

Amino Acids

Protein Alignment Summary Table (Env)

Name(s)	Accession No.	Region	First Author	Reference
ROD	M15390	complete genome	Guyader M	<i>Nature</i> 326 (6114) 662–669 (1987)
NIHZ	J03654	complete genome	Zagury JF	<i>PNAS</i> 85 5941–5945 (1988)
885	M80207	env gp120 region	Nerrienet E	Unpublished (1992)
ALI	L25445	env	Costa Taveira N	<i>ARHR</i> 10 223–224 (1994)
ISY	J04498	complete genome	Franchini G	<i>PNAS</i> 86 2433–2437 (1989)
ST	M31113	complete genome	Kumar P	<i>J Virol</i> 64 890–901 (1990)
BEN	M30502	complete genome	Kirchhoff F	<i>Virology</i> 177 305–311 (1990)
D194	J04542	complete genome	Kuehnel H	<i>PNAS</i> 86 2383–2387 (1989)
CAM2	D00835	complete genome	Tristem MF	<i>J Gen Virol</i> 72 721 (1991)
CAM2BR	U07105	partial env	Grez M	<i>J Virol</i> 68 2161–2168 (1994)
D1024	U07104	partial env	Grez M	<i>J Virol</i> 68 2161–2168 (1994)
D766	U07106	partial env	Grez M	<i>J Virol</i> 68 2161–2168 (1994)
D808	U07107	partial gp105 env	Grez M	<i>J Virol</i> 68 2161–2168 (1994)
D868	U07108	partial gp105 env	Grez M	<i>J Virol</i> 68 2161–2168 (1994)
GH1	M30895	complete genome	Hasegawa A	<i>ARHR</i> 5 593–604 (1989)
CBL21E	U05350	env gp160 region	Breuer J	<i>J Gen Virol</i> 76 , 333–345 (1995)
CBL22E	U05351	env gp160 region	Breuer J	<i>J Gen Virol</i> 76 , 333–345 (1995)
CBL23E	U05352	env gp160 region	Breuer J	<i>J Gen Virol</i> 76 , 333–345 (1995)
CBL24E	U05353	env gp160 region	Breuer J	<i>J Gen Virol</i> 76 , 333–345 (1995)
MDS	Z48731	gag, pol, vif, tat, rev, nef, env	Becker M	Unpublished (1995)
CAM1E	U05359	env gp160 region	Breuer J	<i>J Gen Virol</i> 76 , 333–345 (1995)
CAM3E	U05355	env gp160 region	Breuer J	<i>J Gen Virol</i> 76 , 333–345 (1995)
CAM4E	U05356	env gp160 region	Breuer J	<i>J Gen Virol</i> 76 , 333–345 (1995)
CAM5E	U05357	env gp160 region	Breuer J	<i>J Gen Virol</i> 76 , 333–345 (1995)
CAM6E	U05358	env gp160 region	Breuer J	<i>J Gen Virol</i> 76 , 333–345 (1995)
KR	U22047	complete genome	Kraus GK	<i>PNAS</i> 90 (9) 4226–4230 (1993)
D1071	U07105	partial gp105 env	Grez M	<i>J Virol</i> 68 2161–2168 (1994)

