



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

Annotations - PepMix™ HIV (ENV) Ultra

HIV-1 ENV, average coverage: 34%

All sequences are based on the HIV sequence database of the Los Alamos National Laboratory.
<http://www.hiv.lanl.gov/content/sequence/NEWALIGN/align.html>

Protein sequences (# 7) covered by at least 50%

B.DE.x.D117III.AF490512, B.US.90.US1.AY173952, B.US.x.SF162_control_passage_12.EF367179,
B.US.86.ADA.AY426119, B.US.81.81NY3.AY247224, B.TT.95.QH0908_F.AF277072,
B.NL.90.H5_25_7G2.EU744159

Protein sequences (# 118) covered by at least 45%

B.US.84.SC.M17450, B.US.85.CC101_10_10.AY357406, B.US.84.5019_84.AY835779,
B.US.98.1059_09_A4_1460.EU289188, C.ZA.99.99ZALT4.EU293444, B.US.83.5157_83.AY835781,
B.US.x.K4511TOB8U.GU728263, B.US.x.PRLS17.FJ469761, B.US.86.5127_86.AY835774,
B.US.x.S2513TOB8U.GU728287, B.FR.95.PIH374.AF041133, B.US.94.MACS4.DQ313246,
C.BW.96.96BW1210.AF110972, B.US.x.A8524TOB8U.GU728279, B.US.86.YU_2.M93258,
B.US.01.L805.FJ469738, B.US.91.SUMA_fIE7.FJ496150,
B.US.95.PRB931_06_TC3_4930.EU289198, B.US.99.PRB957_06_A13.EU576617,
B.US.x.SH8183.FJ469768, B.US.97.1013_03.AY331287, C.ZA.03.03ZASK034B1.AY878065,
B.US.90.90US_873.AY713412, B.US.97.1051_12_D7.EU575167,
BF1.AR.05.05AR163052.DQ383755, C.IN.07.NARI_VB52_J19.EU521727,
B.ES.x.LMP0501.DQ141341, C.MW.04.CHV0011452_1176_H3.FJ444456,
B.BR.02.02BR011.DQ358809, B.US.98.HDNDRPI001B10.GU562080, C.TZ.00.234_F1_1.HQ697934,
C.MW.07.CHV0010246_703010228_1B5.FJ444034, B.TT.94.QH0788_M.AF277067,
B.US.97.9015_07_B8.EU575815, B.US.88.WR27.AF286365, B.US.04.ES9v1e7_1.DQ410205,
B.GB.x.MB314.Y13719, C.BW.00.00BW20872.AF443104, B.CY.05.CY110.FJ388927,
B.US.90.BORId9_4A9.EU576292, B.US.98.98USHVTN1925c1.AY560107,
B.US.x.B6515TOB8U.GU728376, B.SE.92.P8a_19921110.GU204941,
B.GB.08.F455b_B4.HQ595778, B.US.x.SF128.M95292, B.US.04.CAAN.AY835452,
B.US.88.SFMHS6.AF025754, B.NL.91.H4_078_1D11.EU744114, C.ZA.99.COT9.DQ447272,
B.US.84.NY5CG.M38431, B.AU.87.MBC925.AF042101, B.FR.83.HXB2_LAI_IIIB_BRU.K03455,
C.ZA.98.98ZA528.AY158535, B.US.05.P3_WEEK_16.FJ653390, B.US.91.DH12_3.AF069140,
B.DE.05.243_D1.GU252805, B.US.04.ES4_24.EF363124, B.DK.01.CTL_041.EF514711,
C.MW.96.C011_B9_3B.HM638770, B.AU.03.PS2008_Day182.DQ676875,
B.US.86.JRCSF.AY426125, B.TT.94.QH0692_M.AF277065, C.ZA.04.04ZASK142B1.DQ011167,
B.US.94.PRB926_04_A9_4237.EU289197, B.NL.86.H434_8_A3.AY970946,
B.US.97.62357_14_D3_4589.EU289189, B.BE.x.VI886_1.EU191616,
BC.BR.01.01_BR_RGS45.GQ365651, B.US.x.BRVA.M21098, B.US.90.US3.AY173954,
B.CY.05.CY082.FJ388962, B.US.89.SFMHS20.AF025763, C.ZA.07.CH010316_w16_p1.HM204602,
B.US.02.APV_17.DQ869023, B.US.x.V9527TOB8U.GU728226, B.US.85.SFMHS3.AF025751,
C.ZA.03.03ZASK215M6W.DQ275661, B.US.97.PRB95604_SGA_A4.EF593232,
B.US.x.MACS2BR_13.AF491737, D.UG.x.DM1_40.EF575364, B.NL.95.H2_114_7H3.EU744052,
BC.BR.92.92BR023.HM100716, C.MW.03.CHV0011247_0478_H2.FJ444251,
B.US.86.SFMHS17.AF025760, B.US.06.CR0078.FJ469696, BC.CN.98.YNRL9828.AY967805,
B.AU.x.HCPI_11_01.GU367404, C.TZ.x.410_F2_1_30.HM215314, B.US.x.F710.FJ469729,
B.CN.04.CHNHLJBF04016c4.AY905497, B.US.x.M4526TOB8U.GU728179,
B.CH.03.NAb4pre_cl_1.EU023922, B.US.86.SFMHS4.AF025752, C.IN.00.HIV_26191_2.EF117274,
B.JP.x.MOKW_RNL.AB262961, B.TT.x.QZ4589.U32396, B.US.98.Z02_C6.EF593282,
B.BE.90.VI423.DQ313249, BF1.BR.99.BREPM107.AY771588, B.US.05.5057_F11.EU577873,
B.TH.96.M149.DQ354119, B.US.x.12291.FJ469685, B.TT.94.QH0060_F.AF277055,
C.ZA.98.TV008A.AF391240, C.ZA.05.05ZAFV6.DQ382364, B.GB.08.B653_C7.HQ595772,
B.ES.06.X1959.EU786675, B.US.87.SFMHS5.AF025753, B.BR.89.BZ167.AY173956,



B.US.03.TALA_SGA_B16.EF593256, B.US.x.A2520TOB8U.GU727873,
C.BW.99.99BW46424.AF443084, C.ZA.04.04ZAPS202B1.DQ093598, B.US.x.DS_br_13.EU850430,
BC.CN.x.BC08.EU363838, C.ZA.08.1245045.HQ595742, B.US.x.F1540TOB8U.GU728134,
B.GB.x.M30156.U36877

Protein sequences (# 481) covered by at least 40%

C.ZA.03.03ZAPS063MB1.DQ396388, C.BR.04.04BR038.AY727524,
C.MW.96.C083C8_3B.HM639114, A1D.UG.98.98UG57137.AF484521, B.US.86.SFMHS2.AF025750,
C.TZ.04.0041_v3_c18.HM215253, B.US.x.L8146.DQ886034, C.ZA.02.RP4.DQ447270,
B.AU.95.C24.AF538304, B.FR.92.133_1.AY535425, B.JP.05.DR7060.AB287367,
BC.CN.07.CNE67.HM215425, B.US.x.L8185.DQ886036, B.GB.08.CH080060_e_p1.HM204630,
B.US.04.UNC2009_1.EF593269, B.US.93.WCM32P0793.DQ487190,
C.ZA.03.03ZAPS113MB2.DQ396365, B.US.84.SC14C.U90935, B.US.85.Ba_L.AB221005,
B.TT.95.QH0864_M.AF277070, B.US.85.SFMHS21.AF025764, B.US.97.1006_08.AY331284,
C.ZA.08.20915593.HQ595749, C.ZA.00.TM20_13.EU161645, B.CA.x.HND_DRPI039V01.DQ322225,
B.US.85.ALA1.M38430, B.US.04.H22v1ed5_1.DQ410260, C.TZ.02.CO3305.AY734558,
C.DJ.91.DJ259A.L22940, B.FR.93.159_10.AY535471, B.US.85.WCIPR.U69584,
C.ZA.99.LT1.AY522721, 01A1.CM.02.02CM_1867LE.AY371165, 31_BC.BR.04.04BR142.AY727527,
B.US.02.APV_16.DQ869022, B.US.x.T1520TOB8U.GU728204, C.DK.01.CTL_015.EF514713,
B.US.x.H0002GH.DQ222211, B.JP.x.DR1712.AB604946, B.AT.x.Au02.FJ952154,
BC.CN.07.CNE18.HM215404, B.BE.91.SIMI84.L07421, B.US.03.Z35_C1.EF593298,
C.TZ.05.3426_v5_c17.HM215300, B.US.97.ACTDM580208A15.GU562033,
B.BE.93.VI843_172.DQ313250, B.US.09.C1P.GU733713,
C.ZA.07.CHV0008598_CAP40.2.01F2.FJ443865, B.BE.96.VI1273.DQ313252,
B.US.05.CR0175S.FJ469703, B.US.90.WEAU160.U21135, B.US.86.5096_86.AY835749,
B.US.x.109_24.FJ798397, B.AR.02.02AR114146.DQ383746, C.SN.90.90SE_364.AY713416,
B.TT.00.00TT_CRC08767.EU839606, B.DK.01.CTL_033.EF514709, B.US.97.M02_3_SW.U84854,
B.US.85.5077_85.AY835769, B.US.00.THRO.AY835448, C.ZM.89.ZAM18.AB485647,
C.ZM.96.96ZM651.AF286224, B.US.99.PRB959_03.AY331296, D.UG.98.99UGJ32228.AF484516,
B.NL.94.19642_38_1G7.GU455448, C.ZA.98.98ZA502.AY158534, C.ZA.99.TM3.DQ447268,
C.ZA.09.704MC033F.GU080194, C.ZA.99.99ZATM10.AY228556, 31_BC.BR.04.04BR137.AY727526,
B.FR.95.PIH373.AF041134, B.US.00.14294_1.DQ853436, B.PE.x.H061.EF210730,
B.GB.x.M2424.4_clone3.AJ286342, C.TZ.x.556_F2_3_25.HM215317, D.UG.98.602MPC2.EU853094,
C.MW.04.CHV0011518_1373_G4.FJ444522, B.US.05.ES7v2ed7.DQ410115,
C.IL.98.98IS002.AF286233, B.TT.94.SC22_QH0126_3B9.EF593245,
C.ZM.02.ZM180M_SGA_A5.EU166385, B.TT.93.QH0065_M.AF277060, D.CD.85.Z2Z6.M22639,
B.GB.x.JB.U36869, C.ZA.03.03ZAPS034MB1.DQ369979, B.US.06.CH40E_fig6.FJ495826,
B.US.04.CR0068P.FJ469695, B.CH.03.NAB3pre_cl_43.EU023921,
C.IN.00.HIV_001428_2.EF117266, B.US.96.1027_03.AY332237, B.US.99.Z13_G7.EF593286,
C.MW.96.C109_1G10_B.HM639141, B.TH.90.BK132.AY173951, C.ZA.00.1214MB.AY463236,
C.TZ.04.3728_v2_c6.HM215307, B.US.85.SFMHS11.AF025758, C.ZM.02.02ZM115.AB254148,
C.ZA.03.03ZAPS079B1.DQ093592, B.FR.93.153_10.AY535498, C.ZA.01.01ZADU36_5.FJ846632,
C.ZA.03.03ZASK103B1.DQ164106, B.GB.09.J525_E4.HQ595783, B.US.01.Z23_A2.EF593290,
B.US.86.SFMHS18.AF025761, C.ZA.99.LT40.AY522732, C.ZM.04.17M_BML_11603.HM036792,
B.ZA.99.99ZASM1.AY505010, B.US.05.N1_WEEK_4.FJ653236, C.MW.96.C019_E1_3S.HM638911,
B.US.x.CR0059T.FJ469694, B.US.04.UNC4484_13.EF593271, C.ZA.04.04ZAPS197MB1.DQ369997,
B.US.03.HDNDRPI032B2.GU562135, B.US.89.R2.AF128126, C.BW.00.00BW18595.AF443099,
C.ZA.98.CTSC2.AY043176, B.US.04.UNC5548_11.EF593274, C.ZA.09.704MC029N.GU080191,
B.US.x.K1573TOB8U.GU728137, B.CN.x.B06.EU363830, B.CA.x.GOL016V01.DQ322223,
B.BR.04.BREPM1070.FJ195086, B.US.06.CH010032_48_p1.HM204582,
C.ZA.04.04ZASK156B1.DQ011171, B.DE.86.HAN.U43141,
C.MW.06.CHV0008284_703010010_B9.FJ443815, B.US.x.Progressor_6.EU807762,
C.TZ.97.97TZ04.AF361874, C.ZA.03.03ZAPS030MB1.DQ369996, B.US.97.1018_06.AY331289,
D.UG.x.DM3_21.EF575388, A1D.KE.00.KER2021.AF457058, B.NL.x.ENVVA.L08655,
B.US.02.OLLA_A13.EU578230, B.GB.x.M737677.U36879, B.US.87.5113_87.AY835758,
0708.CN.00.HH086.AP005207, C.ZA.07.CH010383_w12_p1.HM204608,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

B.ES.09.X2689_2.GU362885, B.US.88.5160_88.AY835763, C.ZA.99.COT6.DQ447266,
B.US.00.Z18_SGA_F8.EF593288, B.US.90.US2.AY173953, B.US.x.7047C_c01.AY842786,
C.ZA.03.03ZASK097B1.AY878060, C.ZA.07.CH010210_w2_p2.HM204595,
B.US.04.C61v1e10.DQ410526, C.ZA.03.03ZASK223B1.DQ093597, C.TZ.01.BD22_11.AY253321,
01B.TH.96.M171.DQ354121, B.US.00.APV_2.DQ869026, B.US.03.Z36_E1.EF593299,
B.US.05.P10_DAY_1.FJ653573, C.ZA.03.03ZAPS083MB1.DQ351229, C.BR.04.04BR073.AY727525,
C.ZA.03.03ZASK117B1.DQ056408, B.US.87.BC.L02317, B.US.x.O5532TOB8U.GU727972,
C.BR.92.BR025_d.U52953, 02_AG.SN.98.98SE_MP1213.AJ251057, DG.CY.05.CY063.FJ388908,
B.US.86.SFMHS8.AF025756, C.ZA.99.LT45.AY522734, C.IN.99.HIV_16936_2.EF117270,
C.ZA.00.1168MB.AY463231, D.UG.99.99UGG10555.AF484494, B.US.x.X4525TOB8U.GU728251,
C.GB.05.N3_DAY_1.FJ653288, C.ZA.05.19157834_v1.HQ595743, C.ZM.x.HIV1084i.AY805330,
C.ZA.07.2935054.HQ595758, B.US.87.SFMHS9.AF025757, B.US.98.zp9025_p9.EF593312,
B.IT.96.PVO.AY835444, C.ZA.03.03ZASK005B2.DQ011175, B.US.84.84US_MNp.AY736819,
AC.TZ.03.3589_v1_c4.HM215304, C.ZA.04.SK140B1.AY901973, B.GB.83.CAM1.D10112,
B.CH.x.NAB10pre_cl_2.EU023929, C.ZA.00.1069MB.AY838567, B.US.x.D8520TOB8U.GU728277,
B.US.x.INMED6_1.DQ444258, B.US.x.546BMB4.AF217150, B.NL.95.19956_45_1E8.GU455525,
C.ZM.02.21M_BML_1012.GU939143, B.CN.05.CNE57.HM215420,
C.BW.99.99BW393212.AF443083, B.ES.08.X2425_2.FJ670525, A1C.TZ.02.CO346.AY734552,
C.ZA.00.1189MB.AY838565, B.SE.96.P4a_19960607.GU204934, AC.TZ.05.0735_v4_c1.HM215259,
B.GB.x.M23470.U36872, C.BW.00.00BW087421.AF443090, B.US.x.E0510TOB8U.GU728412,
C.BW.00.00BW17732.AF443095, C.IN.99.HIV_25925_2.EF117273,
C.TZ.x.98_F4_H5_13.HM215354, B.CY.05.CY142.FJ388965, B.US.02.L8124P.FJ469741,
C.FI.92.FIN9210.AF219266, B.US.91.5048_91.AY835761,
C.MW.07.CHV0008453_703010131_2_E8.FJ443651, B.US.x.PRLS28.FJ469766,
C.IL.99.99ET17.AY255826, B.TT.01.TT112PC_DUK50127_1H3.EF593260,
C.KE.00.KER2010.AF457054, BC.CN.07.CNE15.HM215401, B.TT.98.SC24C_1B1.EU578386,
B.US.97.9014_01_TB1_4769.EU289195, C.ZA.97.97ZA003.AY118165,
B.GB.04.MM42d22_GN1.HM586198, C.ZA.98.TV012.AY162225, B.CY.06.CY180.FJ388955,
B.GB.x.PE101_1.AJ286332, B.US.x.F5510TOB8U.GU728383, C.ZA.03.03ZAPS049MB1.DQ369986,
C.MW.07.CHV0008305_703010054_B2_STOP.FJ443795, B.US.04.ES8_43.EF363126,
B.US.04.ES10_53.EF363127, C.ZM.02.ZM233M.DQ388517, B.GB.03.MM33d12p.HM586187,
C.TZ.05.6322_v4_c1.HM215326, B.US.84.SF33.AY352275, BF1.BR.01.01BR047.DQ358800,
C.ZA.05.05ZAFV22.DQ382375, B.CN.04.CNE10.HM215397, C.ZA.05.05ZASK247B1.DQ369994,
B.ES.89.U61.DQ854716, B.US.00.RHPA.AY835447, BF.AR.99.ARMA037.AY037277,
B.US.07.701010108_E_E4.HQ238287, B.US.03.APV_10.DQ869016, BC.CN.x.CHN19.AF268277,
C.TZ.03.3873_v1_c24.HM215311, C.ZA.05.05ZASK245B1.DQ369982,
B.US.x.HOBRd16_20.DQ444262, B.FR.93.PIH160.AF041131, B.US.x.7120C_c01.AY842824,
C.MW.03.CHV0011320_0665_H9.FJ444324, B.NL.x.168A.U15030,
C.MW.96.C007_1E12_2B.HM638662, B.US.04.APV_20.DQ869015, 19_cpx.CU.99.CU7.AY894994,
02C.BE.93.VI1035.AJ276595, BC.MM.99.mIDU106.AB097869, 08_BC.CN.x.YN177_1.HQ326140,
C.ZA.07.3514597.HQ595759, D.UG.98.98UG57146.AF484513, B.US.04.ES3v1e10_2.DQ410068,
B.US.x.s33_d39_c31.EU604640, C.ZA.98.Du172.DQ411853, B.US.x.CR0192W.FJ469704,
C.ZA.98.TV019.AF391250, C.MW.03.CHV0011202_0334_H1.FJ444207, B.GB.97.CW037.AJ418519,
C.ZA.09.21197826_v2.HQ595754, B.US.04.C62v1e2_2.DQ410535, C.ZA.99.DU179.AY043174,
B.ES.x.MH01.EF531330, BCU.FR.06.06FR_CRN.EU448296, B.US.87.SFMHS7.AF025755,
B.FR.92.92FR_BX08.AY713411, B.US.01.APV_13.DQ869019, B.US.04.H25v1e1_3.DQ410356,
C.ZA.03.03ZAPS043MB1.DQ351227, C.KE.95.QB099_391M_ENV_C8.FJ866132,
B.TH.93.93TH067.U39258, C.ZA.04.04ZASK136B1.DQ011177, C.ZA.09.704MC035N.GU080197,
B.ZA.09.21231341.HQ595755, B.TT.93.QH0016_M.AF277059, BC.CN.08.08YN065.GU362013,
B.US.96.C26_12_1BH.U84819, B.US.94.5082_94.AY835773, B.ES.x.LMP0503.DQ141343,
C.ZA.05.CAP248_9w.GQ999987, C.IN.99.01IN565_10.AY049708, B.US.05.C109v1e18.DQ410616,
B.US.98.98USHVTN8229c6.AY560109, C.BW.00.00BW22767.AF443107, B.CU.99.Cu43.AY586543,
B.CY.05.CY020.FJ388891, C.ZA.04.04ZASK170B1.DQ093595, B.CU.99.Cu19.AY586542,
01B.TH.91.CM237.AY167123, B.US.88.SFMHS19.AF025762, C.ZA.03.03ZASK036B1.AY901966,
C.IN.99.HIV_16055_2.EF117268, B.US.05.CR0312W.FJ469718, B.GB.x.M737685.U36880,
C.ZA.99.99ZASW27.AY529670, C.ZA.03.03ZAPS136MB1.DQ351231,
C.ZA.06.CHV0006046_CAP224.1.18B11.FJ443473, B.US.03.F7157.FJ469731,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

