---G---C---CA---A---A---G---AG---A---A---AG-ACTCGCAA---CTC---A---GA---AT---T---C---T---G---A---TT---  
---C---AA---A---A---TG-C-AA-G-M-A-CC---T---A---A---A---A---GAA---TTC---A---A---AG---A---A---T---G---A---TT---  
---CA---T---C---G---T---AG-C-G-A---C-G-A---AA---A---C---T---T---A---G-A-AA---T---T---C---A---TT---G---  
---MAC.US..251.1A11  
---MAC.US..251.32H.FU5  
---MAC.US..251.BK28  
---MAC.US..MM142  
---MAC.US..SMM142B  
---MAC.US.4937  
---MAC.US.2065  
---MAC.US.239.95112  
---MAC.US.239.96114  
---MAC.US.80035  
---MAC.US.81035  
---MAC.US.85013  
---MAC.US.87082  
---MAC.US.92050  
---MAC.US.92077  
---MAC.US.93057  
---MAC.US.93062  
---MAC.US.95058  
---MAC.US.95086  
---MAC.US.96016  
---MAC.US.96020  
---MAC.US.96072  
---MAC.US.96081  
---MAC.US.96093  
---MAC.US.96123  
---MAC.US.96135  
---MAC.US.97009  
---MAC.US.97074  
---MAC.US.r60025  
---MAC.US.r90131  
---MNE.US..MNE027  
---MNE.US.82.MNE\_8  
---SVM.SL.92.SL92B  
---SVM.US..17BC1  
---SVM.US..17BFR  
---SVM.US..F236.H4  
---SVM.US..H9  
---SVM.US..PBJ14\_15  
---SVM.US..PBJA  
---SVM.US..PBJ143  
---SVM.US..PBJ\_6P6  
---SVM.US..PGM53  
---SVM.US..SMB543  
---STM.US..SITM

MAC.US.-.239  
Env 9P120  
H2A.CI.88.UC2  
H2A.DE.-.BEN  
H2A.DE.-.PET1  
H2A.GH.-.GHI  
H2A.GW.-.ISV  
H2A.GM.87.D1.94  
H2A.GM.MCN13  
H2A.GM.MCR35  
H2A.GW.-.ALI  
H2A.GW.-.MDS  
H2A.GW.86.FG  
H2A.GW.87.CAM2CG  
H2A.GW.85.ROD  
H2AB.CI.-.7312A  
H2B.CI.-.EHO  
H2B.CI.88.UC1  
H2B.GH.86.D2.05  
H2B.JF.01.RK020  
H2G.CI.-.ABT96  
H2U.FR.96.12034  
MAC.US.-.251.1A11  
MAC.US.-.251.32H.PU5  
MAC.US.-.251.BK28  
MAC.US.-.MM142  
MAC.US.-.SMM142B  
MAC.US.4937  
MAC.US.2065  
MAC.US.239.95112  
MAC.US.239.96114  
MAC.US.80035  
MAC.US.81035  
MAC.US.85013  
MAC.US.87082  
MAC.US.92050  
MAC.US.92077  
MAC.US.93057  
MAC.US.93062  
MAC.US.95058  
MAC.US.95086  
MAC.US.96016  
MAC.US.96020  
MAC.US.96072  
MAC.US.96081  
MAC.US.96093  
MAC.US.96123  
MAC.US.96135  
MAC.US.97009  
MAC.US.97074  
MAC.US.r60025  
MAC.US.r90131  
MNE.US.-.MNE027  
MNE.US.82.MNE\_8  
SMM.SL.92.SL92B  
SMM.US.-.17BC1  
SMM.US.-.17BFR  
SMM.US.-.F236.H4  
SMM.US.-.H9  
SMM.US.-.PBJ14\_15  
SMM.US.-.PBJ7A  
SMM.US.-.PBJ\_143  
SMM.US.-.PBJ\_6P6  
SMM.US.-.PGM53  
SMM.US.-.SMB543  
