

Yamaguchi, et al. Online Supplemental Information

Materials and Methods

Genome sequence completion Gaps in NGS-generated genomes were filled by RT-PCR and Sanger sequencing for the following 6 samples. Values in Tables 1 and 2 of the main text reflect coverage before addition of these sequences. Those shown below are indicated accordingly: “†Genome completed (100%) with Sanger; ‡ Genome coverage increased with Sanger but still incomplete.” Primers and their sequences are listed below.

Sample ID	gap positon	gap size	primer pair
PBS1342	6643-6649	7 bp	M6577F-JH45R
PBS1342	7410-7481	72 bp	M6823F-JH35m
AB260	5155-5168	14 bp	Opoli12F-env3R
AB260	5322-5324	3 bp	Opoli12F-env3R
AB260	5396-5425	30 bp	Opoli12F-env3R
AB260	5756-5782	27 bp	Opoli12F-env3R
AB260	6685-6717	33 bp	env1F-Oligo dT
AB260	7326-7420	95 bp	env1F-Oligo dT
144-26	3511-3545	35 bp	M3345F-M3772R
144-26	3916-3954	39 bp	55RT3214F-MHApol2R
144-26	6253-6389	137 bp	MN6217F-55EN7052R
144-26	6643-6798	156 bp	MN6217F-55EN7052R
144-26	6977-7432	456 bp	MN6217F-55EN7052R
5056135	6626-6690	65 bp	M6577F-M6895R
814-43	2181-2195	15 bp	gagseq1027F-M2353R
814-43	6649-7342	694 bp	M6577F-JH45R
363-24	3532-3678	147 bp	M3345F-MHApol-6R
363-24	3943-4119	177 bp	M3345F-MHApol-6R
363-24	4263-4275	13 bp	M3345F-MHApol-6R
363-24	5239-5666	428 bp	pol4565F-55TA5518R
363-24	6020-6866	847 bp	M5967F-J6203R
363-24	7129-7474	346 bp	J6265F-JH35m
PBS5635	6288-6397	109 bp	CGgapFWD5-CGgapREV5
PBS1189	868-1024	156 bp	5LTRps46f-LPgag6R
PBS1189	5349-5412	63 bp	pol4565f-55env272r
PBS1189	6246-6752	506 bp	JH09-M6895R

PBS1189	7081-7123	42 bp	M6874F-JH35m
PBS1189	7391-7423	32 bp	M6874F-JH35m
50	1013-1294	281 bp	5LTRps44f-Mp24-1r
50	3518-3651	133 bp	M3345F-Opol25r
50	5490-5814	324 bp	CGgapFWD25-CGgapREV17
50	6120-6786	666 bp	CGgapFWD10-CGgapREV10
50	6120-6786	666 bp	CGgapFWD10-CGgapREV10
50	7768-7925	157 bp	JH35F-IDRps38r
50	8336-8385	49 bp	CGgapFWD11-CGgapREV11
50	8612-8642	30 bp	CGgapFWD12-CGgapREV12
87-2580	6754-6829	75 bp	CGgapFWD17-CGgapREV16
87-2580	7115-7315	200 bp	CGgapFWD17-CGgapREV16
87-2580	8378-8518	140 bp	CGgapFWD4-CGgapREV4
2049	3749-3923	174 bp	M3345F-rt-inseqR2
PBS0724	6233-6875	642 bp	CGgapFWD13-CGgapREV13
PBS0724	7019-7617	598 bp	CGgapFWD13-CGgapREV13

Name	Length	Sequence	Location B-HXB2 or O-ANT70
55EN7052R	28	TCCTGCRATGGGAGGGGCATAYATTGCT	7520<7547
55RT3214F	24	CAGARAGCATARTAATATGGGGAA	3679>3702
55TA5518R	26	GCTTCTTCCTGCCATAGGAGATGCCT	5959<5984
env1F	19	CCARAGCAGTAAGTAACGC	6089>6107 (ANT70)
env3R	18	GTTARCATCTGARGCACA	6449<6431 (ANT70)
gagseq1027F	21	GCTWCAYTAGAAGAAATGATG	1816>1836
J6203R	26	GGRGCACAATAATGTATRGAATTGG	6858<6883
J6265F	29	AATGTCAGYACAGTACAATGYACACAYGG	6945>6973
JH35m	21	CACTTCTCCAATTGTCCITCA	7648<7668
JH45R	22	CARTAGAAAAATTCTCCTCYAC	7357<7378
M2353R	25	TCTAATACTGTATCATCTGCTCCTG	2329<2353
M3345F	23	TGGGCAAGTCAGATTTATCCAGG	3345>3367
M3772R	22	GCTTGCCAATAGTCTGTCCACC	3751<3772
M5967F	21	CCTATGGCAGGAAGAAGCGGA	5967>5987
M6577F	25	CATGTGTAAAGTTAACCCWCTCTG	6577>6601
M6823F	24	CCATTAAACAGGCTTGTCCAAAGG	6823>6846
M6895R	22	GCAAAACCAGCTGGRGCACAAT	6874<6895
MHApol-2R	26	TGCCATATYCCTGGACTRCAGTCTAC	4389<4414
MHApol-6R	26	TTTGCTACTATAGGTGGCAGATTAAA	4305<4330
MN6217F	28	GAAAGAGCAGAAGACAGTGGCAATGAG	6203>6229

Opoli12F	21	AGGGAGCAGTAGTCATACAAG	5021>5041 (ANT70)
pol4565F	24	TATGGAAAACAGATGGCAGGTGAT	5040>5063
55env272r	24	TCTGGGGCTTGTTCCATCTATCTT	5552<5575
5LTRps44f	20	AGGCCAGGGGGAAAGAAAAG	853>872
5LTRps46f	20	GCTAGAAGGAGAGAGATGGG	775>794
CGgapFWD10	18	GGAACCAGCCAGGAAGTC	5862>5879
CGgapFWD11	21	ACCTGGCTGCAATGGGACAAA	8103>8123
CGgapFWD12	20	AGCCTGTGGACTTGTTTGA	8226>8245
CGgapFWD13	22	AAGCGGAAACGACGACGAAAAA	5981>6002
CGgapFWD17	24	ACCCCAACCCACAAGAGATAACTA	6457>6479
CGgapFWD25	26	AGCAACAGACATACAACTAAAGAAC	4841>4866
CGgapFWD4	18	CTAATGTGCCTTGGAACG	8041>8058
CGgapFWD5	24	TGCTCCTTGGAATGTTGATGACCT	6283>6306
CGgapREV10	24	ATTTAGCAGCAGTTGAGTTGATAC	6987<7010
CGgapREV11	17	CTCTCAAGCGGTGGTAG	8525<8541
CGgapREV12	22	TCCTTTCTGCGCCCTGTCTGAT	8763<8784
CGgapREV13	21	CCCAAGAACCCAAGGAACACA	7775<7795
CGgapREV16	24	CCACTCTCTGCCACATTCTCACAA	7492<7515
CGgapREV17	22	TCTCCGCTTCTTCCTGCCATAG	5968<5989
CGgapREV4	19	GCTACTGCTATTGCTGTGG	8674<8692
CGgapREV5	24	CAGCAGCAGTTGAGTTGACACCAC	6984<7007
IDRps38r	22	TTCTTTTCTTGCTGGTTCTGCG	8170<8191
JH09	30	TTAGGCATNTCCTATGGCAGGAAGAAGCGG	5957>5986
JH35F	22	TGARGGACAATTGGAGAARTGA	7648>7669
LPgag6R	24	AACATGGGTATTACTTCTGGGCTG	1281<1304
M6874F	22	ATTGTGCYCCAGCTGGTTTTGC	6874>6895
Mp24-1r	20	TCTCCYACTGGRAYAGGTGG	1549<1568
Opol25r	20	CATTCWGAATCCAGGTGGC	3771<3790
rt-inseqR2	26	GAAGTAAAYATAGTAACAGACYCACA	4023<4048

Supplemental Figure Legends

Supplemental Figure S1. Phylogenetic analysis of incomplete genomes. Individual neighbor joining phylogenetic trees of 7 new strains (red) with 75-90% genome coverage. Resulting length of alignment following gap-stripping is indicated for each.

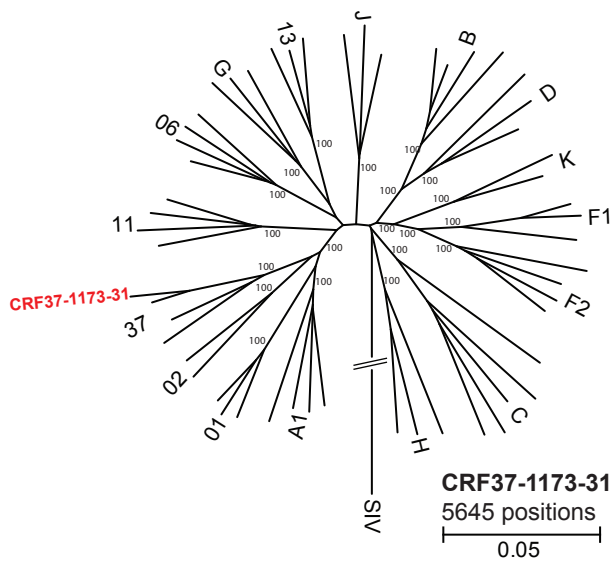
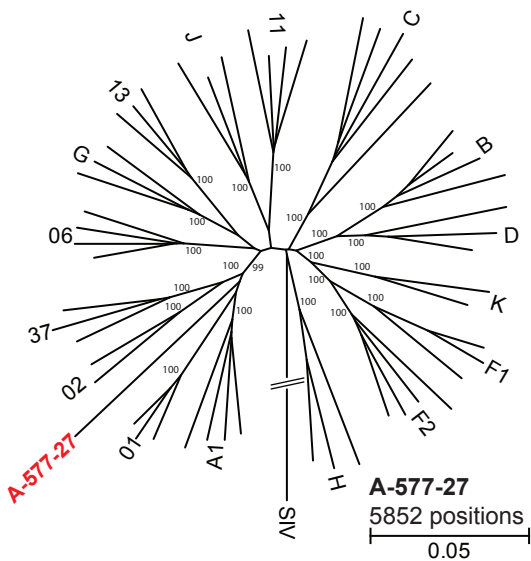
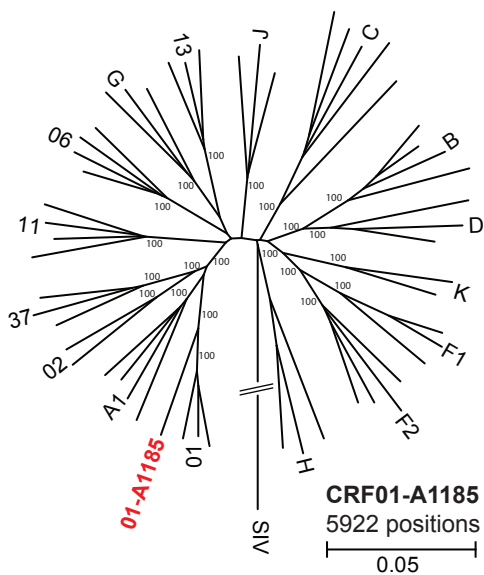
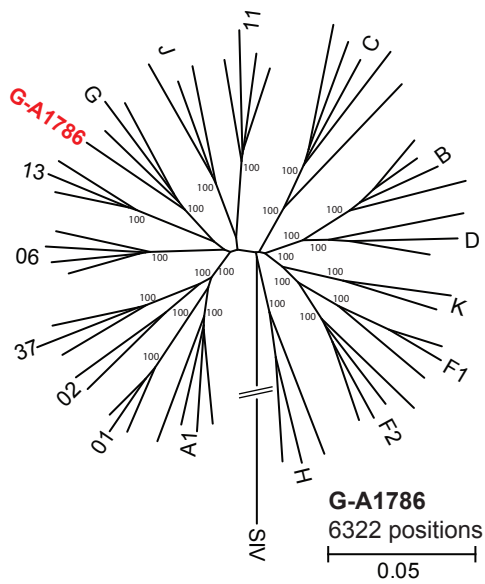
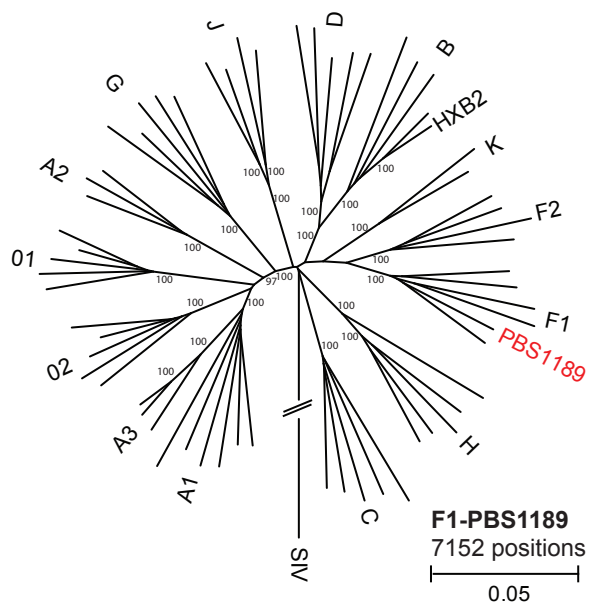
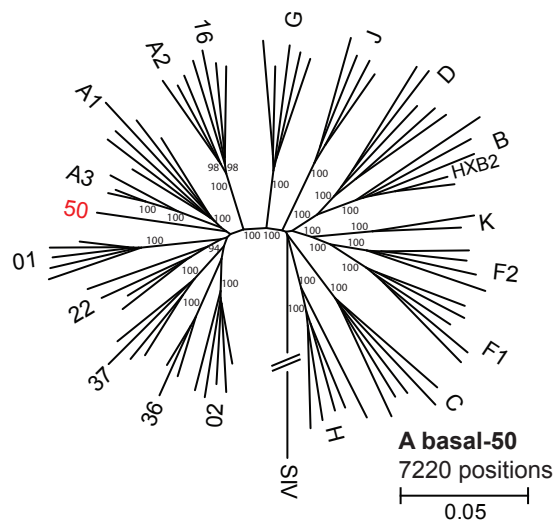
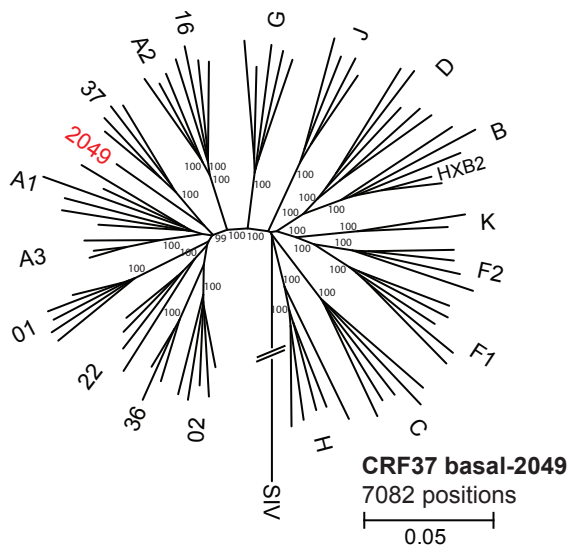
Supplemental Figure S2. Phylogenetic analysis of incomplete genomes. Individual neighbor joining phylogenetic trees of 8 new strains (red) with <75% genome coverage. Resulting length of alignment following gap-stripping is indicated for each.

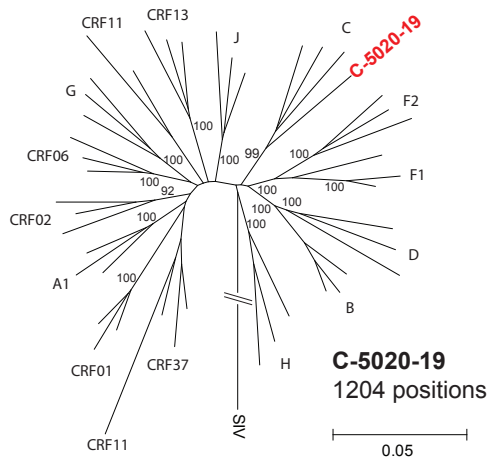
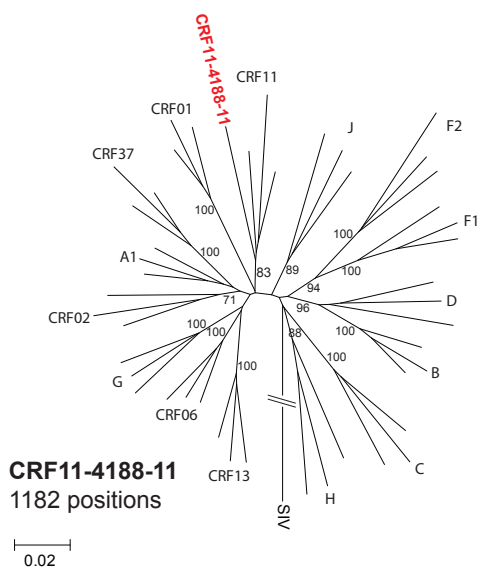
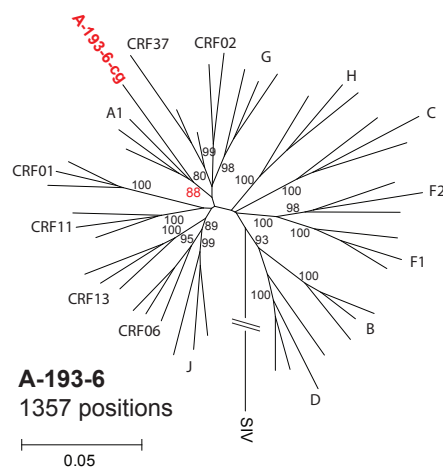
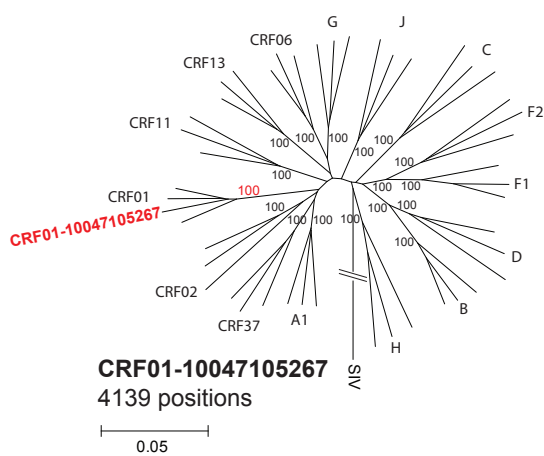
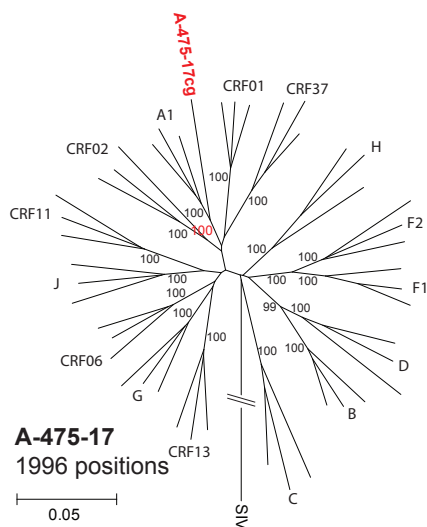
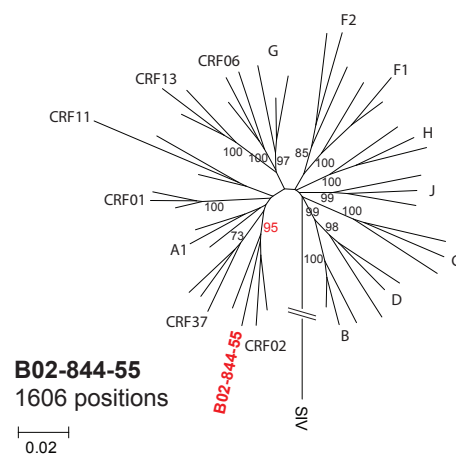
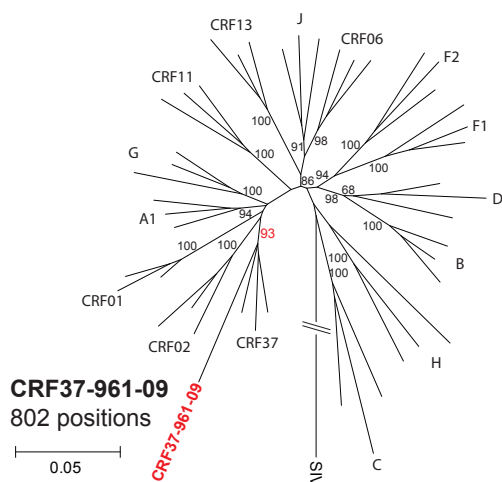
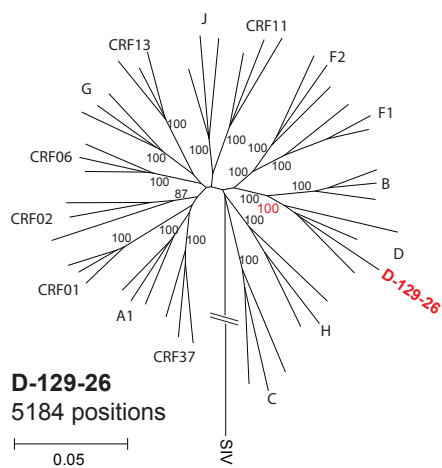
Supplemental Table Legends

Supplemental Table S1. HIV-xGen probes. Probe IDs and sequences (n=652) are listed along with genomic coordinates relative to consensus group reference or individual subtype consensus sequences.

Supplemental Table S2A. The consensus sequence identity was compared for 5 HIV-SMART datasets from Table 1 with matched xGen results. Exact PCR duplicates were removed from each dataset and a sequence identity matrix was performed. Total mapped reads and percent identity values between resulting consensus sequences are reported.