C.ZM.02.ZM229M_SGA_D17.EU166594, B.TT.98.TT28P_IHV42011_2C7.EF593264,
B.US.x.L896.FJ469750, B.CN.x.B04.EU363828, B.US.x.J1526TOB8U.GU728371,
C.ZA.04.04ZASK163B1.AY901979, C.ZA.00.J38MA.AY463228, B.US.x.108060.GQ153937,
C.ZA.03.03ZAPS103MB2.DQ275656, B.US.04.4911_6.EU577862,
B.DO.05.05DO_160884.EU839597, C.GE.03.03GEMZ033.DQ207941,
B.AU.03.PS2019_Day171.DQ676881, B.US.93.WCD32P0793.DQ487188,
B.US.06.CR0276Z.FJ469714, C.ZA.98.98ZA445.AY158533, B.DK.01.CTL_023.EF514707,
C.ZA.07.CH010343_w12_p1.HM204605, A1C.TZ.97.97TZ06.AF361876, B.US.07.CR0214.FJ469707,
01AF2U.CM.01.01CM_0130NY.AY371167, B.GB.08.C500_G5.HQ595774,
B.US.x.L8574TOB8U.GU728150, B.US.98.Z03_B10.EU577426, C.ZM.02.3M_BML_201.HM036983,
C.MW.05.CHV0011607_2060_H5.FJ444610, C.IN.x.VB49.EF694036,
C.ZA.04.04ZASK234B1.DQ093605, 01C.TH.x.NP1809.AY262830,
B.CN.05.CNHLJBM05036.EU131803, C.BW.98.98BWMC122.AF443076,
B.US.07.TransmitterDay221.GQ256646, C.ZA.04.CAP30_5w_F4.GQ999973,
B.US.01.SMRE_SGA_C2.EF593254, C.TZ.01.A301.AY253312, B.US.x.CR0413T.FJ469726,
C.IN.94.94IN11246.AF067159, B.FR.93.PIH155.AF041130, C.BW.00.00BW076820.AF443089,
C.ZA.05.CAP8_3w_F2.GQ999972, B.BO.99.BOL0122.AY037270,
C.US.98.98US_MSC5016.AY444801, B.US.05.C93v1e18.DQ410553, D.CD.84.84ZR085.U88822,
D.UG.06.191821_E6_1.HM215270, B.US.98.98USHVTN941c1.AY560110,
B.CN.04.CHNHLJSM04028c3.AY905494, B.CY.05.CY032.FJ388898,
C.ZA.07.CH010090_w8_p1.HM204585, C.ZA.07.CHV0010289_706010164_1A7.FJ444076,
C.ZA.03.03ZAPS055MB1.DQ396373, 08_BC.CN.x.BC06.EU363836,
D.KE.99.QD435_100M_ENV_E1.FJ866141, C.BW.99.99BW47547.AF443086,
B.GB.08.S230_A12.HQ595798, B.US.06.CH010111_w48_p1.HM204589,
C.TZ.03.0077_v1_c16.HM215254, C.BI.91.BU910112.U39233, C.ZA.04.04ZASK191B1.DQ369993,
C.ZA.07.CHV0010352_704810053_2A12.FJ444139, B.TT.00.00TT_CRC50018.EU839607,
C.ZA.00.1171MB.AY463232, B.AU.95.C92.AF538307, BF1.VE.99.V62.AY536236,
01B.MM.99.mCSW104.AB097867, C.ZA.02.02ZAPS005MB1.DQ351235,
B.TT.95.QH0944_M.AF277073, B.GB.94.746DEN07.AJ535594, B.AR.03.03AR138910.DQ383749,
0708.CN.00.HH069.AP005206, B.TH.99.99TH_C1416.AY945711,
C.ZA.05.05ZAPSK240B1.DQ369991, BC.CN.x.BC04.EU363834, B.CY.05.CY089.FJ388920,
B.US.x.B0519TOB8U.GU727957, B.US.97.63358_p3_4013.EU289192,
B.US.x.7069C_c02.AY842808, A1.IT.02.60000.EU861977, C.ZA.03.SK091B1.AY772701,
C.CY.06.CY166.FJ388948, D.CM.01.01CM_0009BBY.AY371155, C.ZA.99.99ZASW12p.AY529668,
B.DO.05.05DO_162387.EU839596, B.UA.01.01UAKV259.DQ823364, B.CY.05.CY097.FJ388924,
22_01A1.CM.02.02CM_3097MN.GQ229529, C.FI.91.FIN9158.AF219264, B.CN.05.CNE9.HM215428,
B.US.05.P8_WEEK_4.FJ653426, B.US.x.L0576TOB8U.GU728368, B.KR.04.04KMH5.DQ295193,
BF1.BR.01.01BR042.DQ358799, B.BE.94.V11399.DQ313253, C.ZA.03.03ZASK232B1.DQ093589,
B.US.03.H135v1ed8_6.DQ410465, A1C.KE.97.QB008_5911_ENV_C9.FJ396022,
C.ZA.03.03ZAPS048MB1.DQ396364, B.TT.01.01TT_CRC50069.EU839608,
08_BC.CN.x.BC01.EU363831, D.UG.99.99UGE08364.AF484487, B.TT.95.QH0791_M.AF277068,
B.GB.08.CH080038_e_p2.HM204627, B.US.83.SF2.K02007,
C.MW.03.CHV0011355_089_E6FRAMESHIFT.FJ444359, C.TZ.x.304_F2_1_11.HM215286,
C.BR.04.04BR013.AY727522, C.ZM.02.Z153MPL13MAR02ENV5_1.HM068596,
C.ZA.98.TV013B.AF391246, C.BI.91.BU910213.U39237, B.US.x.SH8127.FJ469767,
C.BW.98.98BWMC134.AF443077, C.ZM.02.ZM197M.DQ388515,
AC.TZ.x.477_F3_13_55.HM215315, BF1.BR.99.BREPM11884.DQ085868,
B.US.04.014837G.FJ469684, AC.TZ.03.3301_v1_c24.HM215294, B.US.x.1989b5.HQ110667,
B.GB.97.CW048.AJ418521, C.MW.06.CHV0011568_2052_E8INSERTION.FJ444572,
B.US.98.902020_SGA_A11.EF593208, C.IN.93.93IN999.AF067154,
C.TZ.06.6022_v7_c24.HM215319, B.US.97.9019_03_p10.EU575850,
C.ZA.03.03ZAPS128MB1.DQ275643, 03_AB.RU.96.KAL68_1.AF082485, B.GB.86.GB8_C1.Y13716,
B.CY.05.CY087.FJ388918, B.US.02.Z34_A3.EF593297, B.GB.97.CW012.AJ418495,
B.US.86.SFMHS1.AF025749, C.MW.96.C111_G3_3S.HM639196,
C.ZA.03.03ZAPS071MB1.DQ396376, C.ZA.05.05ZASK244B1.DQ369992,
C.ZA.04.04ZAPS169MB1.DQ396393, 28_BF.BR.99.BREPM12313.DQ085872,
B.US.90.US4.AY173955, C.ZA.06.CHV0008319_704010017_2_G8.FJ443781,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

C.ZA.03.03ZAPS089MB1.DQ351216, C.ZA.07.CH010453_w12_p3.HM204615,
07_BC.CN.06.CNHLJ_M06054.EU131811, D.UG.99.99UGA03349.AF484518,
A1D.UG.99.99UGE22831.AF484488, B.US.06.701010027_E_A13.HQ238286,
B.US.x.PRLS19.FJ469763, C.BR.04.04BR021.AY727523, C.BW.00.00BW18113.AF443098,
A.KE.00.00KE_KSM4030.AY736816, C.ZA.99.98ZADu301.AY529665,
BC.BR.02.02_BR_HF31.GQ365649, B.BR.03.BREPM1027.EF637054,
B.US.95.6240_08_TA5_4622.EU289190, C.ZM.03.ZM214M.DQ388516,
C.ZA.04.04ZASK190B1.DQ056409, B.GB.09.T520b_F9.HQ595805, C.ZA.09.21200845.HQ595765,
B.JP.x.pJPDR0796B02.AB565478, 02_AG.FR.94.PHI324.AY231153,
01A1.CM.01.01CM_1152NG.AY371163, C.GB.01.28_C28_g.FJ977093,
B.DK.04.PMVL_018.EF514697, B.US.x.G6519TOB8U.GU727961,
C.ZA.03.03ZASK016MB2.DQ351233, B.US.x.CR0234.FJ469711, BF1.IT.02.59211.GU595151,
B.US.03.PSL024B10.GU562272, 07_BC.CN.x.CH110.EF117257, B.AU.x.2870718.AY857022,
B.AU.x.HCPI_10_01.GU367395, B.US.98.zp9023_p5.EF593310, B.SE.96.P2a_19960723.GU204926,
B.GM.09.N059733.HQ385456, C.ZA.03.03ZASK042B2.AY878069,
B.US.x.AC160_T9_Day_1034_Dom.EU616649, B.BR.05.BREPM1081.FJ195091,
C.BW.00.00BW17835.AF443096, B.JP.x.JRC05B.AB565497, C.ZA.98.TV007A.AF391238,
A1.KE.00.KSM4024.AF457077, B.US.02.APV_14.DQ869020, B.US.x.E2514TOB8U.GU728293,
B.BR.03.BREPM1032.EF637051, B.GB.97.CW010.AJ418494, A1.TZ.97.97TZ02.AF361872,
10_CD.TZ.96.96TZ_BF071.AF289549, B.PE.x.H029.EF210726

Protein sequences (# 844) covered by at least 35%

B.US.06.HTM385B7.GU562266, BC.BR.05.05_BR_NSP24.GQ365650,
B.GB.04.MM39d11p.HM586193, B.US.97.624708_SGA_D14.EF593200,
C.ZM.02.ZM206F_SGA_A5.EU166449, C.ZA.98.98ZADu104.AY529659,
D.KE.93.QA465_59M_ENV_D1.FJ866137, 42_BF.LU.06.luBF_18_06.EU170139,
B.US.x.F7204.DQ886033, B.AU.86.MBC200.AF042100, B.AU.x.HCPI_07_01.GU367406,
C.ZA.99.LT50.AY522736, A1CD.SE.95.SE8603.AF075702, B.US.95.5768.AY835435,
BC.BR.01.01_BR_RGS69.GQ365652, BF1.JP.x.DR0769.AB253430, B.ES.x.MH04.EF531333,
B.CN.01.CNHN24.AY180905, B.TT.99.TT35P_CRC04429_7H12.EF593268,
C.ZA.09.704MC004N.GU080162, B.HK.06.HK002.FJ460499, B.US.99.9079_09_TA10.EU576268,
B.JP.x.ETR.D12582, B.US.06.CR0131.FJ469700, C.ZA.04.04ZAPS198MB1.DQ445637,
C.MW.96.C070_D9_2S.HM639015, B.CY.05.CY068.FJ388912,
C.ZA.07.CH010355_w2_p1.HM204606, B.DE.86.D31.U43096, C.BE.x.VI829_1.EU191613,
B.US.86.5084_86.AY835775, C.ZA.99.LT21.AY522726, B.US.04.7092_A1.EU578047,
C.MW.93.93MW_965.AY713413, AC.KE.97.ML672.AY322191, 02_AG.GM.01.N010897.HQ385450,
B.CY.05.CY070.FJ388960, B.US.05.C94v1e4.DQ410562, C.ZA.03.SK029B2.AY772691,
01B.TH.06.40CC3.EU743760, C.ZA.98.TV014A.AF391247, B.NL.94.ACH142_*E11.DQ178989,
B.US.08.700010501_B4_BL.HM638517, B.GB.05.P1_DAY_1.FJ653437,
B.JM.05.05JM_KJ108.EU839605, B.CY.05.CY131.FJ388935, B.US.05.L8249.DQ886037,
B.US.x.X1537TOB8U.GU728237, C.CN.07.CNE53.HM215417, C.GB.08.M320d_F9.HQ595787,
C.ZM.03.ZM249M_fIF1.FJ496214, BF.AR.00.ARCH003.AY037267, C.TZ.98.98TZ013.AF286234,
C.TZ.01.A125.AY253304, B.US.x.J9520TOB8U.GU728227, C.BW.00.00BW3886_8.AF443112,
C.ZA.06.2833264.HQ595757, C.ZA.00.1178MB.AY463233, B.EC.89.EC003.AY173959,
C.ZM.03.ZM246FM_BULK_60.EU166715, C.ZA.08.CH010540_e_p1.HM204617,
C.ZA.00.1197MB.AY463234, C.ZA.03.03ZASK107B1.DQ056410, A1.RW.93.93RW037A.AB287379,
C.IL.99.99ET14.AY255825, C.TZ.01.A388.AY253317, ACD.TZ.04.3103_v3_c10.HM215288,
B.GB.09.B400_G4.HQ595769, B.US.98.9026_07_p16.EU576016, B.JP.x.DR2735.AB564746,
B.CY.05.CY065.FJ388910, B.US.07.CR0027M.FJ469689, C.ZA.04.04ZASK171B1.DQ351217,
B.US.97.1012_08.AY331285, A1C.RW.92.92RW009_06.U88823,
CF1.MW.07.CH010180_w12_p1.HM204593, C.ZA.04.SK143B1.AY703910,
B.US.x.AC_04_0_Days_Consen_fa.DQ127534, C.MW.96.C047_E10_2S.HM638986,
D.UG.97.183MPc02.EU852966, 02_AG.BE.95.24/00_189.DQ313242, A1D.KE.95.Q168.AF407149,
C.ZA.04.04ZASK202B1.DQ011180, C.TZ.01.A260.AY253310,
C.IN.07.NARI_IVC4_NEM_J2.EU908218, A1D.UG.90.UG266.AY352657,
B.KR.96.KR5058_C8.AJ417413, C.ZA.99.LT36.AY522729, C.ZA.03.03ZAPS026MB1.DQ369985,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

B.IN.x.11807.EF694037, B.NL.92.19663_31C9.GU455505, C.ZA.05.CAP257_7w_F1.GQ999990,
AC.TZ.01.01TZ_HS123_3env16r.AY887516, C.ZM.03.ZM246M_040403_SGA_T4.EU166769,
A.KE.x.BJ613_W6M_ENV_E1.DQ208448, C.BW.00.00BW16162.AF443092,
D.UG.99.99UGE13613.AF484515, B.AU.x.7894552.AY857127, B.US.97.zp9024_p17.EF593311,
B.US.97.63068_05_A13.EU575670, B.US.x.HCPI_12_01.GU367399,
AC.TZ.06.3812_v6_c05.HM215309, B.CY.05.CY113.FJ388930, C.ZA.03.SK041B1.AY772693,
C.ZA.05.CAP210_5w.GQ999983, B.US.02.FOJO_C13.EU578104, B.US.04.L819.FJ469745,
C.MW.96.C113_E6_2S.HM639260, B.US.99.Z16_G28.EU577525,
C.MW.96.C012_F12_3S.HM638803, AD.KE.x.BF535_W6M_ENV_C2.DQ208433,
A1.RW.92.92RW025A.AB287377, B.US.96.BG1168.AY835443, H.CF.90.056.AF005496,
B.CH.01.NAB1pre_cl_12.EU023916, B.CY.05.CY030.FJ388956, B.US.05.N8_DAY_1.FJ653196,
C.MW.96.C009_B8_3B.HM638713, B.US.x.V4547TOB8U.GU728321, B.DK.01.CTL_018.EF514706,
B.AU.x.HCPI_08_02.GU367398, B.RU.04.04RU139089.AY751407, B.GB.x.PE124_1.AJ286337,
B.CY.05.CY093.FJ388923, 15_01B.TH.96.M169.DQ354120, B.US.97.1053_07_B5.EU575212,
B.CN.06.CNHLJBM06057.EU131800, B.ES.08.X2510_2.FJ853622,
CD.TZ.03.6650_v1_c8.HM215337, 08_BC.CN.98.98CN006.AF286229,
B.CN.03.CHNHLJBSF03009c34.AY905493, B.ES.x.LMP0519.DQ141345,
B.NL.93.H3_40_10C9.EU744081, B.RU.04.04RU128005.AY682547, C.BI.91.BU910611.U39246,
C.FI.91.FIN9149.AF219263, B.GB.09.E355_A10.HQ595777, B.TH.96.M081.DQ354116,
B.DE.05.243_D1.GU191385, B.GB.x.UK6_5a_9.HQ122397, B.AU.95.C76.AF538306,
C.BW.00.00BW3891_6.AF443113, C.ZA.03.03ZASK061B1.AY901968,
C.ZA.05.CAP63_5w_F4.GQ999976, C.TZ.02.CO3056.AY734550, A1D.KE.00.MSA4071.AF457082,
C.TZ.02.CO6721.AY734560, B.US.05.04013383_0_SC13.HQ238279,
A1CDGKU.ZA.99.CM4.AF411964, B.GB.08.CH080024_e_p1.HM204626,
BC.CN.96.YNRL9607.AY967804, B.US.x.X5533TOB8U.GU728050,
B.US.x.W0504TOB8U.GU727980, C.MW.05.CHV0011618_2103_D4INSERTION.FJ444620,
C.BW.00.00BW5031_1.AF443115, C.ZA.02.02ZAPS008MB1.DQ275647,
C.BW.96.96BW16B01.AF110976, B.US.x.Q4533TOB8U.GU728073, B.US.04.H9v2ed10.DQ410238,
B.GB.08.G125b_H6.HQ595779, C.IN.99.HIV_25711_2.EF117272,
AC.TZ.04.6041_v3_c23.HM215321, B.US.97.1054_TC4_1499.EU289185, C.ZA.99.LT39.AY522731,
B.JM.09.09JM_PF09XN.HM030559, B.CN.06.CNHLJBSF06056.EU131804,
ACD.TZ.03.6095_v1_c10.HM215323, C.TZ.x.346_F4_D2_12.HM215302, C.ZA.99.LT28.AY522728,
A1.KE.86.ML170_1986.AF539405, B.US.x.R0500TOB8U.GU727977,
B.GB.08.CH080156_e_p1.HM204639, B.GB.95.822CD345.AJ535611,
C.ZA.06.CHV0005998_CAP37.1.18G1.FJ443426, B.US.95.3988.AY835436,
B.US.x.W7526TOB8U.GU727917, B.PE.x.H030.EF210727, 02A1.CM.04.242.EU513188,
B.US.03.SH8233.FJ469770, C.ZA.04.04ZASK173B1.DQ093604, B.AU.99.1181.AF538302,
C.TZ.04.377_v4_c09.HM215308, C.BW.98.98BWMO36A5.AF443081,
02_AG.GM.97.N180032.HQ385449, B.US.04.5539_E6.EU577947, B.US.x.Y4501TOB8U.GU728093,
A1CD.KE.02.ML2000.EU110093, D.UG.99.99UGK09259.AF484498, C.ZA.09.20970668.HQ595752,
C.ZA.03.03ZAPS073MB1.DQ275649, C.ZA.02.RP6.DQ447269, B.US.02.Z33_G11.EF593296,
C.GB.01.38_C38_22.FJ977095, B.JP.01.DR388.AB289590, C.ZA.04.04ZASK167B1.DQ164127,
12_BF.UY.99.URTR23.AF385934, B.US.91.R3A.AY608577, B.US.98.9032_08_B33.EU576141,
B.ES.07.X2149.EU786678, B.GB.08.Q230_F6.HQ595794, B.US.x.F7174.DQ886032,
K.CD.97.97ZR_EQTB11.AJ249235, C.ZA.05.05ZAFV11.DQ382369, B.CN.06.CNE6.HM215423,
B.GB.09.S321_E3.HQ595801, B.US.x.M1504TOB8U.GU728313,
C.ZA.03.03ZAPS027MB1.DQ351223, 40_BF.BR.04.04BRSQ46.EU735540,
C.ZA.04.SK144B1.AY703911, B.US.02.L893P.FJ469749, C.ZM.96.96ZM751.AF286225,
B.US.03.PRLS24.FJ469764, C.US.98.98US_MSC3018.AY444800, B.US.05.N7_DAY_1.FJ653159,
C.TZ.01.BD39_8.AY253313, C.TZ.04.98_v3_c5.HM215355,
A1.KE.96.QB726_70M_ENV_C4.FJ866112,
B.US.04.4295_1.EU577811, B.US.03.H28v1e3_3.DQ410422, C.ZA.04.04ZASK148B1.DQ093590,
B.GA.88.OYI.M26727, C.ZA.04.04ZAPS205B1.DQ093599, A.TZ.02.783_v0_c51_tp1.HM215347,
C.TZ.05.3168_v4_c10.HM215289, B.US.06.2857_p1.FJ152546, B.TT.01.TT114PC_8A12.EU578603,
A1.KE.00.MSA4070.AF457081, A1C.TZ.97.97TZ08.AF361878, A.GM.05.N33456.HQ385452,
B.US.06.MCRO_C1.EU578223, B.US.x.HCPI_06_01.GU367408, A.GB.x.MC108.Y13717,
C.ZA.98.TV002.AY162224, C.UY.01.TRA3011.AY563169, C.CN.06.CNE58.HM215421,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