STM.US.-.STM  
AAATGGTTCTAAATTTGGTAGAATAGGAAATACAGCTAAC.....CAGAAGCCAAAGGAAGCAAGCATTAAAGGAAATTTACGTCCATATTAGACAAATAATCAACACTTGGCATA  
N\_W\_F\_L\_I\_N\_W\_V\_E\_D\_R\_N\_T\_A\_N.....\_Q\_K\_P\_K\_E\_Q\_H\_K\_R\_N\_Y\_V\_P\_C\_H\_I\_R\_Q\_I\_I\_N\_T\_W\_H  
C-C-C-C-G-GA-C-C-GC-C-C-T-C-C-A-G-G-G-T-T-C  
C-C-C-C-C-A-CG-C-A-ACGG-T-T-C-A-A-G-G-T-T-C  
C-C-C-C-A-C-GCACAC-AC-G-T-T-C-A-G-A-G-T-T-C  
C-C-C-T-A-C-A-CGGCTCAC-G-C-GCAC-T-T-C-A-G-T-T-C  
C-C-C-A-A-CG-ACCAA-GA-CNT-C-T-G-C-A-G-G-T-T-C  
C-C-C-A-A-CACACCG-T-T-A-G-C-A-A-T-T-C  
C-C-C-A-A-CACACCG-T-T-A-G-C-A-A-T-T-C  
C-C-C-G-A-C-AA-CGGCTCAGG-A-C-GCAC-T-T-A-G-C-A-A-G-T-T-C  
C-C-C-GA-C-C-GATAAGCCA-TGGCAC-T-T-A-C-A-A-G-T-T-C  
C-C-C-GA-C-CGGCTCAG-A-T-GC-C-T-T-C-A-G-A-G-T-T-C  
C-C-C-A-AAAC-ATA-G-CA-GC-C-T-T-C-A-C-A-G-T-T-C  
C-C-C-GA-A-CACACCG-T-T-T-C-A-G-C-A-A-G-T-T-C  
C-C-C-A-C-A-CGGCTCAG-CA.....C-GCAC-T-T-C-G-C-A-A-T-T-C  
C-TT-C-T-C-A-C-GGGCTC-G.....A-T-T-C-T-C-C-C-G-G-T-T-C  
CC-TT-C-G-GA-C-A-CAGTA-A-CT.....C-G-A-T-T-A-G-C-C-C-A-G-G-C  
C-C-C-C-GA-C-AA-CA-ATA-A-CT.....CGG-A-T-T-C-G-C-C-C-G-G-T-T-C  
C-C-C-A-G-C-A-TGA-CT.....TA-CC-GA-A-G-C-C-T-T-A-C-C-G-G-T-T-C  
CA--C-C-A-C-TC-TG-AGGGA.....-A-C-T--G--GAGA--C-T--T-C--G--GG--T--A--  
T--G-GT-A-A.....G-G-G-A.....A.....  
G-G-GT-A-C.....G-G-G-G.....  
G-CT-A-C.....G-CT-A-A.....A  
G-CT-A-C.....G-CT-A-A.....YTA-R-RMM-K-MW  
A.....Y.....  
A.....T.....Y-M.....  
CCA-AG-AAC-G.....T.....C-R-G.....  
A.....Y.....T-MAA-T.....  
A.....Y.....  
A.....Y.....  
Y-A.....T.....Y  
A.....T.....T  
A.....T.....G.....A-A.....  
A.....Y.....  
A.....ACTACC.....ACTACC.....C  
A-A-CTGA-GGA.....CTGA-GGA.....G  
G--GAGC-G-CCAAGTGGCAACT--A-CCAA--T-A-T-C-C-C-G--T-T-G--C  
G-C-AG-CCA-AAAGTGGCAGATGGAAACAA-A-TAGG-A-G-A-G-G-AA-T-T-7895  
Y-TA-A-AT-G-TCT..AGATGGACAAGT-A-C-AG-A-GAT-CC-G-AA-T-R-7930  
TAC-A-AT-G-TCT..AGATGGACAAGT-A-C-AG-A-G-G-A-T-T-G-C-7935  
A-TAC-A-AT-G-TCT..AGATGGACAAGT-A-C-AG-A-G-G-A-T-T-G-C-7419  
Y-TA-A-AT-G-TCT..AGATGGACAAGT-A-C-AG-A-GAT-CC-G-AA-T-R-7434  
TAC-A-AT-G-TCT..AGATGGACAAGT-A-C-AG-A-G-G-A-T-T-G-C-7914  
A-C-T-AGTCTCTAATGGACAA-A-CAAAGCA-CG-AA-G-A-C-T-7885  
G-C-AG-CCA-AA-GTACAGATGGAAACAA-A-AAGCCA-G-A-G-A-T-7937  
A-C-A-G-A-G-T-AG-AATCAGAGATTGGAACA-A-CAA--T-A--C-C-C--T-T-A--7584