Supplemental Table S2B. Minor variant (MV) analysis was performed on the same 5 HIV-SMART datasets in **Table S2A**, once again with exact PCR duplicates removed from SMART and SMART-xGen datasets. Percent genome coverage and total MV >10% detected are listed. The datasets were then compared to each other over shared regions of coverage to determine the overlap in exact MV detected (e.g. sample genomic coordinate). Each cell lists the number of identical MV, followed by the percentage of this overlap relative to each dataset.





Supplemental Table S1. HIV-xGen Probes

SequenceName	Start	Stop	Sequence
176861_8776076_HIV1-Con_M_1_1	0	120	TGGAGAGGCTAATTTACTCCCAGAAAAGACAAGAGATCCTTGATCTGTGGGTCTACCAACACAAGGCTACTTCCCTGATTGGCAGAACTACACACAGGCGCCAGGGATCAGATATCCAC
176861_8776076_HIV1-Con_M_1_2	119	239	CTGACCTTTGGATGGTGTCTCAAGCTAGTACCAGTTGACCCAGAGGAGATAGAAAGAGCCAAATGAAGGAGAGAACAACCTGCTTGTACACCCATATGAGCCAGCATGGAATGGATGACCCG
176861_8776076_HIV1-Con_M_1_3	238	358	GGAGAAAGAAGTGTATGTGTGGAAGTTTGACAGCCGCCTAGCATTTCATCAGATGGCCCCAGAGAGCTGCATCCGGAGTACTACAAAGACTGCTGACATCGAGCTTTCTACAAGGGACTTTT
176861_8776076_HIV1-Con_M_1_4	357	477	CCGCTGGGGACTTTCCAGGGGAGCGGTGGCCTGGGCGGGACTGGGGAGTGGCTAACCCCTCAGATGCTGCATATAAGCAGCTGCTTTTTCGCTGTACTGGGTCTCTCTGGTTAGACAGAT
176861_8776076_HIV1-Con_M_1_5	476	596	TCTGAGCCTGGGAGCTCTCTGGCTAGTAGGGGAACCCACTGCTTTAAGCCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCTCTGTTGTGTGACTCTGGTAACCTAGAGAT
176861_8776076_HIV1-Con_M_1_6	595	715	TCCCTCAGACCCCTTTTAGTCAGTGTGAAAAATCTCTAGCAGTGGCGCCCCAACAGGGACTTGAAGCGCAAAGTAAACCAGAGAGAAGATCTCTCGACGCAGGACTCGGCTTGTGGAAGTGC
176861_8776076_HIV1-Con_M_1_7	714	834	CACACGGCAAGAGGCGAGAGGCGGCGACTGGTGAGTACGCCAAATTTTGTACTAGCGGAGGCTAGAAGGAGAGAGATGGGTGCGAGAGCGCTCAGTATTAAGCGGGGGAAAAATAGATGCA
176861_8776076_HIV1-Con_M_1_8	833	953	ATGGGAAAAAATTCGGTTAAGGCCAGGGGGAAAGAAAAATATAGACTAAAACATCTAGTATGGCGAAGCAGGGAGCTGGAAGAGATTGCACTTAACCCCTGGCCTTTTAGAAACATCAGA
176861_8776076_HIV1-Con_M_1_9	952	1072	AAGGCTGTAACAAAAATATAGGACAGCTACAACAGCTCTTCAGACAGGATCAGAGAAGAACTTAGATCATTATATAATACAGTAGCAACCCCTCTATTGTGTACATCAAAGGATAGAGGTAA
176861_8776076_HIV1-Con_M_1_10	1071	1191	AAAGACACCAAGGAAGCTTTTAGATAAGATAGAGGAAGAAACAAAACAAAGTCAGCAAAAAACACAGCAAGCAGCAGCTGCACAAAGGAAACAGCAGCCAGGTGAGTCAAAATACCCCTATA
176861_8776076_HIV1-Con_M_1_11	1190	1310	AGTGCGAATCTACAAGGGCAAAATGGTACACCCAGGCCATATCACCTAGAAGCTTTAAATGCATGGGTAAAAGTAATAGAAAGAGAAGGCTTTTACGCCAGAAAGTAATACCCATGTTTTCAGC
176861_8776076_HIV1-Con_M_1_12	1309	1429	CATTATCAGAAAGGAGCCGCCACAAAGATTAAACACCATGCTAAACACAGTGGGGGACATCAGAGCAGCATGCAAAATGTTAAAAGATACCATCAATGAGGAAGCTGCAAGATGGGACA
176861_8776076_HIV1-Con_M_1_13	1428	1548	AGGTTTACATCCAGTGCATGACAGGCGCTATTGCAACAGGCCAGATGAGAGAAACCAAGGGGAAGTGATATAGCAGGAACTACTAGTACCCCTTCAGGAACAATAAGCATGGATGACAAGCAAC
176861_8776076_HIV1-Con_M_1_14	1547	1667	CCCACCTATCCCAGTGGGAGAAATCTATAAAAGATGGATAATCCTGGGATTAAATAAAATAGTAAGAAATGTATAGCCCTGTCAGCATTTTGGACATAGACAAGGGGCCAAAAGAACCCCTT
176861_8776076_HIV1-Con_M_1_15	1666	1786	TTAGAGACTATGTAGACAGGTTCTTTAAAACTCTAAGAGCTGAGCAAGCTACACAGGAAGTAAAAAATTTGGATGACAGACACCTTGTGTGTCCTCAAAATGCGAACCCAGATTTGTAAGACCA
176861_8776076_HIV1-Con_M_1_16	1785	1905	ATTTTAAAAAGCATTAGGACCCAGGGGCTACACTAGAAAGAAATGATGACAGCATGTGAGGAGTGGGAGGACCCGGCCATAAAGCAAGAGTTTGTGCTGAGGCAATGAGCCAAGCAACAAAT
176861_8776076_HIV1-Con_M_1_17	1904	2024	TACAGCTACCATAATGATGACAGAGAGCAATTTTAAAGGCCAAAGAAGAATTGTTAAGTGTTCCTTCTGAGCAAGGAGACACATAGCCAGAAATTTGAGGGCCCTTAGGAAAAAGGG
176861_8776076_HIV1-Con_M_1_18	2023	2143	GCTGTTGGAATGTGGAAGGAAGACACCAAATGAAAGACTGCACTGAGAGACAGGCTAATTTTGGGAAAAATTTGGCCTTCCAACAAAGGGAGGCCAGGGAAATTTCTTCAGAGCA
176861_8776076_HIV1-Con_M_1_19	2142	2262	AGACCAGAGCCAACAGCCCCACCAGCAGAGAGCTTCGGGTTTCGGGGAGGAGATAAACCCTCTCCGAGCAGGAGCAGAAAGACAAGGAACCTGTATCCCTTAACCTCCCTCAAACTCACTC
176861_8776076_HIV1-Con_M_1_20	2261	2381	CTTTGGCAACGAGCCCTTGTCAATAAAAAATAGGGGACAGCTAAAGGAAGCTCTATTAGATACAGGAGATGATACAGTATTAGAAGACATAAAATTTGCCAGGAAAGTGAAGAACCA
176861_8776076_HIV1-Con_M_1_21	2380	2500	AAAAATGATAGGGGAATTTGGAGGTTTTATCAAAGTAAGACAGTATGATCAAACTACTCATAGAAATTTTGGGAAAAAGGCTATAGGTACAGTATTAGTAGGACCTACACCTGTCAACAT
176861_8776076_HIV1-Con_M_1_22	2499	2619	TAATTTGGAAGAAATATGTTGACTCAGATTGGTTGCACCTTTAAATTTTCCAATTAGTCCTATTGAACTGTACCCAGTAAATTAAGGCAGGAATGGATGGCCCAAGGTTTAAACATGGC
176861_8776076_HIV1-Con_M_1_23	2618	2738	CCATTGACAGAAGAAAAATAAAAGCATTAAACAGAAATTTGTACAGAAATGGAAGGAAGGAAAAATTTCAAAATTTGGGCCCTGAAATCCATACAATACTCCAGTATTTGCCATAAAG
176861_8776076_HIV1-Con_M_1_24	2737	2857	GAAAAAAGACAGTAAATTAAGGAGAAATTAGTAGATTTTCAGAGAACTTAAATAAAGAACTTCAAGACTTCTGGGAAGTTCAATTAGGAATACCCATCCAGCAGGGTTAAAGAAAGGAAAA
176861_8776076_HIV1-Con_M_1_25	2856	2976	AATCAGTAACAGTACTGGATGTGGGGATGCATATTTTTCAGTTCCTTAGTAGTAAGACTTCAGGAAGTATACTGCATTCACCATACCTAGTATAAACAATGAGACACCAGGGATTAGAT
176861_8776076_HIV1-Con_M_1_26	2975	3095	TATCAGTACAATGTGCTTCCACAGGGATGGAAGAGATCACCAGCAATATTCCAAAGTAGCATGACAAAAATCTTAGAGCCCTTTAGAAACAAAAAATCCAGAAATAGTTATCTATCAATAC
176861_8776076_HIV1-Con_M_1_27	3094	3214	CATGGATGATTTGTATGTAGGATCTGACTTAGAAATAGGGCAGCATAGAGCAAAAAATAGAGGAGTTAAGAGAACATCTATTGGAAGTGGGGATTTACCACACCAGACAAAAAACATCAGAA
176861_8776076_HIV1-Con_M_1_28	3213	3333	AAGAACCTCCATTCTTTTGGATGGGGTATGAACCTCCTTCGACAAATGGACAGTACAGCCTATACAGCTGCCAGAAAGGACAGCTGGAGCTGTCAATGATATACAGAAAGTTAGTGGGAA
176861_8776076_HIV1-Con_M_1_29	3332	3452	AAATTAATTTGGGCAAGTCAGATTTATCCAGGGATTAAAGTAAAGCAATTATGTAACTCCTTAGGGGAGCCAAAGCACTAACAGACATAGTACCAGTACTGAGAAAGCAGAAATTAGAA
176861_8776076_HIV1-Con_M_1_30	3451	3571	ATTGGCAGAGAACAGGGAATTTCTAAAGAAACAGGTACATGGAGTATATTATGACCCATCAAAAGACTTAATAGCAGAAATACAGAAACAAGGGCAAGACCAATGGACATATCAAAATTTA
176861_8776076_HIV1-Con_M_1_31	3570	3690	ATCAAGAGCCATTTAAAAATCTGAAAACAGGAAGTATGCAAAAATGAGGTCTGCCACACTAATGATGTAACAACTTAACAGAGGCAGTGCAAAAAATAGCCACAGAAAGCATAGTAA
176861_8776076_HIV1-Con_M_1_32	3689	3809	ATATGGGGAAAGACTCCTAAATTTAGACTACCCATACAAAAAGAAACATGGGAAACATGGTGGACAGAGTATTGGCAAGCCACCTGGATTCTCTGAGTGGGAGTTTGTCAATACCCCTCTCT
176861_8776076_HIV1-Con_M_1_33	3808	3928	TCTAGTAAATTTATGTTACAGTTAGAAAAAGAACCCATAGTAGGAGCAGAAACTTTCTATGTAGATGGGGCAGCTAATAGGGAGACTAAAATAGGAAAAGCAGGATATGTTACTGACAG
176861_8776076_HIV1-Con_M_1_34	3927	4047	GAGGAAGACAAAAAGTTGTCTCCCTAACTGAAACAACAAATCAGAAGACTGAATTACAAGCAATTCACTAGCTTTGACAGGATTGAGGATCAGAAGTAAACATAGTAAACAGACTCACAGT
176861_8776076_HIV1-Con_M_1_35	4046	4166	TATGCATTAGGAATCATTCACGACACACAGATAAGAGTGAATCAGAGTTAGTCAATCAATTAATAGAGCAGTTAATAAAAAAGGAAAAGGCTACCTGTGTCATGGGTACCAAGCACAAAA
176861_8776076_HIV1-Con_M_1_36	4165	4285	AGGAATTTGGAGGAAATGAAGAAAGTAGATAAATTAGTCAGTACTGGAATGACAAATGGAGACTCAATTTTATAGTGGAAATAGATAAGGCTCAAGAAAGAACATGAAAAATATCAGCAATTTGAG
176861_8776076_HIV1-Con_M_1_37	4284	4404	GAGCAATGGCTAGTGATTTTAACTGACCCTGTAGTAGCAAAAGAAATAGTAGCTAGCTGTGATAAATGTGACGTAAAGGGGAAGCCATGCATGGACAAAGTAGACTGTAGTCCAGGAA
176861_8776076_HIV1-Con_M_1_38	4403	4523	ATATGGCAATTAGATTGTACACATTTTGAAGGAAAAAATATCCTGGTAGCAGTCCATGTAGCCAGTGGCTATATAGAAGCAGAAAGTTATCCCAGCAGAAACAGGACAGGAAACAGCATAC
176861_8776076_HIV1-Con_M_1_39	4522	4642	CTTTATATTAATAATTAAGCAGGAAGATGGCCAGTAAAGAGTAATACATACAGACAAATGGCAGCAATTTGTGTGGCAGGTAGACAGGATGAGGAGGAGTAAAGGAGGATCAACAGGAATT
176861_8776076_HIV1-Con_M_1_40	4641	4761	TTGGAATTCCTACAATCCCCAAAGTCAAGGAGTAGTAGAATCTATGAATAAAGAAATTAAGAAAAATCATAGGACAGGTAAGAGATCAAGCTGAACATCTTAAGACAGCAGTACAAATGG
176861_8776076_HIV1-Con_M_1_41	4760	4880	GCAGTATTTCATTCACAATTTTAAAGAAAGGGGGGATTGGGGGTCAGGTGCAGGGGAAAGAAATAATAGACATAATAGCAACAGACATACAACTTAAAGAAATACAAAAACAATTTACA
176861_8776076_HIV1-Con_M_1_42	4879	4999	AAAAATTCAAAAATTTTCGGGTTTATTACAGGGACAGCAGAGACCCAAATTTGGAAGGACCAGCAAACTACTCTGGAAGGTTGAAGGGGCAGTAGTAATAACAAGACAAATAGTGAAATAAA
176861_8776076_HIV1-Con_M_1_43	4998	5118	AGGTATTACCAAGAAAGAAAGCAAGATCATTAGGAGATTATGGAACACAGATGGCAGGTGATGTTGTGTGGCAGGTAGACAGGATGAGGAAACAGGATGGAACATGGAAGGCTAGTAAAGCAC
176861_8776076_HIV1-Con_M_1_44	5117	5237	CCATATGTATGTTTCAAAGAAAGCTAAAGGATGGTTTTATAGACATCACTATGAAGCAGGCATCCAAAAATAAGTTCAGAAGTACACATCCCACTAGGGGATGCTAGATTAGTAGTAAC
176861_8776076_HIV1-Con_M_1_45	5236	5356	CAACATATTGGGCTGTGCATACAGGAGAAAGAGACTGCAATTTGGGTGAGGAGTCTCCATAGAAATGGAGGCAGAGAAGATATAGCACACAAGTAGACCTTGGCTGGCAGACCAACTAA
176861_8776076_HIV1-Con_M_1_46	5355	5475	ATTCATATGTATTATTTTGATTGTTTTTCAGAATCTGCCATAAGGAAAGCCATATTAGGACATATAGTTAGTCTTAGGTGTGAATATCAAGCAGGACATAACAAGGTAGGATCTCTACAA
176861_8776076_HIV1-Con_M_1_47	5474	5594	ATATTGTGCACTAACAAAGATTAATAACACCAAAAGACTTAAAGCCCTTGTGCTTAGTGAAGACTAGCAGAGGATAGATGGAAACAGGATGAGGAAACAGGCTAGGAGGCTAGAGAGGAG
176861_8776076_HIV1-Con_M_1_48	5593	5713	GCCATACAATGAATGGACACTAGAGCTTTTAGAGGAGCTTAAGAATGAAGCTGTAGACATTTTCCTAGGCCATGGCTCCATGGCTTAGGACAACATATCTATAACACCTATGGGGATAC
176861_8776076_HIV1-Con_M_1_49	5712	5832	CTTGGGAAGGAGTTGAAGCTATAATAAGAATACTGCAACAACTACTGTTTATTCATTTTCAGAAATTTGGTGGCCAGATAGCAGAAATAGGCATTATTTCGACAGAGAGAGTAAGAATGGAG