C.ZA.04.04ZASK132B1.DQ093594, C.BW.99.99BWMC168.AF443087,
40_BF.BR.05.05BRRJ055.EU735537, A1.KE.99.KSM4021.AF457075,
07_BC.CN.x.CH064.EF117254, B.US.x.W0515TOB8U.GU728297, 02_AG.EC.x.ECU42.AY151002,
B.GB.x.UK1BR_15.AF491740, BF.AR.99.A025.AF408626, B.US.x.HCPI_18_01.GU367405,
AD.US.99.99US_MSC4068.AY444799, B.US.x.E6537TOB8U.GU727880,
B.US.05.P7_WEEK_20.FJ653547, B.ES.08.P2008.FJ670531, C.BI.91.BU910717.U39245,
C.MW.07.CH010102_e_p2.HM204588, C.MW.07.CH010167_w8_p2.HM204592,
B.ES.08.ES.GQ372990, B.US.97.zp62995_p2.EF593304,
C.ZA.05.CHV0008960_CAP217.1.07H2.FJ443986, B.DK.01.CTL_017.EF514705,
C.IN.98.98IN012.AF286231, C.ZA.04.04ZAPS168B1.DQ164121, C.ZA.04.04ZASK206B1.DQ056415,
B.GB.96.875DEN49.AJ535612, 07_BC.CN.x.BC10.EU363840, B.CO.01.PCM039.AY561239,
C.BW.96.96BW0402.AF110962, C.ZA.07.20258279_v1.HQ595762,
A.KE.99.99KE_KNH1088.AY736811, B.CN.04.CHNHLJBF04029c2.AY905495,
C.ZA.03.SK040B1.AY703908, B.CH.03.NAB2pre_cl_3.EU023919, C.BW.00.00BW3970_2.AF443114,
B.US.01.TRJO_fid3.FJ496157, 21_A2D.KE.99.KER2003.AF457051,
01DU.CM.01.01CM_4008HAN.AY371168, B.US.04.UNC5283_17.EF593273,
C.ZA.06.CHV0008645_CAP269.2.00G7.FJ443911, C.ZA.05.CAP255_8w_F1.GQ999988,
B.US.95.5073_95.AY835768, C.IN.99.HIV_16845_2.EF117269, B.CN.x.B01.EU363825,
BC.CN.07.CNE40.HM215414, C.ZA.04.04ZASK146.AY772699, 02_AG.NG.x.IBNG.L39106,
C.ZA.09.704MC008N.GU080166, B.TT.99.TT34P_CRC04276_8D1.EF593267,
C.UG.90.UG268A2.L22948, A.KE.x.BI206_W6P_ENV_C1.DQ208467,
36_cpx.CM.00.00CMNYU1162.EF087995, DU.CM.x.247.EU683891,
AC.TZ.x.605_F4_12_5.HM215322, C.ZA.05.05ZAFV8.DQ382366,
B.US.97.63215_03_p20.EU575697, D.TZ.05.3016_v5_c45.HM215283, B.CY.05.CY075.FJ388916,
C.ZM.x.SE12808.AY494971, C.ZA.03.03ZASK212B1.DQ093596,
C.ZA.07.CHV0008592_CAP188.1.22A10.FJ443860, C.ZA.04.04ZAPS195B1.DQ164118,
B.JM.09.09JM_PF0B9L.HM030565, C.ZA.05.CAP244_8w_F1.GQ999986,
B.US.x.V8518TOB8U.GU728336, 38_BF1.UY.04.UY04_4022.FJ213782,
B.US.x.R6526TOB8U.GU727875, B.US.03.APV_8.DQ869032, B.US.x.S1532TOB8U.GU728234,
07_BC.CN.x.YN99r_5.HQ326137, A1.SE.94.SE7253.AF069670, C.ZA.03.03ZASK062B1.DQ164113,
C.BW.96.96BWM032.AF443075, B.US.01.APV_11.DQ869017,
02_AG.GH.03.03GH184AG.AB286859, D.CM.01.01CM_0175BA.AY371156,
B.US.x.R5508TOB8U.GU728343, B.US.05.012286G.FJ469683, B.US.01.APV_4.DQ869028,
B.AU.x.15888_12.AY624305, A1.KE.04.QG984_21M_ENV_A3.FJ866117,
C.ZA.07.CH010408_w12_p1.HM204611, C.MW.08.CH010432_w4_p1.HM204613,
D.TZ.87.87TZ4622.U65075, C.ZA.03.03ZASK073B1.AY901970, B.JP.04.04JPDR6075B.AB221126,
C.TZ.04.0984_v2_c2.HM215263, C.ZA.01.01ZATM45.AY228557, C.TZ.00.390_F1_B7.HQ697983,
C.TZ.01.BD16_10.AY253320, B.US.96.62615_03_p10.EU575593,
C.ZA.03.03ZAPS108MB1.DQ396378, BC.IN.02.NARI7_3.EU000511,
C.ZA.03.03ZAPS094MB1.DQ396377, C.ZA.03.03ZASK072B1.DQ093593,
C.ZM.02.02ZMBC.AB254149, 07_BC.CN.x.SC11_59.HQ326127, AC.BE.x.VI313.AJ277825,
B.US.07.CR0295S.FJ469716, C.ZA.03.03ZAPS052MB1.DQ369987,
AD.KE.x.BL035_W6P_ENV_C2.DQ208482, C.ZA.03.03ZAPS151MB1.DQ396392,
B.GB.08.CH080052_e_p1.HM204629, A1.UA.01.01UADN139.DQ823357,
C.MW.04.CHV0011387_0985_H7.FJ444391, 02_AG.CM.97.97CM_MP573.AM279358,
C.ZA.03.03ZAPS116MB1.DQ445635, B.ZA.85.R84.FJ647145,
C.MW.04.CHV0011414_1172_A5FRAMESHIFT.FJ444418, C.ZA.04.04ZASK182B1.AY878054,
A1U.GA.90.VI525_1.EU191612, B.US.92.92US657_1.U04908,
C.ZA.07.CH010420_w16_p1.HM204612, B.US.98.15384_1.DQ853463,
B.BR.02.02BR008.DQ358808, C.ZA.99.LT17.AY522724, A.KE.90.K89.L22943,
C.TZ.97.97TZ05.AF361875, C.ZA.97.97ZA012.AF286227, B.US.03.PRLS25.FJ469765,
C.ZA.00.1119MB.AY463229, B.GB.08.CH080134_e_p1.HM204637,
D.UG.99.99UGB21875.AF484480, B.NL.87.19298_9E8.GU455480,
B.AU.03.PS4048_Day0.DQ676886, B.AR.99.ARMA132.AY037282,
A.KE.00.00KE_KNH1144.AY736812, B.GB.05.MM43d368_GN1.HM586209,
B.US.04.SAMI_WGA1.EU547186, A.KE.x.BG505_W6M_ENV_C2.DQ208458,
D.UG.97.108FPc01.EU852934, C.ZM.03.Z221MPL7MAR03ENV2_1.HM068598,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

B.CA.96.WC10C_10.AY314061, C.ZA.09.704MC008F.GU080165, C.ZA.09.704MC037F.GU080198, C.ZM.03.ZM178F_SGA_B14.EU166359, 19_cpx.CU.99.CU29.AY588971, C.ZA.04.04ZASK031B2.AY901974, B.US.05.P5_DAY_1.FJ653360, B.IT.95.TRO.AY835445, B.CN.06.CNHLJSF06060.EU131810, B.US.03.FERI_SGA_A1.EF593222, 08_BC.CN.x.GX75_20.HQ326144, 02_AG.SN.01.3233_p12.HM215292, 08_BC.CN.x.BC17.EU363847, B.GB.x.AC_46.U36863, 15_01B.TH.02.02TH_OUR1332.AF529573, B.US.02.PRLS08.FJ469757, C.BW.00.00BW3876_9.AF443111, B.GB.08.CH080095_e_p1.HM204633, C.ZM.03.ZM246F_fid5.FJ496194, C.ZM.02.32M_BML_1032.HM036864, B.KR.92.KR2057_C5.AJ417425, B.FR.00.309_L_1.AY535455, C.ZA.03.03ZAPS057MB2.DQ369989, C.ZA.04.04ZASK217B1.DQ056417, A.KE.x.MS208w6BMCB1_gp160.DQ187009, A1D.DK.98.MA.DQ912823, B.GB.09.B520_A3.HQ595770, C.FI.92.FIN9277.AF219269, C.ZA.04.04ZASK168B1.AY878058, B.US.06.2866_P4.FJ152547, B.US.98.Z05_D6.EF593284, C.ZA.07.CH010368_w8_p2.HM204607, BF1.BR.99.BREPM108.AY771589, BC.CN.07.341.HM776939, C.KE.91.KNH1268.AY945738, B.US.x.G8521TOB8U.GU728280, C.ZA.99.99ZATM2.AY529678, D.ZA.90.R1.EF633445, A1.SE.95.SE8891.AF069673, B.US.06.CR0047U.FJ469691, D.FI.93.FIN93178.AF219272, 02_AG.NG.01.PL0710.DQ168577, A1D.UG.98.98UG57147.AF484522, C.ZA.03.03ZASK013B2.DQ275660, A1.KE.94.Q23_17.AF004885, C.MW.04.CHV0011472_1196_D7.FJ444476, B.US.02.CR0023W.FJ469688, C.ZA.03.04ZAPS194MB1.DQ275650, B.FR.93.PHI146.AF041127, B.CY.05.CY149.FJ388940, C.ZA.04.04ZASK147B1.DQ164114, B.US.01.Z27_F10.EF593291, 02_AG.FR.x.DJ263.AB485634, C.ZA.04.04ZASK193B1.DQ396396, B.US.05.5479_A8.EU577917, B.US.x.AC_16_0_Days_Consen_fa.DQ127537, C.TZ.05.933_v4_c4.HM215352, B.HK.06.HK004.FJ460501, B.US.00.ES1_20.EF363123, B.BR.02.02BR013.DQ358810, C.ZA.03.03ZAPS051MB1.DQ396385, B.ES.06.X2102.EU786677, C.ZM.02.ZM215F.DQ422948, B.US.97.HTM319C1.GU562236, B.US.x.AC_59_41_Days_Seq1_fa.DQ127548, A.SN.01.DDI579.AY521629, C.ZA.06.CHV0005511_CAP221.1.10C6.FJ443331, C.TZ.02.CO328.AY734551, C.MW.x.BF942_218d.HM215362, AC.TZ.08.707010629_B5.HQ540690, C.ZM.02.02ZM114.AB254146, B.US.04.HDNDRPI034A4.GU562155, B.US.x.X5515TOB8U.GU728181, B.BR.03.BREPM1028.EF637053, C.BW.00.00BW20361.AF443102, 02AG.CM.02.02CM_3205MN.GU201504, C.BI.91.BU910812.U39251, C.ZA.03.03ZASK019B2.AY878063, B.US.06.CR0222X.FJ469709, A1.GB.08.CH080117_e_p1.HM204635, C.ZA.04.04ZASK201B1.DQ396397, 35_AD.AF.05.05AF026.EF158043, C.ZA.09.704MC003N.GU080161, B.TH.96.M140.DQ354112, B.CY.05.CY150.FJ388941, C.ZA.06.CHV0007319_CAP177.1.11TB8.FJ443518, B.GB.08.CH080225_e_p2.HM204646, A1D.DK.96.FSA.DQ912822, C.ZA.03.03ZAPS133MB1.DQ275646, C.TZ.05.6040_v4_c15.HM215320, B.JP.x.JRC03B.AB565496, B.US.98.1056_TA11_1826.EU289186, B.US.01.Z31_B7.EF593294, B.NL.00.671_00T103.AY423386, C.AR.01.ARG4006.AY563170, C.ZA.99.LT38.AY522730, A.KE.00.00KE_KER2018.AY736810, B.US.86.SFMHS16.AF025759, C.ZA.09.3611665.HQ595760, 07_BC.CN.x.XJ16_6.HQ326133, C.ZA.09.704Mc031F.GU080193, B.ES.07.X2231.EU786680, B.KR.95.KR5086_C8.AJ417431, D.YE.01.01YE386.AY795903, B.DK.04.PMVL_039.EF514703, BC.CN.x.BC13.EU363843, C.ZA.08.20803520.HQ595748, B.US.02.F714.FJ469730, B.US.x.D4535TOB8U.GU728225, C.MW.04.CHV0011538_1394_H5.FJ444542, B.SE.95.P1a_19950824.GU204920, C.ZA.04.04ZASK139B1.AY878072, BC.DO.05.05DO_147691.EU839599, C.TZ.04.0921_v2_c14.HM215262, A1CG.KE.02.ML1979PCR.EU110096, D.UG.99.99UGD23550.AF484485, C.ZA.09.704MC021N.GU080183, B.DK.01.CTL_016.EF514704, 02_AG.GM.07.N47046.HQ385462, B.US.x.A7540TOB8U.GU728333, C.CY.05.CY040.FJ388901, 02_AG.US.00.00US_MSC3083.AY444811, C.ZA.03.03ZAPS131MB1.DQ396380, A1C.KE.06.06KECst_004.FJ623489, B.US.02.HEMA_A13.EU578122, B.US.06.CH16E_A1.EU576345, C.ZA.04.04ZASK169B1.DQ396381, B.US.03.APV_19.DQ869025, B.US.97.9022_09_p10.EU575927, C.ZA.06.CHV0005480_CAP69.1.12TA8.FJ443300, B.CH.x.NAB12pre_cl_7.EU023933, B.GB.08.CH080203_e_p1.HM204644, 02A1.SN.96.DDJ362.AY521632, D.UG.99.99UGK09958.AF484499, B.FR.x.CHA.AF321080, B.GB.08.T460_C6.HQ595803, C.ZA.98.TV004.AF391234, B.US.07.700010246_E_B4.HQ238285, C.US.x.V2537TOB8U.GU728173, C.ES.07.X2118_2.EU884500, B.US.03.L8107.FJ469739, AD.KE.90.K124A2.L22942, C.ZA.04.04ZASK204B1.DQ056414,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