HIV-2/SIV  
complete genomes



Rev responsive element secondary structure in RNA, see Charpentier, J Mol Evol 266:950-956 (1997) see HIV-1 complete genome annotation for stem-loop positions

Table with columns: Strain Name (e.g., MAC.US., H2A.CI.), Genomic Position (e.g., 239, 8181), and Nucleotide Sequence (e.g., A E V A E L Y R L E L G D Y K L V E I T P I G L A P T D T K R Y T T G G T S R N K R G). The table lists 100 different HIV-2/SIVsmm strains and their corresponding genomic coordinates and sequences.

HIV-2/SIV complete genomes





HIV-2/SIV  
complete genomes

Accession	Strain	Genomic Coordinates
MAC.US.-.239	Env gp41	TAGACAAGTCTGCCACACTACTGTACCATGG.....P.N.A.S.L.T.P.K.W.N.N.E.T.T.W.Q.E.W.E.R.K.V.D.F.L.E.N.I.T
H2A.CI.88.UC2		..G-G-T.....GT-..ACTC-T-T-GA-..AT-A-G-A-AAA-C-A-CCG-A-C-A-G-C-..C-GT
H2A.DE.-.BEN		..G-G-T.....GT-..ACTC-T-T-G-..TG-C-A-..G-A-..AA-C-A-CCG-A-C-A-G-C-..C-GT
H2A.DE.-.PET2		..G-G-T.....GT-..AAC-CA-GT-..TG-T-..CAT-G-A-..A-A-C-AACCCG-GA-C-A-G-C-..C-GT
H2A.GH.-.GHI		..G-G-T.....GT-..ATTC-T-T-G-..TG-C-..AT-A-G-A-..AA-C-A-CCG-A-C-A-G-C-..C-GT
H2A.GM.-.ISV		..G-G-T.....GT-..AC-CCT-..TG-..CAT-A-..A-AC-AA-CCG-A-C-A-G-C-..C-GT
H2A.GM.87.DI94		..G-G-T.....GT-..ACTCCT-..TG-C-..AT-A-G-A-..AAA-CGA-CC-..A-C-A-G-C-..C-GT
H2A.GM.MCN13		..G-G-T.....GT-..AT-CCT-..G-TG-..AT-A-G-A-..AG-C-AA-CCG-GA-C-..G-C-..C-GT
H2A.GM.MCR35		..G-G-T.....GT-..AT-CCT-..G-TG-..AT-A-G-A-..AG-C-AA-CCG-GA-C-..G-C-..C-GT
H2A.GM.-.ALI		..G-G-T.....GT-..AACTCCT-A-TG-T-..G-..CAT-G-A-..A-A-C-CCGT-A-C-A-G-C-..C-GT
H2A.GM.-.MDS		..G-G-T.....GT-..AGTTCCT-GA-TG-T-..G-A-..AT-G-A-..A-..CCG-A-C-..G-C-..C-GT
H2A.GM.86.FG		..G-G-T.....GT-..AT-CCT-G-..TG-T-..AT-G-A-..A-..A-..CCG-A-C-..G-C-..C-GT
H2A.GM.87.CAM2CG		..G-G-T.....GT-..AGTC-T-..TG-T-..AT-A-G-A-..A-..A-..CCG-A-C-..G-C-..C-GT
H2A.SN.85.ROD		..G-TT-..ATTCT-G-..TG-C-..G-..AT-G-A-..AAA-C-A-CCG-A-C-..G-C-..C-GT
H2AB.CI.-.7312A		..G-TT-..AC-CT-G-..TG-T-..G-..CAT-T-..G-..C-A-..AAA-C-AA-CCG-GA-C-..G-C-..C-GT
H2B.CI.-.EHO		..G-TT-..A-TCC-T-AG-..G-C-..T-..CAT-A-..C-A-..A-GC-A-CCG-..T-C-..C-GT
H2B.CI.88.UC1		..G-G-T-..G-..A-C-C-..G-C-..G-A-..CAT-A-..C-..AAAGCA-CA-T-..T-C-..C-GT
H2B.GH.86.D205		..G-G-T-..G-..A-CC-C-..T-..T-..CAT-A-..C-..AAAGCA-CC-T-..T-C-..C-GT
H2B.JF.01.KK020		..G-G-T-..G-..CAA-A-T-C-T-..C-..G-..CAT-A-..GC-..AACC-CCG-..T-..C-..C-GT
H2G.CI.-.ABT96		..G-G-T-..T-..GATGCCCTGGTG-T-..AA-..CAT-GGAG-..C-A-..T-..AT-A-..AAAGC-A-CA-..T-..G-C-..C-GT
H2U.FR.96.12034		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.-.251.1A11		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.-.251.32H.PU5		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.-.251.BK28		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.-.MML42		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.-.SMM142B		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.1937		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.2065		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.239.95112		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.239.96114		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.80035		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.81035		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.85013		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.87082		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.92050		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.92077		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.93057		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.93062		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.95058		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.95086		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.96016		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.96020		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.96072		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.96081		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.96093		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.96123		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.96135		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.97009		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.97074		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.r80025		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MAC.US.r90131		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MNE.US.-.MNE027		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
MNE.US.82.MNE_8		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.SL.92.SL92B		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.US.-.17BC1		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.US.-.17BFR		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.US.-.F236.H4		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.US.-.H9		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.US.-.PBJ14_15		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.US.-.PBJA		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.US.-.PBJ143		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.US.-.PBJ16P6		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.US.-.PGM53		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
SMM.US.-.SMB543		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT
STM.US.-.STM		..G-G-T-..G-..AT-..C-AC-CAT-..T-..T-..G-T-..AT-..G-..A-..GA-..-..G-..C-..C-GT





HIV-2/SIV  
complete genomes

Tat\_Rev intron end // Tat\_Rev exon 2

TTTATATAGTGTAGGAGTAATCTGTTAAGAAATAGTGTATAGTCAAAATGCTAGTCAAGTAAAGCCAGGGGTATAGCCAGTGTCTTCCACCCCTTATTTCCAGCAGCCATATCCA  
V\_Y\_I\_V\_V\_G\_V\_I\_L\_L\_R\_I\_V\_I\_I\_Y\_I\_V\_Q\_M\_L\_A\_K\_L\_R\_Q\_G\_Y\_R\_P\_V\_F\_S\_S\_P\_P\_S\_Y\_F\_Q\_Q\_I\_H\_I\_Q\_Env 8816