176861_8776076_HIV1-Con_M_1_50	5831	5951	GCCAGTAGATCCTAACCTAGAGCCCTGGAACCATCCAGGAAGTCAGCCTAAAACCTGCTTGTAAACAAATGTTATTGTAAAAAGTGTGCTATCATTTGCCAAGTTTGTCTTTATAAAGAAAGG
176861_8776076_HIV1-Con_M_1_51	5950	6070	GCTTAGGCATCTCCTATGGCAGGAAGAGCGGAGACAGCGACGAGAAAGACTCCCTCAAAGCAGCTCAGGATCATCAAAATCCTATACCAAGCAGCTAAGTAGTATATGTAAATGCAACCTTTAG
176861_8776076_HIV1-Con_M_1_52	6069	6189	GAAATATTAGCAATAGTAGCATTTAATAGTAGCACTAATAATAGCAATAGTTGTGTGGACCATGATGTATAGAAATATAGGAAATATAGGAAACAAAGAAATATAGACAGATTAATGAA
176861_8776076_HIV1-Con_M_1_53	6188	6308	AAGAATAAGAGAAAGAGCAGAAGACAGTGGCAATGAGAGTGAGGGGGATACAGAGGAATTTGTCAACACTTTGTGGAAATGGGGCATCTTGCTCCTTGGGATGTTAATGATCTGTAGTGTCTG
176861_8776076_HIV1-Con_M_1_54	6307	6427	GCAGAAAACCTTGTGGGTACAGTCTATTATGTGGGTACCTGTGTGGAAAGAAAGCAACACCACTCTATTTTGTGTCATCAGATGCTAAAGCATATGAAACAGAAGTACATAATGTCTGGGCT
176861_8776076_HIV1-Con_M_1_55	6426	6546	TACACATGCCTGTGTACCCACAGACCCCAACCCACAAGAAATAGTTCTGTGAAAATGTAAACAGAAAATTTTAAACATGTGGAAAAATACATGGTAGAACAGATGCATGAAGATATAATCAG
176861_8776076_HIV1-Con_M_1_56	6545	6665	GTTTATGGGATCAAGCCCTAAAGCCATGTGTAAGGTTAACCCCACTCTGTGTTACTTTAAACTGTACTGATGTTAATAATACTAATAATACTAATAATAATAATGGGAGAATGATGGAAG
176861_8776076_HIV1-Con_M_1_57	6664	6784	GAGAAAGAAAGAAATAAAAAAGTCTCTTTCAATATAACCACAGAAATAAGAGATAAGAAAGAAAGAAATATGCACCTTTTTTATAGACTTGATATAGTACCAATTAATAATAATAATAAT
176861_8776076_HIV1-Con_M_1_58	6783	6903	TAATAGTAATTTATAGGTTAATAAAATGTAAATACCTCAGCCATTACACAGGCTTGTCCAAAGGTATCCTTTGAGCCAAATTCCCATACATTATTGTGCTCCAGCTGGTTTTGCGATTCTAAA
176861_8776076_HIV1-Con_M_1_59	6902	7022	AGTGTAAATGATAAGAAGTTCAATGGAACAGGACCATTGCAAAAATGTGAGCACAGTACAATGTACACATGGAATTAAGCCAGTGGTATCAACTCAACTGCTGTTAAATGGCAGTCTAGCAG
176861_8776076_HIV1-Con_M_1_60	7021	7141	GAGAAGAGATAATAATTAGATCTGAAAATATCACAGACAATGCCAAAACCATAATAGTACAGCTTAATGAATCTGTAGAAATTAATGTACAAGACCCAACAACATACAAGAAAAAGT
176861_8776076_HIV1-Con_M_1_61	7140	7260	TATACGTATAGGACCAGGACAAGCATTTCTATGCAACAGGTGAAATAATAGGAGATATAAGACAAGCACATTGTAACATTAGTGGAAACAAAATGGAATAAACTTTACAACAGGTAGCTAA
176861_8776076_HIV1-Con_M_1_62	7259	7379	AAAAATTAAAGAGACACTTTAATAATAAAAACAATATCTTTAAACCATTCTCAGGAGGGGACCTAGAAATTAACAACACATAGTTTAAATTTGGTGAGGAGAATTTTTCTACTGCAATACAT
176861_8776076_HIV1-Con_M_1_63	7378	7498	TCAGGACTGTTTAAATAGTACATGGAATAATAATAGTAGTACTGAAGGGTCAATAACAGTAAAACAAGTACACTATCACACTCCCATGCAGAATAAAAAAAATATAAACATGTGGCAG
176861_8776076_HIV1-Con_M_1_64	7497	7617	GAGATAGGACAAGCAATGTTATGAGGATTTGGGGCTGCCATTGCAGGAAAAATTCAGAGTCAAAATGACCAAGTACTAATGACAAGAGATGGTGGTAAATAATAATAATAGATGAGACTT
176861_8776076_HIV1-Con_M_1_65	7616	7736	TCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTATATAAATAATAAAGTAGTAAAAATTAAGACCATTAGGAGTAGCACCCCAAGGCAAGAGAGAGTGGTGGAGA
176861_8776076_HIV1-Con_M_1_66	7735	7855	AGAGAAAAAAGAGCAGTGGGAATAGGAGCTGTGTTCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATGGGCGCAGCGTCAATAACGCTGACGGTACAGGCCAGACAATTTATTGTCTGGT
176861_8776076_HIV1-Con_M_1_67	7854	7974	TATAGTGCAACAGCAAAGCAATTTGCTGAGGGCTATAGAGGGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATTAAACAGCTCCAGGCAAGAGTCTGGCTGTGGAAAGATACCT
176861_8776076_HIV1-Con_M_1_68	7973	8093	TAAAGGATCAACAGCTCCTAGGGATTTGGGGCTGCTCTGGAATACTCATCTGCACCACTAATGTGCCCTGGAACTCTAGTTGGAGTAAATAATCTCAGGATGAGAAATTTGGGATAACATGA
176861_8776076_HIV1-Con_M_1_69	8092	8212	ACCTGGATGCAGTGGGAAAGAGAAATTAACAATTACACAGACATAATATACAGCTTAATTTGAAGAATCGCAAAACCAGCAGGAAAAGAAATGAACAAGAATTTATGGCATTGGACAAGTGG
176861_8776076_HIV1-Con_M_1_70	8211	8331	GGCAAGTCTGTGGAATTGGTTTGACATAACAAATTTGGCTGTGGTATATAAAAAATTTTCAATATGATAGTAGGAGGCTTGATAGGTTTAAAGAATAGTTTTTGTCTGTCTTTCTATAGTAAA
176861_8776076_HIV1-Con_M_1_71	8330	8450	ATAGAGTTAGGCGGGATACTACCTTTTGTCATTTTCAGACCCCTTATCCCAACCCGAGGGGACCCGACAGGCCCGAAGGAATCGAAGAAGAAGGTGGAGAGCAAGACAGACAGATCCA
176861_8776076_HIV1-Con_M_1_72	8449	8569	ATTCGATTAGTGAACGGATTTCTAGCACTTTGCTCGGGACGACTGCGGAGCCTGTGCTCTTTAGCTTACCACCGCTTGAGAGACTTCATCTTGATTGCGAGCGAGGACTGTGGAACCTCTG
176861_8776076_HIV1-Con_M_1_73	8568	8688	GGGACGCAGCAGTCTCAAGGGACTGCGAAGGGGGTGGGAAGCCCTCAAAATATCTGTGGAATCTCCTGCAGTATTGGGGTCAGGAACATAAGAAATAGTGCTATTAGTTTGCTTGATACCAC
176861_8776076_HIV1-Con_M_1_74	8687	8807	CAGCAATAGCAGTAGCTGAGGGGACAGATAGGGTTATAGAAGTAGTACAAGAGCTTTGAGAGCTATTCTCAACATACCTAGAAGAATAAGACAGGGCTTTGAAAGGGCTTTGCTATATAA
176861_8776076_HIV1-Con_M_1_75	8806	8926	AATGGGTGGCAAGTGGTCAAAAAGTAGTATAGTTGAGTGGCCTGCTGTGAAGGAAAGATAGACGAACTGCTCCAGCAGCAGAGGGGTAGGAGCAGTATCTCAAGACTTAGATAAACA
176861_8776076_HIV1-Con_M_1_76	8925	9045	TAGGGGCAATCAACAGCAGAATAACAGCAGCTACTAATGCTGACTGTGCTGCTGGCTGGGAAGCACAAGAGGAGGAGGAAGTAGGCTTCCAGTCAGACCTTCAGGTTCTTAAAGACCAATGA
176861_8776076_HIV1-Con_M_1_77	9044	9164	ACTTATAAGGCAGCTTTTGATCTCAGCCACTTTTTTAAAAGAAAAGGGGGGACTTGAAGGGTTAATTTACTCCAAGAAAAGACAAGAGATCCTTGATCTGTGGGTCTACCACACACAAGGC
176861_8776076_HIV1-Con_M_1_78	9163	9283	CTACTCTCCCTGATTGCGAGAATACACACAGGGCCAGGGATCAGATACCCACTGACCTTTGGATGTGTCTTCAAGCTAGTAGACAGTTGATCCAGAGGAGGTAGAAGAGGCCAATGAAGG
176861_8776076_HIV1-Con_M_1_79	9282	9402	GAGAGACAACACTCGTGTGTACCCATGAGCCAGCATGGAATGGAGGATGAAGAGCAGAGAAGTGTAAATGTGGAAAGTTTGACAGCCGCTAGCATGAGACATACAGCCCGAGAGCTGTC
176861_8776076_HIV1-Con_M_1_80	9401	9521	CATCCGGAGTTCTACAAAAGACTGCTGACACAGAAGTTGCTGACAGGGACTTTCCGCTGGGGACTTTCCAGGGGAGGCGTGGCTGGGGCGGACTGGGGAGTGGCTAACCCCTCAGATGCTG
176861_8776076_HIV1-Con_M_1_81	9520	9640	GCATATAAGCAGCTGCTTTTTCGCTGTACTGGGTCTCTCTGTGTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAGCTAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGA
176861_8776076_HIV1-Con_M_1_82	9639	9731	AGTGCTTTAAGTAGTGTGTGCCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTAGTCAGTGTGAAAAATCTCTAGCA
176861_8776077_Con_M_7056-7462-B_1_1	0	120	AAATPGCACTGATGTGAAGAATGTCTACTAATACCAATAGTACTAATACCAATAATAGTAGTAGGGAAGATGATTGAGGAAGAAGGAGAAATAAAAAAAGTCTCTTTCAATATTACCACAAG
176861_8776077_Con_M_7056-7462-B_1_2	119	239	GAATAAGAAATAAGGTGCAGAAAGAATATGCACCTTTTTTATAAACTTGATGTAGTACCAATAGATAATGATAGAATAATAATACCAGCTATAGGTTGGTAAGTTGTAATACCTCAGTCA
176861_8776078_Con_M_2467-2616-B_1_1	1	120	CAGAAGAGAGCTTCAGGTTTGGGGAAGAGACAACAACCTCCCTCTCAGAAGCAGGAGCCGATAGACAAGGAACCTGTATCCTTTAGCTTCCCTCAGATCACTCTTTGGCAACGACCCCTCG
176861_8776079_Con_M_6368-6796-B_1_1	0	120	AGCGACGAAGAGCTCCTCAAGACAGTCAGACTCATCAAGTTTCTCTATCAAAGCAGTAAGTAGTACATGTAATGCAATCTTTACAAATATTAGCAATAGTAGCATTAGTAGTAGCAGTAA
176861_8776079_Con_M_6368-6796-B_1_2	119	239	ATAATAGCAATAGTTGTGTGGTCCATAGTATTCATAGAATATAGGAAAAATTAAGACAAAAGAAAAATAGACAGGTTAATTGATAGAATAAGAGAAAAGCAGAGAAGCAGTGGCAATGAG
176861_8776079_Con_M_6368-6796-B_1_3	238	358	GAGTGAAGGGGATCAGGAAGAATTTATCAGCACCTTGTGGAGATGGGGCACCATGCTCCTTGGGATGTTGATGATCTGTAGTGCTGCAGAAAACTTGTGGGTACAGTCTATTATGGGGTAC
176861_8776080_Con_M_9296-9761-B_1_1	0	120	GAGACTTACTCTTGATTGTAACGAGGATTGTGGAACCTTCTGGGACGCAAGGGGTGGGAAGCCCTCAAAATATTGGTGGAATCTCCTACAGTATTGGAGTCAGGAACATAAGAAATAGTGTCTG
176861_8776080_Con_M_9296-9761-B_1_2	120	240	TTAGCTTGTCTTATGCCCACGCCATGACAGTAGCTGAGGGGACAGATAGGGTTATAGAAGTAGTACAAGAGCTTATAGAGCTATTCTCCACATACCTAGAAGAATAAGACAGGGCTTTGG
176861_8776080_Con_M_9296-9761-B_1_3	240	359	AAAGGGCTTGTATGAGCAGGGTGGCAAGTGTGTCAAAACAGTAGTGTGGGTGGAGCTGCTGTGAAGGAAAGAAATGAGACAGCTGAGCAGGTCAGGACAGATGGGGTGGGAGCAGTATTC
176861_8776081_Con_M_10162-10299-B_1_1	1	120	ACAACCTGCTTGTGTACACCCCTATGAGCCAGCATGGAATGGATGACCCGGAGAAAGAGTGTAGTGTGGAAGTTTGACAGCCGCTAGCATTTTCATCAGATGGCCCGAGAGCTGCATCCG
176861_8776082_Con_M_9697-9858-BD_1_1	1	120	CAGCAGCAGATGGGGTGGGAGCAGTATCTCGAGACCTGGAAAAACATGGGGCAATCACAAGTAGCAATACAGCAGCTACTAATGCTGACTGTGCTGCTAGAAGCACAAGAGGAGGAG
176861_8776083_Con_M_7056-7480-D_1_1	0	120	AAACTGTAGTGTGAATTTGAGGAACAATGGCACTATGGGGAACAATGTCTACTACAGAGGAGAAAGGAATGAAAACTGCTCTTTCAATGTAACACAGTACTAAAAAGATAAGAGCAGCA
176861_8776083_Con_M_7056-7480-D_1_2	119	239	AAGTATATGCATTTTTTATAGACTTGATATAGCAATAGACAAATAGTATAGTAGTATACCAATAGTACCAATATAGGTTAATAAATTTGAATACCTCAGGATTAACAGGCTTTGTCCAA
176861_8776084_Con_M_7722-8005-Dcm_1_1	0	120	CGAGCTTAACAATACTATAAACATTACTTGTATAAGGCCCTGGCAACAATAACAAGAAAAAGTATACATTTAGGACCAGGGCAGGCATTTCTATGCAAAAAATATAATAGGAGACATAAGAAA
176861_8776084_Con_M_7722-8005-Dcm_1_2	119	239	AAGCACATTGTAATATTAGTGGAAACAAATGGAATAACACTCTACAACAGGTAGCTAAAAAATTAGGAAAGCTCTATAACAAAAACAATAATTTTTAAACCATCTCAGGAGGGGACCCAG
176861_8776085_Con_M_180-486-D_1_1	0	120	CCACTGAAGGAGAGACAACACTGCTTGTGTACACCCCTATGTGCCAGCATGGAATGGAGGACCCGAGAGAGAAGTGTAGTGTGGAGATTTAACAGCAGACTAGCATTTGAACACAAGGCC
176861_8776085_Con_M_180-486-D_1_2	119	239	CAGAGCAGCATCCGAGCTTTACAAAAGCTGTCGACCCGAGGGGAAAGACTGTGACACCGGATTTTCTACAAGGACTTTCCGCTGAGGAGCTTTCCAGGAGGGCTGGCCCTGGGCGGG
176861_8776086_Con_M_2135-2263-D_1_1	1	120	GAGCCAAGCAACAAGTGCAGCTGCTGCAATAATGATGCAGAGAGGCAATTTTAAGGGCCCAAGGAAAAATTGTTAAGTGTTCACCTGTGGCAAGAAAGGGCAGATAGCAAAAAATTGCA
176861_8776087_Con_M_2138-2263-D_1_1	1	120	CCAAGCAACAAGTGCAAAATGCTGCTGCAATAATGATGCAGAGAGGCAATTTTAAGGGCCCAAGGAAAAATTGTTAAGTGTTCACCTGTGGCAAGAAAGGGCAGATAGCAAAAAATTGCA

176861_8776088_Con_M_180-506-A_1_1	0	120	CCACTGAGGGGAGAGAACAACAGCCCTATTACACCCCTATATGCCAACATGGAATGGATGATGAGGAGAAAGAGTGTAAATGTGGAAGTTTGACAGCCGCTGGCCTAAAAACACAGAGCCC
176861_8776088_Con_M_180-506-A_1_2	119	239	CGAGAGCTGCACTCCGGAGTTCTACAAAGACTGCTGACACAGAAAGTTGCTGACAAAGGGACTTTCCGCTGGGGACTTTCCAGGGGAGGTGTGGTTTGGGCGGAGTTGGGAGGTGGCTTAAGCCC
176861_8776089_Con_M_2545-2671-D_1_1	1	120	AGGAAGACAAGACAAGGAACCTGTATCCCTTAGCTTCCCTCAATCACTCTTTGGCCACGACCCTTGTGCACAATAAAGATAGGGGGACAGCTTAAAGGAAGCTCTATTAGATACAGAGG
176861_8776090_Con_M_6367-6649-D_1_1	0	120	CAGCGACGAAGACCTCCTCAAGGGCGGTGAGACTCATCAAGTTCTCCTGTACCAAAGCAGTAAGTAGTATGTAATGCAACCTTTTAGAGATATTAGCAATAGTAGCATTTAGTAGCGCTA
176861_8776090_Con_M_6367-6649-D_1_2	119	239	AATAATAGCAATAGTTGTGTGGACCATAGTATTCTATAGAATATAGGAAAAATAAAAGGCCAAGAAAAATAGACTGGTTAATTGATAGAATAAGAGAAAGAGCAGAAGACAGTGGCAATGA
176861_8776091_Con_M_7722-8002-D_1_1	0	120	ACAGCTTAAATGAATCTGTAGAAATTAATTGTACAAGGCCCTACAACAATAACAAGACAAAGTACACCTATAGGACCAGGGCAAGCACTCTATACAACAAGAATAATAGGAGATATAAGACA
176861_8776091_Con_M_7722-8002-D_1_2	119	239	AAGCACATTGTAATATTAGTAGAACAGAATGGAATAAAAACTTTACAACAGGTAGCTAAAAAATTAGGAAAACCTTTTAAACAAGACAACAATAAATTGTTAAACCATCCTCAGGAGGGGACC
176861_8776092_Con_M_9296-9436-D_1_1	1	120	AGACTTAAATCTTAATTGACGCGAGGATTGTGGAACCTCTGGGACGCGAGGGGGTGGGAAGCCCTCAAATATCTGTGGAATCTCCTGCACTATTGGAGTCAGGAACTGAAGAAATAGTGCTA
176861_8776093_Con_M_10162-10299-D_1_1	1	120	ACAACCTGCTTGTGTACACCCCTATATGCCAGCATGGAATGGAGGACCCGGAGAGAGAAGTGTAGTGTGGAGATTTAACAGCAGACTAGCATTTGAACACAAGGCCCGAGAGAAAGCATCCG
176861_8776094_Con_M_7056-7507-A1_1_1	0	120	ACATTGTACAAATGTCAAAAGTGTCAACACCCTGGAGACAGGGGAAGGCTTAAAAAACTGCTCTTTCAATATGACCACAGAACTAAGGGATAAGAGACAGAAAGTATATTCACTTTTTTA
176861_8776094_Con_M_7056-7507-A1_1_2	119	239	ATAGACTTGATATAGTACCAATTAATGAAAATCAGGGTAGTGAATATAGATTAATAAATGTGAATACCTCAGCCATTACACAGGCGTGCCCAAAAGGTATCCCTTTGAGCCAATTCCCTATAC
176861_8776095_Con_M_9726-9875-A_1_1	1	120	GGAGTAGGAGCAGTATCTCAAGATTTAGATAAACATGGAGCAGTCACAAGCAGGAATATAAATCACCCTAGTTGCGTCTGGCTGGAAGCGCAAGAGGAAGAGGAGGTAGGCTTTCCAGT
176861_8776096_Con_M_2122-2259-A_1_1	1	120	TGGCTGAGGCAATAGAGTCAAGTACAACATACAAACATAATGATGCAGAGAGGCAATTTTAGGGGCCAGAAAAAGAAATTAAGTGTTTCAACTGTGGCAAAAGAGGACACCTAGCCAGAAAT
176861_8776097_Con_M_2475-2621-A_1_1	1	120	GAGAGCTTTGGGATGGGGGAAGAGATAACCTCCCCCTCTGAAGCAGGAGCAGAAGAACAGGGAACAGCACCCTCCTTCAGTTTCCCTCAAACTCACTCTTTGGCAACGACCCCTTTGTCA
176861_8776098_Con_M_2545-2674-A_1_1	1	120	AGAAGACAGGGAACAGCACCCTCTTCAGGTTCCCTCAAACTCCTTTGGCAACGACCCTTTGCACAGTAAAAATAGGAGCAGCTTAAAGGAAGCTCTATTAGATACAGGAGCGAG
176861_8776099_Con_M_6362-6629-A_1_1	0	120	GGAGACACCGACGAGGAACCTCCTCAGAGCAGTAAGGATCATCAAAATCCTATACCAAAGCAGTAAGTATTAGTAATTAATATATGTAATGACTCCTTTGGAAATCTGTGCAATAGTAGGA
176861_8776099_Con_M_6362-6629-A_1_2	119	239	ACTGATAGTAGCGTTAATCTTAGCAATAGTTGTGTGGACTATAGTAGGTATAGAATATAAAGAAATGCTTAAGACAAAGGAAAAATAGACAGGTTAATTGAAAGAAATAGAGAAAGAGCAGA
176861_8776100_Con_M_9726-9869-A_1_1	1	120	GGAGTAGGAGCAGTATCTCAAGATTTAGATAAACATGGAGCAGTCACAAGCAGTAATACAGCAGCTACTAATGCTGATTGCGCTGGCTGGAAGCGCAAGAGGAAGAGGAGGTAGGCTT
176861_8776101_Con_M_10126-10263-A_1_1	1	120	CAGATGAAGTAGAAGAGGCTACTGAGGGAGAGAACAAACAGCCTATTACAGCCTATATAGCCAAACATGGAATGGATGATGATGAGAGAGAAGTGTAAATGTGGAAGTTTGACAGTCCGCTG
176861_8776102_Con_M_7056-7483-02_1_1	0	120	AGAATGTGGTAACGTCAACAAAAACAATTTCACTGACAAAAACATGAAAGAGGAAAAATAAACTGCTCTTACAATGCAACCACAGAAATTAAGAGATAAGACACAGAAAAATATATTCCT
176861_8776102_Con_M_7056-7483-02_1_2	119	239	TTTTTTATAGACAGGATGTGGTACAAATTGATGAAAACAATAGTCATGGTAGAAAACAGTAGTAATAGGTATAGACTGATAAATTGTAATACCTCAACCAATTACACAGGCTTGTCCAAAGG
176861_8776103_Con_M_305-489-cr02_1_1	1	120	TGCATCCGGAGTTCTACAAGACTGCTGACACAGAAGTTGCTGCAATGCTGACATGAAGTTGCTGACAGGGACTTTCCGCTGGGGACTTTCCGGGGGAGGTGTGGTTTGGGAGGAGTT
176861_8776104_Con_M_716-875-cr02_1_1	1	120	ACTCTAGACGGTGTAAAAAATCTCTAGCAGTGGCGCCGAACAGGGGACGGAAATTAAGAGGGACTCGAAAGCGAAAGTTCCAGAGAAGTTCTCTCGACGCGAGGACTCGGCTTGCTGA
176861_8776105_Con_M_7056-7480-G_1_1	0	120	AAACTGTACTAATGTCAACCACCACCCTAATGGTACTATAGATAATAGCAATAATATACCGTGGATGGTAAAGAAAGAAAAACCAATTGTTCCCTCAATATAACCACAGAAATAAGAGA
176861_8776105_Con_M_7056-7480-G_1_2	119	239	ACAAAATAAGGCAGGAATACGCGCTTTTCTATAAACTTGATGTAGTACCAATTAATAATGATAATAGAAGTTATATGCTAATAAATTGTAATGTCTCATCCATTAAACAGGCTTGTGCCAA
176861_8776106_Con_M_297-505-G_1_1	1	120	CCGAGAGCTGCATCCGGAGTACTACAAGACTGCTGACACAGAAGTTGCTGACAAGGACTTTCCGCTGGGACTTTCCGGGAGGCGCGGCTGGGAGGGCTGGGAGTGGCTGAACC
176861_8776107_Con_M_716-870-G_1_1	1	120	ACTCTAGACAGTGTAAAAATCTCTAGCAGTGGCGCCGAACAGGGACTTGAAGCGAAAGTTAATAGGGACTCGAAAGCGAAAGTTCCAGAGAAGTTCTCTCGACGCGAGGACTCGGCTT
176861_8776108_Con_M_1141-1537-G_1_1	0	120	GAAACAGCAGAAGGTTGTCAACAAATAATGGGACAGTTGCAACCAGCTCTCCAGACAGGAACAGAGGAGATTAGATCATTTATTTAATACAGTAGCAACCCCTCTATTGTTGACATCAAAG
176861_8776108_Con_M_1141-1537-G_1_2	119	239	GATAGAGGTAAAAAGACACCAAAGAGCTCTAGAGGAAGTGGAAAGATACAAAAGAAAGTGCAGCAAAAAATACAGCAGGCAGCAAAAGGATGAAGGAACAGCAGCCCAAGTCAGCCAAAAA
176861_8776108_Con_M_1141-1537-G_1_3	238	358	ATTATCTCTATAGTGTGCAAGATGTGCAAGGGCAAATGGTACACAGGCCATATCACTTGAACCTTTGAATGCATGGGTAAAAAGTAGTAGAAGAAAAGGCCTTCAGCCACAGAAGTAATACCCA
176861_8776109_Con_M_2122-2250-G_1_1	1	120	TAGCTGAGGCAATGAGCCAGGCATCAGGTGCAGCAGCAGCCATAATGATGCAGAAAAACAATTTTAAGGGCCCAAGAAGAAATATTAAGTGTTTCAACTGTGGCAAGGAAGGACATCTA
176861_8776110_Con_M_6363-6630-G_1_1	0	120	GAAACACCGACGAGGAACCTCCTCAGAGCAGTAAGGATCATCAAATCCTGTACCAAAGCAGTAAGTAGTAATAATTAGTATATGTAATGCAATCATTAGAATATCTGCAATAGTAGGAC
176861_8776110_Con_M_6363-6630-G_1_2	119	239	CTAATAGTAGCATTATAGCAGCCATAGTTGTGTGGACCATAGTATTTATAGAATATAGGAAAAATAAGAAAAACAGAAAAAATAGAAAAAGTTACTTGATAGAATAAGAGAAAGAGCAGAA
176861_8776111_Con_M_9713-9862-G_1_1	1	120	AGAAGGAGTAGGAGCAGTATCTCAAGATTTAGATAAGCATGGAGCAATCAAGCAGCAATACAGAGCAGTATGAGGACCAATAATCCTGATTGTGCTGGCTGGAAGCAACAAGAGGAGGATTGAGAGG
176861_8776112_Con_M_10126-10263-G_1_1	1	120	CAGCAGAGGTAGAGGAAGCCAATAAAGGAGAGAACACAGTTTATTACACCCCTCTGCCAGCATGGAATGGAGGACGAAGACAGAGAAGTGTGGTATGGAGATTTGACAGGAGCCCTA
176861_8776113_Con_M_7056-7435-C_1_1	0	120	AGAATGTGGAATGTTAGTGTGTAGCAATGTTAGTGTGTAGCAATACTACCAGGGGATGCAAAATGTTACCCCAATAGGGGTGCAAAATGAAATAAAAAAATTGCTCTTTCAAGATAGCCAC
176861_8776113_Con_M_7056-7435-C_1_2	119	239	CAGAATTAAGAGATAAGGAGCAGAAAGTGTATGCGCTTTTTATAGACTTGATATAGTACAACCTTAATGATAGTAGTAACCTCTAGTAGTAGTAATAACTCTAGTAAGTATAGTAAGTATA
176861_8776114_Con_M_187-478-C_1_1	0	120	AGGAGAGACAACCTGTTTGCTACACCCCTATGAGCCAGCATGGAATGGAGGATGAACACAGAGAAGTATTAAGTGGAAAGTTTGACAGTATCCTAGCAGCAGACACATGGCCCCGCGAGCT
176861_8776114_Con_M_187-478-C_1_2	119	239	TACATCCGGAGTATTACAAGACTGTGACACAGAAGGGACTTTCCGCTGACACAGAAGGGACTTTCCGCTGGGACTTTCCACTGGGGCGTTCCAGTGGGGCGTTCTAGGAGGAGTGGTGC
176861_8776115_Con_M_2390-2554-C_1_1	1	120	GAA'TTTCCTTCAGAGCAGACCAGAGCCCAACAGCCCCACCGCCAGAGCCAACAGCCCCACCAGCAGAGAGCTTCAGGTTTCAGAGGAGACAACCCCCGCTCCGAAGCAGGAGCCGAAAGACA
176861_8776116_Con_M_6307-6562-C_1_1	0	120	TGTCCTAGTTTGCTTTTCAGACAAAAGGCTTAGGCATTTCCCTATGGCAGGAAGAAGCGGAGACAGCGACGAAGCGCTCCTCCAAGCAGTGAGGATCATCAAATCCTATATCAAAGCAGTAA
176861_8776116_Con_M_6307-6562-C_1_2	119	239	AGTACTAAATAGTATATGTAATGTAGATTAAATAGCAAGAGTAGATTAGATTAGTATAGTACCAATATCATAGCAATGATGTGTGTGACCAATATCATAGCAATGATGATATATAG
176861_8776117_Con_M_7722-7999-C_1_1	0	120	ACATCTTAATGAATCTGTAGAAATTGTGTGTACAAGACCCAACAATAATAACAAGAAAAAGTATAAGGATAGGACCAGGACAAGCATTCTATGCAACAGGAGACATAATAGGAGACATAAG
176861_8776117_Con_M_7722-7999-C_1_2	119	239	GACAAGACATTTGTAACATTAGTAAAAATAAATGGAATAAACTTTACAAAAGGTAAGGGAAAAAATAGAAAAACACTTCCTAATAAAAAAATAAATTTGAACCAACCTCAGGAGGGG
176861_8776118_Con_M_9712-9864-C_1_1	1	120	CAGAGGGAGTAGGAGCAGCGTCTCAAGACTTAGATAAACATGGGGCACTTACAAGCAGCAACACACCCGCCAATAATGCTGATTGTGCTTGGCTGGAAGCGCAAGAGGAGGAAGAAAGAA
176861_8776119_Con_M_10169-10309-C_1_1	1	120	TTTGCTACACCCCTATGAGCAGCATGGAATGGAGGATGAACACAGAGAAGTAAAGTGGAAAGTTTGACAGTCACTAGCAGCAGACATGAGCCCGCGAGCTCATCCGGAGTATT
176861_8776120_Con_M_7056-7476-F1_1_1	0	120	AAATTTGTAATAATGCCACTACCACCAATGACACTCTCTCTGACCAAAGCAGTACCTCGAAGGAAGAACAGGGGCAATACAAAATCTGTCTTTCAATATGACCACAGAAGTAGAAGATAA
176861_8776120_Con_M_7056-7476-F1_1_2	119	239	AGAAGCAGAAAGTACATGCGCTTTTTTATAGACTTGATATAGAACCAATCAGCAATAATAATAGCAGGGAAGAAATATAGGCTAATAACTTGTAAATACCTCAACCAATTACACAGGCTTGTG
176861_8776121_Con_M_297-450-F_1_1	1	120	CAGAGAGAAACATCCGGAGTTCTACCAAGACTGAGACTGTGACACAGAGATTGCTGACATAGAAGATTAGAGATTGCTGACATAGAAGATTCTAAGGGGACTTTCCGCTGGGGACTTT
176861_8776122_Con_M_1104-1363-F_1_1	0	120	GAGACTAGAACGATTTGCACTTTGATCCTGCGCTTTAGAAAACATCAGAAAGTGTGCAGAAAAATAATAGGACAGCTACAACCATCCCTTCAGACAGGATGACAAGAGCTTAGATCATTTATA
176861_8776122_Con_M_1104-1363-F_1_2	119	239	ATAATACAGTAGCAGTCTCTATTATGTACATCAAAGATAGAGGTAAGGACACCAAGGAAGCTTTAGATAAGCTAGAGGAAGAACAAAAAAGTGCAGCAAGACACAGCAAGCGG
176861_8776123_Con_M_2545-2674-F_1_1	1	120	AGAAAGACGAGGACAGTATCCTCCCTTAGCTTCCCTCAATCACTCTTTGGCAACGACCCTTAGTCACAATAAAGTAGGGGGGAGCTAAGGGGAAGCTCTATTAGATACAGGGGCGAG

