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# Table 1: Number of sequences used for each alignment

|  |  |  |
| --- | --- | --- |
|  | Rev NES | Env LLP2 |
| HIV-1 M | 4,054 | 7,004 |
| HIV-1 N | 9 | 11 |
| SIVcpzPtt | 12 | 15 |
| HIV-1 P | 5 | 4 |
| HIV-1 O | 48 | 48 |
| SIVgor | 6 | 8 |
| SIVcpzPts | 9 | 9 |
| SIVmac | 26 | 38 |
| HIV-2 | 49 | 75 |
| SIVsmm | 32 | 30 |
| SIVrcm | 6 | 7 |

# Re NES alignment

## HIV-1 M Rev NES alignment

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>BF1.BR.10.10BR\_RJ104.KT427652

LPPLERLTL

>BF1.BR.10.10BR\_SP005.KT427828

LPPIERLTI

>BF1.BR.10.10BR\_SP010.KT427825

LPPLERLTL

>BF1.BR.10.10BR\_SP013.KT427823

LPPLERLHI

>BF1.BR.10.10BR\_SP017.KJ849794

LPPLDRLTL

>BF1.BR.10.10BR\_SP018.KT427820

LPSLERLTL

>BF1.BR.10.10BR\_SP024\_2.KT427660

LPPLERLTL

>BF1.BR.10.10BR\_SP035.KT427809

LPPLERLTL

>BF1.BR.10.10BR\_SP037.KT427807

LPPLERLTL

>BF1.BR.10.10BR\_SP048.KJ849810

LPPLERLTL

>BF1.BR.10.10BR\_SP054.KT427801

LPPLERLTL

>BF1.BR.10.10BR\_SP057.KJ849816

LPPLERLHI

>BF1.BR.10.10BR\_SP068.KT427795

LPPLERLTL

>BF1.BR.16.HI2016\_11.MG571986

LPPIERLTL

>BF1.BR.16.HI2016\_32.MG572011

LPPIERLTL

>BF1.BR.93.93BR029\_4.AF005495

LPPLERLHI

>BF1.BR.94.94BR\_RJ\_41.AY455781

LPPLEKLHI

>BF1.BR.94.94BR\_RJ\_59.AY455784

LPPLERLHI

>BF1.BR.94.94UFRJ\_58.AY455785

LPPLERLHI

>BF1.BR.99.99BRRJSB067.MG365765

LPPLEKLHI

>BF1.BR.99.99UFRJ\_16.AY455782

LPPLEKLHI

>BF1.BR.99.99UFRJ\_2.AY455780

LPPLERLTI

>BF1.BR.99.99UFRJ\_9.AY455783

LPPLERLHI

>BF1.BR.99.BREPM108.AY771589

LPPLERLTL

>BF1.BR.99.BREPM11871.DQ085867

LPPLERLTL

>BF1.BR.99.BREPM11884.DQ085868

LPPLERLTL

>BF1.BR.99.BREPM11932.DQ085870

LPPLERLTL

>BF1.BR.99.BREPM269.AY771591

LPPLERLHI

>BF1.BR.99.BREPM275.AY771592

LPPLERLTL

>BF1.BR.99.BREPM278.AY771593

LPPLERLTL

>BF1.CL.01.CH3.AY536233

LPPLERLTL

>BF1.CL.01.CH6.AY536234

LPPLERLTL

>BF1.ES.08.DEURF08ES008.KU749408

LPPLERLTL

>BF1.ES.08.ES\_X2524\_2.GQ372989

LPPIERLSL

>BF1.ES.08.X2432\_2.FJ853621

LPPLERLHI

>BF1.ES.09.DEMBF09ES003.JX140660

LPPLERLTL

>BF1.ES.09.DEMBF09ES006.JX140661

LPPIERLSL

>BF1.ES.14.ARP1199.KT276259

LPPLDRLTL

>BF1.ES.14.ARP1209.KT276269

LPPLDRLTL

>BF1.ES.14.ARP1212.KT276271

LPPIERLTL

>BF1.IT.01.50610.GU595156

LPPLERLTL

>BF1.IT.01.53143.GU595149

LPPLERLTL

>BF1.IT.02.30638.GU595148

LPPLERLTL

>BF1.IT.02.57954.GU595150

LPPLERLTL

>BF1.IT.02.59211.GU595151

LPPLERLTL

>BF1.IT.05.83166.GU595152

LPPLERLTL

>BF1.IT.06.89072.GU595153

LPPLESLNL

>BF1.IT.08.IT\_BF\_PRIN\_454.FJ904244

LPPLERLTL

>BF1.JP.04.DR6082.AB480298

LPPLERLHI

>BF1.JP.04.DR6190.AB480300

LPPLERLTI

>BF1.JP.x.DR0769.AB253430

LPPLERLTL

>BF1.PY.02.02PY\_PSP0060.JN251897

LPPLERLTL

>BF1.PY.02.02PY\_PSP0067.JN251898

LPPIDRLTL

>BF1.PY.02.02PY\_PSP0070.JN251899

LPPLERLTL

>BF1.PY.02.02PY\_PSP0087.JN251900

LPPXERLSL

>BF1.PY.02.02PY\_PSP0093.JN251902

LPPLERLTL

>BF1.PY.02.02PY\_PSP0094.JN251903

LPPLERLTL

>BF1.PY.03.03PY\_PSP0114.JN251905

LPPLERLTL

>BF1.SE.15.103MK.MF373205

LPPLERLCI

>BF1.UY.00.00UY\_TSU0020.JN235952

LPPLERLTL

>BF1.UY.01.01UYTRA1020.AY781128

LPPLERLTL

>BF1.UY.01.01UY\_TRA1141.JN235953

LPPLERLTL

>BF1.UY.01.01UY\_TRA2083.JN235956

LPPLERLTL

>BF1.UY.99.99UY\_TRA0107.JN235960

