



Innovative Peptide Solutions

## PepMix™ HIV (GAG) Ultra

### Annotations - PepMix™ HIV (GAG) Ultra

HIV-1 GAG, average coverage: 57.8%

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 (# 5) covered by at least 80%

BF.BR.99.BREPM275.AY771592, B.US.86.AD87.AF004394, B.US.x.1\_18.U29250,  
B.UY.01.01UYTRA1092.AY781126, B.US.86.5127\_86.AY835774

### Protein sequences (# 83) covered by at least 75%

C.ZA.99.DU422.AY043175, B.BR.03.BREPM1023.EF637057, B.US.91.SUMA\_fIC5.FJ496145,  
B.US.x.E1530TOB8U.GQ371290, B.UA.01.01UAKV259.DQ823364, B.US.05.012286G.FJ469683,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2937.EU241994, B.ES.07.X2210\_3.EU786679,  
B.US.x.Q3531TOB8U.GQ371555, B.KR.04.04KMH5.DQ295193, C.KE.00.KER2010.AF457054,  
B.US.x.L8188.FJ469744, B.US.98.WC3\_0498\_4.EF175212, B.AU.04.Phcsffull04.AY818644,  
B.US.x.R2.AY206651, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2924.EU241981,  
B.US.84.NY5CG.M38431, B.AU.x.HCPI\_10\_01.GU367413, B.US.x.S7572TOB8U.GQ371612,  
B.UA.01.01UAKV167.DQ823362, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3049.EU242106,  
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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3046.EU242103, B.KR.04.04LSg10\_2365.EF370338,  
B.US.02.AC\_GAG39.GU390502, BF1.AR.89.1989\_57.FJ155094, C.ZA.00.00ZA615110.DQ793025,  
B.US.90.US1.AY173952, C.BW.96.96BW0402.AF110962, C.ZA.06.CAP069\_3\_09.EU347687,  
B.US.02.PRLS09.FJ469758, B.US.x.W5536TOB8U.GQ371679, B.US.x.W4541TOB8U.GQ371676,  
B.ES.08.ES.GQ372988, B.US.x.X1545TOB8U.GQ371696, C.US.98.98US\_MSC5016.AY444801,  
B.AU.x.VH.AF146728, B.US.04.AC\_GAG29.GU390492, B.DK.04.PMVL\_018.EF514697,  
B.US.91.US2.AB485640, B.CN.03.03CNLN58.EF122533,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3305.EU242362, B.AU.86.MBC200.AF042100,  
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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2989.EU242046, B.US.97.1001\_09.AY331283,  
B.US.05.AC\_GAG19.GU390482, C.ZA.01.2638M.AY838616, B.AR.02.02AR114146.DQ383746,  
C.ZA.03.03ZAPS081MB1.DQ351219, B.CY.04.CY010.EU673417, B.US.x.WT5.AY206660,  
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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3258.EU242315, B.US.02.04013226\_2\_fIH11.FJ496078,  
B.TH.96.M149.DQ354119, C.ZM.96.96ZM651.AF286224, B.KR.03.03LGS2\_2265.EF370373,  
B.DE.04.AC\_GAG4.GU390467, B.BR.03.BREPM1035.EF637049, B.US.x.BVC\_010.FJ387536,  
C.ZA.99.1048M.AY838581, B.US.x.S9515TOB8U.GQ371615, B.US.x.J4512TOB8U.GQ371390,  
C.ZA.03.03ZAPS094MB1.DQ396377, B.AU.95.C76.AF538306, B.US.04.CR0116Y.FJ469698,  
B.US.96.5155\_96.AY835753, B.CN.01.DH015.AB078712, B.US.00.6.HM116815,  
01B.TH.02.OUR740I.AY358073, B.GB.03.MM33d12p.HM586187, C.ZM.05.ZM286F.FJ606361,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3144.EU242201,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3395.EU242452, B.AR.05.2005\_03.FJ155192,  
C.ZA.01.2647M.AY838617, B.US.x.R9506TOB8U.GQ371589

### Protein sequences (# 336) covered by at least 70%

B.GB.03.MM33d12p.HM586187, C.ZM.05.ZM286F.FJ606361,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3144.EU242201,  
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C.ZA.01.2647M.AY838617, B.US.x.R9506TOB8U.GQ371589, A2C.ZA.98.DU178.AF411965,  
B.RU.04.04RU139095.AY819715, C.ZA.05.05ZAPSK240B1.DQ369991,  
C.BW.00.00BW18595.AF443099, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3121.EU242178,  
C.BW.00.00BW17732.AF443095, C.ZA.03.03ZAPS083MB1.DQ351229,



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C.ZA.03.03ZASK110B1.DQ056411, C.IN.99.50823.AF533135,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3323.EU242380, BF1.JP.x.DR0769.AB253430,  
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C.ZA.03.03ZAPS089MB1.DQ351216, B.US.x.B7579TOB8U.GQ371261, B.US.x.PRLS17.FJ469761,  
B.FR.83.HXB2\_LAI\_IIIB\_BRU.K03455, B.US.04.AC\_GAG26.GU390489, B.ES.06.X1998.EU786676,  
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B.GA.88.OYI.M26727, B.CO.01.PCM039.AY561239, BF1.BR.99.BREPM11931.DQ085869,  
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B.AR.04.2004\_10.FJ155186, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3307.EU242364,  
B.TH.96.M140.DQ354112, B.US.x.BEC126.EU517813, BF1.AR.88.1988\_45.FJ155084,  
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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3009.EU242066, B.ES.07.X2231.EU786680,  
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B.AU.98.AU08.FJ667234, B.US.x.CR0206U.FJ469705, B.AR.99.ARMA132.AY037282,  
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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3407.EU242464, B.DE.04.AC\_GAG10.GU390473,  
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C.ZA.98.98ZA502.AY158534, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2923.EU241980,  
C.ZA.03.03ZAPS077B1.DQ093591, C.TZ.01.A93.AY253303, B.CA.04.MN08.FJ667247,  
B.AR.97.1997\_05.FJ155114, B.US.03.30.HM116831, C.IN.00.NARI\_GAG\_1.AY484419,  
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B.AR.00.ARMS008.AY037269, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3135.EU242192,  
B.PH.x.PH136.L11780, C.ZA.02.2711M.AY838621, C.ZA.04.04ZASK167B1.DQ164127,  
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B.JP.05.DR6538.AB287363, B.CA.97.CANB3FULL.AY779553, B.JP.x.PATIENT\_IMS3.AB074056,  
C.ZA.04.SK188.HM593195, BC.CN.98.YNRL9828.AY967805, B.US.x.S0531TOB8U.GQ371594,  
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B.NL.96.H434\_42\_E12.AY970950, B.US.97.Ac\_06.AY247251, C.ZA.04.04ZASK200B1.DQ396383,  
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C.ZA.99.1051M.AY838592, C.ZA.99.1058M.AY838603, B.US.x.T4513TOB8U.GQ371628,



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B.US.x.BEC43.EU517774, B.US.x.PARC\_CP014GAG.EU864055, B.ES.08.X2510\_2.FJ853622, B.DE.86.HAN.U43141, C.ZA.03.03ZAPS151MB1.DQ396392, C.ZA.01.01ZA616017.DQ793038, D.CD.84.84ZR085.U88822, C.ZA.04.SK197.HM593204, B.ES.08.P2008.FJ670531, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3146.EU242203, B.US.96.1027\_03.AY332237, B.CN.05.05CNHB\_nz17.DQ833430, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2883.EU241940, C.ZM.01.ZM155F.FJ606205, B.US.00.WITO\_fIB3.FJ496169, B.CY.05.CY124.FJ388933, B.BR.02.02BR013.DQ358810, B.US.04.014837G.FJ469684, B.AU.95.C92.AF538307, B.DE.05.B\_04.FJ667239, B.GE.98.98GEMZ003.DQ207943, C.ZA.00.1173M.AY838587, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2933.EU241990, C.TZ.01.BD16\_10.AY253320, B.US.x.N6522TOB8U.GQ371489, C.ZA.05.CAP229\_7w.GQ999985, B.CN.x.RL42.U71182, B.US.98.98USHVTN3605c9.AY560108, C.ZA.00.1210MB.AY463221, B.BR.03.BREPM1032.EF637051, C.ZA.00.1117M.AY838573, C.ZA.01.01ZA616486.DQ793044, B.US.x.BEC90.EU517799, B.US.x.P4576TOB8U.GQ371535, B.US.x.NCQ.FJ469752, C.ZA.06.SK423.HM593432, C.ZA.99.99ZALT21.EU293446, D.TD.99.MN012.AJ488927, D.CM.01.01CM\_4412HAL.AY371157, B.US.x.CR0192W.FJ469704, B.JP.x.PATIENT\_IMS9.AB074071, B.UG.x.UG280.L11802, C.ZA.04.04ZAPS168B1.DQ164121, B.US.00.9.HM116818, BC.CN.01.DH016.AB078713, C.ZA.03.03ZAPS088MB1.DQ275651, B.US.x.O2517TOB8U.GQ371505, B.AU.04.A\_01.FJ667208, B.US.x.D7515TOB8U.GQ371281, C.ZA.99.99ZACM9.AF411967, C.ZA.03.03ZAPS133MB1.DQ275646, B.US.x.J1526TOB8U.GQ371384, C.ZM.04.ZM274F.FJ606349, CD.TZ.01.A247.AY253309, C.MW.01.01MW525298.DQ792987, C.ZA.05.SK308.HM593312, C.ZA.04.04ZASK155B1.AY901978, B.AU.95.C24.AF538304, C.ZA.00.1201M.AY838590, C.ZA.05.CAP45\_5w\_F1.GQ999974, C.ZA.03.03ZAPS026MB1.DQ369985, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3054.EU242111, B.CA.00.CANA6FULL.AY779552, B.US.97.1018\_10.AY331290, B.US.04.L819.FJ469745, B.ES.89.U61.DQ854716, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3011.EU242068, C.ZA.01.2590M.AY838612, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3398.EU242455, C.ZA.03.PS\_020M.AY838634, C.ZA.03.SK100.HM593107, C.ZA.04.04ZAPS188B1.DQ164122, C.ZM.01.ZM150F.FJ606201, C.ZM.03.ZM179M.FJ606230, B.CU.99.Cu19.AY586542, B.US.02.PRLS16.FJ469760, C.ZM.98.ZM66F.FJ606428, C.TZ.01.BD9\_11.AY253322, C.ZA.04.04ZASK192B1.DQ396382, C.ZA.00.1178MB.AY463233, C.IN.x.VB49.EF694036, B.CN.05.05CNHB\_dw119.DQ833419, B.EC.89.EC102.AY173960, B.US.90.WEAU160.U21135, C.ZA.03.03ZASK211B1.DQ093601, C.ZA.00.1228MB.AY463222, B.US.99.PRB959\_03.AY331296, B.US.x.O9537TOB8U.GQ371521, C.BW.00.00BW18113.AF443098, B.DK.04.PMVL\_027.EF514698, B.US.04.CR0080N.FJ469697, B.US.x.WT6\_PDC1.AY206661, B.US.00.14294\_1.DQ853436, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2909.EU241966, C.ZA.00.1132M.AY838576, C.ZA.00.1192M3M.AY463219, 01B.MM.00.mIDU502.AB097865, C.ZA.03.03ZAPS116MB1.DQ445635, B.US.x.2\_10.U29260, B.BR.02.02BR011.DQ358809, C.ZM.04.ZM182F.FJ606233, B.US.x.BVC\_007.FJ387533, B.JP.04.DR5913.AB480696, B.US.x.BCP\_001.FJ387525, B.CN.02.00CNLN02.EF122548, C.ZA.03.SK105.HM593112, A1DK.CD.85.MAL.X04415, C.ZA.00.1217MB.AY463226, B.US.x.WT4.AY206659, C.ZA.00.1162MB.AY463224, C.BW.00.00BW20872.AF443104, C.ZA.03.SK023B2.AY772690, 01B.TH.x.NP1623.AF362994, B.GB.86.GB8\_46R.AJ271445, B.US.x.L8146.DQ886034, B.BR.03.BREPM1027.EF637054, B.CN.02.02HNsq4.AY275555, B.GB.05.MM43d368\_GN1.HM586209, C.ZA.01.2013M.AY838597, B.CN.05.05CNHB\_dy199.DQ833423, C.BW.98.98BWMO36A5.AF443081, C.TZ.03.H234.FJ853539, B.CN.02.02CNLN34.EF122522, C.ZA.04.04ZASK193B1.DQ396396, C.ZA.03.03ZAPS043MB1.DQ351227, B.BR.03.BREPM1040.EF637047, C.ZA.01.01ZA615406.DQ793037, C.ZA.00.1185M.AY838589, B.US.x.Q2524TOB8U.GQ371552, C.ZA.03.03ZASK072B1.DQ093593, B.US.x.L3534TOB8U.GQ371436, B.CN.05.05CNHB\_dw06.DQ833411, C.BW.00.00BW3876\_9.AF443111, C.CY.05.CY040.FJ388901, B.US.02.L893P.FJ469749, C.ET.88.GO88052GP.AY242582, C.ZA.05.SK269.HM593273, B.US.x.L8185.DQ886036, B.US.97.1012\_11.AY331286, B.US.x.S3526TOB8U.GQ371601, C.ZM.00.ZM38F.FJ606384, B.US.02.CR0017Q.FJ469687, B.AR.89.1989\_13.FJ155087, C.ZA.06.SK407.HM593414, B.US.02.MTF.FJ469751, B.US.98.98USHVTN941c1.AY560110, C.ZA.05.SK251.HM593255, BC.CN.01.DH003.AB078705, B.FR.x.210MM.EU100418, C.ZA.01.1232M.AY838596, B.DE.x.22.AJ437038, C.ZA.00.1189MB.AY838565, C.ZA.03.03ZASK066B1.AY901969, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3068.EU242125,