C.ZA.07.CH010392_w4_p2.HM204610, C.IL.99.99ET7.AY255824, C.ZA.98.Du21.AY529661,
B.US.99.12008_09_A7.EU575441, B.US.x.CR0036W.FJ469690,
C.MW.x.BF1677F2_613a.HM215361, B.US.x.JHU559_FDC_ccG2S.EF440778,
C.ZA.04.04ZAPS188B1.DQ164122, C.ZA.03.SK065B1.AY772694,
C.MW.x.BF1266_431a.HM215360, B.US.05.CR0208W.FJ469706, B.US.x.B3535TOB8U.GU728216,
02_AG.SE.94.SE7812.AF107770, A1.UG.90.UG275A.L22951, BF.BO.99.BOL0137.AY037271,
B.ES.07.X2210_3.EU786679, A.UG.07.9004SS_A3_4.HM215350, B.US.x.X3578TOB8U.GU728054,
35_AD.AF.07.169H.GQ477446, B.US.x.CR0127W.FJ469699,
C.ZA.05.CHV0005457_CAP200.1.06E8b.FJ443280, C.ZA.99.DU422.AY043175,
C.MW.03.CHV0011217_0393_F11INSERTIONS.FJ444221,
C.MW.08.CH010259_w16_p1.HM204597, 36_cpx.CM.00.00CMNYU830.EF087994,
B.MM.99.mSTD101.AB097870, A1.KE.00.MSA4069.AF457080, C.ZA.05.05ZAFV7.DQ382365,
A1.RU.06.06_RU_SP_SC1233_VI_2D6.GU481566,
C.ZA.07.CHV0008639_705010015_H7.FJ443905, B.CN.04.CNHLJBF04019.EU131792,
B.ES.06.X1998.EU786676, C.ZA.03.03ZASK113B1.DQ351237, B.KR.96.KR3026_C4.AJ417428,
18_cpx.CM.97.CM53379.AF377959, C.IN.95.95IN21068.AF067155,
B.UA.01.01UAKV167.DQ823362, C.ZA.99.LT42.AY522733, A2C.ZM.89.ZAM716_3.U86778,
B.US.00.PRB958_06_TB1_4305.EU289199, C.ZM.03.Z185FPL31JUL03ENV1.1.GQ485357,
B.AU.04.PS2016_Day380.DQ676879, C.MW.04.CHV0011496_1335_H3.FJ444500,
C.ZM.02.3M_BMR_1319.HM036985, C.ZA.08.CH0534_e1.HM204624,
B.AR.03.03AR137681.DQ383748, B.AU.93.MBC18.AF042102, B.US.x.1989b3.HQ110679,
B.DK.01.CTL_030.EF514708, B.CA.00.CANA6FULL.AY779552,
02_AG.CM.02.02CM_0015BBY.AY371127, C.MW.08.CH010440_w4_p1.HM204614,
C.ZA.00.1228MB.AY463222, C.MW.07.CHV0008489_703010193_D2_stop.FJ443615,
C.ZA.99.99ZASW9.AY529675, C.ZA.07.CHV0012645_705010078_A10.FJ444631,
C.ZA.03.03ZAPS126MB1.DQ275657, C.ZA.05.CAP85_5w_F1.GQ999979,
B.US.x.H5519TOB8U.GU727913, B.TT.95.QH0865_M.AF277071,
C.ZA.03.03ZASK066B1.AY901969, C.ZA.98.Du123.DQ411850, C.FI.91.FIN9126.AF219262,
B.US.03.CR0154X.FJ469701, C.ZA.03.03ZAPS050MB1.DQ369980,
B.GB.09.W450b_C12.HQ595806, C.ZA.00.00ZAPCP1.AY529667, C.TZ.05.3637_v5_c3.HM215305,
D.UG.99.99UGA07412.AF484477, C.ZA.00.1192M3M.AY463219, B.CA.x.HDM003V01.DQ322227,
02_AG.ES.06.P1261.EU786671, A.SN.01.DDJ369.AY521631, C.ZA.99.LT25.AY522727,
B.CY.05.CY124.FJ388933, C.BW.98.98BWMO18D5.AF443080, B.FR.92.PHI120.AF041125,
C.BW.98.98BWMO1410.AF443079, C.MW.03.CHV0011179_0114_H10.FJ444184,
C.ZA.03.03ZASK078B1.AY901971, 15_01B.TH.99.99TH_R2399.AF530576,
B.US.02.PRLS16.FJ469760, B.US.x.T9524TOB8U.GU728229, C.ZA.01.01ZARP1.AY529666,
22_01A1.CM.01.01CM_0001BBY.AY371159, B.US.98.zp9030_p19.EF593316,
B.US.02.F797.FJ469737, B.US.x.H9514TOB8U.GU728268, A1.KE.86.ML013_10.AY322184,
C.CN.07.CNE30.HM215411, B.AU.x.VH.AF146728, C.ZA.x.312b8e6.GU216844,
B.US.x.NC7.AF049495, C.ZA.04.04ZASK131B1.DQ056412, C.ZA.07.20296368.HQ595746,
B.US.01.Z29_A12.EU577629, B.CN.04.CNHLJBF04025.EU131790,
02_AG.CM.02.02CM_1669LE.AY371139, 0225.CM.x.2931HA.DQ826727,
B.AR.04.04AR151263.DQ383751, C.ZA.03.03ZASK213B1.DQ093607, BC.CN.x.BC11.EU363841,
A1D.KE.06.06KECst_015.FJ623490, C.ZA.04.04ZASK181B1.AY878062,
07_BC.CN.x.YN148r_9.HQ326139, A1D.UG.99.99UGC06443.AF484479, B.JP.x.DR1673.AB564745,
B.US.04.F7165.FJ469732, B.RU.04.04RU139095.AY819715, C.ZA.03.03ZAPS105MB2.DQ445632,
D.UG.99.99UGB32394.AF484483, A1C.TZ.97.97TZ09.AF361879,
C.MW.03.CHV0011273_0595_G9FRAMESHIFT.FJ444277, B.GB.08.G230_H7.HQ595780,
28_BF.BR.99.BREPM12817.DQ085874, B.US.99.907712_SGA_TA1.EF593212,
B.PE.x.H035.EF210729, C.ZA.03.03ZASK111B1.DQ056404, A.CM.97.97CM_MP582.AM279343,
37_cpx.CM.97.CM53392.AF377957, C.ZA.99.LT18.AY522725, D.UG.99.99UGJ27597.AF484497,
CD.TZ.01.A247.AY253309, B.US.98.9021_14_B2_4571.EU289196,
A1D.UG.99.99UGF27390.AF484492, 07_BC.CN.07.BJOX002000_01_3.HM215363,
BF1.IT.02.30638.GU595148, B.GB.08.B650c_E2.HQ595771, A1C.TZ.02.CO6770.AY734554,
B.GB.08.R232_F6.HQ595795, AU.NG.95.NG1935.AF069939, B.US.00.WITO_fic9.FJ496174,
A1D.UG.92.92UG035_22.U36883, B.US.03.PRLS12.FJ469759, 02A1.ES.07.ES.GQ372986,
CD.TZ.97.97TZ07.AF361877, B.US.06.CR0215.FJ469708, C.ZA.04.04ZAPS177MB1.DQ396394,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

C.MW.04.CHV0011411_1086_H9.FJ444415, B.CN.06.CNHLJSM06048.EU131794,
B.CY.05.CY074.FJ388915, B.US.06.CR0228Q.FJ469710, B.US.x.HCPI_15_02.GU367403,
B.KR.95.KR5076_K4.AJ417415, B.US.03.L8152.FJ469742, 02_AG.GM.02.N018622.HQ385445,
A1.UG.98.98UG57142.AF484512, C.ZA.03.03ZASK084B1.AY901981,
07_BC.CN.x.CH070.EF117255, B.US.03.APV_18.DQ869024, B.DK.01.CTL_043.EF514712,
C.TZ.01.A246.AY253308, A1C.KE.00.KISII5011.AF457061, B.CY.05.CY141.FJ388939,
B.CN.04.CNHLJBF04026.EU131788, 02_AG.FR.92.PHI127.AY231152, G.CM.04.314_40.FJ389364,
C.MW.07.CHV0008508_703010217_G10_stop.FJ443597, C.ZA.04.04ZASK135B1.DQ011166,
C.TZ.98.98TZ017.AF286235, D.SN.90.SE365A2.L22945, D.GM.94.N73603.HQ385448,
C.ZM.02.35M_BML_1.HM036960, A1D.KE.99.KSM4015.AF457073, C.ZM.02.02ZMJM.AB254156,
D.UG.98.98UG57132.AF484506, 02_AG.GM.94.N73487.HQ385457,
C.ZA.03.03ZAPS130MB1.DQ275658, C.KE.02.QD022_1957I_ENV_A4.FJ396028,
C.TZ.01.BD9_11.AY253322, A1.UG.x.UG031.AB098330, B.GB.08.G435_G3.HQ595781,
B.JP.00.DR2508.AB289588, B.JP.05.DR6737.AB287364, A1.CY.05.CY106.FJ388925,
B.JM.09.09JM_PFOB97.HM030562, B.US.x.MACS3LN2_6.DQ976407, C.IN.x.VB39.EF694033,
B.FR.x.208.EF033658, C.BI.91.BU910316.U39239, B.US.x.135_10.FJ798416,
B.NL.88.19554_16_1H1.GU455465, C.ZA.04.04ZAPS199B1.DQ164110,
CD.KE.01.ML1076.EU110086, B.US.04.H148v1ed4_1.DQ410498,
C.ZM.02.14M_BML_1012.HM036760, C.ZA.04.04ZAPS216B1.DQ093600,
B.US.97.1001_07.AY331282, C.ZA.03.03ZAPS044MB1.DQ396384,
A.KE.00.00KE_KNH1209.AY736813, C.ZA.04.04ZASK160B1.DQ011173,
0209.CI.01.01IC_PCI118.AJ866556, C.ZA.03.03ZASK226B1.DQ164108,
C.IN.94.94IN476.AF286223, D.FI.93.FIN93167.AF219271, B.GB.09.S225_E7.HQ595797,
C.ZA.09.704MC007F.GU080164, B.US.97.CQLDR03A1.GU562058,
B.GB.08.CH080191_e_p1.HM204643, C.ZA.06.CHV0006091_CAP222.1.11A6.FJ443515,
B.TT.98.TT27P_8G3.EU577148, C.ZA.98.TV001.AY162223, A1.KE.06.06KECst_017.FJ623488,
B.US.03.APV_5.DQ869029, B.US.x.V9576TOB8U.GU728185, 35_AD.AF.07.273H.GQ477448,
B.CN.04.CNHLJBF04021.EU131801, B.US.06.CH77E_fid5.FJ496007,
B.US.x.H4570TOB8U.GU728205, B.IT.04.131_D1.GU191372, B.CY.05.CY055.FJ388904,
B.US.98.zp9033_p5.EF593318, K.CM.96.96CM_MP535.AJ249239,
A1.UG.99.99UGG03379.AF484493, B.KR.05.05CSR3.DQ837381, 02_AG.DJ.91.DJ258A.L22939,
C.GB.08.S315_D10.HQ595800, C.ZA.97.97ZA009.AY118166, B.AR.04.04AR151516.DQ383752,
B.US.x.B1539TOB8U.GU728244, C.ZA.05.CAP84_3w_F2.GQ999978, C.ZA.00.1134MB.AY463217,
C.BW.96.96BW0502.AF110967, B.ES.x.LMP0502.DQ141342, B.AR.98.ARCH054.AY037268,
C.ZA.07.5456037.HQ595761, C.ZA.07.CHV0008391_704010069_F6.FJ443712,
C.ZA.02.02ZAPS001MB1.DQ275648, A1.KE.00.KNH1199.AF457067,
A1.UG.00.PP6_F2_B2.HM027847, 29_BF.BR.99.99UFRJ_1.AY455778,
B.CN.06.CNHLJ_M06053.EU131807, C.ZA.05.CAP239_5w_F1.GQ999991,
C.ZA.07.2969249.HQ595766, B.US.x.T0548TOB8U.GU728359, C.ZA.05.05ZAFV23.DQ382376,
C.TZ.02.CO178.AY734556, B.US.04.UNC5799_16.EF593276, C.ZA.04.04ZASK196B1.DQ056413,
A1D.TZ.96.TZBFL0025.AF442565, 35_AD.AF.05.05AF104.EF158042,
A1.KE.00.MSA4079.AF457086, C.ZA.06.19738501.HQ595745, AU.NG.94.NG3678.AF069932,
02_AG.CM.01.01CM_0008BBY.AY371124, 08_BC.CN.x.GX43_2.HQ326142,
C.ZA.98.TV006A.AF391235, A1.KE.06.06KECst_016.FJ623483, B.US.02.F762P.FJ469735,
B.GB.x.PE106_4.AJ286336, B.US.01.APV_3.DQ869027, B.US.04.5417_B11.EF593190,
B.US.01.108051_006.HM769944, B.US.04.5769_B8.EU577989, C.ZA.05.05ZAFV27.DQ382379,
19_cpx.CU.99.CU38.AY588970, A.RW.07.R18553_E1.HM215434,
15_01B.TH.02.02TH_OUR1331.AF529572, 07_BC.CN.05.XJDC6431_2.EF368372,
D.SE.99.P4b_19990121.GU204938, C.ZA.04.04ZASK178B1.DQ093587,
BCF1.AR.04.04AR160677.DQ383754, A.GB.x.MA246.Y13718, C.ZA.03.03ZAPS122MB1.DQ396370,
B.GB.94.749CD352.AJ535607, BF.BR.99.BREPM275.AY771592, C.BW.00.00BW17956.AF443097,
B.CY.05.CY028.FJ388895, B.NL.94.H1_46_5G2.EU744007, C.TZ.02.CO6130.AY734559,
C.ZM.04.10M_BML_301.HM036741, C.ZA.05.05ZAFV13.DQ382371, C.YE.02.02YE511.AY795906,
07_BC.CN.x.CH115.EF117263, A1D.SE.93.SE6954.AF075701, D.UG.x.DM4_032.EF575400,
B.US.04.CR0116Y.FJ469698, 02_AG.GW.04.CC.FJ694791, 13_cpx.CM.02.02CM_A1394.DQ845388,
12_BF.UY.99.URTR35.AF385935, C.ZA.99.99ZALT46.EU293450, B.PE.x.H077.EF210734,
A1.RW.92.92RW008.AB253421, B.US.04.AS1M24env1_8B.EF125659,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

B.US.x.V1528TOB8U.GU728370, BF1.BR.99.BREPM11932.DQ085870,
C.ZA.03.03ZAPS056MB1.DQ396374, B.ZA.03.03ZAPS045MB2.DQ396398,
A.CM.98.98CM_MP1014.AM279354, D.UG.07.191727_E8_13.HM215268,
B.US.x.T5529TOB8U.GU728223, C.MW.07.CH010073_w16_p1.HM204583,
AD.UG.x.C6080_10.U36866, 28_BF.BR.99.BREPM12609.DQ085873,
D.BR.96.patient_96BRRJ100.DQ141204, C.MW.07.CHV0010217_703010200_1B8.FJ444005,
D.UG.97.338MPc01.EU853046, A1D.UG.99.99UGC38442.AF484517, A1.TZ.97.97TZ03.AF361873,
C.MM.99.mIDU101_3.AB097871, C.ZA.01.2134MB.AY463237, B.DK.01.CTL_035.EF514710,
D.FR.x.DGOB.AF321082, B.US.97.901009_SGA_B3.EF593204,
A1.KE.96.Q769_b9_PNS79d.AF407157, C.ZA.07.CHV0008962_705010110_F12.FJ443988,
A1.CY.05.CY023.FJ388894, D.KE.95.QA013_70I_ENV_M12.FJ866135,
A1.RW.93.93RW_024.AY713406, C.ZM.03.31M_BML_203.HM036843,
C.ZA.04.04ZAPS172MB1.DQ275659, A.TZ.04.3365_v2_c20.HM215298,
A1.KE.06.06KECst_019.FJ623478, BG.ES.02.X1100_7.EU885760, B.US.05.L827.FJ469747,
C.ZA.05.CAP229_7w.GQ999985, C.ZA.06.CHV0006073_CAP136.1.16Tb5.FJ443498,
B.US.x.Q0508TOB8U.GU728176, B.US.x.SH8241.FJ469771, B.YE.02.02YE507.AY795904,
DF.CM.93.CA4.AJ277819, C.MW.07.CH0269_e3.HM204622, C.SO.89.89SM_145.AY713415,
C.ZA.00.1170MB.AY463225, B.US.x.Q2524TOB8U.GU727943, B.CY.05.CY132.FJ388936,
A1.UG.99.601MPC7.EU853030, C.BW.00.00BW192113.AF443101, B.US.04.JOTO_A11.EU578165,
02_AG.NG.01.PL0754.DQ168578, D.KE.01.NKU3006.AF457090,
B.UY.01.01UYTRA1179.AY781127, U.CD.97.KMST120.AJ401039, B.ES.08.P2021_3.FJ853620,
B.RU.04.04RU129005.AY751406

Protein sequences (# 844) covered by at least 30%

C.ZA.07.CH010384_w16_p2.HM204609, C.ZA.99.99ZACM9.AF411967,
B.US.96.1304_d31.AY308762, C.ZA.03.03ZASK039B2.AY878068, C.ZA.05.05ZAFV12.DQ382370,
07_BC.CN.x.CH111.EF117258, B.AU.95.MBCC54.AF042103, B.US.x.N4549TOB8U.GU728337,
C.ZA.09.20965238.HQ595751, C.ZM.02.02ZM110.AB254142, B.GB.95.817CD302.AJ535618,
B.US.01.APV_1.DQ869014, C.BW.00.00BW20636.AF443103, B.US.83.RF.M17451,
15_01B.TH.99.99TH.UM2079.AF516184, C.ZA.03.03ZAPS143MB1.DQ396391,
A1D.UG.00.PP4_F2_A4.HM027850, 02_AG.NG.95.NG1921.AF069941,
D.UG.97.295FP01.EU852982, C.ZA.03.03ZAPS104MB1.DQ369990,
F1.AO.06.AO_06_ANG40.FJ900267, B.GB.x.M26864.U36875, B.US.x.L8188.FJ469744,
C.ZA.04.04ZASK127B1.DQ011172, C.ZM.02.ZM235F_SGA_A1.EU166653,
A1G.CM.00.00CMNYU2547.EF025170, 02_AG.SN.99.3169_p4.HM215290,
B.US.04.CR0080N.FJ469697, 02_AG.SN.99.1105_p17_1.HM215264,
02_AG.CM.97.97CM_MP807.AJ286133, C.IN.x.cal308F.DQ404010, B.US.98.zp9028_p5.EF593314,
C.TZ.04.6631_v3_c10.HM215335, AF2G.CM.97.CM52876.AF377958, C.BR.98.98BR004.AF286228,
B.GB.08.D650_E9.HQ595775, B.US.86.5018_86.AY835778, A1C.IN.01.1579A.DQ083238,
B.HT.05.05HT_129389.EU839602, B.US.05.P2_WEEK_8.FJ653474, B.JP.x.DR1777.AB604948,
47_BF.ES.08.P1942.GQ372987, 35_AD.AF.06.077H.GQ477442, C.ET.02.02ET_288.AY713417,
B.TH.x.RPW_0510_2.HM215435, 02B.CY.05.CY029.FJ388896,
29_BF.BR.02.BREPM119.AY771590, B.US.x.P0514TOB8U.GU728341,
02_AG.CM.02.02CM_2348SA.AY371130, 29_BF.BR.99.BREPM11948.DQ085871,
C.ZA.03.03ZASK020B2.AY878064, B.US.03.L8180.FJ469743, C.FI.93.FIN9307.AF219270,
A1.KE.94.Q842_d16.AF407162, C.ZA.07.CHV0008352_704010042_A3_stop.FJ443749,
B.US.89.P896.U39362, C.ZA.03.03ZAPS032MB1.DQ445633,
C.ZA.07.CH010028_w24_p1.HM204581, 02_AG.CM.02.02CM_1677LE.AY371140,
A1.KE.00.MSA4072.AF457083, B.US.04.APV_9.DQ869033, C.ZA.03.03ZAPS091MB1.DQ275645,
02_AG.GH.03.03GH197AG.AB286863, B.PE.x.H022.EF210725, B.US.x.E7538TOB8U.GU728304,
C.ZA.07.CH010207_w4_p1.HM204594, C.ZA.03.03ZAPS097MB1.DQ351230,
A1C.TZ.01.A359.AY253319, C.ZM.04.10M_BML_1801.HM036739, 14_BG.ES.00.X623.AF450097,
A.GM.00.N006909.HQ385444, BC.IN.08.NARI_L5_NEM.J26.FJ515879,
B.CA.05.P6_DAY_1.FJ653506, B.EC.89.EC102.AY173960, C.ZA.08.20721190.HQ595747,
44_BF.CL.01.CH12.AY536235, A.CM.99.99CM_MP1370.AM279345,
AC.TZ.x.216_F2_E3_5.HM215277, C.ZA.04.04ZASK183B1.AY878055,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