LPPLERLHI

>BF1.UY.99.99UY\_TRA0129.JN235963

LPPLERLHI

>BF1.UY.99.URTR17\_URTR017.AY037272

LPPLERLTL

>BF1.VE.99.V62.AY536236

LPPLERLTL

>BG.RU.14.RU\_KNCh\_2014.MF614609

LPPLERLHL

>BG.RU.14.RU\_VDL\_2014.MF614608

LPPLERLHL

>BG.RU.15.RU\_KAE\_2015.MF614612

LPPLERLHL

>BG.RU.16.RU\_ChTS\_2016.MF614614

LPPLERLHL

>CD.BW.00.00BWMO35.1.AY074891

LPPIERLHI

>CD.KE.00.MSA4077.AF457085

LPPLERLNL

>CD.KE.01.ML1076.EU110086

LPPLERLTL

>CD.MW.08.CH492.PL.031108.A2.7.KY112292

LPPIERLHI

>CD.NP.11.11NP079.KU341727

LPPIERLHI

>CD.RW.11.DEURF11RW001.KF716473

LPPIERLTI

>CD.SE.08.029SE.MF373143

LPPIERLHI

>CD.SE.13.081ER.MF373183

LPPLERLNL

>CD.TZ.01.A247.AY253309

LPPIERLNI

>CD.TZ.04.CO3337V2.KX907371

LPPLERLTL

>CD.TZ.04.CO6480V4.KX907408

LPPIERLTI

>CD.TZ.05.CO6811V5.KX907421

LPPLERLTL

>CD.TZ.06.CO3016V6.KX907359

LPPIERLTL

>CD.TZ.97.97TZ07.AF361877

LPPLERLNI

>CD.UG.99.99UGK10192.AF484500

LPPLERLNI

>CD.ZA.13.DEURF13ZA135.KU749418

LPPLERLHL

>CF1.BR.07.DEURF07BR043.KU749397

LPPIERLTI

>CF1.BR.10.10BR\_SP023.KT427818

LPPIERLNI

>CF1.ES.15.100348.MF381270

LPPLERLHI

>CF1.SE.13.086SE.MF373188

LPPIERLDI

>CU.CD.02.CG\_0373\_02V\_NGSID2.KY392768

LPPLERLHI

>CU.CD.12.VIR90.MF372650

LPPIERLCI

>CU.JP.04.DR5782.AB286849

LPPLERLTL

>DF1G.ES.04.X963\_4.FJ670527

LPPIERLTL

>DG.CM.06.876\_14.KP718916

LPPIERLNL

>DG.CY.05.CY063.FJ388908

LPPIERLTL

>DG.GB.13.15228\_1\_62.3.MF109700

LPPLERLHI

>DG.KE.06.06KECst\_014.FJ623495

LPPLERLSL

>DJ.KR.04.04KBH8.DQ054367

LPPIERLTI

>DO.CM.08.YBF274.KX579838

LPPLERLNL

>DO.FR.08.RBF208.GQ351296

LPPLEQLXI

>F1F2.CD.02.CG\_0349\_02\_NGSID5.KY392770

LPPLERLHI

>F1F2.RU.08.D88\_845.GQ290462

LPPLERLHI

>F2KU.BE.94.VI1126.AF076475

LPPLERLNL

>GK.NG.09.09NG010067.KX389638

LPPLERLHL

>GKU.SE.95.SE9010.AY352655

LPPIERLRL

>JU.AO.93.93AOHDC250.KU310619

LPPLERLHL

>UO.FR.16.RBF240.KY359384

LPPIERLHI

>U.CA.01.TV749.HM215251

LPPLERLSL

>U.CA.99.TV721.HM215249

LPPLERLSL

>U.CD.01.CG\_0066\_01\_NGSID18.KY392780

LPPLERLHL

>U.CD.02.CG\_0059\_01\_NGSID8.KY392773

LPPLERLTL

>U.CD.02.CG\_0575\_02\_NGSID12.KY392775

LPPLERLNL

>U.CD.83.83CD003\_Z3.AF286236

LPPLERLNL

>U.CD.90.90CD121E12.AF457101

LPPLERLHL

>U.CD.x.BCF\_Kita.AB485665

LPPIERLCL

>U.CM.07.469\_66.KP718920

LPPLERLTL

>U.CY.05.CY090.FJ388921

LPPLENLSL

>U.CY.08.CY223.JF683772

LPPIERLHI

>U.ES.10.DEURF10DZ001.JX140679

LPPIEKLSL

>U.GR.99.99GR303.AY046058

LPSIERLHL

>U.NG.11.DEURF11NG005.MH078558

LPPIERLRL

>U.NG.11.DEURF11NG011.MH078559

LPPLERLHL

>U.NL.01.U\_NL\_01\_H10986\_C11.EF029069

LPPLERLTL

## HIV-1 N Rev NES alignment

>N.CM.02.DJO0131.AY532635

LPPLDRLTL

>N.CM.04.04CM\_1015\_04.DQ017382

LPPLERLTL

>N.CM.04.04CM\_1131\_03.DQ017383

LPPLXRLTL

>N.CM.06.U14296.GQ324962

LPPLDRLTL

>N.CM.06.U14842.GQ324958

LPPLDRLTL

>N.CM.14.14003718.MF767262

LPPLDRLTL

>N.CM.15.S4858.KY498771

LPPIDRLTL

>N.CM.95.YBF30.AJ006022

LPPLDRLTL

>N.CM.97.YBF106.AJ271370

LPPLGRLTL

## SIVcpzPtt Rev NES alignment

>CPZ.CM.01.SIVcpzCAM13.AY169968

LPELDKLSL

>CPZ.CM.05.LB715.KP861923

LPPLERLSL

>CPZ.CM.05.SIVcpzDP943.EF535993

LPPIDRLTL

>CPZ.CM.05.SIVcpzEK505.DQ373065

LPPLDRLSL

>CPZ.CM.05.SIVcpzLB7.DQ373064

LPPIDRLSL

>CPZ.CM.05.SIVcpzMB66.DQ373063