176861_8776124_Con_M_5536-5658-F2_1_1	1	120 ATCCAAGAGTAAAGTTCAGAAGTACACATCCCCTAGAGGATGATTCTAAATTAGTAATAGTAACCTATTGGGGTCTACATACAGGAGAAAGAGATTGGCATTGGGTCAAGGAGTCTCC
176861_8776125_Con_M_6299-6693-F_1_1	0	120 GCTTTTCATTGCTACTGGTGCTTTTACAACGAAGGGCTTAGGCATCTCCTATGGCAGGAAGAAGCGGAGACAGCGACGAAGAACTCCTCAAGAGCAGTCAGATACATCAAGATCCTGTACCA
176861_8776125_Con_M_6299-6693-F_1_2	119	239 AAGCAGTAAGTATTGTAAAGTAGTATATGTAGTCATATTGTGTACCAATAGCAATAGTACTTAATAGTACCTAATAATAGCAATAGTTGTGTGGACTATAGTATATAGAAAT
176861_8776125_Con_M_6299-6693-F_1_3	238	358 ATAAGAAACTGTTAAAGGCAAAGAAAATAAATAGGTTATATGAAAGAAATAAGAGAAAGAGCAGAGACAGTGGCAATGAGAGTGAGGGGGATGACAGAGGAATTGGCAGCACTTGGGGA
176861_8776126_Con_M_9296-9558-F_1_1	0	120 GAGACTTCATATTAATTGCAGCGAGGACTGTGGACAGGGGACTGAGGAGGGGGTGGGAAGCCCTCAAATATCTGTGGAATCTCAGCGAGTATTGGAGTCAGGAACTAAGAAATAGTGC
176861_8776126_Con_M_9296-9558-F_1_2	119	239 ATTAGTCTGCTTAATACCACAGCAATAGTAGTAGCTGAGGGGACAGATAGAGTTATAGAAGCTTTGCAAGAGCTGGTAGAGCTGTTCTCAACATACCTAGAAGAAATAAGACAGGGCTTT
176861_8776127_Con_M_9700-9858-F_1_1	1	120 CAGCAGAAGGGGTGGGAGCAGTGTCTCAAGACTTAGATAGACGGGGGGCAATTACAAGCAGCAATCTGGAGCTACTAATCTCTGACTTGGCCTGGCTGGGAAGCACAAGAGGAAGAGGA
176861_8776128_Con_M_180-299-02FGHJK_1_1	1	120 CAATGAAGGAGAGAAACAACAGCTTATTACACCCCATGTGCCAACATGGAATGGAGGATGAAGACAGAGAAGTACTGATGTGGAAGTTTGACAGCAGCCTGGCACTGAGACACATAGCCC
176861_8776129_Con_M_892-1032-H_1_1	1	120 AGGCGAGGGGCGGCGCAGCTGGTGAGTACGCCGAAAAATTTTATTTTGACTAGCGGAGGCTAGAAGGAGAGAGATGGGTGCGAGAGCGTCAGTATTAGCGGGGAAAAATTAGATGCT
176861_8776130_Con_M_6305-6587-H_1_1	0	120 ATTGCCAATTGTGCTTTTTTAAAGAAAGGCTTAGGCATTTCTATGGCAGGAAGAAGCGGAGACAGCGACGAGGAACCTCTGCAAGTTTGCAAGATCATCAAAATCCTATACCAAGCAGT
176861_8776130_Con_M_6305-6587-H_1_2	119	239 TAAGTATCATAAATGTATATATTAGGAATAGGAATAGGAGCACTAGTAGTAGCAATTTATCATAGCCATAATTGTGTGGACCATAGTATATAGAAATAGGAACCTGGTAAAGCAAAAG
176861_8776131_Con_M_7722-7999-H_1_1	0	120 ACAGCTTAATGAACCTGTAGAAATTAACGTGTACCAGACCTAACAATAATACAAGAAAAAGTATACATATAGGGCCAGGACAAGCATTCTATGCAACAGGTGACATCATAGGAGATATAAG
176861_8776131_Con_M_7722-7999-H_1_2	119	239 GACAGACACATTGTAATATTAGTGGAAAAAATGGAATAAGACTTTACACAAGGTAGTTACACAATTAAGAAAAACACTTTAACAAATAAAACAATAATTTTTAAACCATCCTCAGAGGGG
176861_8776132_Con_M_9300-9440-H_1_1	1	120 TTACTCTTGATTGTAGCGAGGACTGTGGAACCTCTCTGGGGAGAAGGGGGTGGGAAGCCCTCAAATATCTGTGGAATCTTCTGCAGTATTGGGGACAGGAGCTAAAGAATAGTGCTATTAA
176861_8776133_Con_M_9712-9861-H_1_1	1	120 GATCAGGTCCCTCTGGCAGTAAAGATCAATCAAGATCTTATACCAGAGCAGTAGTAAGTACACTACAATAACAGCAGCTACTAATCTCTGATTCCGCTGGAGCACAAGAGGAAAGAGGA
176861_8776134_Con_M_304-488-HJ_1_1	1	120 ATGCATCCGGAGTTCTACAAAGACTGCTGACACAGAAGATGCTGACAATGCTGACACGGAGGATTCTACAGGGACTTTCCGCTGGGGACTTTCCAGGGGAGGTGTGGTCTGGGCGGGT
176861_8776135_Con_M_1134-1411-J_1_1	0	120 CCTCTAGAGTTCAGCAAAAGGCTGTCAACAATACTAGTAGAGCTCCAACAGGCTCTTCAGACAGGAACAGAGAAATAAATCATTATATAATACAGTAGCAACCCCTCTATTGCGTACA
176861_8776135_Con_M_1134-1411-J_1_2	119	239 ATCAGAGGATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAACCTTCAAAACAAAAACAAGCAGCAGGCACAGAAAGCAGAACTGACAAAAAGACAACAGTCAGGTCA
176861_8776136_Con_M_6374-6793-J_1_1	0	120 GATCAGTCCCTCTGGCAGTAAAGATCAATCAAGATCTTATACCAGAGCAGTAGTAAGTAAATCAATTAGCATATGTGAATGATACCTTTACAAATAGCAGCAATAGTAGCATTAATAGTAGAT
176861_8776136_Con_M_6374-6793-J_1_2	119	239 TTTTCTCTGCAATAGGTGTGTGGACTATAGTGTATATAGAATATAGGAACTGTTAAGACAAAGGAAAAATAGATAAGTTAATTGATAGAATAAGAGAAAGAGCAGAAGACAGTGGTAAC
176861_8776136_Con_M_6374-6793-J_1_3	238	358 CGAGAGTGATGGAGACACAGATAGTTGGCAAACTTGTGGAGATGGGGCCTCATGATCTTTGGAATGTTAATGATTTGTAATGCTACAGAAAACTTGTGGGTACAGTCTATTATGGGG
176861_8776137_Con_M_7722-7999-J_1_1	0	120 ACACTTAATGAACTGTAGAAATATTGTGTACCAGACCTAACAACAATACAAGAAAAGGTATACACATGGGACCAGGACAAGTGCTCTATGCAACAGGGGAAATAATAGGAGATATAAG
176861_8776137_Con_M_7722-7999-J_1_2	119	239 GAAAAGCACATTGTAACATTAGTGGAAAAGATTGGAATTAACACTTTACGTAGAGTAGCTACAAAACCTAAAGAGAACACTTTAATAATAAAACAATAAACTTTACATCACCTCAGGAGGG
176861_8776138_Con_M_9296-9559-J_1_1	0	120 GAGACTTCGCTCTGTATTGCAGCGAGGACTGTGGAACCTCTGGGACTCAGGGGGTGGGAGATCCTCAAATATCTGGGGAACCTTGTATGGTATTGGGGCAGGAACCTAAAGAATAGTGCTA
176861_8776138_Con_M_9296-9559-J_1_2	119	239 ATTAGTTTGCTTAATACCACAGCAATAGCAGTAGCTGAAGGAAACAGATAGAATCATAGAAATAGTACAAAGAGCTTTTAGAGCTATTCTTTCACATACCTAGAAGAAATAAGACAGGGTTTA
176861_8776139_Con_M_10126-10263-J_1_1	1	120 CAAGCGAAGTAGAGGAAGCTAATGAAGGAGAACCACTGCCTGTTACACCCCATATGCCAGCATGGAATAGAGGATGAAGAAAGAGAAGTGTTAATGTGGAAGTTTGACAGCTCCCTA
176861_8776140_Con_M_9296-9436-K_1_1	1	120 AGACTTAATCTTAAATTCGCGAGCGGATTTCTGGAAGGGGACTGAGGGGGGGTGGGAAGCCCTCAAATATCTGTGGAACTCTGTGGAACCTGGTACAGATTAGGGGTGAGAACTAAGTGCCA
176861_8776141_Con_M_6931-7050all_1_1	1	120 ATGTAACAGAAAAATTTAACATGTGGAAAAATAACATGGTAGAACAGATGCATGAAGATATAAATCAGTTTATGGGATCAAGCCCTAAAGCCATGTGTAAAGTTAACCCCACTCTGTGTT
176861_8776142_Con_M_7470-7589-all_1_1	1	120 GCTTGTCCAAAGGTATCCCTTTGAGCCCAATTGCCATACATTTATGTGCTCCAGCTGGTTTGTGCGATTCTAAAGTGTAATGATAAGAAAGTTCAATGGAAACAGGACCATGCAAAAATGTGAG
176861_8776143_Con_M_8341-8460-all_1_1	1	120 AGAGCTTCAGAGCTGAGAGTAGGAGGACAATTGAGGAAGTGAATTATATAATATAAGTAGTAAAAATTGAAACCCTAGGACCTAGGAGTAGCACCACCAAGGCAAGAGGAAGAGTG
176861_8776144_HIV1-ConN_1_1	0	120 TTCTCGCTTGACTGGGTCTCTCTGTGCTGGACCAGATTAGAGCCTGGGAGCTCTCTGGCTAGCAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCCTGAGTGCTAAAGTGGTGTGT
176861_8776144_HIV1-ConN_1_2	119	239 TGCCCATCCATTTCGGTAACTCTGGTACTCTAGAGATCCCTCAGACCACTAGACTGAGTGAAAAATCTCTAGCAGTGGCGGCCGAACAGGGACTTGAAAAAGTAGAACCAGGAGGCTG
176861_8776144_HIV1-ConN_1_3	238	358 GAATCTCTCAGCAGCAGGACTCGGCTCGTTGGTGCACACAGCGAGGCGAGGCGGGGGAAGTGTGAGTAGCACAATTTTGACTGGCGGTGGCCAGAAAGTAGGAGAGAGGATGGGTGCGAG
176861_8776144_HIV1-ConN_1_4	357	477 GAGGCTCAGTGTTAAACAGGGGGAAAAATTAGATCAATGGGAAGCAATTTATTTTGAGACCAGGGGGGAAGAAAAAATACAGAATGAACACTTTAGTATGGGCAGAGGGGAGCTGGAAGAT
176861_8776144_HIV1-ConN_1_5	476	596 TTCGCTTGTAACCCAGGTCTCATGGACACAGCGGACGGCTGTGCCCAGTTACTAAACCAATTAGAACCAGCTCTCAAGACAGGGTCAGAAGGACTGCGCTCTTTATATAACACCCCTAGCA
176861_8776144_HIV1-ConN_1_6	595	715 AGTTCTTTATGTGTCCATAGTAGAATAACAGGTACACAATACACAAGAAGCTTTGGACAAGATAAAAGAGAAAAAGGAACAGCACAAGCCCGAGCCAAAAAACCAGAAAGCAGGGGCAGC
176861_8776144_HIV1-ConN_1_7	714	834 CGGCAGCAGCTGATAGCAATATCAGTAGGAATTTATCCTCTAGTCCAGAAATGCTCAAGGACAAATGGCACATCAGCCGCTGACACCCAGAACTTTAAATGCTTGGGTAAAAAGTGATAGAGG
176861_8776144_HIV1-ConN_1_8	833	953 GAGAAGGCCTTTAATCCAGAAGTAATACCAATGTTTATGGCCTTGTGAGAAGGGGCAACAGCCCTCAGATCTAAATACTATGTTTAAATACAGTAGGAGGACATCAGGCAGCTATGCAGATG
176861_8776144_HIV1-ConN_1_9	952	1072 GCTAAAGGAAGTCATCAATGAGGAAGCAGCAGAATGGGACAGGACGCATCCAGTCCCTGTGGGACCCTACCCCAAGGCAACTGAGAGAACCTAGAGGAAGTGATATAGCAGGGACAAC
176861_8776144_HIV1-ConN_1_10	1071	1191 CTAGTACTCTGGCAGAACAGGTGGCATGGATGACTGCTAATCCTCCTGTTCACAGTAGGAGATATTTATAGAAGATGGATAGTTCTGCGGTTAAACAGAATTTGTGAGAAATGATATGCTCTG
176861_8776144_HIV1-ConN_1_11	1190	1310 CTAGCAGATTCTAGAGATCAAAACAAGGACCAAAAGAACCCTTTAGAGACTATGTAGACAGGTTCTACAAACCTTTAAGAGCAGAGCAGGCAACACAGGAAGTAAAGAATTTGGATGACAGAA
176861_8776144_HIV1-ConN_1_12	1309	1429 AACACTCTTAGTACAAAATGCAAAACCCAGATTGTAACAGATCCTCAAGACATTTAGAACCATTCAGGCGCAGGAGCTACCTTAGAAGAGATGATGACAGCCCTGAGGAGCAGGACCATAA
176861_8776144_HIV1-ConN_1_13	1428	1548 AGGCAAGAGTGCTAGCAGAGGCTATGTACAGGTACAGGCAACAACCTAGTGTCTTTTGCACAAAGGGGAAACTTTAAAGGCATAAGGAAAAACCTTAATGTGTTCAATTGTGGCAAAAGAGG
176861_8776144_HIV1-ConN_1_14	1547	1667 GGCCATTGGCAAGAAACTGTAAGGCCCTTAGAAGAGGGGGCTGTTGGAAGTGTGGGCAAGAAGGACATCAAATGAAAGATTGTAAAAATGAAGGAAGACAGGCTAATTTTTTAGGAAAG
176861_8776144_HIV1-ConN_1_15	1666	1786 GGGCTGGTCTCCCTTCAAAGGGAGACAGGAAACTTCCCCAGACAACAACAAGGAAAGAGCCACAGCCCGCCACTAGAGAATTATGGGTCTCAGGAGGAGAGGAGCACACAGGGGAA
176861_8776144_HIV1-ConN_1_16	1785	1905 AGGAGATCCAGGAGAAACAGGAGAAGACAGAGAATCTCTGTACCAACCCTTAACCTTCCTTCAGATCACTCTTTGGCAACGACCCGTCATCAGTAAAAATAGGAAAAAGAGTAAGAGA
176861_8776144_HIV1-ConN_1_17	1904	2024 AAGCTCTTTTAGATACAGGAGCTGATGATACAGTAATAGAAGAAATACAATTAGAAGGAAAAATGGAACCAAAAAATGATAGGAGGAATTGGAGGATTATCAAGTAAGACAATATGATA
176861_8776144_HIV1-ConN_1_18	2023	2143 AATATAACAGTAGACATACAAGGAAGAAAAGCAGTTGGTACAGTGTTAGTAGGACCAACACCTGTTAATATTATAGGAAGAAACCTTTTAAACAGATTTGGCTGTACTTTAAATTTTCCA
176861_8776144_HIV1-ConN_1_19	2142	2262 AATAAGTCTATTGAACTGTACCAGTAAAAATTAACACAGGAATGGATGGCCCAAGGTAACCAATGGCCTTTGACAGCAGAAAAATAGAGGCATTAAAGAGAAATTTGTACAGAAAT
176861_8776144_HIV1-ConN_1_20	2261	2381 TGGAAAAAGGAGAAAAATTTCTAGAAATAGGGCCTGAGAATCCATATAACACTCCAATTTTTGCTATAAAAAAGAAAGATAGCACTAAATGGAGAAATTTAGTGAATTTTACAGGGAATTA
176861_8776144_HIV1-ConN_1_21	2380	2500 AATAAAAGGACCAAGATTTTGGGAAGTGCAGCTAGGAATTCACATCCAGCAGGATTAAGCAGAAAAAATCAGTGACAGTTTATAGATGTAGGAGATGCTTATTTTTCATGTCCCTTA
176861_8776144_HIV1-ConN_1_22	2499	2619 AGATGAAGATTTTAGAAGATATACAGCTTTTACCATACCTAGTATAAATAATGAGACACCTGGTATTAGATACCAGTATAATGTGTTGCCACAGGGATGGAAGGGGTACCAGCAATTTT