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C.ZA.03.03ZASK005B2.DQ011175, B.US.x.N8517TOB8U.GQ371492, B.US.x.CR0050Z.FJ469692, B.US.03.34.HM116835, B.DE.05.B\_09.FJ667244, C.ZM.x.HIV1084i.AY805330, C.ZA.04.SK143B1.AY703910, B.FR.x.Vis9.FJ649603, C.ZA.01.2015M.AY838599, B.US.x.6M\_1003.AY786878, B.US.x.BEC52.EU517779, C.ZA.03.03ZAPS136MB1.DQ351231, B.US.x.S1532TOB8U.GQ371598, C.ZA.00.1140M.AY838580, B.US.x.Q2536TOB8U.GQ371553, C.CY.06.CY166.FJ388948, 01BC.MM.99.mIDU107.AB097868, C.ZA.05.SK344.HM593349, C.ZA.99.99ZATM10.AY228556, C.TZ.03.H042.FJ853512, B.US.03.AC\_GAG21.GU390484, B.AR.03.03AR138910.DQ383749

### Protein sequences (# 786) covered by at least 65%

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PepMix™ HIV (GAG) Ultra

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B.US.x.R2533TOB8U.GQ371577, B.US.x.HCPI\_01\_01.GU367440, C.ZA.05.CAP174\_4w.GQ999981,  
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B.KR.02.02PGU10\_2277.EF370365, B.JP.04.DR6089.AB286956, C.ZA.00.00ZA615136.DQ793027, 01\_AE.TH.99.99TH\_C2405.AY945718, B.US.x.R4517TOB8U.GQ371580, B.CY.05.CY149.FJ388940, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3053.EU242110, C.ZA.00.00ZA615078.DQ793021, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3123.EU242180, 04\_cpx.CY.94.94CY032\_3.AF049337, B.CN.05.05CNHB\_cd166.DQ833409, B.US.x.L6514TOB8U.GQ371443, D.TD.99.MN011.AJ488926, B.US.00.AC\_GAG36.GU390499, B.CN.05.05CNHB\_sz207.DQ833435, B.US.x.PARC\_CP024GAG.EU864065, B.BR.x.BZ200.L11754, C.BW.99.99BW47547.AF443086, B.FR.x.Vis13.FJ649604, B.US.x.O9545TOB8U.GQ371522, 01\_AE.TH.00.OUR5951.AY358052, 46\_BF.BR.07.07BR\_FPS783.HM026458, C.ZA.04.04ZASK176B1.DQ056416, B.DK.04.PMVL\_025.EF514702, B.US.03.L8180.FJ469743, B.US.x.AC99\_WK8.DQ996253, B.JP.x.PATIENT\_IMS1.AB074051, DF1.NL.89.R890820.AF247519, B.US.03.AC\_GAG54.GU390517, C.ZA.00.1197MB.AY463234, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3269.EU242326, B.US.04.AC\_GAG23.GU390486, C.ZA.98.TV014.AF391267, B.US.x.Z6510TOB8U.GQ371755, B.US.x.A4521TOB8U.GQ371228, C.ZA.03.03ZASK104B1.DQ396395, B.US.x.S5592TOB8U.GQ371606, D.KE.95.clone\_1639.GQ431503, C.ZM.99.ZM39F.FJ606387, B.DE.05.AC\_GAG50.GU390513, B.AU.04.MS2004\_37\_060.EF178358, C.ZA.03.03ZASK233B1.DQ351234, C.ZA.05.SK242.HM593247, C.ZA.99.985M.AY838624, B.CY.05.CY037.FJ388899, BF.AR.00.ARCH003.AY037267, C.ZA.05.SK345.HM593350, 02D.GH.03.p03GH194AG09.AB480044, B.AR.00.2000\_04.FJ155137, C.ZA.00.1168MB.AY463231, C.ZA.03.03ZAPS079B1.DQ093592, C.ZA.03.SK45.HM593460, B.US.x.N8594TOB8U.GQ371493, C.ZA.04.04ZASK234B1.DQ093605, B.US.x.T1572TOB8U.GQ371624, B.BO.99.BOL0122.AY037270, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2972.EU242029, B.US.x.BEC119.EU517810, B.US.x.JM046.EF090290, B.US.x.BEC63.EU517785, B.US.x.K4511TOB8U.GQ371412, C.ZA.06.SK399.HM593404, 01B.TH.96.M171.DQ354121, C.ZA.00.1114M.AY838571, D.UG.99.99UGB25647.AF484481, C.ZA.03.03ZAPS118MB1.DQ396368, B.US.x.K6529TOB8U.GQ371416, C.ZA.01.01ZA615366.DQ793033, C.ZA.00.1184MB.AY838588, C.ZA.00.1160M.AY838586, C.ZA.00.1003M.AY838569, BF1.BR.99.BREPM11871.DQ085867, C.ZM.05.ZM519F.FJ606417, BF.BR.99.BREPM278.AY771593, B.US.x.J8593TOB8U.GQ371400, C.ZM.00.00ZM541131.DQ793006, C.ZM.05.ZM1149F.FJ606144, B.AU.03.PS2008\_Day182.DQ676875, B.US.06.CR0276Z.FJ469714, C.MW.01.01MW525343.DQ792991, C.ZA.05.CAP256\_6w.GQ999989, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2996.EU242053, C.ZA.05.SK354.HM593360, B.DE.x.27.AJ437050, B.US.x.S5571TOB8U.GQ371605, C.ZA.04.SK126.HM593133, B.CN.05.05CNHB\_cd165.DQ833408, C.ZA.03.03ZASK011B2.AY901965, C.ZM.05.ZM1223M.FJ606168, 01DU.CM.01.01CM\_4008HAN.AY371168, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2914.EU241971, C.BW.98.98BWMC14A3.AF443078, B.US.x.CC014740.EF090287, B.DE.04.B\_02.FJ667237, B.US.91.5048\_91.AY835761, C.ZA.04.04ZAPS217B1.DQ164119, C.ZA.03.03ZAPS063MB1.DQ396388, C.BW.00.00BW076820.AF443089, C.BW.00.00BW20361.AF443102, B.US.06.CR0228Q.FJ469710, C.ZA.04.SK133B1.AY772698, C.ZA.04.04ZASK147B1.DQ164114, C.ZA.05.CAP84\_3w\_F2.GQ999978, C.ZA.03.03ZASK058B2.AY901967, C.ZM.03.ZM228M.FJ606292, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3333.EU242390, B.DK.01.CTL\_016.EF514704, B.US.x.E7529TOB8U.GQ371306, C.MW.01.01MW525028.DQ792982, B.US.90.90US\_873.AY713412, B.AR.00.2000\_11.FJ155142, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3136.EU242193, C.TZ.03.H446.FJ853564, C.ZA.03.03ZASK039B2.AY878068, B.AR.05.2005\_06.FJ155195, B.US.x.BVC\_008.FJ387534, B.US.x.G8598TOB8U.GQ371357, BF.ES.02.R140.AY536237, C.TZ.03.H095.FJ853519, C.ZM.00.00ZM541126.DQ793005, D.UG.99.99UGD26830.AF484486, D.UG.03.03\_2968KM.AY803359, AD.US.99.99US\_MSC4068.AY444799, C.IN.95.95IN21068.AF067155, B.DE.03.AC\_GAG14.GU390477, G.CM.96.96CMABB55.AY772535, B.US.x.PARC\_CP019GAG.EU864060, C.ZM.05.ZM1008F.FJ606117, C.BW.98.98BWMO37D5.AF443082, B.US.x.BEC64.EU517786, C.ZA.03.03ZAPS143MB1.DQ396391, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3156.EU242213, C.ZM.04.ZM182M.FJ606234, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3191.EU242248, C.ZA.03.03ZAPS021MB1.DQ369978, D.CM.01.01CM\_0175BA.AY371156, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3230.EU242287, C.ZM.04.ZM199F.FJ606253, B.DK.04.PMVL\_013.EF514700, A1D.UG.99.99UGB26587.AF484482, C.ZA.98.TV006B.AF391258, C.ZM.00.00ZM541144.DQ793007, C.ZM.88.ZAM18.L03705,