LPPIERLTL

>CPZ.CM.05.SIVcpzMB897.EF535994

LPPLERLTL

>CPZ.CM.05.SIVcpzMT145.DQ373066

LPPIERLCI

>CPZ.CM.98.CAM3.AF115393

LPPIERLTI

>CPZ.CM.98.CAM5.AJ271369

LPPIDRLTL

>CPZ.GA.88.GAB1.X52154

LPELDKLSL

>CPZ.GA.88.SIVcpzGAB2.AF382828

LPPLERLSL

## HIV-1 P Rev NES alignment

>GQ328744

LPDLSRLHI

>GU111555

LPDLSRLHI

>HQ179987

LPDISQLHI

>JA446000

LPDISQLHI

>KY953207

LPDLSRLHI

## HIV-1 O Rev NES alignment

>O.BE.87.ANT70.L20587

LPPLEQLSI

>O.CM.03.1225\_51.MH705149

LPPLEQLSI

>O.CM.03.296.MH705148

LPALEQLNI

>O.CM.06.20\_02.MH705150

LPPLEQLSI

>O.CM.91.MVP5180.L20571

LPPLEQLNI

>O.CM.94.BCF06.AB485666

LPPLEQLSI

>O.CM.94.LA50YBF16.KU168293

LPDLEQLNI

>O.CM.95.LA29YBF26.KU168281

LPPLEQLSI

>O.CM.95.LA33YBF37.KU168285

LPPLEQLSI

>O.CM.96.96CMA102.AY169803

LPPLEQLSI

>O.CM.96.96CMABB009.AY169806

LPPLEQLNI

>O.CM.96.96CMABB637.AY169810

LPPLEQLSI

>O.CM.96.LA51YBF35.KU168294

LPPLEQLSL

>O.CM.96.LA52YBF39.KU168295

LPPLEQLSI

>O.CM.97.97CMABB447.AY169813

LPSLDQLSI

>O.CM.97.97CMABB497.AY169809

LPPLEQLSI

>O.CM.98.98CMA104.AY169802

LPPLEQLSI

>O.CM.98.98CMA105.AY169816

LPPLEQLSI

>O.CM.98.98CMABB141.AY169807

LPPLEQLSI

>O.CM.98.98CMABB197.AY169811

LPPLERLSI

>O.CM.98.98CMABB212.AY169804

LPPLEQLSI

>O.CM.98.98CMU2901.AY169812

LPPLEQLNI

>O.CM.98.98CMU5337.AY169808

LPPLEQLSI

>O.CM.99.99CMU4122.AY169815

LPPLEQLSI

>O.CM.99.AB260.MH705147

LPPLEQLSI

>O.CM.99.DSC1320.AY489739

LPPLEQLSI

>O.CM.x.pCMO2\_3.AY618998

LPPIEQLSI

>O.DE.x.DEOXXDE004.KF859742

LPPLEQLNI

>O.ES.01.Read25\_HIV\_GroupO.KX228804

LPPLEQLSI

>O.FR.01.LA46BCF03.KU168289

LPPLEQLSI

>O.FR.02.LA34RBF130.KU168286

LPPLEQLSI

>O.FR.03.LA31BCF108.KU168283

LPPLEQLSI

>O.FR.03.LA32RBF140.KU168284

LPPLEQLSI

>O.FR.05.LA49RBF189.KU168292

LPPLEQLNI

>O.FR.06.RBF206.KY112585

LPSLEHLSI

>O.FR.92.VAU.AF407418

LPPLEQLSL

>O.FR.94.LA45BCF02.KU168288

LPPLEQLSI

>O.FR.95.LA47BCF09.KU168290

LPPLEQLSI

>O.FR.95.LA48BCF13.KU168291

LPPLEQLSI

>O.FR.98.LA30RBF125.KU168282

LPPLEHLSI

>O.FR.98.LA53BCF109.KU168296

LPPLEQLSI

>O.FR.99.LA54BCF120.KU168297

LPPLEQLSI

>O.GA.10.10Gab1190.JX245014

LPPLEQLSI

>O.GA.11.11Gab6352.JX245015

LPSLEHLSI

>O.SN.99.99SE\_MP1299.AJ302646

LPPLEQLSI

>O.SN.99.99SE\_MP1300.AJ302647

LPPLEQLSI

>O.US.10.LTNP.JN571034

LPPLEQLSI

>O.US.x.DEOXXUS001.KF859744

LPPLEQLSI

## SIVgor Rev NES alignment

>GOR.CM.04.SIVgorCP684con.FJ424871

LPDISHLTI

>GOR.CM.07.SIVgor2139\_287.FJ424866

LPDISHLTI

>GOR.CM.07.SIVgorCP2135con.FJ424863

LPDISHLTI

>GOR.CM.12.SIVgor\_BPID1.KP004989

LPDLGQLHI

>GOR.CM.12.SIVgor\_BQID2.KP004991

LPSLEQLSI

>GOR.CM.13.SIVgor\_BPID15.KP004990

LPDISHLHI

## SIVcpzpts Rev NES alignment

>CPZ.CD.06.BF1167.JQ866001

LPDLSKLTL

>CPZ.CD.90.ANT.U42720

LPDLQNLSL

>CPZ.TZ.00.TAN1.AF447763

IPDLSKLHL

>CPZ.TZ.01.TAN2.EF394357

LPDLSKLHL

>CPZ.TZ.02.TAN3\_1.DQ374658

LPDLSKLHL

>CPZ.TZ.06.SIVcpzTAN13.JQ768416

LPDLSQLRL

>CPZ.TZ.06.TAN5.JN091691

IPDLSKLHL

>CPZ.TZ.09.UG38.JN091690

LPDLSKLRL

>CPZ.US.85.US\_Marilyn.AF103818

LPPIGGLTI

## SIVmac Rev NES alignment

>AAW32420 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAV65328 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAV65319 rev protein [Simian immunodeficiency virus]