176861_8776144_HIV1-ConN_1_23	2618	2738	TTCAAAGTTCATATGACAAAAATTCTAGAACCATTTTAGAAAGAAACATCCAGAGATAATCATTTTATCAGTACATGGATGACCTCTATGTGGGACTCTGACTTAGAACTAGCACAACATAGAG
176861_8776144_HIV1-ConN_1_24	2737	2857	GAGACAGTAGAAGAACTTAGAGGTCATCTTTTGAAGTGGGGCTTTACGACCCCTGACAAAAAACATCAAAGGAGGCCACCGTTCTCTTGGATGGGATATAGAGCTCCATCCAGATAAATGG
176861_8776144_HIV1-ConN_1_25	2856	2976	GACGGTCCAGCCCAATAAAGTTACCAGAAAAGGATGTATGGGACTCTCAATTGATATACAAAAATTAGTAGGAAAGTTAAATTTGGGCAAGTCAGATCTATCCAGGAATCAAAGTCAAGCT
176861_8776144_HIV1-ConN_1_26	2975	3095	TTTGTAGATTAACTAGAGGAACAAAAGCTTTGACAGAAGTAGTCACTTTTACAAAAGAACGAAATAGAACTAGACAGAAAACGGGAGATATTAAAGAACCCCTCATGGAGTCTATT
176861_8776144_HIV1-ConN_1_27	3094	3214	TATGACCCAGGAAAAGAATTAAATAGCAGAAATTCAAAAAACAGGACAAGGTCAGTGGACATATCAGATTTATCAGGAGTCATATAAAAAATTTAAAAACAGGAAAGTATGCAAAAAATGAGA
176861_8776144_HIV1-ConN_1_28	3213	3333	ATCTGCCCATCTAATATGATATAAAACAGTTAGTTGAAAGTGATACAAAAAGTGGCAACAGAAAGTATAGTAATTTTGGGGAAAGACTCCTTAAGTTTAAATTTACAGTACAAAAGAGTGGTGTG
176861_8776144_HIV1-ConN_1_29	3332	3452	GGGAGGCATGGTGGACTGAGCAATTGGCAAGCAACTTGGATTCTCTGAGTGGGAATTCGTCACACTCTCCCTTTGTAATAATTTAGGTATCAGTGTAGAAACAGAGCCAACTGAGTGGGCG
176861_8776144_HIV1-ConN_1_30	3451	3571	GAAACATACTATTAGTAGTGGAGCAGCTAATAGAGAAAACAAATTTGGGAAAGCAAGGTTTGTGTGACAGTATAGAGAAAGCAAGAAAGTGGTCTTATTGAAGACACCAATCAAAGGCT
176861_8776144_HIV1-ConN_1_31	3570	3690	TGAGTTACAAGCTATCCTTTATGGGCTTACAAGAGTCAGGACAGGAAGTAACATAGTCACCTGACTCTCAGTATGCTATGGGAATAATTCACTCACACCAGATAAAAGTGAATCAGAAATT
176861_8776144_HIV1-ConN_1_32	3689	3809	TTGGTGAGCCAAATTAATAGAGAACTCATAAAAAGGAAAGAGTTTATCTCTCTGGGTATCCCTGCACATAAAAGGATTTGGAGAGTAATGAGCAGAGTAGACAAATTTAGTTAGCTCAGGAATTA
176861_8776144_HIV1-ConN_1_33	3808	3928	AGAAAAGTATTATTCTCTAGATGTATAGAAAAGCCCAAGGAAGATCATGAAGAATATCAGAGTAATTTGGAGAGCAATGGCCGAGTTTAACTTACCCCTCATGTGGCAAGAAAATA
176861_8776144_HIV1-ConN_1_34	3927	4047	AGTAGCCAGCTGTGACAAATGCCAGCTAAAAGGGGAAGCCATGCGATGGACAGGTCAATTGTAGTCCAGGAGTGTGGCAGTTAGATTGTACACACTTAGAAGGAAAAATCATTTCTTGAGC
176861_8776144_HIV1-ConN_1_35	4046	4166	CAGTCCATGTGGCCAGTGGCTACTTTAGAAGCAGAAGTTATTCTCTGCAGAAACAGGACAGGAACACAGTATTTTATTTTAAAGTTAGCTGGGAAGTGGCCAGTAAAAGTTATACACACTG
176861_8776144_HIV1-ConN_1_36	4165	4285	GATAAATGGACCCCAATTTCCACTAGTGCCACTGTAAAAGCAGCCGTGTGGTGGGCAAAATATCAAAACAGGAATTCGGGATACCCCTACAATCTCACAAGTCAGGGAGCAGTAGCTCCATGAAT
176861_8776144_HIV1-ConN_1_37	4284	4404	TAAAGAATTAGAAAAAATTTAGGACAATCAGAGATCAAGCAGAGTCACTAAAAACAGCAGTGCAAAATGGCGGTTTTCATTCCAAATTTTAAAGAGAAAGGGGGGTTTGGGGGTTACAC
176861_8776144_HIV1-ConN_1_38	4403	4523	CTGCAGGGGAAAGAATAATAGACATAATAGCAACAGACATACAGACAACAAAAATTTACAAACACAAATTTTAAAAGTTCAAATTTTTCGGGTTTATTACAGAGACAGCAGAGATCCCATTTT
176861_8776144_HIV1-ConN_1_39	4522	4642	TGGAAAGGACCCAGCCAACTCTCTGTGAAAGGAGAGGGGGCAGTGGTAATCCAAGATAACGGGGATATAAAAGTAGTCCACAGTAGGAAAGCAAAAAATAATTAGGGATTATGGGAAACAG
176861_8776144_HIV1-ConN_1_40	4641	4761	GATGGCAGGTGTGGTGTGTGTGGCAAGTGGACAGGATGAAATCAGGACATGGAAATGTATGTGTCTCAAAAAGGCAAAAGGGTGGTATTATAGACATCATTT
176861_8776144_HIV1-ConN_1_41	4760	4880	TATGAACAACAATCACTCCAAAATAAGTTCAAAGTACATATCCAGTAGGTGAGCGCAAGTAGTAGTGAATACCTTATTTGGGACATAACAACAGGAGAAGGCTTGGCATCTTAGAGATCT
176861_8776144_HIV1-ConN_1_42	4879	4999	TGGAGTATCCATAGAATGGAGACTAAGAAAATACAAGACACAAGTTGATCCTGAAATGGCAGACAAGCTAATACATCTTTTATTATTTTAATTGTTTTACAGCCTCTGCCATAAGGCAAGC
176861_8776144_HIV1-ConN_1_43	4998	5118	CGGTCTTAGGGAGACAGGATTATCTAGTGTGAATATCCAGCAGGGCACAACAGAGTAGGCGACTTACAATATCTAGACATAACAGCTGGGTGGGAGTAAGAAGAGAGAAGCCACCT
176861_8776144_HIV1-ConN_1_44	5117	5237	TTACCTAGTGTGATCAAGTTAACAGAAATAGATGGAACAGCAGACAGAGACGAGGGCCACAGAGGGAAACCCCTATAATGAATGGGCACATAGAATTTATTAGAAATTTAAAAAATGAAG
176861_8776144_HIV1-ConN_1_45	5236	5356	CGTGTGCGCATTTTCCAAGGATTTGGCTACATGGGTTAGGACAACACATCTATAACACATATTTGGAGACACCTGGGAGGGGGTAGAGCAATTTACAGATACATACAAATTTACTGTTT
176861_8776144_HIV1-ConN_1_46	5355	5475	TATCCATTATAGGATTGGCTGCCAGCACAGCAGAATAGGGATTACTCTCAAAGGAGAAAGGAATGGAGGCGAGTAGACTCTAGATATAGAGCCTGGAATCATCCAGGAAGCCCAACCCAGCA
176861_8776144_HIV1-ConN_1_47	5474	5594	ACAGCTTGCAATATTTGCTATGTAAAAAGATGTTGCTATCACTGTATGTGTTGTCTACAAAAGAAAGGCTTAGGCATCTCATATGGCAGGAAGAAGCGGAGTCAACGACGACGAAGCACTCT
176861_8776144_HIV1-ConN_1_48	5593	5713	TAAAGAGCTAGAAGATCTAAGATCTCATACAGCAGTAGTAAAGCTGTATATGCTTGGGATTTAGTACGCTTAGGATAGCAATTAATATAGCAGTAAATATCTGGGT
176861_8776144_HIV1-ConN_1_49	5712	5832	TATTACTATATAAAGAATATAAGAAAAATAAATTCAGGAAAAATAAAACAAATAAGACAGAGAATAAGAGATAGAGCAGAAGATAGTGGCAATGAGAGTGATGGGGATGAGAGTGGT
176861_8776144_HIV1-ConN_1_50	5831	5951	TTGGCCACTCTCTCTCTCTGTATAAGCTTGATAATTGGGTTCTGAACAACATTTGGGTAACAGTGTAATAGGAGTACCAAGTGTGAGAGACGCAGAGACAGTCTTTCTTCGCGCTTCAGA
176861_8776144_HIV1-ConN_1_51	5950	6070	ATGCTAAAGCCCATAGTACAGAGGCTCACAACTCTGGGCCACAAGCATGTGTTCCCACTGATCCCAATCCACAAGAAAGTGTCTATTACCCAAATGTAACTGAAAATTTTAATATGTGGG
176861_8776144_HIV1-ConN_1_52	6069	6189	GAAAATAGGATTGGCAGACAATAAGCAAGGACATTTAGCATTTATGGGAACAGAGCTTAAAGCCCTGTGTTTAAATTAACCCCAATATGTGTCTAATCTGTCTGTAAACATAGCAATGGG
176861_8776144_HIV1-ConN_1_53	6188	6308	GAATAACAATGAGACAGTTACAACAAGGAATTTAGACATAGGAGACAAACAAATGAAAAATTTGCTCATTAATGCAACCACCTGAGATAAAAGATAAAAAGAAGCAAGTTTACTCTCTGTT
176861_8776144_HIV1-ConN_1_54	6307	6427	TTTATGACAGAAGATGTAGTACCAATCAATGATGCAACTTAATAATAAAACATATAGGCTTAATAAATTTGTAATACCAAGCTGTGACACAGCTGTGCTTAAGACTCTCTTTTGAGCCAACTG
176861_8776144_HIV1-ConN_1_55	6426	6546	CCAATACATCTACTGTGTCACCCAGGCTTTGCCATTATGAATGTGATTAAGAGAACTTTAGTGGAAATGGAAATGTAAAAATGTAAATGTACAAATGCACATAGCAATAGGAATAAGGCCA
176861_8776144_HIV1-ConN_1_56	6545	6665	AGTGATATCACTACTGTGTTAATCTTAATGGAAGCTTAGATACAGATGATTTGTTTATTAGAAATGATAGTGTGGGAATCTGTGTGGTCAATGGAATGAGACAGTGTCAATAAATTTGTAC
176861_8776144_HIV1-ConN_1_57	6664	6784	CAAGGCCAGGAATAATACAGAGGACAGGTCAGATAGGACCTGTCTATGACATTTTATAACATAGAGAAAATAGTAGGAGACATTAGACAAGCACACTGTAATGTCTTAAGAGAGATT
176861_8776144_HIV1-ConN_1_58	6783</		

176861_8776144_HIV1-ConN_1_75	8806	8926	GAAGAAGCTAATGAAGGAGACAACAATGCCCTCTTGCATCCCATATGTCAACATGGAGTAGATGATGATCACAAAGAAGTGCTGGTGTGGCGGTTTGACAGCTCCTTGGCAAGAAGACAC
176861_8776144_HIV1-ConN_1_76	8925	9045	CGTAGCAAGAGAGCTGCATTCGGGACTTTTACAAGAACTGTGTGACAAGGGGACTTTACTGCTGACAAGGGACTTTACACTTGGGGACTTTCCGCGCAGGGACTTTCCAGGGAGGTGTGGTGTGG
176861_8776144_HIV1-ConN_1_77	9044	9164	GGGGAGTGGCTTGCCCTCAGGCTGCATAAAAGCAGCCGCTTCTCGCTTGTAATGGGTCTCTCTTGCTGGACCAGATTAGAGTCTGGGAGCTCTCTGGGTACAGGGAAACCCCATGCTTAA
176861_8776144_HIV1-ConN_1_78	9163	9276	AAGCCTCAATTAAGCTTGGCTTTAGTGTGCTTGTGCGCATTCATTCGTGAATCTGTTAGCTCTAGAGATCCCTGACACCATCTAGAGATGGAGTAAATCTCTTAGCA
176861_8776145_N-5843-5988_1_1	1	120	AGAAGATAGTGGCAATGAGAGTGATGGGGATGCAGAGTGGTGGGTGACAAGGAGAGTGTGGGGATGATGAGTGGTGGCCATTCTCTGTCTCTCTGATAAGCTCGATAATTGGGTCT
176861_8776146_N-5872-6021_1_1	1	120	TGGGGATGCAGAGTGGTGGATGGGATGAAGAGTGGTGGTGTACTCTTCTATCTTCTAGTAGAGTCTTAATCAAGGTAATTTGGGTCTGAACAACATTTGGGTAAACGCTGACTATGGGGTA
176861_8776147_N-6001-6120_1_1	1	120	TAACGATGTACTATTGAGGTACCGATTGGAGAGACGCAGAGACAGTCTTTCTTTCGCTCTTCAGATGCTTAAGGCCCATAGCTACAGAGGCTCACAACATCTGGGCCACACAGCATGTGTT
176861_8776148_N-6161-6280_1_1	1	120	ACTAGAAAAATTTAATGTGGGAAAAATAAATGGCAGAAACAAATCAAGAGGACATTAATCAGTTTATGGGAACAAGAGCTTAAGAGCCCTGTGTTAAATTAACCCCATTTAGTTGTAACTA
176861_8776149_N-6284-6528_1_1	0	120	TTTGTAACAATAGCAATGGGAATGTGACAGAGGGTAATGGAACATAACAGTAGCAGTGAAAAATGTGGCAAGGAATAGTGAGACAAGGAAAAACAATAGCCTAGACATAGGAGACAACAACAA
176861_8776149_N-6284-6528_1_2	119	239	ATGAAAGATTTGCTCATTTCAATGCACAACCATGAGATAAAAGATAAAAAAGAACGAAGTTTACTCTCTGTTTATGCAAGAAGATGTAGTACCAATCAATGACAGTGCAGATGACAATATAAACCA
176861_8776150_N-6601-6720_1_1	1	120	CAATTCAAATACCTATTGCTGCACCAACCCAGGCTTTGCCATTATGAAGATTAATGAAGAACTTTAGTGAAGATGGAAATGTAGTACTGTACAAATGCACATGGAATA
176861_8776151_N-6747-6866_1_1	1	120	CTAAATGGAAGCCTAGATACAGATGATATTGTTTATTAGGAATAGTAGTGATAGCAATACAGAGTGGTGATCTGTGTTGGTGAATGGAATAAAGACAGTGTCAATAAAATTGTACAAGGCCAGG
176861_8776152_N-7277-7396_1_1	1	120	CAACATTAAGTGGCATGATTTCTAGAATATAGTGAAGATAGTAAAGTAGGGCACTGGCACAACACAGCAGCATATATCCCTCAGGAGGAAACATGGTTGATCTCTGGAGACAAGAGATTGACACA
176861_8776153_N-8581-8703_1_1	1	120	TAGTAGGATGGCCAGCAGCTCAGAGAAAGAATGAGAAGGGCCAGACAACCTCAAGAAGACAGCAGCAGGAGCAGAGCAGCAGTAGGAGTAGGAGGAGCAGTTTCTCAAGACCTAGCTAATCGCA
176861_8776154_N-8791-8910_1_1	1	120	GCTTTCCAGTACGCCCTCAGGTACCATTTAGGCCCAATGACCTATAAGACAGCTTTTGATCTTCTCTTCTTTTAAAGAAAAGGGGGGAGCTTAAGAGGGGTAGTTTGGTCTCAGAAAAGG
176861_8776155_HIV1-Con_O_1_1	0	120	TGGATGGGTAAATTTACTCCCATAAAGAGACAGAGATCCTGGATCTTTGGGTGTATCACTACTCAGGGATTCTTCCCTGATTGGCAGAACTACACACCAGGACCAGGAACCGATTCCCAC
176861_8776155_HIV1-Con_O_1_2	119	239	CTGACATTTGGATGGTTATTTAAAGCTAGTACCAAGTGTGAGAAGATGAGGCAGAAAGACTAGGAAATAAAGTGTGAGAGGGCTAGTCTCTCGTAGCCAGCTTTGTAACCATGGCTTTGAAGAT
176861_8776155_HIV1-Con_O_1_3	238	358	TCAACACGGGGAATACTGAAATGGCAGTTTGTATAGATACATAGGCCAACCCCATGTTGCTATGATACATCCCCAGAGCTCTCCCCAAGGACTAAAACCTGCTGACCTGAAGATTGCTGT
176861_8776155_HIV1-Con_O_1_4	357	477	GACACTCTCGGGAGCTTTCCAGCAAGACTGCTGACACTCGCGGGAGCTTTCCAGCGTGGGAGGATAGGGGCGGTTGCGGGAGTGGCTAACCTCAGATGCTGCATATAAGCAGAGGCTTTCT
176861_8776155_HIV1-Con_O_1_5	476	596	CTGCTGTACCGGGTCTCGGTTAGAGGACCAGGCTGAGCCCGGGAGCTCCCTGGCCTCTAGCTGAACCCGCTGCTTAACGCTCAATAAAGCTTGCCCTTGAGTGAGAAGCAGTGTGTGCT
176861_8776155_HIV1-Con_O_1_6	595	715	TCATCTGTTCAACCGCTGGTATCTAGAGATCCCTCAGATCAGTGAAGTGAAGCAAAAAATCTCTAGCAGTGGCCGCCCAAGCAGGAGCTTGAAAGAGAAAGTGAACACGGAGAGAAACCC
176861_8776155_HIV1-Con_O_1_7	714	834	CTCCGACGCCAACCGGCTCGGCTTAGCGGAGTGCACCCGCTAAGAGGCGAGAGAACTACAGAGGGTGAGTAAATTTGCTGGCGGTCGCCAGACCTAGGGGAAGGCGGAGGACTCTTAGGG
176861_8776155_HIV1-Con_O_1_8	833	953	GGAGGAAGATGGGTGCGAGAGCGTCTGTGTTGACAGGAGCAAAATGGATGCATGGGAACAAATTAGGTTAAAGCCAGGATCTAAAAGAAATATAGGCTAAAAACATTTAGTATGTGGCAA
176861_8776155_HIV1-Con_O_1_9	952	1072	AGCAGGGAGCTGGAAGAAGTTTGCATGTAAATCCTGAGCTACAGTAAACCTGACAGAGGTAATGAGAAATGTTACAGCAGTTAGAGCCAGCTCTCAAGACAGGGGTGAGAAAGAGAGAAACCC
176861_8776155_HIV1-Con_O_1_10	1071	1191	ACTCTGGAACACAATAGCAGTGCTCTGGTGTGTTCAACAACAGATATAAAAGTGAAGATACGCAGCAGGCAATACAAAAGTTAAAGGGAAGTATGGGGAGCAGGAAGTCTGCAGGTGCCCG
176861_8776155_HIV1-Con_O_1_11	1190	1310	CTAAGGAAGACACAAGCGCAGAGCAGAGCTCAAAATTTACCTGTAGTATACCAATGCGCAAGATCGGTACCAATGGCTACCGCCCTCTCCCGAGAGCTTTAAATGCTATGGGTAAAGGACG
176861_8776155_HIV1-Con_O_1_12	1309	1429	GTAGAAGAAAAGGCCCTTTAAACCCTGAAATCATTCTTATGTTTATGTCATGCGATTGTGAGAGGGAGCTATTCCCTATGATATTAATACTATGCTAAATGCCATAGGAGGACATCAAGGGGCTTTA
176861_8776155_HIV1-Con_O_1_13	1428	1548	ACAAGTGCTAAAGGAAGTAAATCAATGAGGAAGCAGCAGATTGGGATAGAATCACCACACAGCGGTAGGGCCGTTACCACCAGGGCGAGATAAGGGAACCAACAGGAAGTGACATTGCTGG
176861_8776155_HIV1-Con_O_1_14	1547	1667	GACAACTATGACCCACGCAAGAGCAAGTTTCACTGGATTACCAAGGGCCACAACCACTATCCCCAGTAGGAGACATCTATAGAAAATGGATGTAGGACTAAACAAAATGGTAAAAAATGGT
176861_8776155_HIV1-Con_O_1_15	1666	1786	TAAGCTCCAGTGAGCATCTTAGATATTAACAGGGGACCAACGAAGCACTTTAGAGACTTGTAGATCGGTTCTACAAAAGCTTAAGAGCTGAGCAAGCTCAAGAAGTAAAAAATGGG
176861_8776155_HIV1-Con_O_1_16	1785	1905	GATGACAGAAAACCTGCTTGTGTTCAAAATGCCAACCCAGATTGCAACACAGATTTTGAATCATTAGGGCCAGGAGCTACCTTAGAAGAGATGATGGTAGCCTGTGTCAGGGAGTAGGAGGACC
176861_8776155_HIV1-Con_O_1_17	1904	2024	CACCTCATAGGGCCAGCATATAGCAGAAGCAATGGCTACAGCCAGCAGAGATCTAAAAGGAGGATACACAGCAGTATCTATGCAAAAGGGGCAAAAACCCCAATTAGGAAGAGGGCCTATAAA
176861_8776155_HIV1-Con_O_1_18	2023	2143	AAATGTTTCAACTGTGGAAAAGGGGACATATAGCAAAAAATTTGCGACACCTTAGAAAGAAAGTTGCTGGAAATGTGGACAGGAAGGTACCAAAATGAAAGATTGCAAGAAATGGAATA
176861_8776155_HIV1-Con_O_1_19	2142	2262	CAGCGCAAAATTTTGTAGCAAAATCTGGCTCCGGGGGGCAGAGGCCAGGCAATTTATGTGCGAAGAACAGTGCCTCCCAAGGCCCAATGGAGGAGGTAAATGAGGGACAGAGAA
176861_8776155_HIV1-Con_O_1_20	2261	2381	ATCAGGAACAGAGGGGGGACCCGAACGAATCTATCCGTTTGCCTCCCTCAAATCCCTCTTTGGGACAGACCAGTAGTCAACAGCAAGG