C.ZA.05.CAP45_5w_F1.GQ999974, A1F2.CM.01.01CM_1404MV.AY371164,
A1C.TZ.08.CH0536_e2.HM204625, B.CN.04.CNHLJBM04018.EU131796,
A1D.KE.00.KSM4028.AF457078, A1D.UG.98.98UG57129.AF484503,
C.ZA.03.03ZASK098B1.AY878061, A1.UG.98.98UG57136.AF484509, C.IN.98.98IN022.AF286232,
B.JP.05.DR7065.AB287368, C.ZA.04.04ZASK208B1.DQ056406, 02_AG.GM.99.N004445.HQ385454,
G.NG.92.92NG083.U88826, B.CN.07.BJOX022000_02_3.HM215384,
C.ZA.09.704MC021F.GU080182, C.CY.06.CY176.FJ388952, C.ZM.03.33M_BML_110.HM036903,
C.ZA.03.03ZAPS074MB2.DQ351228, B.US.04.CR0345Q.FJ469722, A1.TZ.01.A173.AY253305,
A.TZ.05.0439_v5_c1.HM215258, B.CN.04.CNHLJBF04024.EU131791,
C.GB.01.27_C27_42.FJ977094, C.GB.08.M520c_B9.HQ595789,
02_AG.CM.01.01CM_1237NG.AY371136, B.US.x.AD3V6.AF219627, B.ES.05.X1890.EU786672,
CD.BW.00.00BWM0351.AY074891, 02_AG.CM.01.01CM_1475MV.AY371138,
C.TZ.04.6273_v3_c47.HM215325, C.ZA.03.03ZAPS021MB1.DQ369978, B.US.x.L8157.DQ886035,
C.ZA.03.04ZASK082B1.AY901972, 02_AG.GH.97.97GHAG1.AB049811,
02A1.SN.96.DDJ364.AY521633, A1D.KE.96.QA790_204I_ENV_C8.FJ866126,
CD.KE.00.MSA4077.AF457085, B.AR.00.ARMS008.AY037269, C.ZA.09.704MC028N.GU080190,
B.CN.04.CNHLJBF04030.EU131808, A1.SE.95.SE8538.AF069669,
B.US.96.61792_03_p29.EU575474, C.ZA.09.704MC018F.GU080176, C.ZA.99.LT5.AY522735,
D.KE.97.QB857_110I_ENV_B3.FJ866138, B.TH.96.M145.DQ354118, B.GB.08.P362_E1.HQ595792,
C.ZA.x.035b9d6.GU216739, C.ZA.03.03ZAPS140MB1.DQ369981,
C.ZA.03.03ZAPS024MB1.DQ396367, 07_BC.CN.x.CH114.EF117264,
B.CN.06.CNHLJBF06051.EU131802, C.ZA.07.CH010301_w12_p1.HM204601,
C.CN.07.CNE23.HM215408, C.ZA.04.CAP61_8w_F3.GQ999975,
AD.UG.07.9009SA_A4_2.HM215351, B.US.x.T3511TOB8U.GU728406,
B.US.05.P4_WEEK_4.FJ653478, 01B.CN.06.CNHLJSM06059.EU131799,
C.ZM.03.ZM184F_SGA_TA16.EU166432, C.ZA.03.03ZAPS155MB1.DQ396371,
C.ZA.99.99ZATM12.AY529676, C.ZA.99.99ZATM1b.AY529677, C.BW.96.96BW15B03.AF110973,
C.ZM.01.1M_PL_2006.HM036825, BC.CN.07.309.HM776938, B.NL.86.H0320_2A12.U34603,
C.ZA.09.704MC030N.GU080192, 02_AG.UZ.02.02UZ0683.AY829214,
C.ZA.07.CHV0010269_706010018_2A3.FJ444057, A1G.NG.92.92NG003.U88825,
B.CY.05.CY100.FJ388964, C.ZA.99.LT10.AY522722, D.UG.98.98UG57143.AF484514,
CD.TZ.04.3817_v2_c59.HM215310, B.JP.98.DR1120.AB480698, 02_AG.GW.05.CC.FJ694792,
C.ZA.08.CH010581_e_p1.HM204618, C.ZA.99.Du156.DQ411852, 06_cpx.ML.95.95ML84.AJ245481,
18_cpx.CU.99.CU76.AY586540, A1C.ZA.00.TV239.FJ647147, B.GB.08.CH080169_e_p1.HM204640,
B.AU.x.8634991.AY857144, C.ZA.04.04ZASK083B2.DQ093585,
B.CN.06.CNHLJBM06050.EU131798, B.US.97.6248_07_p17.EU575579,
C.US.05.p07Jenv48.EU663619, B.US.05.N5_DAY_1.FJ653127, D.KR.04.04KBH8.DQ054367,
C.BW.00.00BW38428.AF443109, B.US.x.Macs1_SPLN_15.FJ687543,
A1.UG.98.120Fic01.EU852958, A1D.UG.98.98UG57139.AF484510,
A1.RU.07.RU_064_07_B2.HQ385818, B.US.x.Z7547TOB8U.GU728330,
A1.KE.06.06KECst_020.FJ623482, B.US.x.O1529TOB8U.GU728041,
C.ZA.04.04ZASK150B1.DQ011178, C.ZA.04.04ZASK161B1.DQ011170,
B.GB.09.L563_H1.HQ595786, C.ZA.05.CAP256_6w.GQ999989,
B.US.96.6244_13_B5_4576.EU289191, A.TZ.05.6592_v5_c32_tp1.HM215333,
C.BW.99.99BW4745.AF443085, A1.TZ.01.A341.AY253314, A1.KE.06.06KECst_006.FJ623475,
C.ZA.03.03ZAPS088MB1.DQ275651, A1C.IN.95.95IN21301.AF067156,
38_BF1.UY.04.UY04_3987.FJ213781, C.CN.07.CNE17.HM215403,
CD.UG.99.99UGK10192.AF484500, C.BW.00.00BW38713.AF443110,
B.HT.05.05HT_129696.EU839601, C.ZA.03.03ZAPS152MB1.DQ396399,
09_cpx.SN.95.95SN1795.AY093603, 42_BF.LU.03.luBF_05_03.EU170155,
B.US.02.PRLS09.FJ469758, B.JP.00.DR2510.AB287372, B.CO.01.PCM013.AY561237,
B.CN.04.CNHLJBM04020.EU131789, 07_BC.CN.x.BC18.EU363848, H.BE.93.VI991.AF190127,
B.DK.04.PMVL_049.EF514701, B.US.x.CR0248X.FJ469712, B.GB.08.M535_A7.HQ595790,
A1.FI.91.FIN91121.AF219261, D.TD.99.MN011.AJ488926, D.UG.99.99UGE23438.AF484489,
C.ZA.03.03ZASK010B2.DQ164104, 06_cpx.AU.96.BFP90.AF064699, C.ZA.99.ZASW7.AF411966,
A1C.TZ.02.CO3720.AY734562, C.ZA.98.Du23.AY529662, 11_cpx.CM.95.95CM_1816.AF492624,
B.DO.08.X2348_c2_8.FJ817365, B.CY.05.CY037.FJ388899, 07_BC.CN.x.SC22_16.HQ326132,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

14_BG.ES.05.X1870.FJ670522, B.US.04.H23v1ed8_3.DQ410292, D.UG.97.pt827.EU281995, C.ZA.09.704MC019F.GU080178, D.UG.94.94UG114.U88824, B.DK.04.PMVL_027.EF514698, 26C.CD.97.MBFE250.FM877783, A.KE.99.99KE_KNH1135.AY736814, G.NG.95.NG1929.AF069943, D.UG.98.372FPc02.EU853078, B.US.x.s35_d0_c23.EU604556, B.US.02.PRLS02.FJ469754, A1.KE.01.ML1945.EU110088, C.ZA.02.02ZAPS006MB1.DQ351220, AC.TZ.x.246_F3_C10_2.HM215279, C.ZA.05.05ZAFV3.DQ382362, C.BW.00.00BW07621.AF443088, C.BW.96.96BW11B01.AF110971, 02A.GH.97.G829.AF184155, 02_AG.CM.02.02CM_4082STN.AY371141, B.GB.08.CH080071_e_p2.HM204631, B.CH.x.NAB11pre_cl_18.EU023932, D.UG.99.99UGG35093.AF484495, 05_DF.ES.99.X492.AY227107, B.US.98.98USHVTN3605c9.AY560108, C.ZA.02.02ZAPS015MB1.DQ369995, B.CY.05.CY137.FJ388937, C.ZA.07.CHV0008570_CAP237.1.22C5.FJ443838, CD.KE.97.ML249.AY322187, D.CM.01.01CM_4412HAL.AY371157, A1.KE.00.NKU3005.AF457089, C.IN.x.NARI_VB96_J21.EU521728, B.US.x.B9543TOB8U.GU727890, C.ZA.06.CHV0006062_CAP260.2.00G11.FJ443488, 23_BG.CU.03.CB347.AY900572, B.US.x.X9542TOB8U.GU728014, C.ZM.04.12B_PL_201.GU939124, C.ZA.04.04ZASK159B1.DQ011179, D.KE.97.ML415_2.AY322189, B.US.x.CR0164U.FJ469702, B.ES.x.MH02.EF531331, C.BW.96.96BW17.AF110981, B.TT.01.TT103C_2E1.EU578539, BF.AR.99.A063.AF408628, C.ZA.03.03ZAPS081MB1.DQ351219, B.US.03.PRLS04.FJ469755, CD.TZ.x.401_F1_8_10.HM215313, C.ZA.08.CH010605_w12_p1.HM204619, C.DJ.91.DJ373A.L23065, B.US.x.G3518TOB8U.GU728357, B.GB.x.PE131_3.AJ286339, B.US.x.O5858TOB8U.GU728416, D.YE.02.02YE516.AY795907, A1.UG.07.PP6_F3_B2.HM027824, BF1.BR.99.BREPM11871.DQ085867, G.GH.03.03GH175G.AB287004, B.CO.01.PCM034.AY561238, C.ZA.98.TV010.AF391242, 02_AG.US.98.98US_MSC5007.AY736840, A1D.KE.02.ML1974.EU110090, B.BE.05.N2_WEEK_8.FJ653258, B.TT.97.SC51C_8A2.EU578429, B.GB.08.CH080087_e_p1.HM204632, 11_cpx.GR.x.GR17.AF179368, B.US.x.X6521TOB8U.GU727919, G.CM.99.99CM_MP1417.AM279350, C.TH.x.PWJ_0513_39.HM215433, C.ZA.03.03ZASK224MB1.DQ275664, B.US.08.CH010211_w2_p1.HM204596, AC.GB.08.S230b_A11.HQ595799, B.BR.03.BREPM1040.EF637047, AF2.CM.02.02CM_3163MN.AY371160, 31_BC.BR.02.110PA.EF091932, C.GM.99.N005312.HQ385458, B.US.04.F7172.FJ469733, A1C.KE.99.KNH1097.AF457064, DF1G.ES.04.X963_4.FJ670527, B.CN.04.CNHLJBF04023.EU131797, 25_cpx.CM.01.101BA.DQ826726, B.HT.05.05HT_129473.EU839603, B.US.x.Y3517TOB8U.GU728395, 0209.CI.97.97IC_PCI3.AJ866555, C.ZA.04.04ZASK175B1.DQ164129, BC.CY.05.CY077.FJ388961, A1.UG.07.PP6_F3_A2.HM027823, C.BW.00.00BW38193.AF443108, C.ZA.99.99ZASW30_b.AY529673, A1.KE.06.06KECst_005.FJ623481, B.GB.x.WB.U36882, 0209.CI.01.01IC_PCI127.AJ866558, D.CI.90.CI13.AJ277820, U.CD.90.90CD121E12.AF457101, B.SE.91.P1b_19910605.GU204923, BF.CL.01.CH6.AY536234, 01A1.CM.02.02CAMLT72.EU743963, A1.KE.06.06KECst_021.FJ623477, A1.ES.06.X2110.FJ670523, C.ZA.x.221b4a6.GU216805, C.ZA.00.1184MB.AY838566, C.ZA.06.19705993.HQ595744, B.US.x.F703.DQ886031, B.US.x.J8534TOB8U.GU728025, 21_A2D.KE.91.KNH1254.AY945737, 0213.CM.01.01CM_0096MA.GU201497, 44_BF.CL.00.CH80.FJ358521, B.US.02.PRLS18.FJ469762, B.CY.05.CY018.FJ388890, BF.CL.01.CH3.AY536233, A1CD.KE.x.BJ412_W6M_ENV_S3.DQ208443, C.ZM.02.02ZMDB.AB254153, A1.KE.06.06KECst_007.FJ623476, B.JM.09.09JM_PF09WX.HM030564, C.ZA.03.03ZASK120B1.DQ011176, B.DK.04.PMVL_013.EF514700, C.ZA.07.CHV0008415_704010083_G8.FJ443689, A.UG.07.191845_B11.HM215271, B.US.x.X2519TOB8U.GU728288, C.ZA.04.04ZAPS161B1.DQ164115, B.CY.05.CY056.FJ388905, 02_AG.GM.09.N058521.HQ385455, C.ZA.03.03ZAPS086MB1.DQ275654, C.MW.03.CHV0011342_0682_H9.FJ444346, A1D.UG.99.99UGK38855.AF484520, G.CM.96.96CMABB55.AY772535, B.CA.x.HTM360V05_variant_3.DQ322239, B.US.01.Z30_SGA_E13.EF593293, 1819.CU.99.CU64.AY894995, 38_BF1.UY.03.UY03_3389.FJ213783, B.PE.x.H080.EF210735, 02_AG.SN.98.98SE_MP1211.AJ251056, 02_AG.CM.01.01CM_4410HAL.AY371142, 07_BC.CN.x.CH117.EF117262, AD.TZ.05.0907_v4_c12.HM215261, A1D.UG.99.99UGB26587.AF484482, 07_BC.CN.x.CH120.EF117260, F1.RO.96.BCI_R07.AB485659,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

B.KR.97.WK.AF224507, A.KE.x.BL274_W6M_ENV_C1.DQ208501,
C.ZA.04.04ZASK128B1.DQ093586, 43_02G.SA.03.J11456.EU697909,
BC.MM.99.mIDU103.AB097873, A2C.ZM.90.ZAM184.L22955, A1G.CD.89.VI191.EU191618,
C.IN.00.NARI_VB105_J10.EU521729, B.GB.09.S520_G7.HQ595802,
F2.CM.97.CM53657.AF377956, A1C.TZ.02.CO6968.AY734555, G.CM.97.97CM_MP801.AM279346,
A.SN.96.DDJ360.AY521630, A1CD.UG.06.270015_J5_1.HM215280,
13_cpx.CM.96.96CM_4164.AF460974, B.US.07.700010333_B8_S.HM638503,
B.US.x.L4530TOB8U.GU728072, BC.CN.07.CNE16.HM215402, C.ZM.01.16M_PB_653.GU939100,
C.ZA.01.2004MB.AY463235, C.ZM.03.31M_BMR_4919.HM036845,
02_AG.GH.03.GHNJ188.AB231896, 01_AE.TH.00.00TH_C4151.AY945724,
C.MW.05.CHV0011561_2010_H4.FJ444565, A1.KE.05.QF495_23M_ENV_D1.FJ866116,
C.ZA.09.704MC045F.GU080199, BC.IN.99.NARI10_2.EU000516, B.UA.01.01UAKV252.DQ823363,
C.ZA.99.99ZASW20.AY529669, B.US.94.7165.AY835437, B.US.03.APV_6.DQ869030,
G.NG.01.01NGPL0674.DQ168575, 02_AG.CM.99.pBD6_15.AY271690,
B.TH.x.NKR_0512_8.HM215431, C.TZ.08.CH0457_e1.HM204623,
C.ZA.02.02ZAPS014MB1.DQ351218, 25_cpx.SA.03.J11233.EU697906,
0708.CN.08.09YN072.HQ225812, A1A2CD.KE.06.06KECst_008.FJ623493,
BF.AR.97.A32878.AF408632, D.UG.93.93UG_065.AY713418, B.KR.04.04LSK7.DQ295192,
F1.BE.94.14/00_37.DQ313239, G.NG.95.NG1928.AF069947, C.ZA.03.03ZAPS099MB1.DQ275655,
C.TZ.x.569_F1_37_10.HM215318, A1.UG.99.99UGA07072.AF484478, A1.ZA.01.TV314.FJ647148,
C.ZA.04.04ZASK176B1.DQ056416, 02_AG.CM.97.97CM_MP642.AM279367,
B.CH.x.NAB8pre_cl_11.EU023927, BF.UY.99.URTR17.AY037272,
B.HT.05.05HT_129517.EU839600, C.ZA.01.J54Ma.AY463223, B.GB.x.MANC.U23487,
02_AG.CM.97.CM52885.AF377954, C.ZM.02.1M_BML_1117.HM036812,
B.US.x.J4540TOB8U.GU728322, D.UG.x.WHO15_474.U36886, C.ZA.09.704MC020F.GU080180,
C.ZA.04.04ZAPS206B1.DQ164126, C.ZA.03.SK033B2.AY772692,
C.ZA.04.04ZASK145B1.AY901976, C.ZA.05.CAP88_5w_F2.GQ999980,
A1.SE.94.SE7535.AF069671, B.US.x.CR0206U.FJ469705, 21_A2D.KE.99.KSM4001.AF457072,
01B.TH.07.WN07.GQ916570, 02_AG.CM.96.96CM_MP522.AM279349,
B.BR.03.BREPM1038.EF637048, 0102A.CM.01.01CM_0190MA.AY371145,
B.US.04.H26v1e14_2.DQ410403, B.US.05.C98v1e19.DQ410596, B.PE.x.H079.EF210731,
C.BI.91.BU910518.U39240, A1G.CM.00.00CMNYU2541.EF025324, C.ZA.09.21283649.HQ595756,
06_cpx.GH.03.03GH173_06.AB286852, C.ZA.00.1217MB.AY463226,
B.US.99.zp12007_p27.EF593300, CU.JP.04.DR5782.AB286849, B.US.02.Z32_E11.EF593295,
C.BW.96.96BWMO1_5.AF443074, 02_AG.CM.01.01CM_0018ND.GU201494,
B.US.97.SS1196.AY835442, G.NG.08.P1992_G10_4.GQ324613,
G.RU.x.RU570_revertant_passage_20.EF367231, D.UG.98.98UG57140.AF484511,
02D.GH.03.p03GH194AG48.AB480046, B.US.03.043S018.HM234503,
C.BW.98.98BWMO37D5.AF443082, A1U.SE.93.SE6594.AF069672, A1.FI.91.FIN9199.AF219265,
B.UY.01.01UYTRA1092.AY781126, C.BW.96.96BW01B03.AF110959,
BF.BR.03.BREPM1026.EF637055, C.ZA.03.SK043B1.AY772700,
C.ZA.03.03ZAPS112MB2.DQ396386, C.ZA.00.1176MB.AY463218, A1C.TZ.01.A306.AY253318,
02_AG.CM.01.01CM_0126MA.GU201499, B.US.x.TYBE.AY189526, B.JP.x.JRC65B.AB565502,
B.US.04.154v38Renv_re7.DQ410636, B.KR.04.04KYR8.DQ295196, B.ES.08.ES.GQ372988,
B.AU.04.MS2004_37_060.EF178358, C.ZA.03.03ZAPS054MB2.DQ369988,
07_BC.CN.x.BC07.EU363837, 01_AE.TH.06.60PL2.EU743777, C.ZA.04.04ZAPS214B1.DQ093588,
B.CO.01.PCM074.AY561240, C.ZA.99.TM7.DQ447267, C.ZA.03.03ZASK011B2.AY901965,
D.UG.92.CD4_dependent_92UG046.AY623599, B.AU.x.9125091.AY857165,
B.US.x.K9548TOB8U.GU728056, 40_BF.BR.04.04BRRJ115.EU735538,
24_BG.CU.03.CB471.AY900575, 02_AG.GH.x.I_2496.AB485633, C.ZA.09.704MC010N.GU080168,
AC.ZA.04.04ZAPS204B1.DQ093606, 26_AU.CD.02.02CD_LBTB084.FM877781,
02U.CY.06.CY158.FJ388944, B.CN.07.BJOX003000_19_1.HM215365,
C.ZA.07.CH010273_w4_p1.HM204598, B.US.x.M1546TOB8U.GU728345,
BF.BR.99.BREPM269.AY771591, BF.AR.99.ARMA029.AY037283, C.ZA.00.J112MA.AY838568,
C.MW.96.C018_E8_3S.HM638848, BF1.BR.02.02BR033.DQ358811,
A1.RU.06.RU_915_1080_D4.HQ385843, A1.RU.08.08_RU_SP_R589_VI_0A3.GU481544,
B.US.x.O9545TOB8U.GU728051, B.GB.09.T516_C7.HQ595804,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