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PepMix™ HIV (GAG) Ultra

C.ZA.99.99ZALT39.EU293447, B.US.04.AC\_GAG66.GU390529, C.ZA.04.04ZASK183B1.AY878055, B.JM.05.01044C1\_GAG\_6\_20\_05\_P.FJ211790, B.US.x.BVC\_005.FJ387531, C.ZA.03.03ZAPS050MB1.DQ369980, C.ZM.04.ZM204F.FJ606261, C.ZM.03.ZM223F.FJ606283, D.CM.x.CA04.AF247517, CD.KE.97.ML249.AY322187, B.CN.05.05CNHB\_dw107.DQ833416, B.CN.05.05CNHB\_dy208.DQ833424, B.US.x.HCPI\_02\_01.GU367436, C.ZA.04.04ZASK142B1.DQ011167, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3113.EU242170, C.ZA.00.J38MA.AY463228, C.ZA.04.04ZASK139B1.AY878072, C.TZ.01.A301.AY253312, A1D.KE.91.clone\_1530.GQ431394, B.US.x.AC196\_WK6.DQ996245, C.ZA.06.SK404.HM593411, B.US.x.L3516TOB8U.GQ371435, B.US.05.AC\_GAG62.GU390525, C.IL.00.00ET695\_157\_279.AY255821, C.ZA.02.02ZAPS013MB1.DQ351222, BF.BR.99.99UFRJ\_2.AY455780, C.ZA.03.03ZAPS099MB1.DQ275655, B.DE.05.AC\_GAG51.GU390514, C.ZA.05.05ZASK245B1.DQ369982, B.AR.03.03AR137681.DQ383748, C.ZA.01.01ZA615381.DQ793035, B.CO.01.PCM013.AY561237, C.ZA.05.CAP63\_5w\_F4.GQ999976, C.ZM.01.01ZM541062.DQ793001, C.ZA.03.03ZAPS032MB1.DQ445633, B.KR.05.05CSR3.DQ837381, C.TZ.02.CO328.AY734551, C.ZA.05.SK254.HM593258, B.ES.08.P2021\_3.FJ853620, B.US.x.BVC\_006.FJ387532, BC.CN.08.08YN065.GU362013, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3175.EU242232, B.US.x.HCPI\_18\_01.GU367430, B.AU.03.PS2019\_Day171.DQ676881, B.US.x.Y4539TOB8U.GQ371730, C.ZA.00.1195MB.AY463220, B.US.x.BVC\_004.FJ387530, C.IN.98.98IN022.AF286232, D.UG.98.99UGJ32228.AF484516, B.US.06.CR0361T.FJ469723, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3165.EU242222, B.US.x.BEC99.EU517800, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3134.EU242191, C.ZA.98.TV019B.AF391270, B.TH.00.00TH\_C3198.AY945710, B.US.x.MDR2.AY206648, C.ZM.01.01ZM541178.DQ793008, B.CN.05.05CNHB\_dw16.DQ833414, C.IN.00.NARI\_GAG\_6.AY484424, C.ZA.01.2446M.AY838609, 01\_AE.TH.00.C020M1P224.GU458463, BF.AR.98.ARCH014.AY037266, A1B.KE.95.clone\_792.GQ430656, C.ZA.01.2497M.AY838610, C.TZ.03.H444.FJ853562, C.ZA.01.2038M.AY838601, C.ZA.06.SK365.HM593371, B.US.04.ES4\_24.EF363124, C.ZA.05.CAP258\_3\_09.EU347714, C.TZ.03.H001.FJ853501, BF.CL.01.CH3.AY536233, B.US.00.7.HM116816, C.TZ.01.A207.AY253307, BC.AR.01.ARE195FL.AY968312, B.AR.05.2005\_10.FJ155199, D.UG.02.TC025704.AY803405, B.AR.04.04AR143170.DQ383750, B.AR.99.1999\_15.FJ155132, B.US.06.BEC145.EU873003, D.UG.99.99UGE23438.AF484489, C.BW.00.00BW07621.AF443088, D.KE.95.clone\_1201.GQ431065, C.ZA.06.SK411.HM593419, B.US.x.W5855TOB8U.GQ371682, C.ZW.01.01ZW536149.DQ792996, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3172.EU242229, C.ZA.05.05ZASK243B1.DQ396372, C.ZM.03.ZM249M\_fic1.FJ496209, B.GE.03.03GEMZ004.DQ207940, A1A2D.KE.91.KNH1239.AY945739, C.BW.00.00BW3891\_6.AF443113, 01\_AE.TH.00.C008F1P91.GU458439, C.ZA.04.04ZASK145B1.AY901976, C.IL.00.00ET663\_158\_1.AY255813, D.UG.98.98UG57143.AF484514, B.AR.06.2006\_10.FJ155211, BF1.AR.04.2004\_06.FJ155182, BF.AR.97.A050.AF408631, 01\_AE.TH.02.C113F1P2032.GU458708, B.AU.x.9125091.AY857165, A1CDGKU.ZA.99.CM4.AF411964, B.AU.99.1181.AF538302, C.ZA.99.1118M.AY838574, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2969.EU242026, B.US.x.D9519TOB8U.GQ371286, B.CN.05.05CNHB\_xf01.DQ833436, B.JP.x.PATIENT\_IMS5.AB074060, C.ZA.03.03ZASK076B1.AY901975, C.ZA.00.1116M.AY838572, B.US.03.AC144.FJ667223, 29\_BF.BR.99.99UFRJ\_1.AY455778, C.ZM.04.ZM188F.FJ606239, B.US.x.D7504TOB8U.GQ371280, B.JP.05.DR6737.AB287364, B.US.x.Z8502TOB8U.GQ371759, C.ZA.98.TV003.AF391254, D.UG.99.99UGA08483.AY304496, D.KE.95.clone\_2578.GQ432442, B.US.83.RF.M17451, B.BR.03.BREPM2012.EF637046, C.ZA.01.01ZA616472.DQ793043, B.BR.05.BREPM1081.FJ195091, C.ZA.04.04ZASK180B1.AY878059, D.KE.87.clone\_347.GQ430211, C.ZA.03.03ZAPS067MB2.DQ396389, C.BW.98.98BWMO18D5.AF443080, A1.KE.00.KNH1209.AF457069, C.ZM.03.ZM178F.FJ606227, B.US.x.K9548TOB8U.GQ371425, C.ZA.03.SK75.HM593489, 01\_AE.TH.00.OUR7211.AY358067, B.US.x.Y0535TOB8U.GQ371719, B.US.x.K7576TOB8U.GQ371421, B.FR.x.Vis15.FJ649605, BF.AR.99.ARMA036.AY037275, C.ZM.01.01ZM541098.DQ793003, 12\_BF.UY.99.URTR35.AF385935, B.US.x.BEC11.EU517763, B.US.03.AC125.FJ667217, 01\_AE.TH.93.93TH253.U51189, BF1.ES.02.X1241.AY536238, C.ZA.06.SK431.HM593441, C.MW.01.01MW525327.DQ792990, B.CN.02.02CNLN44.EF122529, B.US.09.C1P.GU733713, B.ES.09.P2149\_3.GU362881, B.US.x.BEC60.EU517783, C.ZM.02.ZM196F.FJ606249, A1.KE.99.KNH1119.DQ367266, B.AU.04.PS1038\_Day174.DQ676871,





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PepMix™ HIV (GAG) Ultra

B.CN.05.05CNHB\_dw05.DQ833410, C.CD.x.VI313.L11787, B.CY.05.CY075.FJ388916,  
C.TZ.03.H064.FJ853514, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2885.EU241942,  
C.ZA.00.00ZA615185.DQ793029, D.UG.03.03\_8170IJ.AY803367,  
A1D.KE.98.clone\_1769.GQ431633, B.US.x.L4571TOB8U.GQ371441,  
C.IL.00.00ET666\_175\_175.AY255820, B.US.x.F7204.DQ886033, C.ZA.00.00ZA615026.DQ793017,  
B.CO.01.PCM023.AY561242, 01B.TH.02.OUR8461.AY358072, C.ZA.98.TV007.AF391259,  
B.US.x.X1537TOB8U.GQ371695, 07\_BC.CN.05.XJDC6441.EF368370,  
B.US.x.X5597TOB8U.GQ371704, B.US.x.AC210\_WK5.DQ996249, B.JP.98.DR1120.AB480698,  
B.US.04.AC\_GAG60.GU390523, B.US.x.AC\_04\_0\_Days\_Consen\_fa.DQ127534,  
C.ZA.05.SK301.HM593305, C.IL.00.00ET654\_166\_143.AY255819, C.TZ.03.H098.FJ853520,  
C.BW.00.00BW192113.AF443101, B.US.03.CR0154X.FJ469701,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2931.EU241988, C.TZ.03.H554.FJ853574,  
A1D.TZ.96.TZBFL0011.AF442569, B.DK.04.PMVL\_012.EF514699, C.ZA.06.SK421.HM593430,  
B.US.x.K1507TOB8U.GQ371407, C.ZA.03.SK44.HM593449, C.ZA.04.04ZASK217B1.DQ056417,  
B.CN.05.05CNHB\_qc386.EF394232, C.ZA.03.SK2.HM593207, B.US.06.CH40E\_fia1.FJ495818,  
D.UG.98.98UG57140.AF484511, C.TZ.98.98TZ013.AF286234, B.CA.x.HDM003V01.DQ322227,  
40\_BF.BR.04.04BRSQ46.EU735540, 01BC.MM.00.mCSW503.AB097866,  
BF1.VE.99.V62.AY536236, 01\_AE.TH.02.C100F1P1536.GU458631, BF1.AR.00.2000\_06.FJ155139,  
B.CO.01.PCM031.AY561244, C.ZM.02.ZM235F.FJ606301, D.KE.93.MB2059.AF133821,  
C.ZA.05.CAP239\_5w\_F1.GQ999991, B.CA.97.MN25.FJ667250, B.US.05.N\_361.FJ667251,  
B.US.x.D4535TOB8U.GQ371275, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3051.EU242108,  
40\_BF.BR.05.05BRRJ200.EU735539, C.TZ.01.A388.AY253317, B.US.x.HCPI\_20\_01.GU367428,  
BC.CN.01.DH017.AB078714, B.CN.05.05CNHB\_qc391.EF394234,  
B.KR.01.01PSJ10\_2356.EF370322, C.ZA.03.03ZAPS128MB1.DQ275643,  
B.US.x.T7528TOB8U.GQ371637, C.ZA.98.TV008B.AF391261, B.US.x.B1539TOB8U.GQ371244,  
B.AU.96.MBCC98.AF042104, C.ZA.99.1029M.AY838570, B.US.x.P3570TOB8U.GQ371532,  
C.ZA.03.03ZAPS097MB1.DQ351230, C.ZA.01.2651M.AY838618, C.ZM.03.ZM259F.FJ606328,  
B.KR.04.04KKT7\_2354.EF370326, C.ZA.98.TV004B.AF391256, B.AR.04.04AR151516.DQ383752,  
B.DE.04.AC\_GAG44.GU390507, C.ZW.01.01ZW536173.DQ792997, 01B.TH.02.OUR8401.AY358070,  
B.US.87.BC.L02317, 0708.CN.00.HH086.AP005207, B.US.02.AC\_GAG25.GU390488,  
29\_BF.BR.02.BREPM119.AY771590, C.ZM.02.ZM218F.FJ606277,  
C.ZW.00.00ZW536015.DQ792992, C.ZM.05.ZM1020M.FJ606119, B.US.x.X9539TOB8U.GQ371715,  
C.ZA.04.SK205.HM593213, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3103.EU242160

### Protein sequences (# 886) covered by at least 60%

B.US.x.HCPI\_20\_01.GU367428, BC.CN.01.DH017.AB078714, B.CN.05.05CNHB\_qc391.EF394234,  
B.KR.01.01PSJ10\_2356.EF370322, C.ZA.03.03ZAPS128MB1.DQ275643,  
B.US.x.T7528TOB8U.GQ371637, C.ZA.98.TV008B.AF391261, B.US.x.B1539TOB8U.GQ371244,  
B.AU.96.MBCC98.AF042104, C.ZA.99.1029M.AY838570, B.US.x.P3570TOB8U.GQ371532,  
C.ZA.03.03ZAPS097MB1.DQ351230, C.ZA.01.2651M.AY838618, C.ZM.03.ZM259F.FJ606328,  
B.KR.04.04KKT7\_2354.EF370326, C.ZA.98.TV004B.AF391256, B.AR.04.04AR151516.DQ383752,  
B.DE.04.AC\_GAG44.GU390507, C.ZW.01.01ZW536173.DQ792997, 01B.TH.02.OUR8401.AY358070,  
B.US.87.BC.L02317, 0708.CN.00.HH086.AP005207, B.US.02.AC\_GAG25.GU390488,  
29\_BF.BR.02.BREPM119.AY771590, C.ZM.02.ZM218F.FJ606277,  
C.ZW.00.00ZW536015.DQ792992, C.ZM.05.ZM1020M.FJ606119, B.US.x.X9539TOB8U.GQ371715,  
C.ZA.04.SK205.HM593213, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3103.EU242160,  
B.ES.09.X2689\_2.GU362885, D.KE.89.clone\_1093.GQ430957, C.ES.08.X2363\_2.EU786681,  
B.JP.04.04JPDR6075B.AB221126, C.CN.04.04CNLN71.EF122539,  
C.IL.00.00ET669\_154\_114.AY255817, 01\_AE.CN.02.02CNLN36.EF122521,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3174.EU242231, 01\_AE.TH.02.C037F2P2118.GU458718,  
B.US.07.CR0214.FJ469707, U.GM.x.GMB22.AJ276698, C.ZA.03.03ZAPS108MB1.DQ396378,  
C.ZA.98.TV018.AF391268, C.ZA.02.02ZAPS006MB1.DQ351220, BC.CN.01.DH020.AB078716,  
B.US.x.PARC\_CP040GAG.EU864081, B.DE.04.AC\_GAG5.GU390468,  
C.MM.99.mIDU101\_3.AB097871, C.ZA.03.03ZASK084B1.AY901981,  
C.IN.00.NARI\_GAG\_2.AY484420, C.ZA.04.04ZASK154B1.AY878071, C.ZA.05.SK290.HM593293,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2895.EU241952, C.ZA.00.00ZA615044.DQ793019,  
C.ZA.04.04ZAPS214B1.DQ093588, B.US.x.SH8241.FJ469771, C.BR.04.04BR073.AY727525,