Strain	Genomic Region	Sequence	Position
MAC.US.-.239	Tat exon 2	CA-A-G	8825
Env gp41	Env	CA-A-G	8816
Tat exon 2	Tat	CA-A-G	8816
Rev exon 2	Rev	CA-A-G	8816
H2A.CI.88.UC2	H2A	CA-A-G	8816
H2A.DE.-.BEN	H2A	CA-A-G	8816
H2A.DE.-.PE12	H2A	CA-A-G	8816
H2A.GH.-.GH1	H2A	CA-A-G	8816
H2A.GM.-.ISY	H2A	CA-A-G	8816
H2A.GM.87.D194	H2A	CA-A-G	8816
H2A.GM.MCN13	H2A	CA-A-G	8816
H2A.GM.MCR35	H2A	CA-A-G	8816
H2A.GM.-.ALI	H2A	CA-A-G	8816
H2A.GM.-.MDS	H2A	CA-A-G	8816
H2A.GM.86.FG	H2A	CA-A-G	8816
H2A.GM.87.CAM2CG	H2A	CA-A-G	8816
H2A.SN.85.ROD	H2A	CA-A-G	8816
H2AB.CI.-.7312A	H2A	CA-A-G	8816
H2B.CI.-.EHO	H2B	CA-A-G	8816
H2B.CI.88.UC1	H2B	CA-A-G	8816
H2B.GH.86.D205	H2B	CA-A-G	8816
H2B.JP.01.KR020	H2B	CA-A-G	8816
H2G.CI.-.ABT96	H2G	CA-A-G	8816
H2U.FR.96.12034	H2U	CA-A-G	8816
MAC.US.-.251.1A11	MAC	CA-A-G	8816
MAC.US.-.251.32H.PJ5	MAC	CA-A-G	8816
MAC.US.-.251.BK28	MAC	CA-A-G	8816
MAC.US.-.MM142	MAC	CA-A-G	8816
MAC.US.-.SMM142B	MAC	CA-A-G	8816
MAC.US.1937	MAC	CA-A-G	8816
MAC.US.2065	MAC	CA-A-G	8816
MAC.US.239.95112	MAC	CA-A-G	8816
MAC.US.239.96114	MAC	CA-A-G	8816
MAC.US.80035	MAC	CA-A-G	8816
MAC.US.81035	MAC	CA-A-G	8816
MAC.US.85013	MAC	CA-A-G	8816
MAC.US.87082	MAC	CA-A-G	8816
MAC.US.92050	MAC	CA-A-G	8816
MAC.US.92077	MAC	CA-A-G	8816
MAC.US.93057	MAC	CA-A-G	8816
MAC.US.93062	MAC	CA-A-G	8816
MAC.US.95058	MAC	CA-A-G	8816
MAC.US.95086	MAC	CA-A-G	8816
MAC.US.96016	MAC	CA-A-G	8816
MAC.US.96020	MAC	CA-A-G	8816
MAC.US.96072	MAC	CA-A-G	8816
MAC.US.96081	MAC	CA-A-G	8816
MAC.US.96093	MAC	CA-A-G	8816
MAC.US.96123	MAC	CA-A-G	8816
MAC.US.96135	MAC	CA-A-G	8816
MAC.US.97009	MAC	CA-A-G	8816
MAC.US.97074	MAC	CA-A-G	8816
MAC.US.+80025	MAC	CA-A-G	8816
MAC.US.+90131	MAC	CA-A-G	8816
MNE.US.-.MNE027	MNE	CA-A-G	8816
MNE.US.82.MNE_8	MNE	CA-A-G	8816
SMM.SL.92.SL92B	SMM	CA-A-G	8816
SMM.US.-.17ECl	SMM	CA-A-G	8816
SMM.US.-.17EFR	SMM	CA-A-G	8816
SMM.US.-.F236_H4	SMM	CA-A-G	8816
SMM.US.-.H9	SMM	CA-A-G	8816
SMM.US.-.PRJ14_15	SMM	CA-A-G	8816
SMM.US.-.PRJ143	SMM	CA-A-G	8816
SMM.US.-.PRJ_6P6	SMM	CA-A-G	8816
SMM.US.-.PGM53	SMM	CA-A-G	8816
SMM.US.-.SMB543	SMM	CA-A-G	8816
STM.US.-.STM	STM	CA-A-G	8816