XQQLQNLAI

>AAU94545 rev protein [Simian immunodeficiency virus]

IQQLQBLAI

>AAU94537 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU94528 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU94519 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU94510 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU94501 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU94492 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU94483 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU94474 rev protein [Simian immunodeficiency virus]

VQQLQNLAI

>AAU94464 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU14058 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU14049 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU14040 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU14031 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU08051 rev protein [Simian immunodeficiency virus]

VQQLQNLAI

>AAU08046 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU08036 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAU08028 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAT99867 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAT99454 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAT97127 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAT72789 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

>AAT72775 rev protein [Simian immunodeficiency virus]

IQQLQNLAI

## HIV-2 Rev NES alignment

>A.CI.88.UC2.U38293

IQHLQGLTI

>A.DE.x.BEN.M30502

IQHLQRLTI

>A.DE.x.PEI2\_KR\_KRCG.U22047

IQRLQGLTI

>A.FR.00.LA38.KY025539

IQHLQGLTI

>A.FR.01.LA42.KY025543

IQHLQGLSI

>A.FR.02.LA36GomM.KU168287

IQQLQGLTI

>A.FR.93.LA37.KY025538

IQHLQGLTI

>A.FR.96.LA40.KY025541

IQHLQGLTI

>A.FR.98.LA39.KY025540

VRHLQELTI

>A.FR.98.LA41.KY025542

IQHLQELTI

>A.GH.x.GH1.M30895

IQDLQRLTI

>A.GM.87.D194.J04542

IQQLQGLTI

>A.GM.88.CBL20.MH681607

IQHLQGLTI

>A.GM.x.ISY\_SBL\_6669\_85.J04498

IQQLQGLTI

>A.GM.x.MCN13.AY509259

IQHLQELTI

>A.GW.10.TD024.MH681608

VQQLQGLTI

>A.GW.10.TD031.MH681610

VQQLQELTI

>A.GW.10.TD062.MH681609

IQGLQGLTI

>A.GW.86.FG\_clone\_NIHZ.J03654

IQHLQGLTI

>A.GW.87.CAM2CG.D00835

IQHLQELTI

>A.GW.x.MDS.Z48731

VQQLQGLTI

>A.IN.07.NNVA.EU980602

IQQLQGLTI

>A.IN.95.CRIK\_147.DQ307022

IQQLQGLTI

>A.JP.08.NMC786\_clone\_41.AB731742

IRDLQELTI

>A.NL.01.RH2.13.MF595856

IQHLQGLTI

>A.NL.01.RH2.14.MF595858

VQQLQGLTI

>A.NL.01.RH2.3.MF595854

IQHLQGLTI

>A.NL.01.RH2.7.MF595862

IQHLQGLTI

>A.NL.02.RH2.5.MF595860

IQHLQELTI

>A.NL.03.RH2.21.MF595864

IRNLQELTI

>A.NL.03.RH2.24.MF595866

IRNLQELTI

>A.PT.x.ALI.AF082339

VQHLQGLTI

>A.SN.85.RODR.MH681611

IQHLQGLTI

>A.SN.85.ROD.M15390

IQHLQGLTI

>A.SN.86.ST\_JSP4\_27.M31113

IQHLQGLTI

>A.x.x.MCN13.MA255545

IQHLQELTI

>B.CI.88.UC1.L07625

VQRLQELTV

>B.CI.x.20\_56.AB485670

VQRLQELTI

>B.CI.x.EHO.U27200

IQRLQNLII

>B.FR.00.LA44.KY025545

VRRLQELTV

>B.FR.98.LA43.KY025544

IQQLQNLTV

>B.GH.86.D205\_ALT.X61240

IQRLQNLTV

>B.JP.01.IMCJ\_KR020\_1.AB100245

IQQLQKLTV

>F.US.08.NWK08.KP890355

VQQLQRLNI

>G.CI.92.Abt96.AF208027

IQQLQSLTI

>H2\_01\_AB.CI.90.7312A.L36874

IRRLQNLTV

>H2\_01\_AB.JP.04.NMC307\_20.AB731738

VRRLQNLAI

>H2\_01\_AB.JP.07.NMC716\_01.AB731740

IRRLQNLAI

>H2\_01\_AB.JP.08.NMC842\_10.AB731744

IRRLQNLAI

## SIVsmm Rev NES alignment

>SMM.CI.79.SIVsmCI2.JX860430

VQQLQGLSI

>SMM.LR.89.SIVsmLIB1.JX860431

VQQLQSLAI

>SMM.SL.92.SIVsmSL92A.JX860432

IQQLQSLTI

>SMM.SL.92.SL92B.AF334679

IQQFDSLSI

>SMM.US.04.G078.JX860415

VQQLQSLAI

>SMM.US.04.G932.JX860416

IRQLQNLAI

>SMM.US.04.M919.JX860417

IQQLQDLSL

>SMM.US.04.M922.JX860418

IQQLQDLSL

>SMM.US.04.M923.JX860419

IQQLQGLAI

>SMM.US.04.M926.JX860420

VQQLQSLSL

>SMM.US.04.M934.JX860421

VQQLQDLSL

>SMM.US.04.M935.JX860422

IQQLQDLSL

>SMM.US.04.M940.JX860423

VQQLQSLAI

>SMM.US.04.M946.JX860424

VQQLQDLSL

>SMM.US.04.M947.JX860425

VQQLQRLAI

>SMM.US.04.M949.JX860426

VQQLQSLAI

>SMM.US.04.M950.JX860427

IQQLQDLSL

>SMM.US.04.M951.JX860428

IQQLQNLAI

>SMM.US.04.M952.JX860429

IQQLQDLSL

>SMM.US.05.D215.JX860413

IQQLQSLAI

>SMM.US.06.FTq.JX860414

VRQLQNLAI

>SMM.US.11.SIVsmE660\_FL10.JQ864084

IQQLQGLAI

>SMM.US.11.SIVsmE660\_FL14.JQ864087

IQQLQGLAI

>SMM.US.11.SIVsmE660\_FL6.JQ864085

IQQLQGLAI

>SMM.US.11.SIVsmE660\_FL8.JQ864086

IQQLQGLAI

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VQQLQNLAI

>SMM.US.x.H9.M80194

IQQLQGLAI

>SMM.US.x.PGM53.AF077017

VQQLQDLSL

>SMM.US.x.SIVsmH635F\_L3.DQ201172

IQQLQGLAI

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IQQLQGLAI

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>STM.US.89.STM\_37\_16.M83293

VQQLQGLSI

## SIVrcm Rev NES alignment

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VEQLNQLTI

>RCM.CM.02.SIVrcm\_02CM8081.HM803689

VEQLQQLAI

>AF382829\_7 rev protein [Simian immunodeficiency virus]

IADLQKLQL

>ADK78276 rev protein [Simian immunodeficiency virus]

VEQLNQLTI

>ADK78267 rev protein [Simian immunodeficiency virus]

VEQLQQLAI

>AF349680\_7 rev protein [Simian immunodeficiency virus]