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PepMix™ HIV (GAG) Ultra

B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3422.EU242479, C.ZA.03.03ZAPS051MB1.DQ396385,  
C.ZA.00.1225MB.AY463227, C.ZA.01.01ZA616042.DQ793039, C.MW.00.00MW525034.DQ792983,  
A1A2CD.KE.06.06KECst\_008.FJ623493, C.ZA.03.03ZAPS048MB1.DQ396364,  
BF.AR.99.A027.AF332867, 01\_AE.TH.01.C077F1P975.GU458572, A1D.KE.99.KISII5003.AF457059,  
B.GE.03.03GEMZ010.DQ207942, B.CN.05.05CNHB\_cd161.DQ833405,  
B.CN.01.01CNLN21.EF122514, B.US.x.R5520TOB8U.GQ371583, B.US.x.F8505TOB8U.GQ371331,  
01\_AE.TH.02.C096M1P1496.GU458621, 01\_AE.TH.00.C012F1P169.GU458448,  
01B.TH.99.OUR2574.DQ354123, C.ZA.06.SK436.HM593445, 01\_AE.CN.04.04CNLN77.EF122542,  
C.TZ.03.H142.FJ853528, C.ZA.05.05ZASK244B1.DQ369992, CD.TZ.97.97TZ07.AF361877,  
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C.ZA.04.04ZAPS202B1.DQ093598, C.ZA.04.04ZASK160B1.DQ011173,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2986.EU242043, B.US.02.F797.FJ469737,  
C.ZM.06.ZM1493F.FJ606199, C.ZA.05.CAP257\_7w\_F1.GQ999990,  
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B.US.06.27.HM116828, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3212.EU242269,  
05\_DF.BE.x.VI1310.AF193253, C.ZA.98.TV013B.AF391266, BF1.BR.99.BREPM108.AY771589,  
12\_BF.AR.97.A32989.AF408630, C.ZA.03.03ZASK103B1.DQ164106,  
BC.BR.01.01\_BR\_RGS69.GQ365652, C.ZA.04.04ZAPS172MB1.DQ275659,  
B.CY.05.CY082.FJ388962, G.NG.01.01NGPL0669.DQ168576, G.NG.01.01NGPL0674.DQ168575,  
B.FR.92.92FR\_BX08.AY713411, A.CD.x.VI57.L11794, B.US.x.WT3\_PDC1.AY206658,  
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B.US.x.X4525TOB8U.GQ371700, C.ZA.04.04ZASK165B1.DQ396387,  
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C.ZM.05.ZM283F.FJ606359, 01\_AE.TH.01.C071F1P836.GU458559, C.ZA.00.1231M.AY838595,  
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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2886.EU241943, C.ZA.04.04ZASK185B1.DQ011174,  
C.ZA.03.03ZASK226B1.DQ164108, 47\_BF.ES.08.X2457\_2.FJ670529, B.CY.05.CY035.FJ388958,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3185.EU242242, D.UG.99.99UGB32394.AF484483,  
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C.ZA.02.02ZAPS015MB1.DQ369995, 01\_AE.TH.03.C092F2P3307.GU458773,  
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B.US.x.T6505TOB8U.GQ371634, C.ZM.03.ZM257F.FJ606324,  
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C.ZA.03.SK68.HM593483, C.ZM.05.ZM475M.FJ606407, B.US.x.N5523TOB8U.GQ371486,  
B.US.05.AC\_GAG63.GU390526, C.ZA.03.03ZASK020B2.AY878064,  
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B.US.01.L805.FJ469738, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2948.EU242005,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2916.EU241973, C.ZA.00.1134MB.AY463217,  
01B.TH.02.OUR847I.AY358069, 01\_AE.TH.x.NP03.AB485654, B.BR.02.02BR002.DQ358805,  
B.US.x.V2.DQ097750, B.US.01.AC\_92.FJ667214, C.IN.x.VB39.EF694033,  
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C.ZA.04.SK22.HM593228, B.US.05.CR0307R.FJ469717, 01\_AE.TH.01.C056F1P644.GU458529,  
33\_01B.MY.05.05MYKL007\_1.DQ366659, C.ZA.01.01ZA616499.DQ793045,



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PepMix™ HIV (GAG) Ultra

C.ZA.04.SK158.HM593166, C.BW.96.96BWMO1\_5.AF443074, A1D.KE.99.KNH1298.DQ367291, A1C.TZ.03.H580.FJ853585, A1C.KE.96.clone\_2381.GQ432245, B.CN.99.plwj.GU177863, C.ZA.00.1119MB.AY463229, 02\_AG.SN.98.98SE\_MP1213.AJ251057, BF.BR.03.BREPM1029.EF637052, C.ZA.02.2732M.AY838623, B.JP.x.JRC03B.AB565496, C.ZA.03.03ZAPS123MB1.DQ396369, C.ZA.03.SK043B1.AY772700, 01\_AE.VN.97.97VNHCM319.FJ185242, C.ZA.04.04ZAPS189B1.DQ164117, C.ZA.03.03ZAPS103MB2.DQ275656, F1.BR.93.93BR020\_1.AF005494, C.ZA.03.03ZASK092B1.AY878057, B.US.x.N0537TOB8U.GQ371475, C.IL.99.99ET7.AY255824, A1CD.SE.95.SE8603.AF075702, B.US.x.BEC62.EU517784, C.DK.01.CTL\_015.EF514713, B.AR.05.2005\_11.FJ155200, A1D.UG.99.99UGK38855.AF484520, C.ZA.03.03ZAPS046MB1.DQ369984, C.ZA.04.04ZASK161B1.DQ011170, BC.CN.07.07JSNJ004.FJ036966, 01B.TH.x.TH9\_95.AF490974, C.ZA.00.1214MB.AY463236, 01\_AE.CF.90.90CF4071.AF197341, C.ZM.01.01ZM541049.DQ792999, B.US.x.BEC46.EU517776, B.AU.98.AU02.FJ667233, B.DE.04.AC\_GAG6.GU390469, C.ZA.03.03ZASK213B1.DQ093607, 33\_01B.MY.03.03MYKL011\_1.EU785949, B.CN.01.CNHN24.AY180905, C.TZ.03.H477.FJ853567, C.ZW.00.00ZW536031.DQ792993, B.JP.x.PATIENT\_IMS4.AB074058, C.ZA.00.1176MB.AY463218, C.ZM.00.ZM132F.FJ606180, B.US.x.Y2521TOB8U.GQ371723, B.CY.05.CY036.FJ388959, B.US.x.N5506TOB8U.GQ371485, 01\_AE.TH.02.C103F1P1608.GU458637, C.ZA.00.1148M.AY838582, B.AR.01.2001\_32.FJ155147, B.US.x.X7577TOB8U.GQ371712, BC.CN.07.07JSNJ008.FJ036960, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2985.EU242042, B.US.x.CR0413T.FJ469726, B.US.x.M0513TOB8U.GQ371450, B.ES.08.ES.GQ372990, BF1.BR.93.93BR029\_4.AF005495, G.CU.99.Cu87.AY586549, 01B.TH.01.OUR033I.AY358071, B.US.x.H5519TOB8U.GQ371370, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3002.EU242059, A1.KE.94.clone\_904.GQ430768, B.US.00.1.HM116810, 01\_AE.TH.01.OUR830I.AY358064, B.US.x.J4531TOB8U.GQ371391, B.US.x.Progressor\_6.EU807833, C.ZA.04.CAP30\_5w\_F4.GQ999973, B.CN.00.00CNLN10.EF122510, B.CN.02.02CNLN30.EF122519, C.ZM.05.ZM485M.FJ606409, C.ZA.05.CAP244\_8w\_F1.GQ999986, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3243.EU242300, B.DK.01.CTL\_030.EF514708, C.ZM.03.ZM258F.FJ606326, B.US.x.BEC85.EU517797, C.ZM.02.ZM206F.FJ606265, C.ZA.04.04ZAPS216B1.DQ093600, B.US.x.R8599TOB8U.GQ371588, B.JM.07.06054C1{4\_4\_07}RNA\_GAG\_3.FJ211777, B.US.x.B3577TOB8U.GQ371249, C.TZ.01.A125.AY253304, B.US.x.W4519TOB8U.GQ371675, B.US.x.PARC\_CP037GAG.EU864078, B.US.05.CR0312W.FJ469718, 12\_BF.AR.99.ARMA159.AF385936, B.US.03.AC\_GAG35.GU390498, BF1.AR.03.2003\_01.FJ155170, B.US.94.5082\_94.AY835773, B.US.x.O9574TOB8U.GQ371523, D.UG.93.93UG\_065.AY713418, C.TZ.03.6980.GQ463701, B.CO.01.PCM074.AY561240, D.UG.03.03\_8500MM.AY803368, B.CY.05.CY018.FJ388890, 01B.TH.96.M043.DQ354113, B.US.05.04013396\_0\_file6.FJ496081, C.ZA.03.03ZASK078B1.AY901971, 01\_AE.TH.01.C055M1P622.GU458527, B.US.x.FW048.EF090289, B.US.x.K8514TOB8U.GQ371422, B.US.x.G8521TOB8U.GQ371354, 01\_AE.TH.00.C020F1P223.GU458462, C.BW.98.98BWMC134.AF443077, BF1.AR.04.2004\_07.FJ155183, 01\_AE.TH.01.C003F1P865.GU458563, C.ZM.00.ZM45F.FJ606401, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2887.EU241944, 01\_AE.TH.98.98TH\_R1166.AY945728, BF.BR.94.94BR\_RJ\_97.AY455779, A1CG.KE.02.ML1979PCR.EU110096, A1D.UG.99.99UGE22831.AF484488, C.ZA.05.SK272.HM593276, B.US.03.AT01480.FJ469686, B.DE.05.B\_07.FJ667242, B.DK.04.PMVL\_039.EF514703, C.MW.00.00MW525160.DQ792985, 01\_AE.TH.02.C104F1P1622.GU458639, C.ZM.03.ZM213F.FJ606273, BF.BR.94.94UFRJ\_58.AY455785, A1C.KE.90.clone\_1061.GQ430925, C.ZA.04.04ZASK181B1.AY878062, 01\_AE.TH.06.AE\_Gag62.EU787516, C.ZA.00.1138M.AY838579, B.DK.04.PMVL\_049.EF514701, C.ZA.03.SK112B1.AY772695, B.US.03.AC140.FJ667218, B.US.03.NY05.FJ667255, C.ZM.02.ZM231F.FJ606297, C.ZM.03.ZM242F.FJ606312, 01B.TH.00.00TH\_C2254\_BE.AY945733, 01\_AE.TH.91.TN240.L11761, C.ZA.04.04ZASK132B1.DQ093594, A1C.TZ.03.H123.FJ853527, 01\_AE.TH.99.OUR164I.AY358045, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2903.EU241960, C.UG.90.UG268.L11799, C.ZA.01.01ZATM45.AY228557, C.CY.06.CY175.EU673443, BC.IN.02.INDNARI\_0218440.EU000514, B.US.x.E9516TOB8U.GQ371309, BG.ES.04.X1118\_4.FJ670517, B.US.x.3\_13.U29403, B.US.x.V7514TOB8U.GQ371658, 26\_AU.CD.97.97CD\_KTB119.FM877777, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3322.EU242379, B.CA.02.MN10.FJ667248,