Accession	Strain	Genomic Region	Sequence	Position
MAC.US.-.239	Env gp41	Tat exon 2	ACAGGACCGGCACTGCCAACAGAGGCGCAAGAAAGAGACGCGGTGAGAGGCGGTGGCAACAGCTCCTGGCTTGGCAGATAGATAATATTCATTTCTGATCCGCCAACTGATACGCTTTGACT	8946
Tat Rev	env	env	Q D P A L P T R E G K E R D G G G N S S W P W Q I E Y I H F L I R Q L I R L L L T	8946
H2A.CI.88.UC2	Rev exon 2	Rev	N R T R H C Q P E K A K K E R T V E K A V A T A P G L G R *	8955
H2A.DE..BEN			TACA---G-G-A--GG-AC--AA-C-G--CC--C-C-A--T-GA-T--C-A-C-C-A-GC--A-TG--CT--T-	8955
H2A.DE..PET1			CA---G-G-A--G-AC--A-C-GA--TC--GC-A-A--TT-GA-TG--CA--A-C--G-G-G--A--T--CT--	8945
H2A.GH..GHI1			CA---TG-A-A-GA--AA-C-CGA--CC--A-CA-AT--AG--G--CA--A-C--CA--A--T--CT--	8421
H2A.GM..ISY			CAC---G-G-A--G-AC--A-C-GA--ACA--C-A-A--TT-GA-TG-A--G--A--A--A--T--CT--	8421
H2A.GM.87.D194			CAC---TG-A-A-GA--AA-C-GA--T--GA-C-A--T--A-G--A--C--A--A--A--T--CT--	8415
H2A.GM.MCN13			CAC---AG-G-A--G-AC--AA-C-GA--CC--C-A-A--TTT-T-G--TG--CAC--A-C-C-A--A--T--G--C	8428
H2A.GM.MCR35			CA---TG-A-A-G--AA-C-GA--T--A-CAA-T--AG--TG-A--C--AG--A--A--G--T--G--C	8428
H2A.GH..ALI			CA---A-A-A--G--AA-C-GA--T--G-CAA-T--GG--A-TG--C--C-C-C--T-A--TG--AGCT--	8985
H2A.GM.86.FG			CA---G-A-A--GA--AA-C-GA--T--GCAA--AG--A--T--C--C--C--C--C--T-G--T--C	8478
H2A.GM.87.CHM2CG			CA---A-A-A--G--AA-C-GA--T--AGCAA--AG--A--T--C--C--C--C--C--T-G--T--C	8412
H2A.SN.85.ROD			CA---G-G-A--G-AC--AA-C-GA--T--AGCAA--AG--A--A--C--C--C--C--C--T--C--C	9013
H2AB.CI.-.7312A			CA---A-A-A--G--AC--AA-C-GA--GA--A-C-A--G--T--A--T--C--C--C--C--C--A--T--G--GGAA--T-	8992
H2B.CI.-.EHO			CA---G-G-A--G-AC--AA-C-GA--GA--A-CAA--AG--T--A--T--C--C--C--C--C--T--GGA--T-	8963
H2B.CI.88.UC1			CA-AC--G-G-A--G-AC--AA-C-GAC-A--A-C-AA-G-CTT--A--T--C--C--C--C--C--T--GGAA--T-	8988
H2B.GH.86.D205			CA---G-G-A--G-AC--AA-C-GA--GA--A-C-A--G-A-T--A--A--C--C--T--AC-G--G--GGAA--A-T-	8977
H2B.JP.01.KR020			CA---G-A-G-G--G--C--AA-C--GA--GA--C--A--AG-A-T--A--A--C--C--C--C--C--T--GGAA--A-T-	8094
H2G.CI.-.ABT96			CA---A-A-W--A--AA-T--G--AA--A-CAAA--T--A--T--A--T--M--G--AGGAA--	8374
H2U.FR.96.12034			--G--A-A-A--A--G-AA-T--GA-G-C--CA--T--A--T--AG--A--A--T--G--	8485
MAC.US.-.251.1A11			MAC.US.-.251.1A11	8942
MAC.US.-.251.32H.PJ5			MAC.US.-.251.32H.PJ5	8944
MAC.US.-.251.BK28			MAC.US.-.251.BK28	8928
MAC.US.-.SMM142B			MAC.US.-.SMM142B	8441
MAC.US.1937			MAC.US.1937	8438
MAC.US.2065			MAC.US.2065	8054
MAC.US.239.95112			MAC.US.239.95112	8052
MAC.US.239.96114			MAC.US.239.96114	8042
MAC.US.80035			MAC.US.80035	8048
MAC.US.81035			MAC.US.81035	8052
MAC.US.85013			MAC.US.85013	8053
MAC.US.87082			MAC.US.87082	7986
MAC.US.92050			MAC.US.92050	8023
MAC.US.92077			MAC.US.92077	8046
MAC.US.93057			MAC.US.93057	8053
MAC.US.93062			MAC.US.93062	8051
MAC.US.95058			MAC.US.95058	8020
MAC.US.95086			MAC.US.95086	8040
MAC.US.96016			MAC.US.96016	7909
MAC.US.96020			MAC.US.96020	8053
MAC.US.96072			MAC.US.96072	8045
MAC.US.96081			MAC.US.96081	8057
MAC.US.96093			MAC.US.96093	8055
MAC.US.96123			MAC.US.96123	7942
MAC.US.96135			MAC.US.96135	8038
MAC.US.97009			MAC.US.97009	7921
MAC.US.97074			MAC.US.97074	7915
MAC.US.+80025			MAC.US.+80025	7909
MAC.US.+90131			MAC.US.+90131	8052
MNE.US.-.MNE027			MNE.US.-.MNE027	8423
MNE.US.82.MNE_8			MNE.US.82.MNE_8	8420
SMM.US.-.17ECL			SMM.US.-.17ECL	8394
SMM.US.-.17EFL			SMM.US.-.17EFL	8946
SMM.US.-.F236_H4			SMM.US.-.F236_H4	8911
SMM.US.-.H9			SMM.US.-.H9	8435
SMM.US.-.PBJ14_15			SMM.US.-.PBJ14_15	8738
SMM.US.-.PBJ_143			SMM.US.-.PBJ_143	8737
SMM.US.-.PBJ_6P6			SMM.US.-.PBJ_6P6	8450
SMM.US.-.PGM53			SMM.US.-.PGM53	8930
SMM.US.-.SMB543			SMM.US.-.SMB543	8898
STW.US.-.STW			STW.US.-.STW	8597