LSNLQQLTL

# Env LLP2 alignments

## HIV-1 M Env LLP2 alignment

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>A.CD.87.50.MH705161

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>A.CD.87.70641.MH705151

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>A.CD.87.P4039.MH705157

SYHRLRDFIL

>A.CD.87.PBS6126.MH705153

SYHRLRDFIL

>A.CD.87.PBS888.MH705133

SYHRLRDFIS

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SYHRLRDFAL

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SYHRLRDFIL

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SYHRLRDFIL

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SYHRLRDLLS

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SYHQLRDFIL

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SYHHLRDFIL

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SYHRLRDFIL

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SFLRLRDFIV

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SYHRLRDFIL

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SYHRLRDFAL

>GKU.SE.95.SE9010.AY352655

SYHRLRDFAL

>JKU.FR.95.PHI354.AY231154

CYHLLRDLAL

>JU.AO.93.93AOHDC250.KU310619

SYHRLRDFIL

>UO.FR.16.RBF240.KY359384

SYHRLRDFIL

>x.TH.13.2544320P000R\_Sa.MF957508

SYHRLRDFIS

>x.TH.13.4114878PUV2env\_S06.MF957426

SYHRLSDLLL

>U.CA.01.TV749.HM215251

SYHRLRDLVL

>U.CA.99.TV721.HM215249

SYHRLRDLVL

>U.CD.01.CG\_0066\_01\_NGSID18.KY392780

SYHRLRDFIL

>U.CD.02.02CD\_KP097.FN392873

SYHRLRDCIL

>U.CD.02.CG\_0059\_01\_NGSID8.KY392773

SYRHLRDLLL

>U.CD.02.CG\_0575\_02\_NGSID12.KY392775

SYRHLRDLIL

>U.CD.83.83CD003\_Z3.AF286236

SYHRLRDLIL

>U.CD.90.90CD121E12.AF457101

SYHRLRDFIS

>U.CD.97.KMST120.AJ401039

SYRHLRDLIL

>U.CD.97.KTB54.AJ401043

SYHRLRDFIL

>U.CD.x.BCF\_Kita.AB485665

SYHRLRDFAL

>U.CM.06.KM34BlR14.JF706452

SYRHLRDFTL

>U.CM.07.469\_66.KP718920

SYRRLRDLLW

>U.CY.05.CY090.FJ388921

LYHHLRTLVL

>U.CY.08.CY223.JF683772

SYHQLRDFIL

>U.ES.10.DEURF10DZ001.JX140679

SYHQLRNLVL

>U.GB.09.A530b\_p1.JF680905

SYHHLRDLVL

>U.GR.99.99GR303.AY046058

SYHRLRDFIL

>U.MW.09.4009\_Plasma\_Visit1\_amplicon16.KC187234

LYHRLRDCVL

>U.NG.11.DEURF11NG005.MH078558

SYHRLRDFVL

>U.NG.11.DEURF11NG011.MH078559

SYHRLRDFIL

>U.NL.01.U\_NL\_01\_H10986\_C11.EF029069

SYRHLRDLLL

>U.x.09.G510\_p1.JF680912

SYHRLRDLIL

## HIV-1 N Env LLP2 alignment

>N.CM.02.DJO0131.AY532635

LYHRLTDSLL

>N.CM.02.SJGddd.GQ324959

LYHRLTDSLL

>N.CM.04.04CM\_1015\_04.DQ017382

LYHRLRDLLL

>N.CM.04.04CM\_1131\_03.DQ017383

LCXRLXDLLL

>N.CM.06.U14296.GQ324962

LYRRLTDSLL

>N.CM.06.U14842.GQ324958

LYHRLTDSLL

>N.CM.14.14003718.MF767262

LYHRLTDSLL

>N.CM.15.S4858.KY498771

LYHRLTDSLL

>N.CM.95.YBF30.AJ006022

LYHRLTDSLL

>N.CM.97.YBF106.AJ271370

LYHRLADSLL

>N.FR.11.N1\_FR\_2011.JN572926

LYHRLTDSLL

## SIVcpzPtt Env LLP2 alignment

>CPZ.GA.88.SIVcpzGAB2.AF382828