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PepMix™ HIV (GAG) Ultra

B.HK.06.HK002.FJ460499, 01\_AE.TH.01.C089F1P1362.GU458604,  
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C.BW.00.00BW20636.AF443103, BF1.BR.99.BREPM107.AY771588,  
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B.US.x.G7543TOB8U.GQ371352, C.ET.88.AS88651GP.AY242592,  
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BF.UY.01.01UYTRA1020.AY781128, C.ZA.01.01ZA615358.DQ793032,  
B.CN.04.04CNLN73.EF122557, C.ZM.00.ZM1\_25F.FJ606114, B.AR.99.1999\_14.FJ155131,  
C.ZA.04.04ZASK127B1.DQ011172, B.US.x.R3\_PDC1.AY206652,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3118.EU242175, C.ZA.03.SK88.HM593500,  
B.US.06.CR0078.FJ469696, B.DK.01.CTL\_041.EF514711, C.BW.00.00BW17593.AF443094,  
C.ZA.04.04ZASK163B1.AY901979, B.US.x.CR0289Z.FJ469715,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3084.EU242141, B.US.90.US3.AY173954,  
G.KE.93.HH8793\_1\_1.AF061640, C.MW.93.93MW\_965.AY713413, C.ZA.03.SK116B1.AY772696,  
B.AU.x.2870718.AY857022, C.ZM.04.ZM198M.FJ606252, A1.KE.99.KNH1241.DQ367274,  
B.US.04.ES10\_53.EF363127, 01\_AE.TH.97.97TH\_NP1695.AY713419,  
C.ZA.03.03ZASK034B1.AY878065, C.ZA.01.01ZA615394.DQ793036,  
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C.IL.00.00ET653\_149\_212.AY304915, C.ZA.03.03ZAPS071MB1.DQ396376,  
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B.DE.x.21.AJ437035, 01\_AE.CN.03.03CNLN59.EF122554, B.US.x.T5538TOB8U.GQ371632,  
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CD.TZ.03.H203.FJ853534, 15\_01B.TH.99.99TH\_R2399.AF530576,  
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C.ZA.02.PS\_009M.AY838630, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3181.EU242238,  
02\_AG.SE.94.SE7812.AF107770, C.ZA.04.04ZASK131B1.DQ056412, C.ZA.06.SK388.HM593394,  
02\_AG.CM.02.02CM\_0013BBY.AY371125, C.ZM.88.ZAM20.L03707, BF1.ES.08.ES.GQ372989,  
B.US.x.N2501TOB8U.GQ371480, C.ZA.05.CAP206\_8w\_F1.GQ999982,  
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C.ZM.05.ZM499M.FJ606415, B.US.86.5084\_86.AY835775, A1C.KE.96.clone\_256.GQ430120,  
C.TZ.01.BD39\_8.AY253313, B.CN.05.05CNHB\_dy217.DQ833427,  
D.UG.99.99UGK09259.AF484498, 02G.GH.94.94GH09.AF212289, B.CY.05.CY132.FJ388936,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3285.EU242342, C.TZ.03.H391.FJ853557,



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B.US.x.E4528TOB8U.GQ371297, A1.KE.95.clone\_936.GQ430800,  
06\_cpx.ES.07.07SP47\_353742.EU342809, C.ZM.03.ZM227F.FJ606289, B.JP.x.DR1712.AB604946,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3149.EU242206, 01\_AE.CN.05.05GX001.GU564221,  
C.ZA.03.03ZAPS034MB1.DQ369979, 38\_BF1.UY.05.UY05\_4752.FJ213780,  
C.TZ.03.H402.FJ853559, AC.ZA.04.04ZAPS204B1.DQ093606, C.ZM.03.ZM247F\_fIA1.FJ496195,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2913.EU241970, C.ZM.05.ZM331F.FJ606372,  
B.CN.05.05CNHB\_qc394.EF394235, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3275.EU242332,  
F2.CM.x.CA16.AF247520, C.ZA.03.03ZAPS023MB1.DQ351225, BF.AR.99.ARMA029.AY037283,  
B.US.x.P6501TOB8U.GQ371538, C.ZA.03.03ZASK097B1.AY878060,  
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AG.GH.97.97GH19.AF212290, 02\_AG.IT.00.IT067.DQ445118,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3284.EU242341,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3306.EU242363, B.US.x.B1501TOB8U.GQ371242,  
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PepMix™ HIV (GAG) Ultra

B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3083.EU242140,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2995.EU242052, 01B.MY.06.06MMYKLD46.EF495062,  
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**Protein sequences (# 715) covered by at least 55%**

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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2950.EU242007, C.ZA.04.SK196.HM593203,



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B.US.x.O1529TOB8U.GQ371502, D.UG.99.99UGD23550.AF484485,  
B.US.x.Z4524TOB8U.GQ371751, A1DHK.NO.97.97NOGIL3.AJ237565,  
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C.ZA.04.04ZASK169B1.DQ396381, 01\_AE.VN.97.97VNHCM303.FJ185239,  
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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3256.EU242313, B.US.x.F703.DQ886031,  
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01\_AE.TH.06.AE\_Gag5.EU787509, C.ZA.03.04ZASK082B1.AY901972, A2.ZM.06.32G.GU332524,



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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3089.EU242146, 01\_AE.TH.01.C065F1P807.GU458548, A.CD.97.97CD\_KTB13.AM000054, B.RU.04.04RU128005.AY682547, F1.AR.02.ARE933.DQ189088, B.US.x.F1540TOB8U.GQ371315, F1.ES.x.X1093\_2.DQ979025, BF1.AR.98.1998\_33.FJ155121, D.UG.99.99UGA03349.AF484518, D.UG.03.03\_9098BF.AY803372, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2966.EU242023, C.ZM.04.ZM254F.FJ606322, 01\_AE.TH.01.C063F1P791.GU458543, D.UG.03.03\_9140KM.AY803373, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3253.EU242310, A1.KE.92.clone\_429.GQ430293, 28\_BF.BR.99.BREPM12817.DQ085874, C.TZ.03.H022.FJ853507, A1D.UG.99.99UGJ21953.AF484496, C.ZA.05.SK343.HM593348, A1.KE.99.KNH1297.DQ367290, C.ZA.05.SK329.HM593333, 02\_AG.CM.02.02CM\_0015BBY.AY371127, 31\_BC.BR.04.04BR137.AY727526, 01\_AE.TH.02.C097F1P1509.GU458624, C.ZM.03.ZM244F.FJ606316, A1D.TZ.97.TZBFL0086.AF442566, 02\_AG.GW.05.CC.FJ694792, 02\_AG.US.06.BEC146.EU873002, G.CN.02.02CNLN35.EF122523, B.US.x.B5599TOB8U.GQ371254, B.US.x.Y4542TOB8U.GQ371731

### Protein sequences (# 505) covered by at least 50%

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A1D.AF.06.051H.GQ477444, ACD.TZ.01.HS123.AY945709, C.ZA.03.SK46.HM593463,  
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B.US.x.O5858TOB8U.GQ371512, C.BR.04.04BR038.AY727524, C.ZA.00.1204M.AY838591,  
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B.AR.00.2000\_03.FJ155136, B.US.x.B8526TOB8U.GQ371262, A1.KE.99.KNH1242.DQ367275, C.ZA.05.SK214.HM593222, B.US.x.J7511TOB8U.GQ371397, 0206.GH.03.03GH195AG\_06.AB286853, 11A1.UG.02.TC026204.AY803407, 09\_cpx.SN.95.95SN7808.AY093604, C.BR.04.04BR013.AY727522, 14\_BG.ES.00.X623.AF450097, B.US.x.E1548TOB8U.GQ371291, 01\_AE.CN.02.02CNLN27.EF122518, 35\_AD.AF.07.273H.GQ477448, 43\_02G.SA.03.J11223.EU697904, J.SE.94.SE9173\_7022.AF082395, A1.RU.00.RU00051.EF545108, B.US.x.W0546TOB8U.GQ371668, U.ZM.03.ZM248F.FJ606318, A1.UG.02.TC025104.AY803402, B.DE.x.23.AJ437041, C.ZM.05.ZM1196F.FJ606160, C.ZA.03.SK106.HM593113, 02\_AG.EC.x.ECU42.AY151002, G.ES.09.X2634\_2.GU362882, B.AU.04.MS2004\_37\_036.EF178334, A1.TZ.03.H594.FJ853589, B.US.x.N7525TOB8U.GQ371491, C.ZM.06.ZM1590M.FJ606210, 35\_AD.AF.07.169H.GQ477446, A1.KE.02.ML1990PCR.EU110097, B.US.x.L2529TOB8U.GQ371432, C.BR.04.04BR021.AY727523, A1.KE.98.clone\_2547.GQ432411, A1.RW.92.92RW025A.AB287377, 02\_AG.GH.94.94GH10.AF212280, A1D.UG.99.99UGC06443.AF484479, BF1.AR.96.1996\_27.FJ155110, A.KE.97.M141gag.AY772955, B.CY.06.CY180.FJ388955, 02A.GH.97.G829.AF184155, 37\_cpx.CM.97.CM53392.AF377957, B.US.x.PARC\_CP012GAG.EU864053, B.US.x.L0505TOB8U.GQ371427, 01\_AE.VN.97.97VNHCM309.FJ185260, 01\_AE.TH.01.C079M1P1012.GU458576, AG.GH.97.97GH22.AF212291, C.ZA.05.SK256.HM593260, C.ZA.04.SK129.HM593136, BF.BR.99.99UFRJ\_9.AY455783, C.ZA.03.SK18.HM593187, 45\_cpx.CD.97.97CD\_MBFE185.FN392874, B.CY.05.CY068.FJ388912, A1.KE.98.clone\_2316.GQ432180, F2.CM.x.CA20.AF247521, 02\_AG.CM.02.02CM\_1669LE.AY371139, C.ZA.06.SK422.HM593431, A1.GA.x.LBV23.L11777, A1.UG.x.UG275.AB485632, 45\_cpx.CD.97.97CD\_MBS30.FN392875, A1.KE.98.clone\_2883.GQ432747, B.AR.88.1988\_09.FJ155079, B.CY.05.CY065.FJ388910, A1.KE.95.clone\_1980.GQ431844, A1.KE.95.clone\_1.GQ429817, B.US.x.O0518TOB8U.GQ371498, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2927.EU241984, 01AF2U.CM.01.01CM\_0130NY.AY371167, A1.UG.03.03\_9383NH.AY803383, 02G.CM.02.02CM\_3228MN.AY371147, C.ZM.03.ZM205M.FJ606264, B.US.x.R0521TOB8U.GQ371570, 01\_AE.TH.01.C066F1P809.GU458550, C.ZA.04.SK216.HM593224, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2991.EU242048, B.CY.05.CY093.FJ388923, B.US.x.R6526TOB8U.GQ371585, C.ZM.02.ZM229F.FJ606293, B.US.x.W0533TOB8U.GQ371667, 02\_AG.CM.97.97CM21.AF212288, A1.KE.06.06KECst\_025.FJ623486, 02\_AG.CM.01.01CM\_0074NY.AY371131, BF1.AR.00.2000\_12.FJ155143, B.US.x.Z4573TOB8U.GQ371753, B.US.x.PARC\_CP002GAG.EU864043, 0209.CI.97.97IC\_PCI3.AJ866555, 06\_cpx.AU.96.BFP90.AF064699, B.AU.96.MBCD36.AF042105, A1.KE.00.MSA4070.AF457081, B.US.x.BEC5.EU517762, 01\_AE.TH.00.OUR810I.AY358063, B.AU.04.MS2004\_37\_016.EF178314, B.US.x.X2519TOB8U.GQ371697, 02A1.ES.07.ES.GQ372986, 02\_AG.GH.03.03GH181AG.AB286856, C.MW.00.00MW525042.DQ792984, A1C.TZ.03.H247.FJ853543, A1C.ZA.08.BBCR06.GU201611, C.TZ.03.H324.FJ853553, A1C.TZ.03.H274.FJ853547, A1.KE.01.clone\_2639.GQ432503, BF1.AR.00.2000\_05.FJ155138, BF1.AR.00.2000\_10.FJ155141, D.UG.03.03\_9413NA.AY803387, A1C.KE.99.KNH1314.DQ367293, 38\_BF1.UY.03.UY03\_3389.FJ213783, C.ZA.05.SK302.HM593306, B.US.x.Q3540TOB8U.GQ371556, 01B.TH.x.CU98\_26.EF192591, C.ZM.00.ZM80F.FJ606438, B.CY.05.CY055.FJ388904, C.ZM.05.ZM1175M.FJ606153, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3139.EU242196, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3266.EU242323, 33\_01B.MY.04.04MYKL005\_1.EU785946, B.CY.05.CY142.FJ388965, A.KE.97.M21\_ps2.AY772969, A1.TZ.03.H218.FJ853538, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3423.EU242480, A1.KE.01.clone\_220.GQ430084, 02B.ES.99.99SP\_11339.DQ926899, C.ZA.05.SK282.HM593285, A1.KE.88.clone\_2286.GQ432150, C.ZM.03.ZM241F.FJ606311, 10\_CD.TZ.96.96TZ\_BF061.AF289548, A1D.GB.x.12\_2.EU927369, B.ES.06.X1959.EU786675, C.ZA.04.SK230.HM593237, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2925.EU241982, B.US.x.O9503TOB8U.GQ371520, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3019.EU242076, C.ZA.06.SK442.HM593452, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3439.EU242496, C.ZA.05.SK306.HM593310, B.US.x.F8576TOB8U.GQ371333, A1.KE.87.clone\_2437.GQ432301, 14\_BG.ES.05.X1870.FJ670522, A1.KE.99.clone\_2609.GQ432473, C.ZA.99.1081M.AY838638, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3304.EU242361, B.US.x.BEC110.EU517805,