MAC.US..-239  
Nef.....CATTTATTAAATGATCCAGCTCAGCTCAAACTTCCAGTGGGAT  
9688 Nef  
H2A.CI.88.UC2  
9685 .....H\_Y\_L\_M\_H\_P\_A\_Q\_T\_S\_Q\_W\_D  
H2A.DE..BEN  
9731 .....A-C-GC-C-A-A-AAG-AGA-AT-  
H2A.DE..PEI2  
9678 .....A-C-GC-G-A-C-A-AAG-AGA-AT-  
H2A.GH..GHI  
9148 .....A-C-GC-C-A-C-A-AAG-GG-CT-  
H2A.GM..ISV  
9130 .....A-C-C-CA-C-A-AAG-AGA-AT-  
H2A.GM.87.D194  
9145 .....TC-GC-CT-A-GTAA-AGA-AT-  
H2A.GM.MCN13  
9170 .....A-C-GC-G-A-C-A-AAG-AGA-AT-  
H2A.GM.MCR35  
9080 .....A-C-GC-C-A-C-A-AAG-AGA-AT-  
H2A.GM..ALI  
9730 .....C-GCC-GC-A-C-TA-AAG-AG-CAT-  
H2A.GM..MDS  
9196 .....C-GC-GG-A-TAAG-A-TT-  
H2A.GM.86.FG  
9007 .....A-C-GC-GG-A-TAAG-A-TT-  
H2A.GM.87.CAM2CG  
9746 .....C-GC-T-A-C-A-AAG-AG-CAT-  
H2A.GM.85.ROD  
9168 .....C-GC-G-A-A-AAG-A-TT-  
H2AB.CI..7312A  
9650 .....-ACC.....-G-C-G-C-A-G-CG-GCA-  
H2B.CI..EHO  
9618 .....-C-G-AA-A-GAT-CA-AC-G-C-G-GCA-  
H2B.CI.88.UC1  
9643 .....-G-C-G-A-G-A-C-A-G-C-GC-A-G-C-TTCA-  
H2B.GH.86.D205  
9647 .....GA-CG-AAACC.....AG-G-C-GG-C-A-G-TC-TTCA-  
H2B.JP.01.KR020  
8749 .....-G--RACC.....-GCC--C-G-A-G-TC-TCA-  
H2G.CI..ABT96  
9116 .....A-CA-RAACC.....AG-G-C-G-C-A-GG-C-T-CA-  
H2U.FR.96.12034  
9212 .....-C--ACT.....-GC-GG-A-A-A-AG-CA-  
MAC.US..251.1A11  
9684 .....-AG.....-TG--C-GG-GG-T--A-G-CAG-TGCCGA--G  
MAC.US..251.32H.FU5  
9686 .....AG.....G.....A  
MAC.US..251.BK28  
9670 .....AG.....G.....A  
MAC.US..MM142  
9180 .....-G-C.....-A  
MAC.US..SMM142B  
9177 .....-G-C.....-A  
MAC.US.4937  
8796 .....-G-A.....-A  
MAC.US.2065  
8794 .....-G--R-R.....-A  
MAC.US.239.95112  
8784 .....-G.....-R-R-R.....-A  
MAC.US.239.96114  
8790 .....R-A.....R  
MAC.US.80035  
8794 .....R-A.....R  
MAC.US.81035  
8795 .....A.....A  
MAC.US.87082  
8728 .....R.....R  
MAC.US.92050  
8765 .....-R.....-R  
MAC.US.92077  
8788 .....-G.....-G  
MAC.US.93057  
8795 .....R.....R  
MAC.US.93062  
8793 .....R-RR.....Y  
MAC.US.95058  
8782 .....-AG.....-M-  
MAC.US.95086  
8651 .....R.....R  
MAC.US.96016  
8795 .....R.....R  
MAC.US.96020  
8787 .....R.....R  
MAC.US.96072  
8799 .....AG.....AG  
MAC.US.96081  
8797 .....AG.....M-R.....-C  
MAC.US.96123  
8795 .....AG.....M-R.....Y  
MAC.US.96135  
8684 .....-W.....-W  
MAC.US.97009  
8663 .....R.....R  
MAC.US.97074  
8657 .....R.....R  
MAC.US.r80025  
8651 .....G.....G  
MAC.US.r90131  
8794 .....G.....G  
MNE.US..MNE027  
9165 .....A.....A  
MNE.US.82.MNE\_8  
9162 .....A.....A  
SMM.SL.92.SL92B  
9139 .....GC-GG-A.....GC-GG-A--C-G-A-AT--CAITCA  
SMM.US..17BC1  
9688 .....GC-GG-A.....GC-GG-A--C-G-A-AT--CAITCA  
SMM.US..17BFR  
9688 .....GC-GG-A.....GC-GG-A--C-G-A-AT--CAITCA  
SMM.US..F236.H4  
9653 .....GC-GG-A.....GC-GG-A--C-G-A-AT--CAITCA  
SMM.US..H9  
9171 .....-GC-GG-A.....-GC-GG-A--C-G-A-AT--CAITCA  
SMM.US..PBJ114\_15  
9474 .....C-G-A.....C-G-A--T  
SMM.US..PBJA  
9473 .....C-G-A.....C-G-A--T  
SMM.US..PBJ143  
9186 .....-GC-G.....-GC-G--A--T  
SMM.US..PBJ\_6P6  
9666 .....C-G.....C-G--A--T  
SMM.US..PGM53  
9631 .....-A-C-ACA.....-A-C-ACA--G-TA--  
SMM.US..SMB543  
9695 .....-GCC-GG-A.....GCC-GG-A--C-G-CAT--  
STM.US..-STM  
9342 .....-C-GG.....-C-GG--A-G-ACAT--