LYRLLRDCLS

>CPZ.GA.88.GAB1.X52154

SYQSLTSLAC

>CPZ.GA.06.SIVcpzGab4.GQ217539

SYHRLRDLTS

>CPZ.CM.98.CAM5.AJ271369

FYHRLIDLLS

>CPZ.CM.98.CAM3.AF115393

CYHRLRDLLL

>CPZ.CM.05.SIVcpzMT145.DQ373066

LYHQLRDCAS

>CPZ.CM.05.SIVcpzMB897.EF535994

SYHRLRDLLW

>CPZ.CM.05.SIVcpzMB66.DQ373063

LYHRLRDLLL

>CPZ.CM.05.SIVcpzLB7.DQ373064

LYHRLTDLVL

>CPZ.CM.05.SIVcpzEK505.DQ373065

LYHRLTDCLS

>CPZ.CM.05.SIVcpzDP943.EF535993

LYHRLIDLLS

>CPZ.CM.05.LB715.KP861923

LYHRLRDFLL

>CPZ.CM.05.LB715.JX178450

LYHRLRDFLL

>CPZ.CM.04.Ptt\_04Cam155.FR686510

FYQTLSNSAC

>CPZ.CM.01.SIVcpzCAM13.AY169968

SYRSLTSLAC

## HIV-1 P Env LLP2 alignment

>GQ328744

IYQILVGCIL

>HQ179987

IYQILVSCIL

>KY953207

IYQILVGCIL

>GU111555

IYQILVGCIL

## HIV-1 O Env LLP2 alignment

>O.BE.87.ANT70.L20587

TYHLLSNLAS

>O.CM.03.1225\_51.MH705149

SYRLLSNLAS

>O.CM.03.296.MH705148

IYQLLSSLTS

>O.CM.06.20\_02.MH705150

TYHLLSNLAS

>O.CM.91.MVP5180.L20571

TYHLLSNLIS

>O.CM.94.BCF06.AB485666

TYHLLSNLAS

>O.CM.94.LA50YBF16.KU168293

GYQILSSLTS

>O.CM.95.LA29YBF26.KU168281

SYHLLSNLAS

>O.CM.95.LA33YBF37.KU168285

SYHLLSNLAS

>O.CM.96.96CMA102.AY169803

IYRLLSNLAS

>O.CM.96.96CMABB009.AY169806

IYHLLSNLIS

>O.CM.96.96CMABB637.AY169810

SYRLLSSLAS

>O.CM.96.LA51YBF35.KU168294

SYHLLSNLAS

>O.CM.96.LA52YBF39.KU168295

SYHLLSNLAS

>O.CM.97.97CMABB447.AY169813

SYRLLTSLAS

>O.CM.97.97CMABB497.AY169809

SYHLLSNLAS

>O.CM.98.98CMA104.AY169802

TYHLLSNLAS

>O.CM.98.98CMA105.AY169816

SYHLLSNLAS

>O.CM.98.98CMABB141.AY169807

SYHLLSNLAS

>O.CM.98.98CMABB197.AY169811

ICHLLSALAS

>O.CM.98.98CMABB212.AY169804

IYHLLSNLAS

>O.CM.98.98CMU2901.AY169812

SYHLLSNLIS

>O.CM.98.98CMU5337.AY169808

SYHLLSNLAS

>O.CM.99.99CMU4122.AY169815

SYHLLSNLAS

>O.CM.99.AB260.MH705147

SYHLLSSLAS

>O.CM.x.pCMO2\_3.AY618998

SYHLLSNLAS

>O.DE.x.DEOXXDE004.KF859742

SYHLLSSLTS

>O.ES.01.Read25\_HIV\_GroupO.KX228804

SYRLLSNLAS

>O.FR.01.LA46BCF03.KU168289

SYHLLSNLAS

>O.FR.02.LA34RBF130.KU168286

SYHLLSNLAS

>O.FR.03.LA31BCF108.KU168283

SYHLLSNLAS

>O.FR.03.LA32RBF140.KU168284

SYHLLSNLAS

>O.FR.05.LA49RBF189.KU168292

SYHLLSSLTS

>O.FR.06.RBF206.KY112585

IYHLLSILAS

>O.FR.92.VAU.AF407418

IYHLLSNLAS

>O.FR.94.LA45BCF02.KU168288

SYHLLSNLAS

>O.FR.95.LA47BCF09.KU168290

SYHLLSNLAS

>O.FR.95.LA48BCF13.KU168291

SYHLLSNLAS

>O.FR.98.LA30RBF125.KU168282

IYHLLSILAS

>O.FR.98.LA53BCF109.KU168296

TYHLLSNLAS

>O.FR.99.LA54BCF120.KU168297

SYHLLSNLAS

>O.GA.10.10Gab1190.JX245014

IYHLLSNLAS

>O.GA.11.11Gab6352.JX245015

SYHLLSILAS

>O.SN.99.99SE\_MP1299.AJ302646

SYHLLSNLAS

>O.SN.99.99SE\_MP1300.AJ302647

SYHLLSNLAS

>O.US.10.LTNP.JN571034

SYHLLSNLAS

>O.US.97.97US08692A.AY169805

SYHLLSNLAS

>O.US.x.DEOXXUS001.KF859744

SYHLLSNLAS

## SIVgor Env LLP2 alignment

>SIVgor-KP004991 envelope glycoprotein [Simian immunodeficiency virus]