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UC2	U38293	complete genome	Barnett SW	Unpublished (1997)
UC3	U38294	C2-V4 of HIV2 env	Barnett SW	Unpublished (1997)
UC5	U38295	C2-V4 of HIV2 env	Barnett SW	Unpublished (1997)
UC6	U38296	C2-V4 of HIV2 env	Barnett SW	Unpublished (1997)
UC7	U38297	C2-V4 of HIV2 env	Barnett SW	Unpublished (1997)
UC8	U38298	C2-V4 of HIV2 env	Barnett SW	Unpublished (1997)
UC9	U38299	C2-V4 of HIV2 env	Barnett SW	Unpublished (1997)
UC10	U38300	C2-V4 of HIV2 env	Barnett SW	Unpublished (1997)
UC11	U38301	C2-V4 of HIV2 env	Barnett SW	Unpublished (1997)
UC12	U38302	C2-V4 of HIV2 env	Barnett SW	Unpublished (1997)
UC14	U38303	C2-V4 of HIV2 env	Barnett SW	Unpublished (1997)
5132E2	L16964	env partial	Barnett SW	Unpublished (1997)
FA3	L33095	partial env gp41 v3	Gao F	<i>J Virol</i> 68 : 7433-7477 (1994)
GB1222	L10637	env gp41	Gao F	<i>AIDS</i> 8 (3): 297-306 (1994)
CI171	X78505	partial gp36 env	Otten RA	<i>ARHR</i> 10 : 1289-1294 (1994)
HIV2CI9	X78506	env	Cuoto-Fernandez JC	<i>ARHR</i> 10 (9): 1157-1163 (1994)
HIV2ISO53	X78507	env	Cuoto-Fernandez JC	<i>ARHR</i> 10 (9): 1157-1163 (1994)
HIV2VI390	X78510	env	Cuoto-Fernandez JC	<i>ARHR</i> 10 (9): 1157-1163 (1994)
HIV2VI905	X78511	env	Cuoto-Fernandez JC	<i>ARHR</i> 10 (9): 1157-1163 (1994)
VI1056	U67349	env	Nyambi PN	<i>ARHR</i> 13 (1): 7-17 (1997)
VI1415	U67350	env	Nyambi PN	<i>ARHR</i> 13 (1): 7-17 (1997)
VI495	U67351	env	Nyambi PN	<i>ARHR</i> 13 (1): 7-17 (1997)
VI884	U67352	env	Nyambi PN	<i>ARHR</i> 13 (1): 7-17 (1997)
SL93F	U75440	env	Chen Z	<i>J Virol</i> 71 (5): 3953-3960 (1997)
UC1	L07625	complete genome	Barnett SW	<i>J Virol</i> 67 : 1006-1014, (1993)
2D205 ALT	X61240	complete genome	Dietrich U	<i>ARHR</i> 8 : 1619 (1992)
EHOA	U27200	complete genome	Rey-Cuille MA	<i>Virology</i> 202 (1): 471-476 (1994)
GH2P22	D10458	env	Kawamura M	<i>Virology</i> 188 : 850-853 (1992)
JA3	L33096	partial env gp41 v3	Gao F	<i>J Virol</i> 68 : 7433-7477 (1994)

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ONFT3	L33097	partial env gp41 v3	Gao F	<i>J Virol</i> 68 7433–7477 (1994)	
VI1011	U67348	env	Nyambi PN	<i>ARHR</i> 13 (1)7–17 (1997)	
22381	L33077	p16/p28 partial gag	Gao F	<i>J Virol</i> 68 7433–7477 (1994)	
FO784	L33083	gag, p16/p28 partial	Gao F	<i>J Virol</i> 68 7433–7477 (1994)	
SMCI2	X78508	env	Peeters M	<i>ARHR</i> 10 , 1289–1294 (1994)	
SMCI8	X78509	env	Peeters M	<i>ARHR</i> 10 , 1289–1294 (1994)	
7312A	L33094	partial env gp41 v3	Gao F	<i>J Virol</i> 68 7433–7447 (1994)	
MM251	M19499	complete genome	Franchini G	<i>Nature</i> 328 539–543 (1987)	
MM32H	D01065	complete genome	Rud EW	<i>J Gen Virol</i> 75 529 (1994)	
MM1A11	M76764	complete genome	Luciw PA	<i>ARHR</i> 8 395–402 (1992)	
MM316ZQ	L22814	env,nef	Kodama T	<i>J Virol</i> 67 6522–6534 (1993)	
MM132ZL	L22809	env,nef	Kodama T	<i>J Virol</i> 67 6522–6534 (1993)	
MM239	M33262	complete genome	Regier DA	<i>ARHR</i> 6 1221–1231 (1990)	
CTL7202	M61062	env	Burns DP W	<i>J Virol</i> 65 1843–1854 (1991)	
MM142	M16403	complete genome	Chakrabarti L	<i>Nature</i> 328 543–547 (1987)	
MM18101	U19595	env, partial	Lane TE	<i>Virology</i> 212 (2) 458–465 (1995)	
SEGA	L26938	env	Kodama T	Unpublished (1994)	
SEGE	L26942	env	Kodama T	Unpublished (1994)	
SEGI	L26947	env	Kodama T	Unpublished (1994)	
7FBE2	U18019	env gp120 partial	Zhu GW	<i>J Neurovirol</i> 1 (1) 78–91 (1995)	
7FLG1	U18023	env gp120 partial	Zhu GW	<i>J Neurovirol</i> 1 (1) 78–91 (1995)	
7FLN1	U18028	env gp120 partial	Zhu GW	<i>J Neurovirol</i> 1 (1) 78–91 (1995)	
7FSE1	U18034	env gp120 partial	Zhu GW	<i>J Neurovirol</i> 1 (1) 78–91 (1995)	
MNE	M32741	complete genome	Benveniste RE	Unpublished (1990)	
MNELN11	U06277	env partial	Chackerian B	<i>J Virol</i> 68 (6) 4080–4085 (1994)	
MNESPL17	U06352	env partial	Chackerian B	<i>J Virol</i> 68 (6) 4080–4085 (1994)	
MNELIV25	U06377	env partial	Chackerian B	<i>J Virol</i> 68 (6) 4080–4085 (1994)	