HIV-2/SIV complete genomes

3' LTR U3 region end /  
 3' LTR R repeat start /

MAC.US.-.239	GGGGATGTTACGGGG..AGGTACTGGGGAGGCGCGTGGGAAACGCC..ACTTTCTTGTATGT...ATAAATAATACACTGC.ATTTCGCTCTGTA.TTCAGTCGCTCTGC	9990
H2A.CI.88.UC2	.....C-A-CAA-GG--G-AT	10024
H2A.DE.-.BEN	.....C-A-CAA-GG--G-AT	10070
H2A.DE.-.PE12	.....C-A-CAA-GG--G-AT	10005
H2A.GH.-.GHI1	.....C-A-CAA-GG--G-AT	9480
H2A.GW.-.ISY	.....C-A-CAA-GG--G-AT	9468
H2A.GW.87.D194	.....C-A-CAA-GG--G-AT	9472
H2A.GW.MCR13	.....C-A-CAA-GG--G-AT	9508
H2A.GW.-.ALI	.....C-A-CAA-GG--G-AT	9383
H2A.GW.-.MDS	.....C-A-CAA-GG--G-AT	10065
H2A.GW.86.FC	.....C-A-CAA-GG--G-AT	9525
H2A.GW.87.CAM2CG	.....C-A-CAA-GG--G-AT	9264
H2A.SN.85.ROD	.....C-A-CAA-GG--G-AT	10084
H2AB.CI.-.7312A	.....C-A-A-T-GG--G-AT	9958
H2B.CI.-.EHO	.....C-A-A-T-GG--G-AT	9960
H2B.CI.88.UC1	.....C-A-A-T-GG--G-AT	9985
H2B.GH.86.D205	.....C-A-A-T-GG--G-AT	9989
H2B.JP.01.KR020	.....C-A-A-T-GG--G-AT	9090
H2G.CI.-.ABT96	.....T--C--A-A--GAG-TACTAT	9418
H2U.FR.96.12034	.....A-GA-G--ACCA-G.GA-G-GCAA--GA-GAG-CA-G	9519
MAC.US.-.251_IA11	.....A-----A	9985
MAC.US.-.251_32H_PJ5	.....A-----A	9988
MAC.US.-.251_BK28	.....A-----A	9960
MAC.US.-.MM142	.....T-----T	9482
MAC.US.-.SMM142B	.....C-T-----C-T	9479
MAC.US.1937	.....C-T-----C-T	9055
MAC.US.2065	.....C-T-----C-T	9054
MAC.US.239_95112	.....C-T-----C-T	9044
MAC.US.239_96114	.....C-T-----C-T	9049
MAC.US.80035	.....C-T-----C-T	9054
MAC.US.81035	.....C-T-----C-T	9054
MAC.US.85013	.....C-T-----C-T	9055
MAC.US.87082	.....C-T-----C-T	9028
MAC.US.92050	.....C-T-----C-T	9048
MAC.US.92077	.....C-T-----C-T	9055
MAC.US.93057	.....C-T-----C-T	9052
MAC.US.93062	.....C-T-----C-T	9021
MAC.US.95058	.....C-T-----C-T	9042
MAC.US.95086	.....C-T-----C-T	8910
MAC.US.96016	.....C-T-----C-T	9054
MAC.US.96020	.....C-T-----C-T	9047
MAC.US.96072	.....C-T-----C-T	9057
MAC.US.96081	.....C-T-----C-T	9045
MAC.US.96093	.....C-T-----C-T	9054
MAC.US.96123	.....C-T-----C-T	8944
MAC.US.96135	.....C-T-----C-T	9039
MAC.US.97009	.....C-T-----C-T	8867
MAC.US.97074	.....C-T-----C-T	8859
MAC.US.+80025	.....C-T-----C-T	8910
MAC.US.+90131	.....C-T-----C-T	9053
MNE.US.-.MNE027	.....C-T-----C-T	9467
MNE.US.82.MNE_8	.....C-T-----C-T	9464
SMM.SI.92.SI92B	.....G--AG--ACAA-----AGTCT--C-G-GGAAAG--AGTCT--C-AAAACCTC--AGT-----AC-C--TT-GC-----A	9449
SMM.US.-.17BC1	.....C-----C	9990
SMM.US.-.17BFR	.....C-----C	9990
SMM.US.-.F236_H4	.....C-----C	9952
SMM.US.-.H9	.....C-----C	9473
SMM.US.-.PBJ14_15	.....C-----C	9798
SMM.US.-.PBJA_8	.....C-----C	9797
SMM.US.-.PBJ_143	.....C-----C	9510
SMM.US.-.PBJ_6P6	.....C-----C	9990
SMM.US.-.PGM53	.....C-----C	9933
SMM.US.-.SMB543	.....C-----C	9999
STM.US.-.STM	.....C-A-A-A-G-----TT--A--TC-----CA--C--T-A-A-----A	9644

MAC.US.-.239	GGAGAGCTGGCAGATTGAGCCCTGGGAGTTTCTCCAGCACT. AGCAGGTAGAGCCCTGGGTTCCCTGCTAGACTCTCA. CCAGCACATTGGCCGGTGTGGGCGAGAGTACTCCACGCTTTCCTTGCCT	10118
H2A.CI.88.UC2	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10151
H2A.DE.-.BEN	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10197
H2A.DE.-.PEI2	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10132
H2A.GH.-.GH1	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9480
H2A.GM.-.ISY	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9595
H2A.GM.87.D1.94	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9472
H2A.GM.MCN13	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9635
H2A.GM.MCR35	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9510
H2A.GM.-.ALI1	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10192
H2A.GM.-.MDS	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9525
H2A.GM.86.FG	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9391
H2A.GM.87.CAM2CG	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10211
H2A.SN.85.ROD	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9635
H2AB.CI.-.7312A	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10122
H2B.CI.-.EHO	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10087
H2B.CI.88.UC1	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10112
H2B.GH.86.D205	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10116
H2B.JP.01.KR020	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9217
H2G.CI.-.ABT96	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9546
H2U.FR.96.12034	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9603
MAC.US.-.251.1A11	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10113
MAC.US.-.251.32H.PJ5	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10116
MAC.US.-.251.BK28	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10088
MAC.US.-.MM142	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9610
MAC.US.-.SMM142B	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9600
MAC.US.1937	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9055
MAC.US.2065	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9054
MAC.US.239.95112	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9044
MAC.US.239.96114	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9049
MAC.US.80035	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9054
MAC.US.81035	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9055
MAC.US.85013	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	8987
MAC.US.87082	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9028
MAC.US.92050	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9048
MAC.US.92077	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9055
MAC.US.93057	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9052
MAC.US.93062	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9021
MAC.US.95058	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9042
MAC.US.95086	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	8910
MAC.US.96016	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9054
MAC.US.96020	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9047
MAC.US.96072	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9057
MAC.US.96081	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9045
MAC.US.96093	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9054
MAC.US.96123	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	8944
MAC.US.96135	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9039
MAC.US.97009	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	8867
MAC.US.97074	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	8859
MAC.US.80025	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	8910
MAC.US.F90131	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9053
MNE.US.-.MNE027	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9595
MNE.US.82.MNE_8	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9592
SMM.SL.92.SL92B	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9577
SMM.US.-.17EC1	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10118
SMM.US.-.17EFCR	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10118
SMM.US.-.F236_H4	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10080
SMM.US.-.H9	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9601
SMM.US.-.PBJ14_15	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9926
SMM.US.-.PBJA	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9925
SMM.US.-.PBJ_143	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9638
SMM.US.-.PBJ_6P6	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10118
SMM.US.-.PGM53	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10061
SMM.US.-.SME543	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	10127
STM.US.-.STM	.....C-C-A-C-C-C-TG-C-C-CA-C-G-C-G	9772