176861_8776155_HIV1-Con_0_1_38	4403	4523 TCCTAAATGTCATATAAAAGGGGAAGCAATTCATGGTCAGGTAGACTGCAGTCCAGAAGTATGGCAATGGATTGCACACATTAGAAAGGCAAGTCTAATAGTTGCTGTCCATGTGCG
176861_8776155_HIV1-Con_0_1_39	4522	4642 CAAGTGGATTTCATAGAAGCAGAAGTGATACACAGCAGAAACAGGACAGAAACTGCCTACTTCCTGTTAAAAATTAGCAGCAGAGATGGCCTGTGTAAGGTAAATACATACAGACAATGGGCCTTA
176861_8776155_HIV1-Con_0_1_40	4641	4761 AATTTTACAAGTGCAACCATGAAGGCTGCATGTTGGTGGCAACATATAAACCATGAGTTTGGAAATACCATATAATATCCACAAGGTCAGAGGTAGTAGAAGACCATGAATAAGGAATTTAAAA
176861_8776155_HIV1-Con_0_1_41	4760	4880 ATCAATTATACAGCGGTGAGGGAGCCAAAGCAGAACTATAAACACAGCATACAATTGGCAGATTTGTTCCAAATTTAAAAAGAAAGGGGGGCTAGTGGGGGTACCTGCAGGAGAAG
176861_8776155_HIV1-Con_0_1_42	4879	4999 GGATAATAGACATATTAGCATCACAATAACAAACACAGAAGTACAAAAACAAATTTTAAAAATTCAAAATTTTCGGGCTCTATTACAGAGACAGCAGAGACCCCTATTGGAAGGACCCGG
176861_8776155_HIV1-Con_0_1_43	4998	5118 GCACAGATCTCTGTGGAAGAGGTGAGGGAGCAGTAGTCATCATCAAGATAAAGGAGACATTAAGGTAGTACCAAGAAGAAAGGCAAAAATAATACAGAGATTATTGGAAGAACAGATGGCAGGTACT
176861_8776155_HIV1-Con_0_1_44	5117	5237 TGATAGTATGGCAAGTGGACAGACAGCAAGTGAAGGCTGGAACAGCCTGGTGGAAATACCATAAGTACAGGCTTAGGAAGACCAAGGACTGGTATTACAGACATCATTTAGTAATCTAGT
176861_8776155_HIV1-Con_0_1_45	5236	5356 AATCCAGAGTCAGTTTCAGGTGTATATATTCAGTAGGGGCACTGTGATAGGAGTACACATATTGGGGAGTTAGCGGAGGAAAGAGATGAACATTGGGCATTTGGGGTTTAGTATATA
176861_8776155_HIV1-Con_0_1_46	5355	5475 AGAATGGCAGTACAAGAAGTATAAAACACAGATTGACCCGAAACAGCAGACAGGATGATACATCTGTATTATTTCACCTGTTTTCAGAGTCAGCAATCAGGAAAGCCATCTTAGGGCA
176861_8776155_HIV1-Con_0_1_47	5474	5594 AGAGAGTATGTCACCAAGTGTAATACCTCCAGGACATAGTCAGTATAGGAGCACTGCAACTACTAGCTCTAAGAGCAGTAGTAAAGAGAAAAAGAAATAGCCCTCCCTCCACCGATGCTCC
176861_8776155_HIV1-Con_0_1_48	5593	5713 CAGAAATTAACAGAAGTAGATAGAACAGGCACCTGAGGATCAGGGACAGCTAGGAGGCCATTCAATGAATGGGCCTAGAGCTCTTAGAAGAGCTTAAAGCGTAGAAGCAGATAGAACATT
176861_8776155_HIV1-Con_0_1_49	5712	5832 TTCCCTAGGCCTTGGCTACAAGCCTTGGGCAATAACATTTATGAGACTTATGGAGACATTTGGTAGGAGTTTATGGCAATTATAAGAATCTTACAACAACTGCTATTTACCCATTTTATAGA
176861_8776155_HIV1-Con_0_1_50	5831	5951 AATTGGATGCCAACATATAGTAGAATAGGAATTAACCCATCTAACACAGAGGAAGAGGAAGAAGAAATGGATCCAGTAGACTCTTGAGATGCCCCCTTGGCATCACCTCGGAAGTACAGCCCT
176861_8776155_HIV1-Con_0_1_51	5950	6070 CAGACCCCTTGTAATAATTGCTATTGCAAAAAATGCTGCTATCATTTGCTATGTTTGTTCACAAGCAAGGGTTTGGGAATCTCCCTATGGCAGGAAGAACGACGACGACCCAGCAGCTGCT
176861_8776155_HIV1-Con_0_1_52	6069	6189 TGCAGGCCATCCAGATAATAAAGATCTCTACAGACAGTAGTAAGTAAAGCTAATGCATATAGGGACCTGCTAATATTAATAATTATTAGTCTTTGGCTGTTTAAATAGTAACTTCTAGT
176861_8776155_HIV1-Con_0_1_53	6188	6308 GGTGTTTATTCTTAGAAAAATTTTAGAACAAGAAAGAAACAGACAGAGGGAAAGAGAAATACTTGAAGGTTTAAAGAAATAAGAGAAATTAGGGATGACAGTGACTATGAAGCAATG
176861_8776155_HIV1-Con_0_1_54	6307	6427 GGAGAAGAAAGCAAGAGATTATGGATCTTGTGCATAGTCATGGCTTTGATAATCCCATGTTTGAGCTCTAACAGCTGTATGCAACAGCTCTATGCTGGGGTGCCTGTATGGGAAGATGC
176861_8776155_HIV1-Con_0_1_55	6426	6546 CAACCCCGATTATTTCTGTGCTTCAGATGCTAACCTAACAGCACTGAGCAGCATATAATTTTGGGCATCAACAGCTGTGCTCCCAAGCACCCTCCACATGAATATCCATTAAACA
176861_8776155_HIV1-Con_0_1_56	6545	6665 AATGTGCAGATAGATTTAATATATGAAAAAATTACATGGTAGAAAAAATGAGGAGCAAGATTAATAGTTTATGGGAACAGATTAAAAACCTTTGGTTCTCAATGACTTTCTGGTGTGTA
176861_8776155_HIV1-Con_0_1_57	6664	6784 ACAATGAATTGTACAGACGTAGCTGGAACAACAATGAAACCCCTATGAAAAAGTGTGAGTTTAAATGTAAACACAGTTCTCAAAGACAAAAGGAGAAAAACAGGCTCTATTCTATGT
176861_8776155_HIV1-Con_0_1_58	6783	6903 TATCAGATTTGATTAAAAATGAATGAGACAAGCAGACAAATAGACACAACAGCAAAATGTATACATTAATTAATTTGTAACCTCCACAACCATCAAGCAGCCGTGTCCAAAGGTATCTTTTG
176861_8776155_HIV1-Con_0_1_59	6902	7022 GAGCCAAATCCAATACATATTGTGCTCCAGCAGGATATGCCATCTTTTAAGTGTAAACAACAGAAATTAATGGAACAGGCACATGCAACAACATTACAGTAGATTCTGTACATGCTGCG
176861_8776155_HIV1-Con_0_1_60	7021	7141 CATCAAGCAACAGTAGTACTCACTAATTAATTAATGGGACCTCTTAAGGAAAAAATAAGAAATTTAGTGGAAAAAATTTCAGACAGTGGAAAAAATATCATATAGTACCCCTAAATCT
176861_8776155_HIV1-Con_0_1_61	7140	7260 CTACTATAAACATGACCTGTGAGAGACCCAGAAATCAGACAGTACAAGAGATAAAAAATAGGTCCAATGGCCTGTGACAGCATGGGCTTAGAGAAGACACAAACACATCCAACCTCAAGGA
176861_8776155_HIV1-Con_0_1_62	7259	7379 ATAGTATTATGGCAAGTATAATACCACCTGATTTGGGAAAAAGCCTTAAAAACAACAGCTGAAAGGTTATTTAGAACCTTGTAACAGATACAGATAATGTTAGACATTAATCAATAGCAGCAT
176861_8776155_HIV1-Con_0_1_63	7378	7498 TGGTGAGATCCAGAGATAACCCATTGTCATTTAATCTGTGCAGGAATCTTTTATTAACATCATTAAGATCTCAAGATGTTTAAATATACCTTTTACATGTGAAGGAAACCACTGTAATAGTAA
176861_8776155_HIV1-Con_0_1_64	7497	7617 ATGTTAGTCAAGGTAACAATGGCAATAATAAGATACCTTGCAGGATGAAACAGGTAGTAAGGTATGGATGAGGGGAGGGTCAAGGACTCTATGCACCTCCCATCAAAGGTAACCTAACAT
176861_8776155_HIV1-Con_0_1_65	7616	7736 TGTAGATCAACATAACTTGAATGATTTCTACAAATGGATAAGCCATGGAACAACAGCAACAACAATGGCCACATTAGACCAATAGGGGGAGATATGAAGATATATGGAGAACTGAATTG
176861_8776155_HIV1-Con_0_1_66	7735	7855 GTTCAACTACAAAGTAGTAAGGTAAAAACCTTTTAGTGTGGCACTACAAAAATGCAAGGCGGACATAGGCAGCTGGCCTATAGAGAAAAAGAGCAGTAGGATTGGGAATGCTATT
176861_8776155_HIV1-Con_0_1_67	7854	7974 TCTTGGGGGTCTTAAGTGCAGCAGGTAGCATTTGGGCGCAGGGCAACAGCGCTGACGCGTACAGACCACATTTGATAAAGGGTATAGTGCACAGCAGGACCACTGCTAAGAGCAA
176861_8776155_HIV1-Con_0_1_68	7973	8093 ATACAGGCCAGCAGCAATTGCTGAGGCTATCTGTATGGGGTATCAGACAACCTCCGAGCTCGCCTGCTAGCCTTAGAAACCTTAATACAGAAATCAGCAACTCCTAAACCTATGGGGCTGT
176861_8776155_HIV1-Con_0_1_69	8092	8212 TAAGGGAGGCTATATCTGCTACACATCAGTAAAAATGGAACAAAACATGGATAGGAAATGAAACAAATTGGGACACCACTAACATGGCAGGAATGGGATCAGCAGATAAACAACATAGGCTC
176861_8776155_HIV1-Con_0_1_70	8211	8331 CCATCATATATGATGAAATACAAAGGCGACAAGTACAGCAGAAACAAATAGAGAAATGAGAAATGCTGTGGAGTTAGATGAAATGGGCTCTTAATTGGAAATGGCTTGACATACCTAAATGGTTG
176861_8776155_HIV1-Con_0_1_71	8330	8450 TGGTATATAAAATCAGCAATAATCATAGTAGGAGCACTAATAGGTGTGAGAAATGTGATAGTACTTAATCTTAGTAGAGAAACATAGGAGGGATATCAACCCCTCTGTTACAGACT
176861_8776155_HIV1-Con_0_1_72	8449	8569 CCCATCCATCACAACCCGGAAGCAGAAACGCCAGGAGGAACAGGAGAAGGAGGTGAGAGAAGAGGCAGGCCAGGTTGATACCCTTCGCCCAAGAGGATCTTGCCACTGTTGTACACGGA
176861_8776155_HIV1-Con_0_1_73	8568	8688 ACCTTCAGACAATAATCTTGTGGAGTTACCACCTCTTGAGCAACTTAGCATCAGGATCCAGAAAGTGTACAGGCATCTGGGACTTGGACTGTGGATCTTAGGCAGAGAAGTAATTTAGT
176861_8776155_HIV1-Con_0_1_74	8687	

176861_8776159_ConO_6859-7151_1_2	121	240	GTGACTTTAATGTAACCACAGTTGTCAAAGACAAAAGGAGCAAAAACAGGCTCTATTCTATAAATCAGATTTGATGGAAATAACAGATAAAAAATAAGAAAAACAATACACAGAAAATC
176861_8776160_ConO_6864-7153_1_1	0	120	GAATTTGTACAGACTTTAAAACAAACGACCCCTCTACCTCCCCACCTACCTCGCTCCCTTAGCGGGTTTCAGAGAACCCTATGAAAAAATGTGAGTTTAAATGTAAACACAGTTCTCAAAGACA
176861_8776160_ConO_6864-7153_1_2	119	239	AAAAGGAGAAAAACACAGGCTCTATTCTATATATCAGAGTTGGTTAAAGTGAATGATAGCGAACAAGTAAAGGGAAATAATAGCGAAACAAGTAAACCAACACACCTCAGGAATAT
176861_8776161_ConO_7161-7280_1_1	1	120	ATAAATTTGTAAGTCCACAACCATTAAGCAAGCCCTGTCCAAAGGTATCTTTTGAGCCAATTTCCAATACACTATTGTGCTCCAGCAGGATATGCCATCTTTTAAGTGTAAACAACAGAAAT
176861_8776162_ConO_7280-7399_1_1	1	120	TAATGGAAACAGGCACATGCAACAACATTACAGTAGTTACTTTGTACACATGGCATCAAGCCAACAGTAAGTACTCAACTAATATTAAATGGGACACTCTCTAAAGGAAAAATAAGAATTA
176861_8776163_ConO_7534-7790_1_1	0	120	TGGGTCAGTATGGCAGCTAAAAACAGAGTCAAGAACACAGGGTCAAGGATAGCTTTATTGTATGTATAATAACACTGAATGGATAAAATACCTTTAAACAAACAGCTGAAAGATATTTAGAA
176861_8776163_ConO_7534-7790_1_2	119	239	ACTCGTAAACAAGACAGGAAATTTAAGCAAGACAGGAAATTTTAGCATAATATTCAACCACAGTATAAGTGGTGGAGACATAGAAGCAAGCTCTTACATTTTAACTGTCTATGGAGAATT
176861_8776164_ConO_7534-7799_1_1	0	120	TGGCTCAGCATGGGCATAAGGGAAGAAAGTAAAAATACAAATGCCTCAAGGAGGGCTTTATTGCAAAATTTAATACCAGTGCCTGGATAGAAACCTTTAAAGGAACAGCTGAAAGGTATCTA
176861_8776164_ConO_7534-7799_1_2	119	239	AGAGCTTGTAGAAGCAAAATAAACAGAGAATATTAGCATGATGTTTGATAGAAGTGATCTTGGTGGAGATCCAGAGATAACCCATTTGCATTTTAACTGTCTATGGAGAGTCTTTTATTG
176861_8776165_ConO_7825-8099_1_1	0	120	ACCTTTTACATGTAACAAAACCAACTGCACATAACAATAGGACTGATAATAGCACTAATGACACAATACCTTGCAAGTTGAGACAGGTAGTGAGGTCTATGGATACAGGGGGGGTCAGGACTC
176861_8776165_ConO_7825-8099_1_2	119	239	CTATGCCCCCTCCCATCAAGGTACCCCTAACATGTATGTCAACACATAACTGGAGTATCTTAGAAATGGAAACCGTCTATGGAACGGGAGTGTACAAGGACATTAAATGCTACATGGAACT
176861_8776166_ConO_7825-8102_1_1	0	120	AACCTTTTATGTAACAAAACCAACTGTACAAATAGCCAAAATAACAGTCAAAGTTACAATAGCACTGAGAGACTGAAATTTGGGTTTGATACCTTGCAAAAATAAACAGGTAGTAAGGTCA
176861_8776166_ConO_7825-8102_1_2	119	239	ATGGATGAAGGGGAGAGTCAGGACTCTATGCACTCCCATCCAGGTAACTTCAACATGTCAGTCAAAACATAACTGGAATGATTCTACAATAAGATGTGCCATGGAATAAAGCCATGGCAA
176861_8776167_ConO_7831-8099_1_1	0	120	TCTTGTAACAATTCACCTGTCCAGAACATGTCTGGCAGTGACACTTCTAGCAATGACACTATACCTTGCAGGTTGAAACAGATAGTAAGTCTATGGATAGGGGGAGAGTCGGGATTCTAT
176861_8776167_ConO_7831-8099_1_2	119	239	TGCACCTCCCATCAAGGTCGCCCTAAATTTGCACCTTCAAAATAGCTGGAATTTTACAATGGACTTCTCATGGAAACAACACAGAGGGGAAGCGTAAAGCTGACAGGAATGGGATCAAC
176861_8776168_ConO_8270-8389_1_1	1	120	GGGAATGCTATTCTTTGGGGGTTCTAAGTGCAGCAGGTAGCACTATGGGCGCAGCGGCAACAGCGCTGACGGTACAGACCCACACTTTTGATAAAGGGTATAGTGCAACACAGCAGGACAACC
176861_8776169_ConO_8524-8658_1_1	1	120	GAAAGCTCATCTGCTACACATCAGTACAATGGAAACACAACATGGACACCCAGGTAGATGGAAACAGAGGAGGGGATGGACGCAATCTGGGGCAACCTGACATGGCAGGAATGGGATCAG
176861_8776170_ConO_8524-8673_1_1	1	120	GAAACCTAATTTGCTACACATCAGTACAATGGAAATAGACATGGAGCCCTGGTACTAATGAAGAAAGCATTTTGGGAGAACCTGACATGGCAGGAATGGGATCAACAGATAAGCAACATA
176861_8776171_ConO_8524-8661_1_1	1	120	GACAATTAGTCTGCTACACATCAGTAAAAATGGAAACACAACATGGGGAGCAATATTCCATAATTACTAATCTGGAGGAAATTTGGGGCAAACTAACCTGGCAGGAATGGGATCAGAG
176861_8776172_ConO_8770-8889_1_1	1	120	ATTGGCTTGACATAACTAAATGGTTGTGGTATATAAAAAATAGCAATAATCATAGTAGGAGCACTAATAGGTGTGAGAATTGTATGATAGTACTTAATCTAGTGAGAAACATTAGGCAG
176861_8776173_ConO_9397-9522_1_1	1	120	GGGCATCAGTGAGAGAAAGAATAGAAAAAATAGAACCATTAGAACTAGAACTTCCCCCTGAGTCTGAACAGCAGCACCTGGAGTAGGAGCAGTCTCCAGAGCATTAGCAGCTAGAGGA
176861_8776174_ConO_9397-9537_1_1	1	120	GGGCAGCAGTAAGAGAAAGAATGAGAAGAACTAGAACTTTCCTTGAGTCTGAACCATGCGCACCTGGAGTAGGACAGATCTCCAGGGAATTAGCAGCTAGAGGAGGGATACCAAGTTCC
176861_8776175_ConO_9397-9534_1_1	1	120	GCTCAGAAAGTAAGAGAAAGAATAAGAGAGAGCTCACAGTGATCACAGTGATCTTGAACCATGTGCACCTGGAGTAGGAGAACTCTCCAGGGAACCTAGCAGCTAGAGGAGGAATACCAAGT
176861_8776176_ConO_9901-10021a_1_1	1	120	TCCAGCTTGTAAATCATGGATTTGAGGATGCACACGGGGAGATACTAAAAATGGCAGTTTGATAGATCATTAGGCAGCACCCATGTAGCTATGATAACCCACCCAGAGCTCTTCCACAAGG
176861_8776177_ConO_9901-10021b_1_1	1	120	TCCAGCTTGTAAATCATGGTTTTGAGGATGAACATGGAGAAGTCTAAAGTGGCAGTTTGATAGATCATTAGGCCTTAAATCATGTAGCCTTACAACCTGCACCCAGAGCTCTTCCCAAAG
176861_8776178_ConP_1_1	0	120	TGGATGGGTTAATTTATTCACCTGGGAGACGAAATACTAGATCTCTGGATCTACATCAGCTAGGGGCTTCTCCCTGACTGGCAGCATCACTCCAGGGCAGGAGAAAGATTCCCAAC
176861_8776178_ConP_1_2	119	239	CTGACCTTTGGGCTAGCTGTTTAAACTAGTACCGTCTCTGAGGTAGAAATTTGAGGAATGGGAGATGAGCAGGAGAAAGCTAAAGCTGCTACACTGCAGCTGCACCTTATGGGGATTTCAGAT
176861_8776178_ConP_1_3	238	358	TCATCATAGGGAGATCTTAATGTGGAAGTTTGACAGATCACTGGGAGAAAGACATGTTGCCTTACAAAAGCACCCGGAAGTGTTTACTAAAGACTAAAGTGCTGACGCTACGCAGCTACT
176861_8776178_ConP_1_4	357	477	TAAGTGTCTGACACTGCAGGGACTTTCCGGGGACGGAAAGTCCCGGGCGGGAACAGGGGAGGAGCAGGGGAGTGGTTTACCCCTCAGAGCTGCATATAAGCAGCTGCTTCAAGCTTGT
176861_8776178_ConP_1_5	476	596	TACTGGGTCTCTGTGACAGACGAGATTAGAGCCTGGGAGCTCTTGGCCCTTAAGCAGAACCCATCGTCTGGAAAGCTCAATAAAGCTTCAAGTGTGATGAGTAAGCAGTGTGTGCTCATCT
176861_8776178_ConP_1_6	595	715	TGTTTCAGAACTCTGGTGCTAGAGATCCCTCAGAGCACTTCTAGCCGAGTGGAAAAATCTCTAGCAGTGGCGCCCCGAACAGGGACTTGAAAGTGAAACCAGTTTCTGAATCCTCCGACGCA
176861_8776178_ConP_1_7	714	834	ACGGGCTCGGCTCAGCGGAGTGCACCTGCTGAGAGGCGGAGAGGAGCTCACAGCGGTGAGTACATTTTGTGAGTGTGACTGACCTAGAGGAAGAGGGGAAGTCTTAGGGGAGGAGATG
176861_8776178_ConP_1_8	833	953	GGGTGCGAGAGCGCTCAGTGTGACAGGGGGCCGATTGGATGCATGGGAAAGAATTAGGCTTAGGCCAGGAAGTAAGAAAAAATATAAGCTAAAAACATATAGTATGGGCAAGCAGAGAGCT
176861_8776178_ConP_1_9	952	1072	TGGAAGATTGATGTATCTCTGGGCTTATGGAACACAGCAGAGGGTGTGCAAAAAATTATTAGAGCAGTTAGAACCCAGCTCTCAGAACAGGTTCTGATGGGCTCGAGTCTCTTTGGAACA
176861_8776178_ConP_1_10	1071	1191	ACCCTAGTAGTTTTTATGGTGTGTTTACAAAAAGAGTAGATATAAGTGACACACAGCAGGCCATTACAAAAATGGAAGGAGGAAATCGAGAAAAAGAAAGAACATCAGAGGGCAGCACTGGA
176861_8776178_ConP_1_11	1190	1310	AACAAGTCAAAAGTATCCTATTGTGCGAATGCCAGGGGCAAAATGACCCATATGCGCCTGTCTCCAGGACGCTGAATGCCTGGGTGAAGGCAGTAGAAGAAAGGCCTTCAACCCCTGA
176861_8776178_ConP_1_12	1309	1429	AAATATCCCTATGTTTATGGCCTTGTGAGAAGGGGCTATACCTGATGACATCAATACTATGCTTAAATGCGATAGGCGGACATCAGGGAGCGTTGCAGGTGTTGAAAGAGGTAATTAATG
176861_8776178_ConP_1_13	1428	1548	GAAAGAGGCTGCAAGATGGGATAGAACACATCCTGTTTCCAGTAGGACCATTACCACAGGGGAGCTTAGAGACCCCAACAGGAGGGGATATTGCAAGGAACCACTAGTACCAAGCAGGAACAG
176861_8776178_ConP_1_14	1547	1667	GATAACCTGGATAACAAGGAACAATCCTATACCAGTAGGAGACATCTATAGAAAGTGATAGTGTGGGGCTCAATAAAGTGGTAAAAATGTACAGCCCCATTAGCATTTCTGGACATAAA
176861_8776178_ConP_1_15	1666	1786	AGCAGGGACCTAAGGAACCATTTAGAGATTATGTAGATAGATTCTACAAAACCCCTCAGAGCAGAGCAAGCTAGTCAGGAAGTAAAGAGTTGGATGACAGACACCTTACTAATACAAAATG
176861_8776178_ConP_1_16	1785	1905	GCTAATCCAGATTGTAAGCAGATTTTGAAAGCTCTGGGACCAGGTGCCACCTTAGAAGAAATGATGAATGCCTGTCAAGGAGTAGGGGGACCAACACATAAGGCCAGGGTCTTGGCAGAA
176861_8776178_ConP_1_17	1904	2024	AGCTATGGCAGCAGATTAACTAAGCTAACCAAGAAATTAAGAGAGGTTTACAGAGTTTACAGAGTGGACAGAGAAAGCCAGTTAAAGTGCTTTAACTGTGGAAAGTAGGACACAT
176861_8776178_ConP_1_18	2023	2143	TAGCAAGAACTGTAAAGCACCTAGGAGAAGAGGATGTTGGAAGTGTGGACAGGAAGGTCATCAAATGAAGACTGCAAAATCAGGAAGACAGGCAAAATTTTTAGGGAAGATCTGGCCTC
176861_8776178_ConP_1_19	2142	2262	CCTGGGGGCAAGAGGCCAGGCAACTATGTACAGAAACAAGTACAAACGACAGCCCCACCTATGGAGGAGGACGAGATGACTCGGAACACAGCAGGGGAGGAAAAGGAGGACGAGAAAGAG
176861_8776178_ConP_1_20	2261	2381	GTACCCCTTAGGCTCCCTCAGATCACTCTTTGGGACAGACCAGTAATACCAGTAAGAATAAGGGGGCATATTTGTGAGGCTCTATTAGATACAGGAGCTGATGACACAGTAGTAGATAAC
176861_8776178_ConP_1_21	2380	2500	CTTACCTTTAGAAAGGAAGATGGAAACCAAAATGATAGGAGGAATAGGGGTTTTATAAAGTAAAGAAATTTGAAGAAAGTTAAGGTAGAAATAGAAGGAAGAGTTTATGGAACCTGT
176861_8776178_ConP_1_22	2499	2619	TATTAGTGGGCCCCAACCCAGTAAATATAATAGGAAGAAATATTTTGACATTAATTGGATGTACTCTGAGTTTCCCCATCAGCTCCAAGAAATAGTACCAGTAAATTAAGGCAGGAA
176861_8776178_ConP_1_23	2618	2738	ATGGATGGGCCTAGGGTAAAGCAATGGCCCTTGTCAAAGGAAAAAATAGAAAGCTTTAAGAGCCATTGTGCAAGAGATGGAACAGGAAGGAAAAAATACAAAAAATTTGGGCTGAAAATCCA
176861_8776178_ConP_1_24	2737	2857	ATATAACACCCCATCTTTGCAATAAAAAAGAAAGATGGCAGCAAGTGGAGGAATTAGTAGACTACAGAACTAAATAAGAGAACACAAGATTTCTGGGAAGTACAATTTGGGAATCCAC
176861_8776178_ConP_1_25	2856	2976	CTATCCAGGAGGTCTTAAGAAAAGGAAATCAGTGACCGTATTAGATGTTAGGTAGGGGATCTTATTCTCCTGTCTTATAGATCCAGATTTTAGAAAAATATACAGCTTTTCACTATACCTAGTG
176861_8776178_ConP_1_26	2975	3095	GTAATAATGAACACCAGGAATTAGATATGAGTATAATGTTCTGCCTCAGGATGGAAGGGATCACACGCCATCTTCCAGCATTCATGACTAAGATCTTAGAACCCCTTAGGGAGAGT
176861_8776178_ConP_1_27	3094	3214	TAA'TCCAGAAGTAGAAATCTATCAATACATGGATGATCTATATGTAGGGTCAGATTTCGCTTTGTCTGAACATAGACAGCGGGTAGAGAACTTAGGGAAACACCTCTATGTATGGGGGT