SYHLLSSLVS

>SIVgor-FJ424871 envelope glycoprotein [Simian immunodeficiency virus]

IYRTLVILLS

>SIVgor-FJ424866 envelope glycoprotein [Simian immunodeficiency virus]

IYRTLVILLS

>SIVgor-FJ424865 envelope glycoprotein [Simian immunodeficiency virus]

IYRTLVILLS

>SIVgor-FJ424864 envelope glycoprotein [Simian immunodeficiency virus]

IYRTLVILLS

>SIVgor-FJ424863 envelope glycoprotein [Simian immunodeficiency virus]

IYRTLVILLS

>GOR.CM.13.SIVgor\_BPID15.KP004990

IYRILATCIL

>GOR.CM.12.SIVgor\_BPID1.KP004989

IYQILVSCIL

## SIVcpzpts Env LLP2 alignment

>CPZ.US.85.US\_Marilyn.AF103818

LYHRLEDLLL

>CPZ.TZ.09.UG38.JN091690

IYQTCQNFGW

>CPZ.TZ.06.TAN5.JN091691

IYQTCRNFIW

>CPZ.TZ.06.SIVcpzTAN13.JQ768416

IYQTCLNFVW

>CPZ.TZ.02.TAN3\_1.DQ374658

IYQTCQNFIW

>CPZ.TZ.01.TAN2\_69.DQ374657

LYQTCRNFIW

>CPZ.TZ.00.TAN1.AF447763

IYQTFQNFIW

>CPZ.CD.90.ANT.U42720

IYQICRTCLL

>CPZ.CD.06.BF1167.JQ866001

IYQTSVNLLW

## SIVmac Env LLP2 alignment

>AAP59441.1 envelope protein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAP46102.1 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAP46101.1 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAP46100.1 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLL

>AAP46099.1 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAP46097.1 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAP46098.1 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRILLS

>AAP46096.1 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAP46095.1 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAP46094.1 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAP46093.1 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAK64201.1 env protein [Simian immunodeficiency virus 17E-Cl]

LFSNCRTLLS

>AAW32417 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLX

>AAV65325 env protein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAV65316 env protein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU94534 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU94525 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU94516 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU94507 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLL

>AAU94498 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU94489 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU94480 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU94471 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU94462 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU14055 env protein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU14046 env protein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU14037 env protein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU14028 env protein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU08053 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU08043 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU08033 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAU08025 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAT99864 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLX

>AAT99451 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLL

>AAT97124 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAT72790 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAT72781 envelope glycoprotein [Simian immunodeficiency virus]

LFSNCRTLLS

>AAP59442 envelope protein [Simian immunodeficiency virus]