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B.US.x.MDR3.AY206649, B.US.x.BEC79.EU517795, C.ZA.06.SK405.HM593412,  
A1.UG.99.99UGA07072.AF484478, A1.KE.99.KNH1263.DQ367281,  
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### Protein sequences (# 327) covered by at least 45%

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A1.UG.02.TC026104.AY803406, 43\_02G.SA.03.J11456.EU697909,  
A1.KE.06.06KECst\_013.FJ623485, 15\_01B.TH.99.99TH\_MU2079.AF516184,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3033.EU242090, 45\_cpx.CM.97.97CM\_MP814.FN392876,  
B.US.x.PARC\_CP028GAG.EU864069, C.ZM.04.ZM195M.FJ606248,  
49\_cpx.GM.02.N18380.HQ385477, BF1.AR.02.2002\_28.FJ155167, C.ZA.06.SK398.HM593403,  
B.US.x.B6533TOB8U.GQ371257, C.ZA.05.SK355.HM593361, C.ZA.06.SK403.HM593410,  
A1.KE.98.clone\_1561.GQ431425, A1.KE.99.KNH1272.DQ367282, C.ZA.05.SK334.HM593339,  
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A1.KE.06.06KECst\_009.FJ623480, B.US.x.R3519TOB8U.GQ371578, B.US.00.2.HM116811,  
B.US.x.E7570TOB8U.GQ371308, C.ZM.06.ZM1599M.FJ606213, A1.KE.99.KNH1029.DQ367264,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3122.EU242179, A1.KE.99.KNH1237.DQ367272,  
C.ZA.05.SK266.HM593270, DG.KE.06.06KECst\_014.FJ623495, C.ZA.04.SK199.HM593206,  
A1.SE.95.SE8538.AF069669, A1.TZ.01.A173.AY253305, C.ZA.06.SK428.HM593437,  
A1.KE.99.KNH1018.DQ367262, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2900.EU241957,  
26\_AU.CD.02.02CD\_LBTB084.FM877781, C.ZA.06.SK377.HM593383,  
B.US.x.Y2579TOB8U.GQ371725, C.ZA.03.SK60.HM593475, B.US.x.J0524TOB8U.GQ371381,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3238.EU242295,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3141.EU242198, 02U.CY.06.CY158.FJ388944,  
C.ZM.06.ZM1672F.FJ606216, 24\_BG.ES.08.X2456\_2.FJ670526, 44\_BF.CL.01.CH12.AY536235,  
F1.BR.02.02BR082.FJ771006, A1D.KE.96.clone\_1366.GQ431230, B.US.x.L0527TOB8U.GQ371428,  
C.ZM.03.ZM272F.FJ606346, G.GH.03.03GH175G.AB287004, B.US.06.050110\_v2.HM208363,  
C.ZM.05.ZM330F.FJ606371, C.ZM.06.ZM1169M.FJ606151,



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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3226.EU242283, A1.UG.03.03\_9456KM.AY803389,  
C.ZM.06.ZM1689M.FJ606218, C.ZA.03.SK80.HM593494, B.US.x.K7527TOB8U.GQ371420,  
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02\_AG.ES.07.07SP57\_372125.EU342813, A1.AU.04.PS1044\_Day177.DQ676873,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2902.EU241959, 02A1U.CM.02.02CM\_2339SA.AY371143,  
02\_AG.CM.01.01CM\_0131NY.AY371137, C.ZA.03.SK21.HM593218, C.ZA.03.SK85.HM593498,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2915.EU241972, A1.KE.95.clone\_750.GQ430614,  
B.US.x.B7532TOB8U.GQ371260, B.US.06.25.HM116826,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3427.EU242484, A1.UG.03.03\_3996NM.AY803360,  
A1.UG.02.TC024604.AY803401, C.ZM.05.ZM503M.FJ606416, A1.TZ.03.H515.FJ853571,  
B.US.x.N4510TOB8U.GQ371483, A1.KE.99.KNH1246.DQ367277, B.US.x.R9535TOB8U.GQ371591,  
C.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3358.EU242415, 02\_AG.US.99.99US\_MSC1134.AY444809,  
B.US.x.PARC\_CP020GAG.EU864061, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3187.EU242244,  
A1.KE.99.KNH1256.DQ367280, BF1.IT.01.50612.GU595162, A1.UG.03.03\_8003KN.AY803366,  
C.ZM.05.ZM1211M.FJ606165, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3150.EU242207,  
A1.UG.85.U455.M62320, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3036.EU242093,  
B.US.x.Q8530TOB8U.GQ371565, C.ZM.04.ZM177M.FJ606226, BF1.AR.99.1999\_11.FJ155130,  
C.ZA.04.SK30.HM593303, C.ZM.06.ZM1489M.FJ606196, B.US.x.O0542TOB8U.GQ371500,  
B.US.x.W9500TOB8U.GQ371688, C.TZ.03.H445.FJ853563, A1.KE.95.clone\_2044.GQ431908,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2926.EU241983, B.US.x.D5513TOB8U.GQ371277,  
B.US.x.R5572TOB8U.GQ371584, 01\_AE.TH.94.94TH702.AF170545,  
B.US.x.Q7544TOB8U.GQ371563, C.ZA.06.SK395.HM593401, 09\_cpx.GH.96.96GH2911.AY093605,  
A.KE.99.M439gag.AY772985, B.US.x.R1578TOB8U.GQ371574,  
C.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3312.EU242369, A1.CY.05.CY012.EU673418,  
A1.CY.05.CY106.FJ388925, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3044.EU242101,  
G.RU.06.Pat14.GU991875, C.ZA.06.SK443.HM593453,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2984.EU242041, C.ZA.06.SK386.HM593392,  
B.US.x.BEC33.EU517772, 02\_AG.ES.06.P1261.EU786671, A1C.KE.06.06KECst\_004.FJ623489,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3004.EU242061, B.US.x.F1512TOB8U.GQ371313,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3378.EU242435, C.ZM.05.ZM299F.FJ606369,  
A1.KE.00.NKU3005.AF457089, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3442.EU242499,  
B.AU.04.MS2004\_37\_091.EF178389, 02D.GH.03.GHNJ193.AB231897,  
A1.KE.99.KNH1118.DQ367265, B.US.x.Z2527TOB8U.GQ371744, C.ZA.05.SK291.HM593294,  
11\_cpx.CM.95.95CM\_1816.AF492624, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3300.EU242357,  
C.ZM.02.ZM196M.FJ606250, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3192.EU242249,  
C.ZA.06.SK387.HM593393, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3058.EU242115,  
C.ZM.06.ZM1085M.FJ606130, C.ZM.05.ZM1171M.FJ606152,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3097.EU242154, D.UG.03.03\_9080KK.AY803371,  
B.US.x.L9528TOB8U.GQ371449, 02C.BE.93.VI1035.AJ276595, A1.TZ.03.H284.FJ853550,  
C.ZA.06.SK409.HM593416, B.US.x.K5537TOB8U.GQ371414, A1.CY.05.CY064.FJ388909,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3080.EU242137,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3397.EU242454, A1C.UG.99.99UGK30889.AF484501,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3349.EU242406, B.US.88.WR27.U26546,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3408.EU242465, C.ZA.05.SK336.HM593341,  
A1.KE.99.KNH1247.DQ367278, 11\_cpx.CM.96.96CM\_4496.AF492623, C.ZA.05.SK318.HM593322,  
01\_AE.TH.01.C044M1P492.GU458507, B.US.x.D6531TOB8U.GQ371279,  
G.RU.04.Pat11.GU991872, A1C.TZ.03.H201.FJ853533, C.ZA.03.SK9.HM593501,  
A1.TZ.03.H564.FJ853577, B.KR.05.05LHO6\_2254.EF370354,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3361.EU242418, A1.UG.03.03\_9073NR.AY803370,  
A1.CY.05.CY153.FJ388942, C.TZ.03.H325.FJ853554, C.ZA.05.SK289.HM593291,  
B.US.x.A8536TOB8U.GQ371237, C.ZM.05.ZM806F.FJ606437, A1C.TZ.03.H456.FJ853565,  
B.US.x.O3525TOB8U.GQ371506, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3396.EU242453,  
02\_AG.GW.04.CC.FJ694791, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3276.EU242333,  
B.CY.05.CY110.FJ388927, C.ZM.06.ZM1586M.FJ606209, C.ZA.05.SK294.HM593297,  
C.ZM.04.ZM260F.FJ606330, F1.AO.06.AO\_06\_ANG40.FJ900267, C.ZM.05.ZM1167F.FJ606150,  
A1.UG.03.03\_9366WG.AY803382, C.ZM.05.ZM351F.FJ606376,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2987.EU242044, F1.RU.08.D88\_845.GQ290462,