176861_8776178_ConP_1_28	3213	3333 TCACAACCTCCTGACAAAAACATCAAAGGAGCCTCCTTTCCTCTGGATGGGATATGAGCTCCATCCTGACAAAGTGACGGTGCAACCCATCATATTACCAGAAAAGGAAGGTTGGACAG
176861_8776178_ConP_1_29	3332	3452 GTAAATTGACATCCAGAAAGCTAGTAGGAAAGTTAAATTTGGGCAAGTCAAAATTTATCCAGGAATAAAGGTAAAGAGTTATGCAAACTAATTTAGGAGAACTAAATCTTCAACGAAGTAGTT
176861_8776178_ConP_1_30	3451	3571 TGCTCTTACTAGAGAGCAGAATTAGAACTAGAGGAAAATAAGAAATTTTAAAGAACAGCTGATCTGGAGTTATTACCAACCGAGAAAAGAAATTAATAGTAGACATACAGAAAGTAGG
176861_8776178_ConP_1_31	3570	3690 GAGCGGAGCAATGGACTTATCAGATATTTCCAGGAAGAACATAAAACCTTGAAAACAGGGAAATATGCCAGGCAAAAGGCTACTCACACCAATGATATAAGGCAACTGGCAGAAATATAC
176861_8776178_ConP_1_32	3689	3809 CAGAAGGCATCACAAGAAAGCATAGTGATATGGGGAAAACATACCCAAAGTTTAGACTACCAATAAATAGAAACGCTGTGGGAGACTTGGTGGTCAGACTATTGGCAAGCCACCTGGATACCT
176861_8776178_ConP_1_33	3808	3928 TGAATGGGAATTTGTTAGCACACCCCTCTTATTAAGCTCTGGTATCAGCTAGAAAAAGACCCCATACCAGGAATAGAAACCTTTTATGTAGATGGGGCAGCAAAACAGAGAGACCAAGTT
176861_8776178_ConP_1_34	3927	4047 TAGGCAAGCTGGATATGTAACAGATAGGGGTAGGCAGAAAGATAATCAAACCTAGAAAGAACCACTAATCAAAAAGCAGAAATTAGAAGCAGTGTGTTTAGCCTTAAAGAAATCAGGAAAAC
176861_8776178_ConP_1_35	4046	4166 CAGGCTAACATAGTAACAGACTCCCAATATGTGTTAGGGATCATCTCAGCAACTCCAGATCAAAGTGACTCCCCCTAGTGCAAAAAATAATAGAAGAAATGACAAAAAAGGAAAAGGTA
176861_8776178_ConP_1_36	4165	4285 ATACCTATCATGGGTACCAGCACAAAGGCATAGGGGGTAATGAAAATATAGATAAATTAGTCAGTAAAGACATTAGAAGAGTGTATTCTCGGAAGGCATAGACCAAGCACAGAGGA
176861_8776178_ConP_1_37	4284	4404 ATCATGAAAAATATCACAGTAATTGGAGAGCCCTAGCTAGTGACTTTGGCCCTTCCACCAATAGTGGCAAAAGAGATTATCAACAATTTGCCCAAAATGTCTATGTAAGGGGAAGCCATGC
176861_8776178_ConP_1_38	4403	4523 CATGGACAGGTAGACTGCAGTCCAGGAATTTGGCAACTGGACTGTACCACACGGAAGGAAAAATTTATCCTTGGCAGTCCATGTAGCCAGTGCCCTTCATGGAAGCAGAAATTAATCCCA
176861_8776178_ConP_1_39	4522	4642 AGCAGAAAACAGGACAAGAAGCTGCATATTTTGTGCTCAAATTTGGCATCAAGATGGCCTGTAAAAGTAATACACAGACAAATGGGCCCTAACTTTACTAGCGCTGCAGTAAAGGCAGCCTG
176861_8776178_ConP_1_40	4641	4761 GTTGGTGGCTTAATATACTCATGAGTTTGGGATACCCCTACAATCCCCAAAGTCAGGAGTAGTGGAAATCAATGAATAAGAAATTAAGAAAAATCATACATCAAGTACGAGATCAAGCTG
176861_8776178_ConP_1_41	4760	4880 GAGCACTTAAAGACAGCAGTTCAAATGGCAGTATTGTTTCACAATTTTAAAGAAAAGGGGGGTTGGGGGGTACACTGCTGGAGACAGGATCATAGATATTTCTGGCTACACAAATACAA
176861_8776178_ConP_1_42	4879	4999 AAGAACAGATTTACAAAACAAATTTTAAAAAATTCAAAATTTTCGGGTCTATTACAGAGACAGCAGACGCCCTATTGGAAAGGACAGCAGCAGCTCTGTGGAAAGGAGGAGGAGG
176861_8776178_ConP_1_43	4998	5118 TAGTCATACAAGACAAGGAGATATTAAGTAGTCCCTAGGAGAAAAGCAAAAATAATTAGAGATTATGGAAGAACAGATGGCAGGTGATGATTGTGTGGCAGATACCCAGAGAGAAAGTG
176861_8776178_ConP_1_44	5117	5237 GAAAGCCTGGAAAGCAGTCTGGTCAAATATCACAATATAGGTCTAAAAAGACAAGGAATTTGTTTTATAGGCATCATTATGAGACAATCCATCCTAGGATTAGTTTCAGGAGTTTACATTCC
176861_8776178_ConP_1_45	5236	5356 CAGTAGGAACAGCAACCATTATTGTGACTACTTATTGGGGGCTTATGCCCTGGGGAAAGAGAAGAACAAATTAGGACATGGAGCAAGTGTGGAGTGAGAGCAAGGTAAATACACCACACAGA
176861_8776178_ConP_1_46	5355	5475 ATAGATCCGAGAAACAGCAGATAGGCTAATTCATCTCCAGTACTTTTCAGATTTCGGCTGTGAGGAGGGCAATACTAGGGGACAGGGTATTGAACAAGTGTGAATACCTCAGCA
176861_8776178_ConP_1_47	5474	5594 AGGACATAGTCAGGTAGGCTCCTTGCAGTATTTAGCCTTAAAGTGGTAGTAGGGAAAGTAAAGGAAGGCCACCCCTCCCTAGTGTCCAGATATTGACACAAGACATATGGAGCAAGCC
176861_8776178_ConP_1_48	5593	5713 CCCAGAGGACCAAGGGCGCCACAGAGAGCCATTCAATGAGTGGATGCTACAAACCTTAGAGGAACCTCAAGGAGGAAGCAGTAAGACACTTCCCTATGCATTGCTTACACTCATTAGGACA
176861_8776178_ConP_1_49	5712	5832 AATACATCTATAATACCTTAGGGACACCTGGGAGGGAGTAACCTGCAATTATTAGGATCCTCAACAATAATTAATCTTTATCCATTATAGAATTGGATGCCACCATAGTAGAATAGGTATCT
176861_8776178_ConP_1_50	5831	5951 TTGCCACCCCTCTCGAAGAGGAAGGAGACATGGACCCAGTAGATCCTGACTGCCCTCCATGGCAACAGCCAGGGAGTCAGCCCTCAAGCCCATGTGAACAATTGTCTACTGCAAAAGCCTGCTG
176861_8776178_ConP_1_51	5950	6070 GCTATCATTGCTATGTTTGTGTTTCAAAAGAAGGTTTGGGAATCTCCTATGGCAGGAAGAAGCGACGAAAGACCTGCGAGAGCTGATAACAACAATCAGAATCATCAAGATCTGTATCAA
176861_8776178_ConP_1_52	6069	6189 AAGTAGTAAGTAGAAATAAAGTTGTATTATATGCATCCTAGGATAGGACAGTATTAAATAATAGCTGGGGTATTATTAATTTCAGTATAGTAGTTTGGGGGAGGTCCTGCTATTAGT
176861_8776178_ConP_1_53	6188	6308 TGCTAAAAGAGAGAGAAGGGATAAGTTTGTACAAAGCTAGCAAGGTGAGAGAAAAGGCAAGAAGATGAGGGGTATGAGAGTATGAAGAAGAAGAAGAACAGCTTAGGGAACTTGGGA
176861_8776178_ConP_1_54	6307	6427 AATCTGCTTGGCTTTGGTCTATACCTTTAATGCTATTAGTATGCTAGTGGAAACAGCTATGTTTACTGTATATTTATGGGGTTCCAGTTTGGAGAGATGCTAAAGTTACCTTATTTTTGTGC
176861_8776178_ConP_1_55	6426	6546 CAGCAGATGCATCGCTAACTAGCAAAGAGCAGCATATAATTGGGCCACCCAGGCCCTGTGTGCCACAGACCCCTACACCAATAGAGGTCCGGATAAATGTAAACAGAGTCTTTTAATATTT
176861_8776178_ConP_1_56	6545	6665 TGGGAAAATTATATGTTGACACAAATGCAGGAAGACATCATTTAGCTTATGGGATCAGAGCCCTTAAACCTTGTGTAAAATTGACAGTCCCTATGTGTTACTATGAATTGTAGTGAATGCCAC
176861_8776178_ConP_1_57	6664	6784 CAAGGAGGCTAACTGTATAATAAACAGTAGTCTCCTCTGAGAATGAGTACAGCCGCCCAATCCATTAGTCTATTAAAGTGCAGTTTAAATACAACCCACAGTATTGAAAGATAAAAAGCAGGA
176861_8776178_ConP_1_58	6783	6903 AACAGCAAGCACTCTTCTATAGAACAGACCTAATAGCACTGAATGAGACAGCAAAATAACACTATATAGATTAATTAATTGCAACACCCTACCATTACACAAGCATGCCCAAAAGTGA
176861_8776178_ConP_1_59	6902	7022 ACTTTTGAGCCACTACCCATACAGTATTGTGCACCAGCAGGGTATGCACTAATGAAATGCAATCAGAAAGGATTTAATGGTACAGGACCTTGTAAATCAGACAGTCATAACACACTGTACAC
176861_8776178_ConP_1_60	7021	7141 ACATGGAATTAAGCCAACAGTGTCAACACAATTGTACTCAATGGAACCTTAGCAGAGGGAGAGCCCTTAGTAATTACTCAAAATGTGCAGATACAAGAAATGTCATCATAGTAAAAAT
176861_8776178_ConP_1_61	7140	7260 TAAATGAGAATGTGTCACCTGCTGTAAGACCAGGTAATAACACAAGAGGACAAGTGCAACTAGGAGCCATGACATGGTATAATATGAAACTCTACGCGAGTGATATCAGGGAAGCTC
176861_8776178_ConP_1_62	7259	7379 CATTGTAACGTTTCTATGGAAAAATTGGACAGGAACCTTAGAATGTGTCAGTGAGGCCATCTGGAAGGCTTATCCTCAACCTCCCAACCATAACCATACATTTGTCTTTAGAAAACAGTACA
176861_8776178_ConP_1_63	7378	7498 AGGGGGAGACCCAGAGGTTTCTTCTCTGCACTTCAGTTGTGCATGGGGAATCTTTTATTTGTAACACAGCAGCCTGTTTAAATTATAGCTATACTTGTAAATGAGAAGGGGTATGCAAGTAT
176861_8776178_ConP_1_64	7497	7617 TCAATAATCATACAGGTAATCACACAGGTGAGAACATAATAACACTGCCTTGTAGACTAAAGCAAGTAGTTAATTCATGGATGAGAGTGGGATCAGGCTTGTGTCGCCACCTATCGAGG
176861_8776178_ConP_1_65	7616	7736 GGACAATTGCGATGCCACTCCAACATTACAGGTTTAATATTAGACAGAGGATCACCTTATAATGCCCAACAGCAGCAGCAACACCATTAAAGCCCTACAGGGGGAGAAATGAGACATATC
176861_8776178_ConP_1_66	7735	7855 CTGGAGAAGTGAGTTATATCCCTACAAGGTAGTTCAAGTAAAAGCTCTGGCTGTGGCACCTACAAGAGTCTCCAGACCTACAATCATGGCTCATGATGCTCATAGGAAAAAAGGGGAGC
176861_8776178_ConP_1_67	7854	7974 CAGCCTAGGAATGCTATTCTCTGGGTTTCTGAGTGCAGCAGGAAGCACTATGGCGCAGCGGGAGTCACGCTGACGGTACAGGCCAGGCAATATTGCATGGTATAGTGCAGCAGCAGA
176861_8776178_ConP_1_68	7973	8093 AACAAATATGCTAAGAGCTATAGAGGCACAGCAAGAATTGCTGAGACTCTCTGTGTGGGGCTATAAGACAGCTCCGAGCTCGCCTGCTTGCCATTGAAACCTACTTTAAGGGATCAGCAACTC
176861_8776178_ConP_1_69	8092	8212 CTAGGACTGTGGGGATGCTCAGGACAAATAGTATGTTTACTAATAGTGGCCATGAGACTGTCAGCAACAAAGTGAACCTGAATAGATGGCATTTGAAGTAACTTAAGGATGCGCA
176861_8776178_ConP_1_70	8211	8331 AGGAATGGGCAAACTGGTGGAATAATTACACTGACACAATTTATTGGAATAACAAGAGCACAAGAGCAACAGAAAGGCAATGAAAGAAAGTTATTAGAATTAGACCAATGGGCACAAT
176861_8776178_ConP_1_71	8330	8450 TTGTGGAGCTGGTTGGACATAACACAATGGTGTGGTACATAAAAAATTTTCATTATGATAGTAGGAGGAATTATAGGACTAAGAAATCTTATTGGCTATAGTTAATGTAGTCAGGAGAGTC
176861_8776178_ConP_1_72	8449	8569 CAGGCAGGGATACTCACCTGTATCGTTGCAGACCCCTTGGCCTGCACGGGACCCAGCAGGAATAGCACCAGGAACAGACGAAAGAGTGGAGAAGCAGGCAACGGCAGATCGATCAGATT
176861_8776178_ConP_1_73	8568	8688 TGCTGGACGGATTATTGGCTCTCGTCTGGGACGACCTGAGGAACCTGGTGGTGACGATACCAAGATATTAGTCGGCTGCATATTGAGGATCAAGGACCTCCTAACAAATCTGTGGATAC
176861_8776178_ConP_1_74	8687	8807 CACCTGGGCCAAGTCTGAACAGAGGGCTTAAGTGCCTGCGAGACTGCTTGTGCTGCTGTGGCTATTGGACTCAAGAATTAACAAAGTGAACACAGCTTGTGAGACTGTTGCTATA
176861_8776178_ConP_1_75	8806	8926 ATCAGTTGCAAGGTTGACTGTATCAAGTAATAGCAGTAGGGCAACAAATAGGAAGAGGCTTCTTGAACATACCAAGAAGGTTAAGACAAGGGATAGAAAAGAGCTTACTATAATGGGGAAT
176861_8776178_ConP_1_76	8925	9045 TGCATGGAAGAAAAGTAGCTTAGTGGGCTGGCCAGCAGTCAGGGAAGAAATAAATCAGACTACCCAGTAAACACCTGCATCCGGGGTGGGGAGATTTCCAAAGAATTAGCAACAAGGAAA
176861_8776178_ConP_1_77	9044	9164 AAGGAATACCCAGTAATTTAATTCAAAGAACAAATGCAGCATTAGCCATTAGCCTTCTTGAAGACTCATGAGGACGAAGAAGTAGGATTCCGAGTTAGGCCTCAAGTACCTTAAGACCCATGACAT
176861_8776178_ConP_1_78	9163	9283 TACAAGGCAGCATTTGACCTCAGCTTCTTTTAAAGAAAAGGAGGAGACTGATGGGTTAATTTATTACCTGAGAGAGCAGAAATCCTAGATCTCTGGATCTATCACACTCAGGGATTTC
176861_8776178_ConP_1_79	9282	9402 CTTCCTTGACTGCGAGCATTACACTCCAGGGCCAGGAGAAAGATACCCCTGACCTTTGGGTGCTGTTTAAACTAGTACCAGTCTCTGAGGTAGAAGCTGAGGAAATGGGAGATGAGCA