LFSNCRTLLS

## HIV-2 Env LLP2 alignment

>A.CI.88.UC2.U38293

LYSICRDLLS

>A.DE.x.BEN.M30502

LYNICRDLLS

>A.DE.x.PEI2\_KR\_KRCG.U22047

LYSVCKDLLS

>A.FR.00.LA38.KY025539

LYNTCRDLLF

>A.FR.01.LA42.KY025543

LYNICRDLVS

>A.FR.02.LA36GomM.KU168287

LYNSCRDLLS

>A.FR.93.LA37.KY025538

LYNICKDLLS

>A.FR.96.LA40.KY025541

LYSICRDLLS

>A.FR.98.LA39.KY025540

LYDICRNLLS

>A.FR.98.LA41.KY025542

LYNICRNLLS

>A.GH.x.GH1.M30895

LYKICRDLLS

>A.GM.87.D194.J04542

LYNSCRGLLS

>A.GM.88.CBL20.MH681607

LYNICRGLLS

>A.GM.90.CBL24.AJ238995

LYNICRDLLS

>A.GM.x.CBL21.U05350

LYNICRTLIS

>A.GM.x.CBL22.U05351

LYSSCRDLLS

>A.GM.x.ISY\_SBL\_6669\_85.J04498

LYNSCRDLLS

>A.GM.x.MCN13.AY509259

LYNICRNLLS

>A.GW.06.CA65316\_9.JN863892

LYSICRDLLS

>A.GW.06.CA65319\_7.JN863893

LYNICRNLLS

>A.GW.06.CA65330\_5.JN863894

LYNICRDLLS

>A.GW.06.CA65409\_14.JN863896

LYNICSSLLS

>A.GW.10.TD024.MH681608

LYNSCRDLLS

>A.GW.10.TD031.MH681610

LYSSCRSLLS

>A.GW.10.TD062.MH681609

LYRVCKDLPS

>A.GW.86.FG\_clone\_NIHZ.J03654

LYNICRDLLS

>A.GW.87.CAM2CG.D00835

LYNICRNLLS

>A.GW.x.CA7205\_8.JN863897

LHNICRDLLS

>A.GW.x.CA7253.JN863898

LYNSCRDLLS

>A.GW.x.CAM1.U05359

LYNSCRDLLS

>A.GW.x.CAM3.U05355

LYNSCRDLLS

>A.GW.x.CAM4.U05356

LYSSCRDLLS

>A.GW.x.CAM5.U05357

LYNSCRNLLS

>A.GW.x.CAM6.U05358

LYSSCRDLLS

>A.GW.x.MDS.Z48731

LYNSCRDLLS

>A.IN.07.NNVA.EU980602

LYNSCKDLLS

>A.JP.08.NMC786\_clone\_41.AB731742

LYEICRSLLS

>A.NL.01.RH2.13.MF595856

LYSICRDLLS

>A.NL.01.RH2.14.MF595858

LYNSCRDLLS

>A.NL.01.RH2.3.MF595854

LYSICRDLLS

>A.NL.01.RH2.7.MF595862

LYSICRDSLS

>A.NL.02.RH2.5.MF595860

LYNICRNLLS

>A.NL.03.RH2.21.MF595864

LYGICRNLLS

>A.NL.03.RH2.24.MF595866

LYGICRNSLS

>A.PT.00.00PTHCC20\_1.GU983949

LYNICRDLLS

>A.PT.03.ABG.JF683340

LYNSCRDLLS

>A.PT.03.P1\_6.KX791209

LYNICRNLLS

>A.PT.03.P2\_7.KX791214

LYNICKDLLS

>A.PT.03.P3\_12.KX791221

LYSSCRDLLS

>A.PT.03.P4\_11.KX791227

LYNICRDLLS

>A.PT.04.P6\_3.KX791229

LYNSCKNLIS

>A.PT.10.P7\_10.KX791235

LYNSCKDLLS

>A.PT.10.P8\_6.KX791239

LYNICRDLLS

>A.PT.92.93PTHDESC\_13.JX219596

LHSSCSNLIS

>A.PT.98.98PTHDECT\_13.GU983928

LYNICRDLLS

>A.PT.x.ALI.AF082339

LYSICRDLLS

>A.SN.85.RODR.MH681611

LYSICRDLLS

>A.SN.85.ROD.M15390

LYSICRDLLS

>A.SN.86.ST\_JSP4\_27.M31113

LYNICRDLLS

>A.x.x.MCN13.MA255545

LYNICRNLLS

>B.CI.88.UC1.L07625

LYNGCRNLLL

>B.CI.x.20\_56.AB485670

LYNGCRNLLL

>B.CI.x.EHO.U27200

LYSGCRTLLS

>B.FR.00.LA44.KY025545

LYDGCRNLLL

>B.FR.98.LA43.KY025544

LYSSCRTLLL

>B.GH.86.D205\_ALT.X61240

LYNGCRTLLL

>B.JP.01.IMCJ\_KR020\_1.AB100245

LYNSCRSLLL

>B.x.06.8704A\_06\_01.JX235884

LYNGCRTLLL

>F.US.08.NWK08.KP890355

LYSNCRDLIY

>G.CI.92.Abt96.AF208027

LYSNCRALLS

>H2\_01\_AB.CI.90.7312A.L36874

LYDGCRTLLL

>H2\_01\_AB.JP.04.NMC307\_20.AB731738

LYEGCRTLLS

>H2\_01\_AB.JP.07.NMC716\_01.AB731740

LYEGCRTLLS

>H2\_01\_AB.JP.08.NMC842\_10.AB731744

LYEGCRTLLS

>AB.CM.03.03CM\_510\_03.EU028345

LYNGCRTLLL

## SIVsmm Env LLP2 alignment

>SMM.CI.79.SIVsmCI2.JX860430

LYNNCRDLVL

>SMM.LR.89.SIVsmLIB1.JX860431

LYNNCRAWLF

>SMM.SL.92.SIVsmSL92A.JX860432

LYNSCRALLL

>SMM.SL.92.SL92B.AF334679

LYNNLTRLAS

>SMM.US.04.G078.JX860415

LFNNCRAWLS

>SMM.US.04.G932.JX860416

LYDSCRTLLL

>SMM.US.04.M919.JX860417

LFNNCRTYLL

>SMM.US.04.M923.JX860419

LFNSCRDWLL

>SMM.US.04.M926.JX860420

LFNSCRACLL

>SMM.US.04.M934.JX860421

LFSNCRTCLL

>SMM.US.04.M935.JX860422

LFSSCRTCLL

>SMM.US.04.M940.JX860423

LFNNCRAWLL

>SMM.US.04.M946.JX860424

LFNNCRTCLL

>SMM.US.04.M947.JX860425

LFNNCRDWLL

>SMM.US.04.M949.JX860426

LFNNCKAWLS

>SMM.US.04.M950.JX860427

LFNNCRTCLL

>SMM.US.04.M951.JX860428

LFNSCRTWLL

>SMM.US.04.M952.JX860429

LFNNCRTCLL

>SMM.US.05.D215.JX860413

LYNSCRAWLS

>SMM.US.06.FTq.JX860414

LYDNCRTWLL

>SMM.US.11.SIVsmE660\_FL10.JQ864084

LFSSCRDWLL

>SMM.US.11.SIVsmE660\_FL14.JQ864087

LFSSCRDWLL

>SMM.US.11.SIVsmE660\_FL6.JQ864085

LFSSCRDWLL

>SMM.US.11.SIVsmE660\_FL8.JQ864086

LFSSCRDWLL

>SMM.US.86.CFU212.JX860407

LYSSCRTLLL

>SMM.US.x.PGM53.AF077017

LFNNCRTYLL

>SMM.US.x.SIVsmH635F\_L3.DQ201172

LFSSCRDWLL

>SMM.US.x.pE660.CG7G.JX648292

LFSSCRDWLL

>SMM.US.x.pE660.CG7V.JX648291

LFSSCRDWLL

>SMM.x.x.SIVsm804ECL757.MF370842

LFSSCRDWLL

## SIVrcm Env LLP2 alignment

>RCM.CM.00.SIVagi\_00CM312.HM803690

LWNNLISLLL

>RCM.CM.02.SIVrcm\_02CM8081.HM803689

LWNSCNSLLS

>RCM.GA.x.SIVRCMGAB1.AF382829

LSQICRSCSS

>RCM.NG.x.NG411.AF349680

LYQICSNSLS

>AF382829\_8 env protein [Simian immunodeficiency virus]

LSQICRSCSS

>AF349680\_8 env protein [Simian immunodeficiency virus]

LYQICSNSLS

>ACT83078 envelope glycoprotein [Simian immunodeficiency virus]

LSQICRSCSS