16_A2D.KE.91.KNH1271.AY945736, B.AU.04.PS1038_Day174.DQ676871,
C.ZA.04.04ZASK165B1.DQ396387, 01BC.MM.00.mCSW503.AB097866,
C.ZA.04.04ZAPS165MB1.DQ351221, B.BR.05.BREPM1084.FJ195088,
20_BG.ES.99.R77.AY586544, C.ZA.03.03ZAPS125MB1.DQ396390, C.ZA.05.05ZAFV20.DQ382374,
B.HT.05.05HT_129805.EU839604, A1CD.KE.00.KER2017.AF457056,
17_BF.PY.02.PY02_PSP0073.EU581824, B.US.x.HCPI_02_01.GU367407,
A1.KE.02.ML2014.EU110094, B.JP.04.DR5913.AB480697, B.US.08.701010380_G3_BL.HM638584,
A1.UG.90.UG273A.L22957, 13_cpx.CM.96.96CM_1849.AF460972,
A1.GB.08.CH080510_e_p2.HM204648, A1.KE.06.06KECst_009.FJ623480,
A1D.UG.00.PP1_F4_A1.HM027851, A1.BE.x.VI1383_20.FM165645,
B.GB.08.CH080175_e_p2.HM204641, B.US.x.L3516TOB8U.GU728392,
B.US.07.700010238_E_B2.HQ238282, C.IN.00.HIV_0013095_2.EF117267,
C.ZA.07.CHV0010304_706010151_2B2.FJ444091, A1A2D.KE.00.NKU3004.AF457088,
A1.KE.98.QA413_1007M_ENV_E15.FJ396018, CD.TZ.06.6811_v7_c18.HM215340,
B.GB.05.MM45d22_GN1.HM586210, B.GB.08.CH080183_e_p1.HM204642,
C.ZA.03.03ZASK067B1.DQ275642, A.TZ.05.0260_v5_c36.HM215256, D.UG.x.DM6_11.EF575429,
D.UG.90.UG269A.L22949, A1.UG.00.PP6_F2_B1.HM027846, A1D.KE.06.06KECst_010.FJ623491,
AD.TZ.03.3468_v1_c12.HM215301, B.US.05.P9_WEEK_12.FJ653571,
A.CM.97.97CM_MP812.AM279344, 02A1.ES.05.X230_10.FJ670515,
A1.RU.08.08_RU_SP_K08_VI_C11.GU481276, 02_AG.CY.05.CY048.FJ388902,
02G.CM.02.02CM_3228MN.AY371147, B.US.02.APV_15.DQ869021, B.US.05.CR0367Z.FJ469724,
C.ZA.04.SK133B1.AY772698, B.US.98.ACT54869022A2.GU562001, B.GB.97.CW002.AJ418531,
F1.ES.07.P1655_c8_B5.FJ817371, B.US.x.W9532TOB8U.GU728283,
A1G.KE.99.KNH1043.AF457062, 02B.ES.99.99SP_11339.DQ926899,
BF1.BR.02.02BR005.DQ358806, A1D.TZ.96.TZBFL0011.AF442569,
02_AG.GM.06.N041366.HQ385447, B.CY.05.CY072.FJ388914, B.CN.99.plwj11_6.GU647196,
B.JP.04.DR6174.AB480693, B.US.06.CH19E_C9.EU576383,
17_BF.BO.02.BO02_BOL119.EU581827, 02A1U.CM.05.280.EU513183,
C.ZA.03.03ZASK104B1.DQ396395, 02_AG.US.99.99US_MSC1134.AY4444809,
B.US.07.CR0339X.FJ469721, G.NG.95.NG1939.AF069935, 0206.NE.00.NE36.AJ508597,
B.US.98.AC10.AY835446, A1.RU.07.IRKUTSK_5_A11.HQ385811,
D.UG.99.99UGB25647.AF484481, A1.KE.00.KNH1211.AF457070,
02A1U.CM.02.02CM_2339SA.AY371143, C.FI.94.FIN9401.AF219274,
A1D.SE.94.SE7108.AF071473, F1.BE.93.VI850.AF077336, C.ZA.03.03ZASK118B1.DQ011169,
B.US.x.Q7513TOB8U.GU728158, 35_AD.AF.06.047H.GQ477443, B.CY.05.CY067.FJ388911,
BF.BR.94.94BR_RJ_97.AY455779, F1.BR.02.02BR082.FJ771006,
C.ZA.07.CH010461_w12_p1.HM204616, B.GB.08.CH080128_e_p1.HM204636,
02_AG.GH.03.03GH182AG.AB286857, B.GB.08.CH080046_e_p1.HM204628,
A1D.TZ.01.A387.AY253316, C.BW.98.98BWM14A3.AF443078,
02_AG.CM.02.02CM_3153MN.GU201513, 35_AD.AF.05.05AF095.EF158041,
C.MW.03.CHV0011299_0626_H11.FJ444303, 02_AG.NG.94.NG3675.AF069933,
A1H.CM.01.01CM_4038STN.GU201508, 07_BC.CN.07.BJOX011000_01_3.HM215375,
C.ZA.03.03ZASK006B2.AY878056, B.CY.03.CY005.EU668963, CD.TZ.04.6480_v4_c25.HM215329,
D.UG.97.9FPC2.EU853126, C.ZA.05.05ZAFV14.DQ382372, B.US.95.6535.AY835438,
40_BF.BR.05.05BRRJ200.EU735539, ADGU.CU.99.CU67.AY894996,
A1.RU.06.RU_915_1056_A8.HQ385839, 29_BF.BR.01.BREPM16704.DQ085876,
CD.TZ.x.89_F1_2_25.HM215349, 10_CD.TZ.96.96TZ_BF110.AF289550,
D.TZ.04.6405_v4_c34.HM215327, A.TZ.03.3415_v1_c1.HM215299,
A2.CY.94.94CY017_41.AF286237, 0209.CI.01.01IC_17395.AJ866554,
A1.UG.98.98UG57134.AF484507, B.US.06.700010106_E_A8.HQ238281,
C.ZM.02.7M_BML_3302A1.HM037006, 01B.TH.06.40PB3.EU743762, 0206.NE.97.NE03.AJ508595,
C.ZM.01.16B_PB_305.GU939049, B.US.09.700011145_A10_BI_dbl.HM638568,
26_AU.CD.02.02CD_MBTB047.FM877782, AD.UG.07.192018_B1_9.HM215273,
B.CN.06.CNE4.HM215413, B.AR.04.04AR143170.DQ383750, C.CY.05.CY069.FJ388913,
B.US.01.REJO.AY835449, C.ZA.04.04ZASK174B1.AY901980, A1GU.CD.76.Z321.U76035,
G.ES.05.P962.EU786670, BF1.BR.00.BREPM13853.DQ085875, C.BI.91.BU910423.U39243,
A1U.CY.06.CY154.FJ388943, 01_AE.TH.01.OUR609I.AY358040,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

C.ZA.05.CAP228_8w_F2.GQ999984, 01B.TH.99.OUR2574.DQ354123,
02_AG.GH.03.GHNJ196.AB231898, C.KE.97.QC406_70M_ENV_F3.FJ866133,
BF.BR.99.BREPM278.AY771593, 09A.CM.99.99CM_MP1293.AM279364,
C.ZA.03.03ZAPS025MB1.DQ351226, B.AU.03.PS3002_Day385.DQ676885,
B.US.x.R9577TOB8U.GU728323, C.BW.00.00BW147127.AF443091,
B.US.x.E9534TOB8U.GU728053, 02_AG.CM.99.99CM_MP1378.AM279352,
C.ZA.03.03ZAPS042MB1.DQ369977, D.UG.x.DM7_27.EF575447, CD.TZ.05.3326_v4_c3.HM215296,
C.ZM.04.Z205FPB5NOV04ENV5.2.GQ485436, 02_AG.CM.02.02CM_3217MN.GU201514,
B.US.94.94US_33931N.AY713410, C.ZA.07.CH010330_w16_p1.HM204604,
A1.CY.05.CY051.FJ388903, A1D.UG.03.PP1_F3_B1.HM027870,
B.JM.09.09JM_PF0BB5.HM030563, 02_AG.CM.01.01CM_0925MO.AY371134,
B.JP.01.#134.AB428552, B.US.02.CR0058S.FJ469693, B.US.06.CH58E_fla9.FJ495941,
F2.CM.02.02CM_0016BBY.AY371158, B.US.97.6305404_SGA_TA3.EF593201,
26_AU.CD.97.97CD_KTB119.FM877777, 02_AG.CM.01.01CM_0119MA.GU201498,
A1.RU.06.RU_915_1013_A8.HQ385830, C.ZA.04.04ZAPS160B1.DQ164107,
B.ES.07.X2278_c2_B6.FJ817366, B.TT.94.QH0705_M.AF277066, B.US.x.M0513TOB8U.GU728413,
F1.DE.x.MVP_30846.EU446022, C.ZA.05.CHV0008955_CAP225.1.06C4.FJ443982,
C.ZA.09.704MC024N.GU080187, CF1U.ZM.02.ZM231F_SGA_A3.EU166607,
02_AG.CM.01.01CM_0002BBY.AY371122, F1.BR.06.06BR564.FJ771008,
13_cpx.CM.04.04CM_632_28.DQ845387, 09_cpx.SN.95.95SN7808.AY093604,
D.UG.91.UG270.AB485651, A.GM.09.N057856.HQ385453, D.UG.98.98UG57128.AF484502,
B.US.05.WICU_B13.EU578629, C.ZA.03.03ZASK211B1.DQ093601, C.ZA.98.TV018.AF391249,
C.ZA.99.98ZADu281.AY529664, D.GB.08.N535_F5.HQ595791, B.JP.03.#285.AB428558,
C.TZ.01.A207.AY253307, G.ES.04.X1632_s2_b10.FJ817370, 01_AE.TH.01.OUR4141.AY358050,
BF1.IT.08.IT_BF_PRIN_454.FJ904244, B.DK.07.PMVL_011.FJ694790,
02_AG.CM.01.01CM_0186BA.GU201500, A1.KE.97.ML752.AY322193,
C.ZA.03.03ZAPS017MB1.DQ351224, B.US.03.MEMI_SGA_E14.EF593228,
01_AE.CN.05.FJ053.DQ859179, 02_AG.SN.99.2843_p5_1.HM215282, B.GB.x.PE052_1.AJ286330,
B.JP.05.#426.AB428556, A1.RU.07.07_RU_SP_SC3208_VI_H7.GU481644,
02_AG.CM.02.02CM_1901LE.AY371146, 17_BF.PE.02.PE02_PCR0155.EU581828,
BF.AR.99.ARMA097.AY037280, C.ZA.04.04ZAPS190B1.DQ093602,
B.US.x.D3532TOB8U.GU728276, BF1.BR.94.94BR_RJ_41.AY455781,
C.TZ.04.3063_v4_c04.HM215287, A2.CD.97.97CDKS10.AF286241, D.UG.x.C971_412.U36871,
17_BF.AR.99.ARMA038.AY037281, BC.CN.96.YNRL9613.AY967803,
B.US.98.WC3_0498_4.EF175212, C.ZA.01.01ZATM18b.AY529672, B.CY.06.CY168.FJ388949,
B.YE.02.02YE508.AY795905, B.US.x.CR0050Z.FJ469692,
33_01B.MY.05.05MYKL015_2.DQ366660, C.IN.00.HIV_00836_2.EF117265,
C.ZA.03.SK112B1.AY772695, C.ZA.03.03ZASK092B1.AY878057, D.UG.x.DM2_12.EF575370,
C.BW.00.00BW17593.AF443094, A1.RU.07.07_RU_SP_R526_lorll_A30.GU481486,
U.CD.97.KTB54.AJ401043, B.GB.x.PE104_38.AJ286334, C.BW.96.96BW06.AF290028,
C.ZA.04.04ZASK185B1.DQ011174, B.US.x.B1542TOB8U.GU728346,
B.US.x.G8598TOB8U.GU728339, 01_AE.TH.07.WN12.GQ916572,
B.US.02.04013226_2_fih11.FJ496078, B.US.04.UNC5734_10.EF593275,
02_AG.GM.02.N017561.HQ385451, C.ZA.05.CAP65_6w.GQ999977,
C.ZA.07.CHV0008370_704010056_F8.FJ443732, B.BR.05.BREPM1093.FJ195089,
A1.KE.06.06KECst_013.FJ623485, AGKU.CD.x.BCF_Kita.AB485665, B.ES.09.P2149_3.GU362881,
B.CN.07.BJOX006000_13_3.HM215369, C.MW.07.CH010085_w4_p1.HM204584,
01_AE.TH.99.OUR1641.AY358045, D.UG.92.92UG001.AJ320484, G.FR.95.PHI355.AY231155,
BC.IN.02.INDNARI_0218440.EU000514, B.US.x.R5520TOB8U.GU728222,
01_AE.TH.97.97TH_NP1525.AY713420, D.UG.92.92UG024_D.U08805,
A1D.TZ.96.TZBFL0088.AF442570, 11_cpx.NG.94.NG3670b.AF069945,
BC.AR.01.ARE195FL.AY968312, C.ZA.03.03ZAPS046MB1.DQ369984,
A1.KE.02.ML1990.EU110092, AHJU.CM.01.01CM_1296NG.AY371162,
AD.UG.07.193003_B10.HM215274, 01_AE.CN.07.BJ17A_6.GU475028,
C.ZA.05.05ZAFV2.DQ382361, 14_BG.ES.07.X2252_7.EU885766,
C.ZA.03.03ZAPS118MB1.DQ396368, B.US.98.1058_08.AY331294,
G.CM.01.01CM_4049HAN.AY371121, BF1.BR.01.01BR323.DQ358804,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

A2.CD.97.97CDKTB48.AF286238, 02_AG.CM.04.255.EU513184,
01_AE.TH.94.E11429_A3_1.AF015919, 02_AG.US.01.APV_12.DQ869018,
A1.UG.92.92UG037.AB253429, A1.KE.06.06KECst_025.FJ623486, C.ES.08.X2363_2.EU786681,
G.CU.99.Cu87.AY586549, 01_AE.CN.07.GZ187_10.GU475036, B.BR.03.BREPM2012.EF637046,
B.US.99.Z10_B13.EU577469, 46_BF.BR.99.99UFRJ_16.AY455782,
C.ZA.04.04ZAPS189B1.DQ164117, 0206.GH.03.03GH195AG_06.AB286853,
B.US.x.F1531TOB8U.GU728295, B.US.x.N8517TOB8U.GU728349, A1G.BE.94.VI1197.AJ276596,
A1.GB.08.A220_C1.HQ595767, U.CD.02.02CD_KP097.FN392873, C.ZA.05.CAP174_4w.GQ999981,
BF1.BR.02.02BR006.DQ358807, C.ZM.01.16M_PL_27.HM036790,
A1.RU.07.RU_26_07_A8.HQ385820, C.ZA.03.03ZAPS124MB1.DQ369976,
02_AG.CM.97.97CM_MP568.AM279361, B.KR.96.KR6035_C4X.AJ417419,
BF1.ES.08.X2432_2.FJ853621, C.ZA.06.CHV0005989_CAP129.1.15B2.FJ443417,
B.US.02.L861P.FJ469748, 02_AG.CM.04.235.EU513195, B.KR.04.04LHS6.AY839827,
06_cpx.CD.x.BCF_Dioum.AB485661, B.CN.x.B03.EU363827, A1.KE.00.KER2009.AF457053,
A1.UG.97.368MPc02.EU853062, U.FR.x.FGIL.AF321084, 07_BC.CN.97.97CN001.AF286226,
ADU.CM.98.98CM_MP1020.AM279353, 02_AG.GH.03.GHNJ185.AB231895,
U.CM.04.252.EU513190, 11_cpx.CM.x.CA1.AJ277823,
01_AE.VN.97.97VNHCM306.FJ185259, A1C.UG.07.191084_B7_19.HM215266,
G.ES.03.X1254_3.EU885762, D.CD.x.JY1.J03653, 13_cpx.CM.04.04CM_173_9.DQ845386,
C.ZA.03.03ZASK076B1.AY901975, B.JP.00.#117.AB428551, 01_AE.TH.01.OUR702I.AY358059,
B.JM.09.09JM_PF09YT.HM030560, C.ZA.04.04ZASK192B1.DQ396382,
B.US.05.04013396_0_flg8.FJ496085, BF.AR.98.ARCH014.AY037266,
A1C.TZ.97.97TZ01.AF361871, C.MW.07.CH010141_w12_p1.HM204591,
A1.AU.04.PS1044_Day177.DQ676873, 17_BF.AR.02.AR02_ARG2233.EU581826,
BF.BR.94.94UFRJ_58.AY455785, F2KU.BE.94.VI1126.AF076475, G.ES.05.X1854_2_10.EU885763,
BF.BR.03.BREPM1029.EF637052, C.ET.86.ETH2220.U46016, BF.ES.02.R140.AY536237,
B.ES.x.LMP0608.DQ448819, B.US.x.J3544TOB8U.GU728348, BF1.IT.01.50610.GU595156,
01_AE.VN.97.97VNAG207.FJ185249, 01_AE.VN.97.97VNHCM345.FJ185244,
G.ES.00.X558.AF423760, C.ZA.03.SK116B1.AY772696, GKU.SE.95.SE9010.AY352655,
B.JP.03.#227.AB428555, C.TZ.06.6146_v7_c23.HM215324, A1.RU.06.RU_D_03_B10.HQ385846,
02_AG.CM.01.01CM_0158ND.AY371132, 02A1U.CM.05.278.EU513198,
C.ZA.03.03ZAPS023MB1.DQ351225, B.US.x.NCQ.FJ469752, 07_BC.CN.x.SC20_15.HQ326130,
B.US.05.P11_DAY_1.FJ653597, F1.ES.x.P1146.DQ979023, J.SE.94.SE9173_7022.AF082395,
02_AG.SN.00.2705_p18_1.HM215281, G.NG.95.NG1937.AF069937, B.US.02.CR0017Q.FJ469687,
C.ZA.00.1165MB.AY463230, 01_AE.TH.02.OUR769I.AY358062, 01_AE.CN.05.05GX162.GU564229,
BF1.AR.04.04AR158637.DQ383753, C.ZA.09.704MC019N.GU080179,
B.US.x.B7500TOB8U.GU728327, C.ZA.05.05ZAFV25.DQ382377, B.GE.03.03GEMZ004.DQ207940,
01_AE.TH.97.97TH_NP1695.AY713419, GKU.SE.95.SE8646.AY352654,
02_AG.CM.04.250.EU513189, C.BW.00.00BW2127214.AF443105