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PHTBEI	U18039	env gp120 complete	Zhu GW	<i>J Neurovirol</i> 1 (1) 78-91 (1995)
PHTLGI	U18046	env gp120 complete	Zhu GW	<i>J Neurovirol</i> 1 (1) 78-91 (1995)
SMP209	L20008	env	Hynes NA	<i>ARHR</i> 9 803-806 (1993)
P209C15	L20009	env	Hynes NA	<i>ARHR</i> 9 803-806 (1993)
SMMPB14.15	L03295	complete genome	Dewhurst S	<i>Nature</i> 345 636-640 (1990)
SMMPB14.441	M31325	complete genome	Dewhurst S	<i>Nature</i> 345 636-640 (1990)
SMMPBJA				
SMMPB16.6	L09212	env polyprotein gag nef	Hirsch VMJ	<i>J Virol</i> 67 2466-2474 (1993)
SIVSMMH9	M80194	complete genome	Cougnaud V	<i>J Virol</i> 66 414-419 (1992)
SMMH4	X14307	complete genome	Hirsch VM	<i>Nature</i> 339 389-391 (1989)
SM62A	U04982	env, nef, tat, rev	Hirsch VM	<i>J Virol</i> 68 2649-2661 (1994)
HUMB670	S67406	env	Khabbaz RF	<i>N Engl J Med</i> 330 172-177 (1994)
SIVB670	M90048	env, nef, LTR	Mullins JI	Unpublished (1992)
STM	M83293	complete genome	Novembre FJ	<i>Virology</i> 186 783-787 (1992)
STMAK3	X60668	env	Khan A.S	<i>J Med Primatol</i> 20 167-171 (1991)

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DEC 98 II-B-30 CONSENSUS-A
 CONSENSUS-B
 A-ROD
 A-NHZ
 A-BEN
 A-DI94
 A-CAM2
 A-CAM2BR
 A-DI024
 A-DT66
 A-D868
 A-MDS
 A-CAM1
 A-CAM3
 A-CAM4
 A-CAM5
 A-CAM6
 A-KR
 A-DI071
 A-DI022
 B-TCL
 B-DT205
 B-FHOA
 CONSENSUS-SD
 SD-MM251
 SD-MM32H
 SD-MM1A11
 SD-MM316ZQ
 SD-MM32ZL
 SD-MM239
 SD-CTFL702
 SD-MM142
 SD-MM181-01
 SD-SEG
 SD-SEGJ
 SD-7FBE2
 SD-7FLGL
 SD-7FLNL
 SD-7FSE1
 SD-MNE
 SD-MNELIN1-1
 SD-MNELIV2-5
 SD-PHIBEL
 SD-PHTLIG
 SD-P209C19
 SD-P209C15
 SD-SMMPSJ14-15
 SD-SMMPSJ14-441
 SD-SMMPSU6-6
 SD-SMMH9
 SD-SMMH4
 SD-SM62A
 SD-HUMB670
 SD-SMMB670
 CONSENSUS-STM
 STM-STM