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F1.AR.98.1998\_34.FJ155122, B.US.x.X9542TOB8U.GQ371716, B.US.x.Y5575TOB8U.GQ371733, B.US.x.L2502TOB8U.GQ371431, G.RU.06.Pat09.GU991870, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3297.EU242354, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3402.EU242459, B.US.x.F2528TOB8U.GQ371316, A1.KE.99.clone\_999.GQ430863, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3099.EU242156, 04\_cpx.GR.97.GR84\_97PVMY.AF119819, C.ZA.05.SK261.HM593266, H.GB.00.00GBAC4001.FJ711703, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3252.EU242309, C.TZ.03.H009.FJ853502, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3184.EU242241, C.IN.99.10000.AF533139, A1D.KE.99.KNH1243.DQ367276, A1.UG.x.UG031.AB098331, 01A1.CY.06.CY178.FJ388953, A1.CY.04.CY008.EU673415, B.US.x.T6576TOB8U.GQ371636, A1.TZ.03.H217.FJ853537, F1.AR.97.1997\_31.FJ155116, C.ZA.04.SK153.HM593162, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3075.EU242132, B.US.x.P6539TOB8U.GQ371540, C.ZA.05.SK310.HM593315, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3326.EU242383, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3059.EU242116, B.US.x.V4516TOB8U.GQ371653, C.ZM.04.ZM270F.FJ606342, B.US.x.L0576TOB8U.GQ371429, AGU.CM.01.01CM\_0989MO.AY371166, BF1.AR.95.1995\_30.FJ155106, C.ZA.06.SK390.HM593396, D.UG.99.99UGB21875.AF484480, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2896.EU241953, C.ZA.06.SK444.HM593454, C.ZA.05.SK248.HM593253, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2962.EU242019, A1.KE.06.06KECst\_005.FJ623481, C.ZA.04.SK137.HM593145, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3437.EU242494, B.US.x.A3504TOB8U.GQ371223, C.ZA.04.SK186.HM593193, B.US.x.F7509TOB8U.GQ371328, B.US.x.PARC\_CP038GAG.EU864079, C.ZM.05.ZM634M.FJ606427, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3126.EU242183, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3278.EU242335, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3220.EU242277, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3131.EU242188, A.KE.98.M264\_gag.AY772970, 01\_AE.TH.01.C087M1P1318.GU458599, A1.UG.04.04\_0566GT.AY803394, B.US.x.Q2573TOB8U.GQ371554, C.ZA.04.SK54.HM593470, B.KE.95.clone\_1953.GQ431817, BF1.IT.02.58736.GU595160, A1.RW.93.93RW037A.AB287379, B.US.x.BEC48.EU517777, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2934.EU241991, F1.AR.96.1996\_29.FJ155111

**Protein sequences (# 185) covered by at least 40%**

B.AU.04.MS2004\_37\_129.EF178427, C.ZM.05.ZM1039F.FJ606125, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3420.EU242477, 01B.MY.03.03MYKL018\_1.DQ366664, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3176.EU242233, A1.KE.02.ML2014.EU110094, A1.CN.00.00CNLN14.EF122512, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3385.EU242442, C.ZA.06.SK374.HM593381, B.US.x.Y4518TOB8U.GQ371729, C.BW.98.98BWMC122.AF443076, C.ZM.06.ZM1427M.FJ606184, 06A1.BJ.x.B76.AJ293865, C.ZA.06.SK419.HM593427, B.US.x.Y8504TOB8U.GQ371736, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2918.EU241975, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3064.EU242121, C.ZM.05.ZM294F.FJ606365, C.ZM.05.ZM1133M.FJ606141, A1.CY.05.CY121.FJ388932, 06\_cpx.GH.03.03GH173\_06.AB286852, C.ZA.05.SK257.HM593261, C.ZA.04.SK195.HM593202, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3303.EU242360, C.ZA.06.SK410.HM593418, C.ZA.05.SK274.HM593278, C.ZA.05.SK285.HM593288, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3130.EU242187, C.ZA.05.SK313.HM593318, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3218.EU242275, A1.KE.99.KNH1291.DQ367289, A1.KE.95.clone\_2122.GQ431986, 01\_AE.CN.05.Fj057.EF036530, G.RU.04.Pat15.GU991876, B.AR.05.2005\_01.FJ155190, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2973.EU242030, A1.ZA.04.04ZASK162B1.DQ396400, C.ZM.06.ZM1492M.FJ606198, BF1.JP.04.DR6190.AB480300, C.ZM.05.ZM991M.FJ606446, A1.KE.00.KER2012.AF457055, C.ZM.05.ZM1097F.FJ606134, B.US.x.BEC13.EU517764, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3082.EU242139, B.US.x.PARC\_CP032GAG.EU864073, B.US.x.X1503TOB8U.GQ371694, B.CY.05.CY122.FJ403482, F1.AR.05.2005\_08.FJ155197, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3291.EU242348, B.US.03.33.HM116834, C.ZA.05.SK347.HM593352, BF1.AR.96.1996\_37.FJ155113, B.US.00.12.HM116820, B.US.x.O5598TOB8U.GQ371511, C.ZA.05.SK339.HM593344, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2993.EU242050, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3419.EU242476, C.ZA.06.SK383.HM593389,



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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3197.EU242254, AG.NG.01.PL0209P.DQ168574,  
A1.TZ.03.H041.FJ853511, B.US.x.L4548TOB8U.GQ371440, C.ZA.03.SK101.HM593108,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2941.EU241998,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3071.EU242128, B.JP.x.PATIENT\_IMS11.AB074078,  
B.US.x.Z8570TOB8U.GQ371762, C.ZM.05.ZM1076F.FJ606126, B.US.x.J3513TOB8U.GQ371388,  
C.ZA.06.SK373.HM593380, B.CY.05.CY030.FJ388956, G.RU.06.Pat08.GU991869,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3127.EU242184, C.ZM.05.ZM389M.FJ606383,  
22\_01A1.CM.01.01CM\_0001BBY.AY371159, B.US.x.B5531TOB8U.GQ371253,  
B.AU.x.4922142.AY857059, D.ZA.85.R214.AY773339, A1.KE.98.clone\_2792.GQ432656,  
C.ZA.05.SK305.HM593309, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2958.EU242015,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3381.EU242438, C.ZA.06.SK381.HM593387,  
C.ZA.06.SK449.HM593459, A2.KE.99.KNH1234.DQ367261, G.CM.04.515\_28.FJ389365,  
C.ZA.03.SK8.HM593493, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3298.EU242355,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3436.EU242493, B.CY.05.CY020.FJ388891,  
C.ZA.03.SK69.HM593484, 02\_AG.ES.07.07SP54\_371139.EU342811,  
A1.UG.03.03\_9264NJ.AY803380, F1.AR.04.2004\_11.FJ155187,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2888.EU241945,  
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C.ZA.05.SK292.HM593295, G.RU.06.Pat17.GU991878, BF1.IT.02.57954.GU595150,  
G.RU.06.Pat21.GU991882, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2917.EU241974,  
A1.TZ.03.H278.FJ853548, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2945.EU242002,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3233.EU242290, B.US.x.PARC\_CP005GAG.EU864046,  
C.ZA.05.SK276.HM593279, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3254.EU242311,  
B.US.x.T0530TOB8U.GQ371619, C.ZA.04.SK124.HM593131, B.US.x.B7521TOB8U.GQ371259,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3160.EU242217, B.US.x.H1549TOB8U.GQ371361,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3158.EU242215, C.ZA.03.SK64.HM593479,  
B.US.x.D7533TOB8U.GQ371282, B.US.x.G3518TOB8U.GQ371344,  
A1.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2942.EU241999, C.ZA.03.SK87.HM593499,  
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F1.AR.05.2005\_12.FJ155201, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3114.EU242171,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3029.EU242086, C.ZA.06.SK393.HM593399,  
C.ZM.06.ZM1486M.FJ606195, C.ZA.05.SK279.HM593281, A.KE.98.M369gag.AY772971,  
C.ZA.06.SK426.HM593435, C.ZA.06.SK366.HM593372, C.ZA.05.SK356.HM593362,  
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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3030.EU242087, B.US.x.Z2576TOB8U.GQ371745,  
C.ZA.03.SK115.HM593122, C.ZA.06.SK418.HM593426, C.ZA.05.SK352.HM593358,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2981.EU242038, B.US.x.Z4536TOB8U.GQ371752,  
G.CM.04.944\_5.FJ389366, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3003.EU242060,  
B.US.x.A0575TOB8U.GQ371217, C.ZM.05.ZM470M.FJ606405, C.ZM.06.ZM1591F.FJ606211,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3164.EU242221, C.ZA.04.SK231.HM593238,  
C.ZA.05.SK326.HM593330, C.ZA.06.SK17.HM593177, G.RU.04.Pat18.GU991879,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3137.EU242194, C.ZA.05.SK222.HM593231,  
F1.AR.96.1996\_30.FJ155112, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3367.EU242424,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3094.EU242151,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3400.EU242457,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3231.EU242288, C.ZM.05.ZM946M.FJ606444,  
G.RU.06.Pat07.GU991868, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3346.EU242403,  
C.ZM.05.ZM1201F.FJ606161, B.US.x.J6528TOB8U.GQ371396,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3392.EU242449, B.US.x.S6524TOB8U.GQ371608,  
C.ZM.05.ZM1023F.FJ606122, C.ZA.03.SK93.HM593505, C.ZA.04.SK164.HM593171,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3286.EU242343,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3399.EU242456, C.ZM.00.ZM45M.FJ606402,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3148.EU242205, A1.KE.99.KSM4048.DQ367296,  
G.RU.06.Pat19.GU991880, B.US.x.V0570TOB8U.GQ371647,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3050.EU242107,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2899.EU241956, C.ZA.04.SK172.HM593180,



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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3034.EU242091, C.ZM.06.ZM1491M.FJ606197,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3091.EU242148, B.US.x.PARC\_CP007GAG.EU864048