Protein sequences (# 496) covered by at least 25%

B.CN.x.B05.EU363829, 01_AE.TH.07.WN27.GQ916575, BF.AR.99.A027.AF332867,
A1.KE.06.06KECst_028.FJ623479, B.US.x.SH8229.FJ469769, A1.KE.00.MSA4076.AF457084,
B.US.x.P1534TOB8U.GU728294, A1.SE.95.UGSE8131.AF107771,
G.CM.99.99CM_MP1287.AM279351, 02A.CM.99.99CM_MP1371.AM279363,
B.GB.08.E214_E1.HQ595776, B.US.04.SH858.FJ469772, D.UG.x.DM5_17.EF575417,
A1D.TZ.97.TZBFL0086.AF442566, A1.RU.06.RU_915_1038_F10.HQ385835,
01_AE.CN.07.07JSWX045.FJ441290, 01_AE.AF.07.569M.GQ477441,
01_AE.CN.08.GX8C_31.GU475039, F1.BR.89.BZ163.AY173958, C.BW.00.00BW1686.AF443093,
BF.BR.99.99UFRJ_2.AY455780, A1C.UG.99.99UGF25926.AF484491,
B.US.01.CRPE_B13.EU578061, A1.KE.94.Q259_w6_PNS59d.AF407151,
B.JP.05.DR6538.AB287363, A1.ZA.04.04ZASK162B1.DQ396400,
02A.CM.97.97CM_MP570.AM279347, 02GK.CI.01.01IC_PCI123.AJ866557,
C.TZ.04.6644_v2_c33.HM215336, H.BE.93.VI997.AF190128, 01_AE.TH.06.98PB2.EU743784,
01_AE.TH.96.NI1155.AF070711, B.CA.05.091_WK48.GU191441, B.KR.96.KR3042_K4.AJ417410,
B.CN.05.05CNHB_hp3.DQ990880, A1.CY.05.CY153.FJ388942, B.US.04.LAHA_B3.EU578189,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

A1A2D.KE.91.KNH1239.AY945739, 43_02G.SA.03.J11232.EU697905,
C.ZM.03.ZM247F_fih1.FJ496207, 04_cpx.CY.05.CY081.FJ388917, U.CY.05.CY090.FJ388921,
B.AU.x.4675282.AY857052, D.UG.90.UG274A2.L22950, 01A1.CY.06.CY178.FJ388953,
01_AE.TH.00.OUR724I.AY358060, G.NG.01.PL0567.DQ168573, B.US.05.5791_E6.EU578004,
B.GB.08.CH080258_e_p2.HM204647, B.US.x.G2535TOB8U.GU728005,
A.KE.07.21020_13.HM215275, B.US.x.Z2576TOB8U.GU728396, C.ZA.05.05ZAFV15.DQ382373,
B.US.x.Q8571TOB8U.GU728151, A1C.ZA.08.BBCR06.GU201611, B.DK.04.PMVL_012.EF514699,
B.US.05.CR0307R.FJ469717, B.US.x.L7510TOB8U.GU728352,
A1.RU.08.08_RU_SP_SC3410_VI_C2.GU481661, A.TZ.06.3504_7_21.HM215303,
01_AE.TH.08.TR32.GQ916583, B.US.06.CR0361T.FJ469723, C.ZA.04.04ZASK164B1.DQ056405,
06A1.BJ.x.B76.AJ293865, C.ZA.03.03ZAPS123MB1.DQ396369, 01B.CY.06.CY179.FJ388954,
B.US.05.C96v1e10.DQ410585, A1U.CY.05.CY112.FJ388929, A1DHK.NO.97.97NOGIL3.AJ237565,
BF1.ES.08.ES.GQ372989, 01_AE.TH.00.OUR721I.AY358067,
02_AG.CM.97.97CM_MP569.AM279360, D.UG.x.DM8_25.EF575459,
01_AE.TH.01.OUR647I.AY358056, C.IN.03.D24.EF469243, A1GHU.GA.x.VI354.AF076474,
C.ZA.00.1195MB.AY463220, 06_cpx.SN.97.97SE1078.AJ288981, B.US.x.M7573TOB8U.GU728238,
B.AU.96.MBCC98.AF042104, B.US.x.P5594TOB8U.GU728191, B.AU.96.MBCD36.AF042105,
B.CO.01.PCM001.AY561236, G.CM.99.99CM_MP1416.AM279359,
39_BF.BR.03.03BRRJ103.EU735534, G.PT.x.PT2695.AY612637, B.US.03.AT01480.FJ469686,
17_BF.AR.02.AR02_ARG1139.EU581825, C.ZA.03.SK023B2.AY772690,
C.TZ.03.6838_v1_c35.HM215341, 01_AE.TH.04.T500617_sga02.HQ691003, A.RW.x.PVPI.L07082,
C.ZA.07.CH010298_w12_p1.HM204600, 01_AE.CN.05.05GX034.GQ845124,
A1.RU.08.08_RU_SP_R053_IV_D11.GU481350, D.UG.99.99UGF03726.AF484519,
C.ZA.05.05ZASK246B1.DQ369983, C.ZA.03.03ZASK110B1.DQ056411,
C.ZA.04.SK134B1.AY703909, 01_AE.TH.95.NI1146.AF070705, C.ZA.09.704MC034F.GU080195,
A1.RU.08.08_RU_SP_K84_IV_A3.GU481277, B.US.x.O9574TOB8U.GU728189,
B.GE.03.03GEMZ010.DQ207942, A1.UG.85.U455.M62320, AD.GB.09.P534_D9.HQ595793,
02_AG.CM.01.01CM_0131NY.AY371137, A.KE.00.00KE_KNH1207.AY736815,
U.NL.01.U_NL_01_H10986_C11.EF029069, 01_AE.TH.99.OUR044I.AY358042,
A1.KE.97.ML605_3.AY322190, B.US.02.SHKE_B1.EU578460, CD.BI.91.BU910905.U39253,
G.ES.08.X2558.GQ862781, B.CN.06.CNHLJBF06044.EU131805, 01_AE.CN.07.CNE28.HM215409,
01_AE.TH.06.45PB1.EU743766, 35_AD.AF.07.221H.GQ477449, B.US.x.L4548TOB8U.GU728155,
C.CN.07.CNE52.HM215416, B.PE.x.H086.EF210732, C.IL.99.99ET1.AY255823,
B.US.x.E9516TOB8U.GU728410, 01_AE.TH.93.93TH253.U51189, 02_AG.FR.x.AKON.AF321079,
A1.CY.06.CY164.FJ388946, 01_AE.JP.x.JRC77AE.AB565504, 01_AE.CN.08.GX35_33.GU475023,
B.US.06.YOMI_A6.EU578667, A2CD.KE.01.ML1956.EU110089, 01_AE.TH.08.RY17.GQ916588,
B.US.03.PRLS01.FJ469753, B.GB.08.M425_B8.HQ595788, B.US.x.O6535TOB8U.GU728101,
C.ZA.05.05ZASK243B1.DQ396372, G.ES.09.X2634_2.GU362882, A1.UG.98.120MPC01.EU852954,
B.US.94.6101.AY612855, 01_AE.US.98.98US_MSC1120.AY444803,
C.IN.x.CALCMANDAL.AJ276221, A1.UA.97.ukr970063.AF082486, C.TZ.01.A93.AY253303,
26CU.CD.97.97CD_KMST91.FM877784, A1D.UG.99.99UGJ21953.AF484496,
01_AE.CN.06.CNE8.HM215427, G.BE.96.DRCBL.AF084936,
C.ZA.07.CHV0010332_704809221_1A11.FJ444119, 01_AE.TH.07.T518020_sga08.HQ691052,
01_AE.TH.97.97TH6_107.AY125894, 26C.CD.02.02CD_LBTB032.FM877779,
B.TW.94.TWCYS.AF086817, C.ZA.00.1210MB.AY463221, 01_AE.TH.01.OUR830I.AY358064,
A1.KE.05.QH209_14M_ENV_A2.FJ866118, A2.CM.01.01CM_1445MV.GU201516,
02_AG.CM.04.266.EU513193, 17_BF.PY.02.PY02_PSP0096.EU581823,
B.US.x.B8526TOB8U.GU728163, BF1.BR.01.01BR226.DQ358803,
B.KR.03.03CWS10_1432:HP_8.DQ339425, B.US.x.S6536TOB8U.GU727879,
01_AE.TH.95.NI1144.AF070703, B.US.04.6064_10.EU578032, C.ZM.02.14M_BMR_405.HM036770,
02A1.GH.03.GHNJ176.AB231894, 35_AD.AF.05.05AF094.EF158040,
G.ES.08.X2470_F8_12.GQ222685, 27_cpx.CD.97.97CDKTB49.AJ404325,
F1.AO.06.AO_06_ANG58.FJ900268, C.ZA.04.04ZASK155B1.AY901978, G.FR.x.523.EF033660,
F1.BR.93.93BR020_1.AF005494, B.CN.06.CNHLJ_M06058.EU131809,
B.GB.08.CH080142_e_p1.HM204638, 01_AE.TH.06.55PL1.EU743774,
01_AE.CN.08.BJ6_17.GU475029, A1C.TZ.02.CO3710.AY734553,
01_AE.CF.90.90CF4071.AF197341, 47_BF.ES.08.X2457_2.FJ670529,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

02_AG.CM.02.NYU1026.DQ313247, C.ZA.09.704MC020N.GU080181,
06A1.BE.96.VI1793.DQ313254, G.CM.04.178_15.FJ389363, B.US.96.1057_01.AY331292,
01B.TH.00.00TH_R1741.AY945734, 01_AE.CN.06.CNE59.HM215422,
02_AG.GH.03.03GH189AG.AB286862, CD.KE.x.BK184_W6M_ENV_D2.DQ208491,
C.ZA.04.04ZASK154B1.AY878071, 32_06A1.EE.01.EE0369.AY535660,
01_AE.CN.05.Fj056.EF036529, D.UG.x.DM9_29.EF575482, BG.DE.01.9196_01.AY882421,
C.ZA.05.05ZAFV9.DQ382367, 01_AE.TH.x.KSS_0514_13.HM215429, 01_AE.TH.93.KH08.U48266,
39_BF.BR.03.03BRRJ327.EU735536, A1.KE.95.Q461.AF407156, C.ZA.09.704MC023F.GU080185,
A1.BE.x.PIC771_15.FM165628, C.ZA.03.03ZAPS067MB2.DQ396389,
01_AE.CN.07.BJX4_6.GU475020, D.UG.99.99UGA08483.AY304496,
01_AE.TH.08.RY05.GQ916584, F1.BR.02.02BR170.FJ771007,
F1.AO.06.AO_06_ANG125.FJ900269, C.ZA.09.704MC024F.GU080186,
BF.AR.99.ARMA006.AY037278, C.ZA.03.03ZASK094B1.AY878070,
46_BF.BR.07.07BR_FPS783.HM026458, B.US.x.N7525TOB8U.GU727886,
02_AG.CM.02.02CM_1970LE.AY371128, B.US.x.HCPI_03_01.GU367410,
02_AG.CM.02.02CM_0013BBY.AY371125, 39_BF.BR.04.04BRRJ179.EU735535,
CD.TZ.04.3337_v2_c6.HM215297, A2C.ZA.98.DU178.AF411965, G.GA.x.LBV217.U09664,
A1D.UG.03.PP1_F3_A1.HM027869, BF1.BR.06.06BR_FPS561.HM026455,
01_AE.TH.06.105PL3.EU743793, 04_cpx.CY.94.94CY032_3.AF049337,
02A.CM.97.97CM_MP578.AM279357, B.US.x.S3526TOB8U.GU728039, D.UG.97.pt632.EU281996,
D.UG.98.98UG57131.AF484505, B.US.x.T5570TOB8U.GU728030,
38_BF1.UY.05.UY05_4752.FJ213780, 01_AE.CM.93.CA10_3.EU191614,
F1.ES.x.X1093_2.DQ979025, D.UG.99.99UGD26830.AF484486, 02_AG.CI.99.928.EU513199,
A.KE.09.12151802.HQ540689, B.US.x.W4541TOB8U.GU728334, C.ZA.05.05ZAFV5.DQ382363,
01_AE.TH.08.RY27.GQ916591, F1.ES.x.X1670.DQ979024, 01_AE.TH.94.A01021_A8_1.AF015916,
11_cpx.CM.97.MP818.AJ291718, C.ZA.07.CHV0008259_705010026_G3.FJ443547,
01_AE.CN.07.CNE55.HM215418, D.UG.96.32MPC1.EU852998, 01_AE.JP.x.DR2594.AB253668,
B.GB.08.B200_B12.HQ595768, A1.UG.92.UG029.AY494973, 01_AE.TH.00.00TH_C4382.AY945725,
01_AE.TH.01.01TH_C3256.AY945720, 01_AE.VN.97.97VNAG210.FJ185251,
B.TH.00.00TH_C3198.AY945710, B.KR.04.04KJin8_1955.DQ295195, 02A1.GH.97.AG2.AB052867,
D.ZA.84.R2.AY773338, B.US.x.Y2579TOB8U.GU728255, 02_AG.GM.03.N22314.HQ385460,
01_AE.TH.00.00TH_C4118.AY945722, B.US.x.F7509TOB8U.GU727898,
DG.KE.06.06KECst_014.FJ623495, A1D.UG.05.PP1_M_A1.HM027827,
01_AE.VN.97.97VNAG201.FJ185245, A1.CY.05.CY064.FJ388909, 01B.TH.02.OUR840I.AY358070,
F2.CM.95.95CM_MP257.AJ249237, 12_BF.AR.97.A32879.AF408629,
C.ZA.03.03ZAPS095MB1.DQ275652, 01_AE.TH.95.95TNIH022.AB032740,
A1.RU.00.RU00051.EF545108, AD.GB.09.C200_B2.HQ595773,
C.ZA.03.03ZAPS020MB1.DQ275653, B.US.x.M6509TOB8U.GU727958,
02_AG.CM.04.253.EU513191, D.TZ.01.A280.AY253311, B.US.04.3405_B10.EU577792,
02_AG.CM.02.02CM_2162SA.AY371129, 26C.CD.97.97CD_KFE267.FM877778,
A.TZ.04.3718_v3_c11.HM215306, G.SE.93.SE6165.AF061642, 01_AE.CF.90.90CF402.U51188,
G.NG.01.01NGPL0760.DQ168579, B.TT.01.TT113PC_2E7.EU578580,
D.UG.01.605MPC9.EU853116, 02_AG.GM.05.N36165.HQ385446, B.ES.08.X2574_2.GU362886,
45_cpx.FR.04.04FR_AUK.EU448295, D.UG.99.99UGF05734.AF484490, B.US.03.APV_7.DQ869031,
46_BF.BR.01.01BR125.DQ358802, A1C.TZ.01.A355.AY253315, C.ZA.00.1225MB.AY463227,
B.JM.09.09JM_PF0B8J.HM030561, B.US.x.Y1525TOB8U.GU728369,
B.US.x.K6570TOB8U.GU728152, 01_AE.TH.05.T293735_sga06.HQ690964,
A2D.KE.04.QG393_60M_ENV_A1.FJ866128, 01_AE.TH.01.OUR674I.AY358038,
01_AE.TH.x.SPK_0525_13.HM215436, 01B.MY.04.04MYKL019_1.DQ366665,
12_BF.AR.97.A32989.AF408630, 01_AE.TH.07.T509989_sga21.HQ691048,
01_AE.TH.06.29CC1.EU743759, 01B.TH.02.OUR847I.AY358069,
01_AE.TH.00.OUR595I.AY358052, 01_AE.TH.01.01TH_C2570.AY945719,
B.US.x.L7549TOB8U.GU728209, A.CM.00.NYU1423.DQ313248,
01_AE.TH.95.95TNIH047.AB032741, A1C.KE.00.MSA4080.AF457087,
C.ZA.09.704MC013F.GU080171, 01_AE.TH.08.RY09.GQ916585, 01_AE.CN.06.CNE3.HM215410,
02_AG.GH.03.03GH181AG.AB286856, A1C.UG.99.99UGK30889.AF484501,
24_BG.CU.03.CB378.AY900574, A1.UG.98.98UG57135.AF484508, G.CM.04.944_5.FJ389366,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