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HIV-2/SIV ENV

DEC 98
II-B-33

Amino Acids

HIV-2/SIV ENV

Amino Acids

DECB-35 DECB-38

CONSENSUS-A	gsrlllagivqqqqllldvvrqQemrlrtwvgtknllQarvtaekylkdQaqjnswgafrovchtrtVpwndsltFdwmtiwQewqvvryleaniSslegqQiooeknmyelQkl
A_ROD	* * * * * ^ ^ ^ ^ ^
A_NHZ	-L- -R- -S- -T- -K- -O-
A_ALI	-R- -R- -N- -K- -D- -K-
A_ISY	-T- -R- -T- -E- -HKL-F- -EQ-
A_ST	-H- -R- -T- -E- -HKL-N- -T-
A_BEN	-A- -R- -T- -E- -R- -E-
A_DJ94	-A- -R- -T- -E- -K- -O-
A_CAM2	-A- -R- -T- -E- -KR-H- -O-
A_CMB2R	-A- -R- -T- -E- -KR- -O-
A_GHL	-A- -R- -T- -E- -K- -O-
A_CBL21	-A- -R- -T- -E- -K- -O-
A_CBL22	-A- -R- -T- -E- -K- -O-
A_CBL23	-A- -R- -T- -E- -K- -O-
A_CBL24	-A- -R- -T- -E- -K- -O-
A_MDS	-A- -R- -T- -E- -K- -O-
A_CAM1	-A- -R- -T- -E- -K- -O-
A_CAM3	-A- -R- -T- -E- -K- -O-
A_CAM4	-A- -R- -T- -E- -K- -O-
A_CAM5	-A- -R- -T- -E- -K- -O-
A_CAM6	-A- -R- -T- -E- -K- -O-
A_KIR	-A- -R- -T- -E- -K- -O-
A_UC2	-A- -R- -T- -E- -K- -O-
A_1132E2	-A- -R- -T- -E- -K- -O-
A_FX3	-A- -R- -T- -E- -K- -O-
A_SBI22	-A- -R- -T- -E- -K- -O-
A_C1171	-A- -R- -T- -E- -K- -O-
A_C19	-A- -R- -T- -E- -K- -O-
A_V1053	-A- -R- -T- -E- -K- -O-
A_V1390	-A- -R- -T- -E- -K- -O-
A_V1905	-A- -R- -T- -E- -K- -O-
A_V11056	-A- -R- -T- -E- -K- -O-
A_V11415	-A- -R- -T- -E- -K- -O-
A_V1495	-A- -R- -T- -E- -K- -O-
A_V1884	-A- -R- -T- -E- -K- -O-
A_V193F	-A- -R- -T- -E- -K- -O-
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B_UC1	-A- -R- -T- -E- -K- -O-
B_D205	-A- -R- -T- -E- -K- -O-
B_EHOA	-A- -R- -T- -E- -K- -O-
B_GH2	-A- -R- -T- -E- -K- -O-
B_TA3	-A- -R- -T- -E- -K- -O-
B_DNEFT3	-A- -R- -T- -E- -K- -O-
B_V1101	-A- -R- -T- -E- -K- -O-
CONSENSUS-C	-A- -R- -T- -E- -K- -O-
C_22381	-A- -R- -T- -E- -K- -O-
CONSENSUS-D	-A- -R- -T- -E- -K- -O-
D_F0784	-A- -R- -T- -E- -K- -O-
D_SMIC2	-A- -R- -T- -E- -K- -O-
D_SMIC8	-A- -R- -T- -E- -K- -O-
CONSENSUS-AB	-A- -R- -T- -E- -K- -O-
AB_7312A	-A- -R- -T- -E- -K- -O-
CONSENSUS-SD	-A- -R- -T- -E- -K- -O-
SD_MM251	-A- -R- -T- -E- -K- -O-
SD_MM32H	-A- -R- -T- -E- -K- -O-
SD_MM11	-A- -R- -T- -E- -K- -O-
SD_MM111	-A- -R- -T- -E- -K- -O-
SD_MM316ZQ	-A- -R- -T- -E- -K- -O-
SD_MM312ZL	-A- -R- -T- -E- -K- -O-
SD_MM239	-A- -R- -T- -E- -K- -O-
SD_MM142	-A- -R- -T- -E- -K- -O-
SD_MME	-A- -R- -T- -E- -K- -O-
SD_P209C19	-A- -R- -T- -E- -K- -O-
SD_VanF66	-A- -R- -T- -E- -K- -O-
SI_VanF74	-A- -R- -T- -E- -K- -O-
SI_VanF85	-A- -R- -T- -E- -K- -O-
SD_SMMB14.15	-A- -R- -T- -E- -K- -O-
SD_SMMB14.441	-A- -R- -T- -E- -K- -O-
SD_SMMB6.6	-A- -R- -T- -E- -K- -O-
SD_SMMB9	-A- -R- -T- -E- -K- -O-
SD_SMMB14.1	-A- -R- -T- -E- -K- -O-
SD_SMMB14.4	-A- -R- -T- -E- -K- -O-
SD_SMMB670	-A- -R- -T- -E- -K- -O-
CONSENSUS-STM	-A- -R- -T- -E- -K- -O-
STM_STM	-A- -R- -T- -E- -K- -O-
STM_STMACK3	-A- -R- -T- -E- -K- -O-

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