HIV-2/SIV complete genomes

HIV-2/SIV  
complete genomes

AAATAAA poly-A signal  
3' LTR repeat end / 3' LTR U5 region start

MAC.US..239 TAAA..GCCCTCTCAATAAAG.CTCCCAT.TTTAGAAGTAAGC.TAGTGTGTGTCCCATCTCTCCTAGCCGCGCTGGTCAACTCGGTACTCAA.T.AATA.AGAAGACCCCTGGTCTCTTTAGGACCC 10240  
H2A.CI.88.UC2 .....A.....T.....A.....C-TTA.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 10273  
H2A.DE..BEN H2A.DE..PEI2 .....A.....G.....C-TTA.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 10320  
H2A.GH..GHI .....A.....G.....C-TTA.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 10172  
H2A.GM..ISY .....AGA-CTC-T.....G.....C-TTA.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 9480  
H2A.GM.87.D194 .....A-A-A.....G.....C-TTA.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 9472  
H2A.GM.MCN13 .....A-A-A.....T.....G.....C-TTA.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 9713  
H2A.GM.MCR35 .....A-A-A.....T.....G.....C-TTA.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 9588  
H2A.GW..ALI .....A.....T.....A.....C-G-TTA-AG.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 10314  
H2A.GW..MDS .....A.....T.....A.....C-TTA.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 9625  
H2A.GW.86.FC .....A.....T.....A.....C-TTA.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 9431  
H2A.GW.87.CAM2CG .....AA-C-T.....T.....G.....C-TTA.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 10333  
H2A.SN.85.ROD .....A.....G.....C.....T.....TTCCG-TGTTCAFC.-G-G-.-C- 9671  
H2AB.CI..7312A .....A.....T.....A.....C-TCA.....T.....C.....-GT-.-GC-G-.-.-G- 10243  
H2B.CI..EHO .....A.....T.....A.....TA.....C-ACA.....T.....T.....-G-C-C-C.-GA- 10203  
H2B.CI.88.UC1 .....A.....T.....A.....C-TTG.....T.....T.....-AA-G-T-C-.-A-T-A- 10232  
H2B.GH.86.D205 .....A.....T.....A.....C-TTA.....T.....T.....-C-T-A-C-C-G-.-.- 10230  
H2B.JP.01.KR020 .....A.....T.....TA.....C-TTG.....T.....C.....-G-.-G-.-G-G-T-A- 9337  
H2G.CI..-ABT96 -C-AC-A.....T.....AA.....A.....-A.....-GT..... 9599  
H2U.FR.96.12034 ..... 9607  
MAC.US..251\_IA11 .....A.....T.....T.....-GG- 10235  
MAC.US..251\_32H\_PJ5 .....A.....T.....T.....-GG- 10238  
MAC.US..251\_BK28 .....A.....T.....C.....-GG- 10210  
MAC.US..MM142 .....A.....T.....C.....-GG- 9646  
MAC.US..SMM142B .....A.....T.....C.....-GG- 9600  
MAC.US.1937 .....A.....T.....C.....-GG- 9055  
MAC.US.2065 .....A.....T.....C.....-GG- 9054  
MAC.US.239\_95112 .....A.....T.....C.....-GG- 9044  
MAC.US.239\_96114 .....A.....T.....C.....-GG- 9049  
MAC.US.80035 .....A.....T.....C.....-GG- 9054  
MAC.US.81035 .....A.....T.....C.....-GG- 9055  
MAC.US.85013 .....A.....T.....C.....-GG- 9887  
MAC.US.87082 .....A.....T.....C.....-GG- 9028  
MAC.US.92050 .....A.....T.....C.....-GG- 9048  
MAC.US.92077 .....A.....T.....C.....-GG- 9055  
MAC.US.93057 .....A.....T.....C.....-GG- 9052  
MAC.US.93062 .....A.....T.....C.....-GG- 9021  
MAC.US.95058 .....A.....T.....C.....-GG- 9042  
MAC.US.95086 .....A.....T.....C.....-GG- 8910  
MAC.US.96016 .....A.....T.....C.....-GG- 9054  
MAC.US.96020 .....A.....T.....C.....-GG- 9047  
MAC.US.96072 .....A.....T.....C.....-GG- 9057  
MAC.US.96081 .....A.....T.....C.....-GG- 9045  
MAC.US.96093 .....A.....T.....C.....-GG- 9054  
MAC.US.96123 .....A.....T.....C.....-GG- 8944  
MAC.US.96135 .....A.....T.....C.....-GG- 9039  
MAC.US.97009 .....A.....T.....C.....-GG- 8867  
MAC.US.97074 .....A.....T.....C.....-GG- 8859  
MAC.US.\*80025 .....A.....T.....C.....-GG- 8910  
MAC.US.\*90131 .....A.....T.....C.....-GG- 9053  
MNE.US..MNE027 .....A.....T.....C.....-GG- 9664  
MNE.US.82.MNE\_8 .....A.....T.....C.....-GG- 9628  
SMM.SI.92.SI92B .....A.....T.....C.....-GG- 9613  
SMM.US..17BEC1 .....A.....T.....C.....-GG- 10240  
SMM.US..17BFR .....A.....T.....C.....-GG- 10240  
SMM.US..F236\_H4 .....A.....T.....C.....-GG- 10202  
SMM.US..H9 .....A.....T.....C.....-GG- 9638  
SMM.US..PBJ14\_15 .....A.....T.....C.....-GG- 9996  
SMM.US..PBJA .....A.....T.....C.....-GG- 9996  
SMM.US..PBJ\_143 .....A.....T.....C.....-GG- 9675  
SMM.US..PBJ\_6P6 .....A.....T.....C.....-GG- 10239  
SMM.US..PGM53 .....A.....T.....C.....-GG- 10183  
SMM.US..SMB543 .....A.....T.....C.....-GG- 10250  
STM.US..-STM -T...TAT.....A.....A.....-A.....-G- 9885