G.ES.02.P402_2_11.EU885759, B.JP.04.DR6175.AB480695, A.GM.00.N9845.HQ385459,
B.US.x.A4521TOB8U.GU728201, G.ES.06.X2088_9.EU885764, G.CU.99.Cu85.AY586548,
C.ZA.04.04ZAPS157MB1.DQ351232, G.NG.01.01NGPL0669.DQ168576,
A1.RU.06.RU_915_1035_C4.HQ385834, 01_AE.TH.08.RY25.GQ916590,
01_AE.VN.97.97VNHCM309.FJ185260, 02_AG.CM.04.251.EU513196,
B.US.x.K7576TOB8U.GU728195, B.ES.06.X1958.EU786674, AC.ZA.06.19912872.HQ540691,
F1.AO.06.AO_06_ANG32.FJ900266, AGU.CM.01.01CM_0989MO.AY371166,
34_01B.TH.99.OUR2478P.EF165541, 01BC.MM.99.mIDU107.AB097868,
46_BF.BR.07.07BR_FPS812.HM026460, 09_cpx.CI.00.00IC_10092.AJ866553,
F1.FI.93.FIN9363.AF075703, 25_cpx.CM.02.1918LE.AY371169, D.UG.97.326MPc07.EU853014,
A.CD.97.97CD_KTB13.AM000054, 06_cpx.ML.95.95ML127.AJ288982,
B.BR.03.BREPM1024.EF637056, 01_AE.TH.08.TR09.GQ916577, BF1.IT.01.53143.GU595149,
C.ZA.04.04ZAPS217B1.DQ164119, 18_cpx.CU.99.CU68.AY894993,
G.CM.98.98CM_MP1033.AM279365, 01_AE.TH.07.WN26.GQ916574,
06_cpx.SN.99.1656_p21.HM215265, A1A2D.KE.06.06KECst_027.FJ623492,
25_cpx.CM.06.06CM_BA_040.EU693240, 02_AG.CM.02.02CM_0014BBY.AY371126,
01_AE.BE.x.VI1888cl194.EU191617, 01_AE.TH.07.T357545_sga35.HQ690985,
01_AE.CN.07.BJOX017000_07_1.HM215378, 01_AE.TH.08.TR27.GQ916581,
U.CD.83.83CD003.AF286236, 02G.GH.03.p03GH179AG_G29.AB480048,
01_AE.CN.05.Fj055.EF036527, CD.ZA.05.05ZAFV10.DQ382368, B.US.x.CR0382N.FJ469725,
01_AE.CN.08.GX68_5.GU475044, 01A1.MM.99.mCSW105.AB097872,
02_AG.SN.99.3273_p21_1.HM215293, 12_BF.AR.99.ARMA159.AF385936,
33_01B.ID.07.JKT189_C.AB547463, B.CY.05.CY096.FJ388963, 01_AE.JP.x.DR6824.AB253427,
C.ZA.99.LT15.AY522723, BF.AR.99.A047.AF408627, C.ZA.04.04ZASK151B1.AY901977,
A1C.SE.96.SE9488.AF071474, B.ES.08.X2555_2.GU362883,
01_AE.TH.99.99TH_NI1052.AY713423, BF.UY.01.01UYTRA1020.AY781128,
01_AE.TH.00.OUR810I.AY358063, 01_AE.TH.99.99TH_C2405.AY945718,
G.CU.99.Cu74.AY586547, 01_AE.CN.07.GX155_55.GU475043, 01_AE.JP.x.DR0492.AB253423,
B.US.x.S7508TOB8U.GU727988, A1.CY.06.CY171.FJ388950,
11_cpx.CM.96.96CM_4496.AF492623, C.ZA.05.CAP206_8w_F1.GQ999982,
B.US.x.A3533TOB8U.GU728308, 01_AE.TH.00.00TH_C2101.AY945716,
A1D.UG.03.PP1_F2_A1.HM027864, C.ZA.04.04ZASK200B1.DQ396383,
16_A2D.KR.97.97KR004.AF286239, B.KR.93.KRA812_C3.AJ417422,
07_BC.CN.x.GX84_59.HQ326146, 01ADF2.CM.01.01CM_0908MO.AY371170,
01_AE.TH.08.RY37.GQ916593, A1.UG.97.pt185.EU281999,
02_AG.CM.01.01CM_0074NY.AY371131, A.CM.97.97CM_MP640.AM279366,
AC.TZ.04.6540_v4_c1.HM215330, 25_cpx.SA.03.J11451.EU697908,
01B.MY.06.06MMYKLD46.EF495062, 11_cpx.CM.01.01CM_0186ND.AY371149,
01B.MY.07.07MYKLD48.EU031914, A1.RU.07.07_RU_SP_R497_IV_B16.GU481434,
B.US.x.M9512TOB8U.GU728409,
13_cpx.CM.02.02CM_3226MN.AY371154, BF1.BR.93.93BR029_4.AF005495,
01_AE.TH.99.99TH_C1080.AY945712, B.DO.05.05DO_163007.EU839598,
43_02G.SA.03.J11243.EU697907, 01B.MY.04.04MYKL016_1.DQ366663,
C.TZ.03.6471_v1_c16.HM215328, 01B.TH.x.CU98_26.EF192591, 01_AE.TH.06.47PL1.EU743768,
01_AE.GB.08.CH080100_e_p1.HM204634, 01_AE.TH.x.PSR_0508_2.HM215432,
BF1.JP.04.DR6190.AB480301, 01_AE.TH.06.21PL2.EU743757, 01_AE.TH.06.50PB2.EU743769,
A1.KE.05.QH343_21M_ENV_B5.FJ866120, G.ES.02.X1193_1.EU885761,
05_DF.BE.93.VI961.AF076998, 11_cpx.CM.02.02CM_2190SA.AY371151, D.UG.97.pt197.EU281998,
01_AE.TH.01.OUR788I.AY358068, 01_AE.CN.06.YN192_31.GU475046,
01_AE.TH.06.50PL1.EU743770, 01_AE.CN.06.FJ054.DQ859180, D.ZA.85.R286.AY773340,
01_AE.CN.08.GX74_20.GU475021, C.ZA.02.02ZAPS013MB1.DQ351222,
01_AE.CN.05.05GX128.GQ845126, 46_BF.BR.07.07BR_FPS625.HM026456,
01B.MY.03.03MYKL018_1.DQ366664, 01_AE.TH.07.WN04.GQ916569,
01_AE.VN.97.97VNAG212.FJ185252, 01_AE.TH.00.C1705.DQ789392, 0206.NE.00.NE95.AJ508596,
G.ES.05.X1628_2.FJ670520, 01_AE.TH.06.98CC3.EU743783, 49_cpx.GM.03.N24017.HQ385461,
F1.FR.96.PHI420.AY231157, 13U.CM.04.258.EU513192, 01_AE.TH.06.65CC4.EU743780,
01_AE.TH.06.T614109_sga13.HQ691090, J.CM.04.04CMU11421.GU237072,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

04_cpx.GR.97.GR84_97PVMY.AF119819, 01_AE.CN.05.05GX079.GQ845125,
C.ZA.08.20927783.HQ595750, 37_cpx.CM.00.00CMNYU926.EF116594,
01_AE.TH.06.101PL1.EU743788, 33_01B.MY.05.05MYKL007_1.DQ366659,
01_AE.CF.90.90CF11697.AF197340, 01_AE.TH.06.99PL2.EU743787,
B.US.x.T4544TOB8U.GU728311, B.BR.03.BREPM1023.EF637057,
01B.MY.05.05MYKL043_1.DQ366666, A.TZ.08.CH0175_e2.HM204620,
C.ZA.03.03ZASK058B2.AY901967, 02_AG.ES.06.P1423.EU884501, 01_AE.TH.08.RY18.GQ916589,
F1.CD.06.MFU14_2_c7_b4.FJ817372, 02_AG.CM.04.211.EU513187, D.CY.06.CY163.FJ388945,
09_cpx.US.99.99DE4057.AY093607, 01_AE.CN.07.BJOX010000_06_2.HM215373,
01_AE.TH.99.OUR258I.AY358049, 01_AE.TH.07.WN13.GQ916573, B.US.x.HCPI_01_02.GU367409,
01B.TH.x.TH1326.AY082968, A1.RU.06.RU_915_1074_F2.HQ385841, F2.CM.x.CA20.AJ277824,
G.CM.04.515_28.FJ389365, 01_AE.CN.05.Fj066.EF036535, B.US.x.K0516TOB8U.GU728404,
B.US.00.Z20_B3.EF593289, A.CM.99.99CM_MP1433.AM279348,
01B.US.98.99US_MSC5043.AY444812, B.AU.04.MS2004_37_040.EF178338,
11_cpx.CM.02.02CM_4118STN.AY371153, A1D.UG.00.PP1_F4_B1.HM027852,
02U.CM.04.269.EU513194, F1.BR.07.07BR844.FJ771010, BF1.IT.05.83166.GU595152,
01_AE.TH.07.T535902_sga02.HQ691073, 24_BG.ES.08.X2456_2.FJ670526,
A.UG.07.191955_A11.HM215272, 01_AE.TH.06.105PL2.EU743792,
01_AE.TH.04.T502281_sga03.HQ691014, BF.AR.97.A050.AF408631,
C.ZA.03.03ZAPS066MB2.DQ396375, 18_cpx.CU.99.CU14.AY586541,
01B.TH.02.OUR740I.AY358073, B.US.x.N1505TOB8U.GU728094,
01_AE.CN.07.GX11_13.GU475042, 01_AE.TH.96.96TH_M02138.AY713424,
01_AE.CN.05.05GX014.GU564225, 02_AG.BE.07.ITM4_07_2.FN432728,
B.US.x.L6514TOB8U.GU727887

Protein sequences (# 140) covered by at least 20%

01_AE.CN.x.AE02.EU363850, 01_AE.TH.93.KH03.U48264, 01_AE.TH.08.TR28.GQ916582,
26_AU.CD.02.02CD_KS069.FM877780, 10_CD.TZ.96.96TZ_BF061.AF289548,
G.CN.06.sh52.HM067749, 02A.CM.97.97CM_MP581.AM279356,
02A.CM.96.96CM_MP538.AM279362, 01_AE.TH.x.NP03.AB485655,
01_AE.TH.01.01TH_C1436.AY945713, 01C.CN.08.08YN080.HM138656,
02A1U.CM.04.33.EU513186, B.SE.00.P2b_20000615.GU204932, A1C.CA.04.04CA7750.EU220698,
B.US.96.5155_96.AY835753, 01_AE.CN.07.GX25_29.GU475030, 01_AE.TH.06.107CC2.EU743794,
01B.MY.07.07MYKLD49.EU031915, A1.RU.08.PokA1Ru.FJ864679, A1U.CM.04.263.EU513182,
B.US.07.CR0275.FJ469713, 01_AE.VN.97.97VNAG206.FJ185248,
01_AE.TH.98.98TH_R1166.AY945728, 01_AE.TH.95.NI1145.AF070704,
46_BF.BR.07.07BR_FPS810.HM026459, 14_BG.ES.00.X477.AF423759,
01_AE.CN.07.CNE56.HM215419, C.ZA.09.704MC016N.GU080173, 01_AE.TH.08.TR01.GQ916576,
C.ZA.04.04ZASK180B1.AY878059, AKU.US.x.L873.DQ886038, H.GB.00.00GBAC4001.FJ711703,
01_AE.TH.07.T502102_sga06.HQ691006, B.BR.02.02BR002.DQ358805,
C.TZ.03.6980_v0_c31.HM215344, 01_AE.CN.07.GX142_2.GU475031,
BF1.JP.04.DR6082.AB480299, 01_AE.CN.05.FJ051.DQ859178, 06_cpx.NG.94.NG3670a.AF069934,
G.KE.93.HH8793_12_1.AF061641, BF1.ES.02.X1241.AY536238,
01_AE.CN.08.SHX346_60.GU475034, 01_AE.CN.08.GX90_1.GU475019,
01_AE.TH.06.102CC2.EU743789, G.ES.08.P1981_2.FJ670530, AC.KE.07.21023_B4.HM215276,
A.CD.97.97CD_KCC2.AM000053, A.KE.00.00KE_KER2008.AY736809,
01_AE.TH.99.99TH_R1149.AY945727, 01_AE.TH.07.T503006_sga18.HQ691024,
46_BF.BR.01.01BR087.DQ358801, A1.CY.05.CY121.FJ388932,
A1.KE.05.QH359_21M_ENV_C1.FJ866121, B.BR.03.BREPM1035.EF637049,
01_AE.TH.08.TR23.GQ916579, 02D.GH.03.GHNJ193.AB231897,
01_AE.TH.00.00TH_C3347.AY945721, BF1.BR.02.02BR034.DQ358812,
01_AE.CN.08.GX73_29.GU475038, 01_AE.TH.06.104PB4.EU743790,
23_BG.CU.03.CB118.AY900571, 01_AE.CN.08.SH6_81.GU475032,
F1.FR.96.96FR_MP411.AJ249238, 01_AE.TH.01.OUR642I.AY358041,
B.BR.03.BREPM1033.EF637050, 01_AE.TH.99.OUR203I.AY358048,
01_AE.CN.07.GX24_8.GU475015, 01_AE.VN.97.97VNAG218.FJ185255,



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

A1.TZ.08.CH0219_e4.HM204621, 01_AE.TH.06.52PL7.EU743773,
11_cpx.FR.99.MP1307.AJ291720, 01_AE.HK.04.HK001.DQ234790, 01_AE.TH.06.22PL1.EU743758,
01_AE.CN.07.BJ3_4.GU475040, G.ES.09.Ex15.GQ862780,
A1.RU.06.06_RU_SP_SC1457_VI_E12.GU481615,
06A1.RU.06.06_RU_SP_SC1283_VI_2A1.GU481608, B.US.x.Z8529TOB8U.GU728274,
01_AE.CN.06.Fj064.EF036533, 02_AG.CM.97.CM53658.AF377955, F1.BR.06.06BR579.FJ771009,
01_AE.CN.05.Fj057.EF036530, B.US.x.P7574TOB8U.GU728240, B.US.x.B4578TOB8U.GU728290,
B.US.x.HCPI_13_01.GU367412, B.US.x.T8510TOB8U.GU728157, B.US.06.2886_p1.FJ152548,
C.ZA.05.05ZAFV26.DQ382378, 33_01B.MY.05.05MYKL045_1.DQ366662,
01B.TH.02.OUR846I.AY358072, 01_AE.CN.05.Fj052.EF036528, A1D.KE.99.KISII5003.AF457059,
01_AE.US.98.98US_MSC2008.AY444805, 01_AE.CN.05.Fj065.EF036534,
C.ZA.04.04ZASK184B1.DQ056418, 01_AE.TH.99.99TH_R3006.AY945731,
A1.BE.x.VI2809.EU191615, 01_AE.TH.06.62PL1.EU743778, B.US.x.B9517TOB8U.GU727884,
02_AG.SN.99.3226_p15.HM215291, 01_AE.TH.07.WN10.GQ916571,
B.DK.04.PMVL_025.EF514702, 01_AE.TH.06.98CC2.EU743782, JKU.FR.95.PHI354.AY231154,
BF.BR.94.94BR_RJ_59.AY455784, A1.GB.08.I230_A10.HQ595782, 01_AE.TH.08.TR26.GQ916580,
01_AE.TH.99.OUR008I.AY358065, J.CD.97.J_97DC_KTB147.EF614151,
02A.CM.97.97CM_MP802.AM279355, A1.ES.05.X1608_8.FJ670519, A1D.UG.97.pt223.EU281997,
BF.BR.99.99UFRJ_9.AY455783, 01_AE.TH.08.RY12.GQ916587, 01_AE.CN.06.CNE5.HM215415,
11_cpx.FR.99.MP1298.AJ291719, A1.GB.08.K160_H10.HQ595784,
B.BR.04.BREPM1066.FJ195090, B.US.x.PRLS05.FJ469756, 05_DF.BE.x.VI1310.AF193253,
01_AE.CN.08.SHX335_24.GU475033, B.CY.05.CY122.FJ403482,
01_AE.CN.08.GX83_47.GU475027, C.ZA.03.03ZASK026B2.DQ011165,
C.ZA.05.05ZAFV28.DQ382380, 49_cpx.GM.03.N26677.HQ385479, 01_AE.TH.08.RY31.GQ916592,
01_AE.VN.97.97VNAG204.FJ185247, B.US.x.CR0317N.FJ469719, B.US.x.B4522TOB8U.GU728253,
01_AE.TH.08.TR18.GQ916578, C.ES.x.MH08.EF531335, 01_AE.TH.06.65PL1.EU743781,
33_01B.MY.05.05MYKL031_1.DQ366661, 49_cpx.GM.97.N28353.HQ385478,
01_AE.TH.06.41PB3.EU743764, B.US.x.S8511TOB8U.GU728271,
01_AE.CN.08.GX88_47.GU475018, G.ES.07.X2160_r25.EU885765,
BF1.AR.02.02AR115455.DQ383747

Protein sequences (# 22) covered by at least 15%

01_AE.TH.04.BKM.DQ314732, G.CM.01.A1786.FJ389367, BF1.IT.06.89072.GU595153,
DO.FR.08.RBF208.GQ351296, 43_02G.SA.03.J11223.EU697904, 14_BG.ES.05.X772_8.FJ670528,
A1GJ.BW.98.BW2117.AF192135, 01B.MM.00.mIDU502.AB097865, D.ZA.86.R482.AY773341,
F2.CM.95.95CM_MP255.AJ249236, 02U.CM.04.257.EU513185, U.GR.99.GR303.AY046058,
04_cpx.GR.91.GR11_97PVCH.AF119820, D.ZA.85.R214.AY773339, F1.RU.08.D88_845.GQ290462,
B.US.02.MTF.FJ469751, 01_AE.CN.06.Fj062.EF036531, 46_BF.BR.07.07BR_FPS742.HM026457,
01_AE.CN.06.Fj061.EF036536, F1.AR.02.ARE933.DQ189088,
01_AE.CN.07.BJOX028000_34_2.HM215390, BF1.IT.02.57954.GU595150

Protein sequences (# 7) covered by at least 10%

CPZ.CM.x.SIVcpzMB897.EF535994, 49_cpx.GM.99.N005284.HQ385443,
27_cpx.FR.04.04CD_FR_KZS.AM851091, CPZ.CM.x.SIVcpzDP943.EF535993,
CPZ.CM.01.SIVcpzCAM13.AY169968, CPZ.CM.05.SIVcpzLB7.DQ373064,
CPZ.CM.05.SIVcpzMB66.DQ373063

Protein sequences (# 7) covered by at least 5%

CPZ.CM.98.CAM3.AF115393, CPZ.CM.05.SIVcpzEK505.DQ373065,
CPZ.CM.05.SIVcpzMT145.DQ373066, CPZ.GA.88.GAB1.X52154, CPZ.CM.98.CAM5.AJ271369,
N.CM.97.YBF106.AJ271370, N.CM.06.U14296.GQ324962



Innovative Peptide Solutions

PepMix™ HIV (ENV) Ultra

Protein sequences (# 57) covered by less than 5%

N.CM.04.04CM_1015_04.DQ017382, O.CM.96.96CMEB005.AF383253,
N.CM.06.U14842.GQ324958, O.CM.96.96ABB009.AF383231, O.CM.99.99CMU4673.AF383241,
O.CM.x.CM4974.AF009033, O.US.99.99USTWLA.AF383260, O.CM.94.BCF06.AB485667,
O.CM.98.98CMA123.AF383235, O.CM.98.98CMA103.AF383237, O.CM.98.98CMABB212.AY169804,
O.CM.98.98CMA307.AF383246, O.CM.99.99CMA120.AF383228,
N.CM.04.04CM_1131_03.DQ017383, N.CM.95.YBF30.AJ006022, N.CM.02.DJO0131.AY532635,
O.BE.87.ANT70.L20587, O.CM.97.97CMABB447.AF383258, O.CM.97.97CMABB497.AF383257,
O.CM.98.98CMA124.AF383245, O.CM.98.98CMA453.AF383251, O.CM.98.98CMU5337.AF383240,
O.CM.99.99CMA108.AF383238, O.CM.99.99CMA119.AF383236, O.CM.99.99CMA122.AF383229,
O.CM.99.99CMA304.AF383244, O.CM.99.AT0022.AY489910, O.CM.99.ST1214.AY489918,
O.CM.x.pCMO2_3.AY618998, O.GQ.94.193HA.U82990, O.GQ.94.267Ha.U82991,
O.CM.00.PHC029.AY489913, O.CM.00.PHC094.AY489914, O.CM.00.PHC234.AY489912,
O.CM.00.SH0006.AY489915, O.CM.93.CA9.X96522, O.CM.96.96CMA102.AF383230,
O.CM.98.98CMA100.AF383262, O.CM.98.98CMA323.AF383248, O.CM.98.98CMA407.AF383250,
O.CM.98.98CMABB141.AF383252, O.CM.98.98CMABB197.AF383254, O.CM.99.AT0138.AY489911,
O.CM.99.DSC1320.AY489739, O.FR.92.VAU.AF407418, O.GA.92.VI686.X96526,
O.SN.99.99SE_MP1299.AJ302646, O.CM.00.SH0578.AY489916, O.US.97.97US08692A.AF383259,
02O.CM.97.97CA_MP645M_O.AJ239083, P.CM.06.U14788.HQ179987,
P.FR.09.RBF168.GU111555, CPZ.CD.90.ANT.U42720, N.CM.02.SJGddd.GQ324959,
O.CM.91.MVP5180.L20571, O.CM.99.99CMU4122.AF383247, O.CM.99.SH2859.AY489917