### Protein sequences (# 128) covered by at least 35%

B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2990.EU242047,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3021.EU242078,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3416.EU242473, C.ZA.06.SK382.HM593388,  
B.US.x.BEC111.EU517806, C.ZA.05.SK241.HM593246,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3201.EU242258, 02\_AG.ES.06.06SP27\_339625.EU342803,  
C.ZA.04.SK228.HM593235, G.RU.06.Pat13.GU991874,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3098.EU242155, G.RU.06.Pat20.GU991881,  
C.ZA.03.SK3.HM593302, B.US.x.Y9522TOB8U.GQ371740,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3045.EU242102,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3111.EU242168, C.ZA.04.SK130.HM593138,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3241.EU242298, C.ZM.05.ZM1017F.FJ606118,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3110.EU242167,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3001.EU242058,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3199.EU242256, BF1.AR.04.2004\_05.FJ155181,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3063.EU242120,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3155.EU242212, C.ZM.05.ZM1084M.FJ606129,  
B.US.x.H2578TOB8U.GQ371363, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3042.EU242099,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3124.EU242181, B.US.x.PARC\_CP006GAG.EU864047,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3287.EU242344, B.US.x.PARC\_CP041GAG.EU864082,  
C.ZM.05.ZM1164F.FJ606149, C.ZM.00.ZM107F.FJ606127,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2961.EU242018,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3335.EU242392,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3277.EU242334,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2952.EU242009, C.ZA.03.SK37.HM593376,  
D.KE.92.clone\_1327.GQ431191, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3386.EU242443,  
B.US.x.B9517TOB8U.GQ371264, C.ZA.05.SK331.HM593336,  
01\_AE.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3354.EU242411,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3133.EU242190,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2919.EU241976, B.US.x.PARC\_CP029GAG.EU864070,  
C.ZA.05.SK259.HM593263, A1D.KE.99.KNH1255.DQ367279,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3143.EU242200, C.ZM.00.ZM132M.FJ606181,  
G.RU.03.Pat12.GU991873, C.ZA.05.SK300.HM593304,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3179.EU242236, C.ZA.04.SK218.HM593226,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3195.EU242252, F1.AR.04.2004\_12.FJ155188,  
C.ZA.06.SK439.HM593448, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3341.EU242398,  
38\_BF1.UY.04.UY04\_4022.FJ213782, B.US.x.S1500TOB8U.GQ371596,  
C.ZM.04.ZM254M.FJ606323, 33\_01B.MY.04.04MYKL008\_1.EU785947,  
B.US.x.G0578TOB8U.GQ371337, D.ZA.85.R286.AY773340, C.ZA.04.SK55.HM593471,  
C.ZM.05.ZM408F.FJ606390, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3412.EU242469,  
A1CD.KE.02.ML2000.EU110093, C.ZA.05.SK253.HM593257,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3151.EU242208,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3117.EU242174, C.ZA.03.SK42.HM593428,  
C.ZM.06.ZM1239F.FJ606171, 25\_cpx.SA.03.J11451.EU697908, B.US.x.N1505TOB8U.GQ371477,  
C.ZA.06.SK363.HM593369, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3214.EU242271,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3417.EU242474, C.ZM.05.ZM348M.FJ606374,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3325.EU242382, C.ZA.03.SK91.HM593503,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3440.EU242497, C.ZM.05.ZM420F.FJ606396,  
C.ZA.06.SK425.HM593434, C.ZM.05.ZM786M.FJ606435, C.ZA.04.SK138.HM593146,  
G.RU.06.Pat02.GU991863, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3404.EU242461,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3096.EU242153, B.US.x.BVC\_013.FJ387540,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3357.EU242414, G.RU.06.Pat22.GU991883,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3024.EU242081, C.ZM.05.ZM1221M.FJ606167,  
C.ZA.06.SK448.HM593458, C.ZA.05.SK353.HM593359,



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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3339.EU242396,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3093.EU242150,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3177.EU242234, C.ZA.06.SK441.HM593451,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3289.EU242346,  
A1.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2983.EU242040, A1.KE.95.clone\_619.GQ430483,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3047.EU242104, B.US.x.F9513TOB8U.GQ371334,  
B.US.x.BEC78.EU517794, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3120.EU242177,  
CPZ.CM.05.SIVcpzMB66.DQ373063, C.ZM.99.ZM143M.FJ606185, A1.UG.03.03\_9256NI.AY803377,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3384.EU242441, C.ZA.05.SK270.HM593274,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3356.EU242413, B.US.x.PARC\_CP026GAG.EU864067,  
B.US.x.E6537TOB8U.GQ371303, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2992.EU242049,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3309.EU242366, G.RU.06.Pat04.GU991865,  
C.ZA.05.SK267.HM593271, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3279.EU242336,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3393.EU242450,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3112.EU242169,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3031.EU242088, C.ZA.06.SK401.HM593408,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3340.EU242397, C.ZM.05.ZM1183M.FJ606156,  
B.US.x.PARC\_CP017GAG.EU864058

**Protein sequences (# 104) covered by at least 30%**

B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3020.EU242077, B.US.x.J0507TOB8U.GQ371380,  
CPZ.CM.x.SIVcpzMB897.EF535994, C.ZA.06.SK420.HM593429, B.US.x.B4578TOB8U.GQ371251,  
F1.AR.02.2002\_04.FJ155155, B.US.x.P9510TOB8U.GQ371546,  
B.US.x.PARC\_CP039GAG.EU864080, CPZ.CM.05.SIVcpzLB7.DQ373064,  
C.ZA.04.SK198.HM593205, C.ZA.05.SK311.HM593316,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3168.EU242225,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3382.EU242439, B.US.x.M5516TOB8U.GQ371460,  
C.ZA.05.SK277.HM593280, C.ZA.06.SK446.HM593456, B.US.x.W7526TOB8U.GQ371685,  
G.RU.06.Pat03.GU991864, A1.CY.05.CY021.FJ388892, A1.UG.04.04\_0567NR.AY803395,  
C.ZM.06.ZM1693M.FJ606219, B.AR.03.2003\_04.FJ155173, C.ZA.06.SK384.HM593390,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3078.EU242135,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3264.EU242321, BF.AR.99.A047.AF408627,  
C.ZA.05.SK319.HM593323, A1.TZ.03.H075.FJ853516, C.ZM.05.ZM681F.FJ606430,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3320.EU242377, C.ZM.06.ZM1483F.FJ606194,  
C.ZM.05.ZM1093M.FJ606133, C.ZA.05.SK249.HM593254, C.ZA.03.SK7.HM593485,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3370.EU242427,  
D.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3015.EU242072,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2881.EU241938, C.ZM.05.ZM349F.FJ606375,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2994.EU242051,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2890.EU241947, C.ZM.99.ZM108F.FJ606131,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3343.EU242400, C.ZM.06.ZM268F.FJ606340,  
B.US.x.PARC\_CP033GAG.EU864074, B.US.x.BEC108.EU517804,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2897.EU241954, C.ZA.03.SK90.HM593502,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2921.EU241978,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2970.EU242027, B.AU.04.MS2004\_37\_040.EF178338,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3336.EU242393,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3273.EU242330,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3152.EU242209,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3411.EU242468,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3406.EU242463, B.US.x.M5593TOB8U.GQ371462,  
C.ZA.06.SK400.HM593407, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2997.EU242054,  
B.US.x.Y8533TOB8U.GQ371738, A2.KE.02.clone\_139.GQ430003,  
02\_AG.US.x.B5512TOB8U.GQ371252, A2C.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3324.EU242381,  
C.ZA.05.SK303.HM593307, C.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3433.EU242490,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3426.EU242483,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3280.EU242337, C.ZA.06.SK408.HM593415,  
B.US.x.X9501TOB8U.GQ371713, B.US.x.F4508TOB8U.GQ371321,



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B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3261.EU242318, C.ZA.06.SK445.HM593455,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3125.EU242182, C.ZA.04.SK28.HM593282,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3283.EU242340,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3221.EU242278,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3116.EU242173, C.ZA.05.SK314.HM593319,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3076.EU242133, B.US.x.PARC\_CP016GAG.EU864057,  
C.ZA.05.SK236.HM593242, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3035.EU242092,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3190.EU242247, B.US.x.PARC\_CP004GAG.EU864045,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3086.EU242143, C.ZM.03.ZM236F.FJ606303,  
C.ZA.06.SK402.HM593409, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3182.EU242239,  
C.ZM.05.ZM464M.FJ606403, C.ZM.03.ZM209M.FJ606270, C.ZM.05.ZM1147F.FJ606143,  
C.ZM.05.ZM1657M.FJ606215, B.US.x.F3524TOB8U.GQ371318,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3242.EU242299,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3085.EU242142,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3066.EU242123, C.ZM.05.ZM373F.FJ606381,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3247.EU242304, C.ZA.06.SK414.HM593422,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2964.EU242021, C.ZA.06.SK412.HM593420,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2936.EU241993,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3260.EU242317,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3338.EU242395,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3194.EU242251

**Protein sequences (# 43) covered by at least 25%**

B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3245.EU242302, C.ZA.06.SK440.HM593450,  
B.US.x.Q4546TOB8U.GQ371559, B.US.x.E6503TOB8U.GQ371302,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3069.EU242126, C.ZM.05.ZM1243M.FJ606172,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3347.EU242404,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3375.EU242432, CPZ.CM.05.SIVcpzMT145.DQ373066,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3147.EU242204, C.ZM.06.ZM709F.FJ606431,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3038.EU242095,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3154.EU242211,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3443.EU242500, C.ZM.06.ZM1707M.FJ606220,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3169.EU242226, C.ZM.05.ZM559F.FJ606423,  
C.TZ.03.H584.FJ853586, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3302.EU242359,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3265.EU242322,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3293.EU242350,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3235.EU242292, CPZ.GA.88.GAB1.X52154,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2910.EU241967,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3380.EU242437,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2946.EU242003,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3157.EU242214,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3204.EU242261,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3055.EU242112, B.US.x.F9544TOB8U.GQ371335,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2943.EU242000, C.ZA.04.SK210.HM593219,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3329.EU242386,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3308.EU242365,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3162.EU242219,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3344.EU242401, C.ZA.05.SK296.HM593299,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3040.EU242097,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3257.EU242314,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3294.EU242351,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3223.EU242280, C.ZA.06.SK415.HM593423,  
B.US.x.K6538TOB8U.GQ371417



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### Protein sequences (# 26) covered by at least 20%

C.ZA.05.SK260.HM593265, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3268.EU242325,  
N.CM.02.SJGddd.GQ324959, CPZ.GA.88.GAB2.AF382828,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3342.EU242399, B.DE.04.AC\_GAG3.GU390466,  
C.ZM.04.ZM195F.FJ606247, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3267.EU242324,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3092.EU242149, C.ZA.06.SK392.HM593398,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3348.EU242405, N.CM.95.YBF30.AJ006022,  
CPZ.CM.98.CAM3.AF115393, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2947.EU242004,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_2922.EU241979, C.ZA.04.SK207.HM593215,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3255.EU242312,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3186.EU242243, CPZ.CM.98.CAM5.AJ271369,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3173.EU242230, CPZ.US.85.US\_Marilyn.AF103818,  
CPZ.CM.05.SIVcpzEK505.DQ373065, B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3072.EU242129,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3314.EU242371,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3425.EU242482, CPZ.CM.x.SIVcpzDP943.EF535993

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

C.ZM.05.ZM632M.FJ606426, N.CM.04.04CM\_1015\_04.DQ017382,  
B.US.x.PARC\_CP013GAG.EU864054, O.BE.87.ANT70.L20587, C.ZA.05.SK309.HM593313,  
N.CM.06.U14842.GQ324958, C.ZM.05.ZM863F.FJ606441, N.CM.04.04CM\_1131\_03.DQ017383,  
O.CM.98.98CMA104.AY169802, O.CM.98.98CMABB197.AY169811, N.CM.02.DJO0131.AY532635,  
O.CM.96.96CMA102.AY169803, O.CM.91.MVP5180.L20571, O.CM.98.98CMU2901.AY169812,  
O.CM.97.97CMABB497.AY169809, C.ZA.03.SK24.HM593244, O.SN.99.99SE\_MP1300.AJ302647,  
O.CM.99.99CMU4122.AY169815, O.CM.98.98CMU5337.AY169808, O.CM.x.pCMO2\_5.AY623602,  
N.CM.06.U14296.GQ324962, J.CM.04.04CMU11421.GU237072

### Protein sequences (# 12) covered by at least 10%

O.US.97.97US08692A.AY169805, CPZ.TZ.00.TAN1.AF447763, O.CM.97.97CMABB447.AY169813,  
B.CA.x.BCCFE\_HOMER\_HIV\_GAG\_3104.EU242161, O.CM.98.98CMA105.AY169816,  
O.CM.94.BCF06.AB485666, C.ZA.05.SK337.HM593342, CPZ.CM.01.SIVcpzCAM13.AY169968,  
O.CM.96.96CMABB637.AY169810, O.CM.96.96CMABB009.AY169806, O.FR.92.VAU.AF407418,  
O.CM.98.98CMABB141.AY169807

### Protein sequences (# 6) covered by at least 5%

F1.AR.95.1995\_34.FJ155107, O.CM.98.98CMABB212.AY169804, P.FR.09.RBF168.GU111555,  
DO.FR.08.RBF208.GQ351296, P.CM.06.U14788.HQ179987, CPZ.CD.90.ANT.U42720