176861_8776178_ConP_1_80	9401	9521	AGGAGAAAGCTAAGCTGCTACATCCAGCCTGCACCTTATGGGTTTTTCAGATCATATAAGGAGATCTTAGTGTGGAAGTTTGACAGATCACTTGGAGGAAAACATGTTGCCTTACAAAAGC
176861_8776178_ConP_1_81	9520	9640	GACCCGGAACCTGTTTATTAAGAGCTAAAGTGCTGACGCCACGCAGCATGCTTAAAGTTGCTGACATCGACGGAGCTTCCGGGGACGGAAGTCCCAGGCGGGAACAGGGGGAGGAGGACGG
176861_8776178_ConP_1_82	9639	9759	GCCAGGTGGTTTACCCTCAGAGCTGCATATAAGCAGCTGCTTCACGTTGCTCTGTTGACAGCTCTCTGTGACAGCCAGATTTAGAGCCTGGGAGCTTCTGGTCTTAAAGCAAGACCCACTGCTTTG
176861_8776178_ConP_1_83	9758	9873	GGAAGCTCAATAAAGCTTGCCTTTGAGTGAGTAAAGCAGTGTGTGCTCATCTGTTTCAAGACTTCTGGTGTCTAGAGATCCCTCAGAGCACTTCTAGCCGAGTGGAAAAATCTCTAGCA
176861_8776179_P-6671-7034_1_1	0	120	AGCGACTGCAGCACGGTTGACTGTACTAATAACTCCTCCAGGGTTAATAACAGCACCCGACAGCACCAACACAGCAAAACCAATCCATTAGAATTATTTTCAGTGCAGTTTATATACAACC
176861_8776179_P-6671-7034_1_2	119	239	CACAATAGTAAAAAGATAAACAGCAGACACAGCAAGCACTCTTTTATAGAGCAGACCTAACAAAATTTGGATAATGACAATAGTACATATAGATTAAATTAATGCAACACCACTACCATTAC
176861_8776179_P-6671-7034_1_3	238	358	CACAGGCATGCCAAAAGTGAACCTTTGAGCCGCTACCATAACAGTATTTGTGACACAGCAGGATGCACTAATGAAATGCAATCAGACAGGATTTAATGGTACAGGACCTTGTATAAGA
176861_8776180_P-7498-7874_1_1	0	120	GTTTAACTTTAGTTATACTTGAATGACACCACCTGGCGGGCTGCAGGCAATCATAATACAAGTAAAAATATAACACTGTCTTTGAGACTGAAGCAAGTAGTTAAATTCATGGATGAGAGT
176861_8776180_P-7498-7874_1_2	119	239	TGGGATCAGGCTTGTTTGCGACACCTATTGAGGGGGAATTAAGTGTCAATCCAACATTACAGGTTTAAATGTTAGAAAAGAGAACTACCTTACAATGACAGCAGCAAGAACACCACTTTAA
176861_8776180_P-7498-7874_1_3	238	358	AGTCCTATAGGGGGAGACATGACAAATATCTGAGAGAAGTGAGTTATATCCCTACAAAGTAGTTCAAGTAAAAAGCTCTGGCCGTGGCACCTACAAAAATTTCCAGACCTACAATTTATGGCT
176861_8776181_HIV2-Con2A_1_1	0	120	TGGAAGGATGTTTTACAGTGGAGAGAAGACATAGAATCCTAGACATATACTTAGAAAGGAAGAGGGATAAATCCAGATTGGCAGAAATATATCTCATGGCCAGGAGATTGAGCCATACCCAA
176861_8776181_HIV2-Con2A_1_2	119	239	ATGTTCTTTTGGGTGGCTGTGGAAGCTAGTACCAGTAGACGCTCCCAAGAGGGAGAGGACGATGAGACCCACTGCTTAAATACCCAGCACAACAAGCAGGTATGATGACCCGCATGGG
176861_8776181_HIV2-Con2A_1_3	238	358	GGAACACTAGTGTGGAGGTTTGACCCCATGCTGGCCTATAGAGTACAAGGCCTTTAATCTATACCCAGAGGAATTTGGGCACAAGTCAGGCTTGGCCAGAAGAAGAGTGAAGGCAAAACT
176861_8776181_HIV2-Con2A_1_4	357	477	TGAAGCAAGAGGGATACCAATTTAGTTAAAGACAGGAACAGCTATCTTTGGTCAGGGCAGGAAGTAGCTACTGAAAACAGCTGAGACTGCAGGGACTTTCCAGAAGGGGCTGTAACCAAGG
176861_8776181_HIV2-Con2A_1_5	476	596	GAGGGACATGGGAGGAGCTGGTGGGGAACGCCCTCATACTTTCGTATAAATGTACCCGCTGCTTGCATTTGACTTCAGTCGCTCGCGGAGGGCTGGCAGATTGAGCCATGAGCGAGG
176861_8776181_HIV2-Con2A_1_6	595	715	GTTCTCTCCAGCACTAGCAGGTAGAGCCTGGGTGTTCCCTGCTAGACTCTCACCAGTGCTTGGCCGGCACTGGGCAGACGGCTCCACGCTTGCTTGCTTAAAGACCTCTTAATAAAGCTG
176861_8776181_HIV2-Con2A_1_7	714	834	GCCAGTTAGAAAGCAAGTTAAGTGTGTGTTCCCATCTCTCCTAGTCGCCGCTGGTCATTTCGGTGTTCACCTGAGTAAACAAGACCTGGTCTGTAGGACCCCTCTTGCTTTGGGAAACCG
176861_8776181_HIV2-Con2A_1_8	833	953	GAGGCAGGAAAATCCCTAGCAGGTTGGCGCCGAACAGGGACTTGAAGAAGACTGAGAAGCCTTGGAACACGGCTGAGTGAAGGCAGTAAGGGCGGCAGGAACAAACCACGACGGAGTGCA
176861_8776181_HIV2-Con2A_1_9	952	1072	CTCTAGAAAGGGCGCGGCGCGAGATACCAAAGCGCGCGTGTGGAGCGGGAGTGAAGAAGGCTCCGGGTGAAGGTAAAGTACCTACACCAAAAACCTGTAGCCAGAAGGGCTTGTATCCT
176861_8776181_HIV2-Con2A_1_10	1071	1191	TACCTTTAGACAGGTAGAAGATTGTGGGAGATGGCGCGGAGAACTCCGTCCTTGAGAGGGAAAAAAGCAGATGAATTAGAAAAAATTAGGTTACGGCCCGCGGGAAGAAAAATACAGG
176861_8776181_HIV2-Con2A_1_11	1190	1310	GTTAAAAACATATTGTGTGGGCAGCGAATGAATTTGGACAGATTTCGGATTAGCAGAGAGCCTGTTGGAGTCAAAAGAAGGTTGCCAAAAAATTTCTACAGTTTATAGATCCATTAGTACCGAC
176861_8776181_HIV2-Con2A_1_12	1309	1429	CAGGGTCAGAAAAATTTAAAAAGCCTTTTTTAATACTGTCTGCGTCATTTGGTGCATACACGCAGAGAAGAAAGTGAAGAATACTGAAGAAGCAAAAAAATAGTACAGAGACATCTAGTGT
176861_8776181_HIV2-Con2A_1_13	1428	1548	GCAGAAACAGGAACCTCAGAGAGAAATGCCAAATACAAGTAGAACCAACAGCACCACTAGCGGGAAAGGAGGAACTTCCCGTACAAACAGTAGCGGCAACTATACCCATGTGCGCGTG
176861_8776181_HIV2-Con2A_1_14	1547	1667	GAGTCCCGCAACCTAAATGCTTTGGTAAAATTAGTAGAGGAAAAGAAGTTCGGGGCAGAAGTAGTGCCAGGATTTTCAGGCACTCTCAGAAGGCTGCACGCCCTATGATATTAATCAAAT
176861_8776181_HIV2-Con2A_1_15	1666	1786	TGCTTAATTGTGTGGCGGACCATCAAGCAGCTATGCAAATAATCAGGGAGATTATTAATGAAGAAGCAGCAGATTGGGATGCGCAACATCCAATACCAGGCCCCCTTACCAGCGGGGCAGC
176861_8776181_HIV2-Con2A_1_16	1785	1905	CTTAGAGAACCAAGAGGCTGCATAGCAGGGACACAAAGCAGTAGAAGAACAGATTCCAGTGGATTGTTAGGCCACAAAATCCCTGTACCACTAGTAGAAACATCTATAGAAGATGGATC
176861_8776181_HIV2-Con2A_1_17	1904	2024	CACAGATAGGCTCAGAAAGTGTGTACAGGATGTACAAACCCAAACCAACATCTCTAGACATAAAACAGGGACCAAGGAGGCGGTTCCAAAGCTATGTAGATAGATTCTACAAAAGCTTGAGGGC
176861_8776181_HIV2-Con2A_1_18	2023	2143	CAGAACAAACAGATCCAGCAGTAAAGAAATTGGATGACCCAAACACTGCTAGTACAGAATGCCAACCCAGACTGTAAATTAGTACTAAAAGGACTAGGGATGAATCCTACCTTAGAAGAGA
176861_8776181_HIV2-Con2A_1_19	2142	2262	ATGCTAACCGCCTGTGAGGGGTAGGTGGACCAAGCCAGGAAGCCAGATTATATGGCAGAAGCCTTAAAGGAGGCCATGGCACCAAGCCCCATCCCATTTGACAGCAGCCAGCAGAGAAGG
176861_8776181_HIV2-Con2A_1_20	2261	2381	GACRAATTAAGTGGTGCACAAATTGTGGAAAGGAAGGACACTCGCGAAGACAATTCGAGCACTTAGAAGACAGGGCTGCTGGAATGTGGCAAGCAGGATCATATGGAACCTGCGCCAG
176861_8776181_HIV2-Con2A_1_21	2380	2500	AAAGACAGGCGGGTTTTTTTAGGGATGGGCCCATGGGGAAGAAAGCCCGCAACTTCCCGCTGGGCCAAGTTCGCGAGGGGCTAACACCAACAGCACCCCCAGTAGATCCAGCAGTGGACC
176861_8776181_HIV2-Con2A_1_22	2499	2619	CTACTGGAGAAATATATGTCAGCAAGGGAGAGAAAGCAGAGGGAGCAGAGAGAGAGACCATACAAAGAGGTGACAGAGAGGCTTACTGCACCTCGAGCAGGAGAGACCAATGACAGGAGACG
176861_8776181_HIV2-Con2A_1_23	2618	2738	GACAGAGGACTTGCTGCACCTCAATTTCTCTCTTTGAAAAGACCAAGTAGTTCACAGCATACATTTAGGGGTGAGCCAGTGAAGTTTACTAGACACAGGGGCTGACGACTCAATAGTAGCA
176861_8776181_HIV2-Con2A_1_24	2737	2857	AGGAATAGAGTTAGGGAGCAATTTATAGTCCAAAAATAGTAGGGGGAATAGGGGGATTTCATAAATACCAAAGAAATATAAAAATGTAGAAATAGAAGTATAAATAAAGGGTAAAGAGCCAC
176861_8776181_HIV2-Con2A_1_25	2856	2976	CCATAATGACAGGTGATACCCCAATCAACATTTTTTGGCAGAAATATTCTGACAGCCTTAGGCATGTCAATTAATCTACCACTGCGCAAGATAGAACCAATAAAGTAATGCTGAAGCCAG
176861_8776181_HIV2-Con2A_1_26	2975	3095	GGAAGAAGATGGACCAAACTGAGACAATGGCCCTTAACAAAAGAAAAAATAGAAGCACTAAAAGAAATCTGTGAAAAAATGGAAAAAGAGGGCCAGCTAGAGGAAGCACTCCAACATAAT
176861_8776181_HIV2-Con2A_1_27	3094	3214	TCCTTTATAATACCCCCACATTTTGCAATCAAGAAAAAGGACAAAAACAAATGGAGGATGCTAATAGATTTTAGAGAACTAAACAAGGTAACCTCAAGATTTTCACAGAAATTCAGTTAGGAAT
176861_8776181_HIV2-Con2A_1_28	3213	3333	TCCACACCCAGCAGGATTAGCCCAAGAGAAGAAATTAATCTGACTAGATGTAGGGGATGCTTACTTTTCCATACCCTACATGAAGATTTTAGACAGTATACTGCATTTACTCTACCAT
176861_8776181_HIV2-Con2A_1_29	3332	3452	TCAGTAAACAATGCAGAACCAAGGAAAAAGATATATATATAAAGTCTTGCCACAGGGATGGAAGGGATCACCAAGCAATTTTTCAATACACAATGAGGCAGGTCTTAGAACCACTTCAGAAAA
176861_8776181_HIV2-Con2A_1_30	3451	3571	AGCAAAACCCAGATGTCAATTATCATTTAGTACATGGATGATATCTTAATAGCTAGTGACAGGACAGATTTAGAACATGACAAAGTAGTCCTGCAGCTAAAGGAACCTCTCAATTTGGCCTAGG
176861_8776181_HIV2-Con2A_1_31	3570	3690	GATTTTCTACCCAGATGAGAAGTTCCAAAAAGCCCTCCATCAACATGGATGGGCTATGAACCTGTGGCCAACCTAAATGGAAGCTGCAGAAAAATACAATTTGCCCAAAAAAGAGTATGGAA
176861_8776181_HIV2-Con2A_1_32	3689	3809	ACAGTCAATGACATCCAAAAGCTAGTGGGTGCTTAAATTTGGGAGGAGCAACCAATCTACCCAGGGAATAAGAACCAACCACTTATGAGCTAATTAGAGGAAAAAATGACACTCACAGAAAC
176861_8776181_HIV2-Con2A_1_33	3808	3928	AGTACAGTGGACAGAATTAGCAGAAGCAGAGCTAGAAGAAAAACAAATTTATCTTAAGCCAGGAACAAGAGGGACACTATTACCAAGAAGAAAAAGAAATTAGAAGCAACAGTCCAAAAAGA
176861_8776181_HIV2-Con2A_1_34	3927	4047	ATCAAGACAATCAGTGGACATATAAAATACACAGGGAGAAAAAATTTCTAAAAGTAGGAATAATGCAAAAGATAAAAAATACCCATACCAATGGGGTCAGATTGTTAGCACAGGTAGTTTC
176861_8776181_HIV2-Con2A_1_35	4046	4166	CAGAAAAATAGGAAAAGAAGCACTAGTCATTTGGGGACGAATACCAAAATTTTCCACTACCAGTAGAGAGAGAAAACTGGGAGCAGTGGTGGGATAACTACTGGCAAGTGACATGGATCCCA
176861_8776181_HIV2-Con2A_1_36	4165	4285	AGACTGGGACTTCGTATCTACCCCACTGCTGAGTTAGCATTTAACCTAGTAAAAAGATCCCTAACAGGCGCAGAGACCTTCTACACAGATGGATTGCTGCAATAGGCAGTCAAAAGA
176861_8776181_HIV2-Con2A_1_37	4284	4404	AAGGAAAAGCAGGATATGTAAACAGATAGAGGGAGAGACAAGGTAAGGTATTAGAGCAAACTACCAATCAGCAAGCAGAATTAGAAGCCTTTGCAATGGCACTAACAGACTCAGGTCCAA
176861_8776181_HIV2-Con2A_1_38	4403	4523	AAAGTCAATATTATAGTAGACTTCACAGTATGTAAATGGGAATAGTAGCAGGCCAACCAACAGAGTCAGAAAGTAGAATAGTAAATCAAAATCAGTAGAGAAATGATAAAAAAGGAAGCAATC
176861_8776181_HIV2-Con2A_1_39	4522	4642	CTATGTTGTCATGGGTCCAGCCCATAAAGGCATAGGAGGAAATCAGGAAGTAGATCAATTTAGTAAGTCAGGGCATCAGACAAGTATTGTTCTAGAAAAATAGAGCCCGCTCAGGAAGA
176861_8776181_HIV2-Con2A_1_40	4641	4761	AACATGAAAAATATCATAGCAATGTAAAAGAACTATCCCATAAATTTGGAATATCCCAAACTAGTGGCAAGCAAAATAGTAACACATGTGCGCAATGTCAACAGAAAGGAGGCTATAC
176861_8776181_HIV2-Con2A_1_41	4760	4880	CATGGGCAAGTAAATGCAGAATTAGGCACCTTGGCAAAATGGACTGCACACACTTAGAAGGAAAAATCATTATAGTAGCAGTACATGTTGCAAGTGGATTTATAGAAGCAGAAGTCATCCCA
176861_8776181_HIV2-Con2A_1_42	4879	4999	ACAGGAATCAGGAAGGCAACAGACACTCTTCCTATTAAAACTGGCCAGTAGGTGGCCAAATAACACACTTGACACAGATAATGTTGCCAACTTCACTTCACAGGAAGTGAAGATGGTAGC

176861_8776181_HIV2-Con2A_1_43	4998	5118	CATGGTGGGTAGGTATAGAACAACTCTTTGGAGTACCTTACAATCCACAAGCCAAGGAGTAGTAGAAGCAATGAATCACCACCTAAAAAATCAGATAAGTAGAATTAGAGAGCAGGCCAA
176861_8776181_HIV2-Con2A_1_44	5117	5237	AATACAGTAGAAACAATAGTACTAATGGCAGTTCAATTGCATGAATTTTAAAGAGAGGGGAGGAATAGGGGATATGACCCACAGCAGAAAGACTTAATCAATATGATCACCCACAGAAACAAGAA
176861_8776181_HIV2-Con2A_1_45	5236	5356	ATATACAATTCTCCCAAGAAAAAATTCAAAATTTAAAGAAATTTCCGGTGCTATTTCAGAGAAGGCAGACTCAGCTGTGGAAAGGACCTGGGAGCACTGTGGGAAGGAGCAGGCAGT
176861_8776181_HIV2-Con2A_1_46	5355	5475	TCAATAGTCAAGGTAGGGACAGACATAAAAGTAGTACCAAGAAAGGAAAGCCAAAGTATCATCAGAGACTATGGAGGAAGGCCAAGAGCTGGATAGTGTGTTCCCACTTGGAGGGTGCCAGGGGAGG
176861_8776181_HIV2-Con2A_1_47	5474	5594	GATGGAGAAGTGGCATAGCCTTGTCAAGTATCTAAAATACAGAACAAAGATCTAGAAAAGGTGTGCTATGTTCCTCCCACTAAGGTGGGATGGGCATGGTGGACTTGCAGCAGGGTAAAT
176861_8776181_HIV2-Con2A_1_48	5593	5713	TATTTCCCATTTAAAGGAAAAAGTCATCTAGAGATACAGGCATATTGGAACCTAACCACAGAAAAAGGATGGCTCTCCTCTTATGCAGTAAAGAATAAATTTGGTATACAGAAAAGTTCTGGGA
176861_8776181_HIV2-Con2A_1_49	5712	5832	ACAGATGTTACCCGAGACTGTGCAGACTCCCTAATAACATAGCAGCTTATTTCTCTTGCTTTACGGCAGGTGAAGTAAAGAAGCCATCAGAGGGGAAAAGTTATTGTCTCTGTCGAATTAT
176861_8776181_HIV2-Con2A_1_50	5831	5951	TCCCCAAGCCCAATAATCCCAGGTACCGTCACTTCAATTTCTGGCCTTAGTGGTAGTGCAACAAAAATGACAGACCCACAGAGAAACAGTACCACCAGGAAACAGTGGCGAAGAGACTATCG
176861_8776181_HIV2-Con2A_1_51	5950	6070	GGAGAGGCCTTCGCGTGGCTAGACAGGACAGTAGAAGCCATAAACAGAGAGGCAGTGAATCACCTGCCCCGGGAGCTTATTTCCAGGTGTGGCAAAGGTCTCTGGAGATACTGGCATGAT
176861_8776181_HIV2-Con2A_1_52	6069	6189	TGAACAAGGGGATGTCACCAAGTTACACAAAGTATAGATATTTGTGCTTAAATGCAGAAAGCTATGTTTCATACATTTTAAAGAGGGGTGCACCTTGCCTGGGGGGAGGACATGGGCCAGGAGG
176861_8776181_HIV2-Con2A_1_53	6188	6308	GATGGAGACCAGACCTCCCCCTCTCCCTCCAGGCTAGTCTAATGATCAAGCACCAACAGAGTTTCCCCCGAGGATGGGACCCCAACGAGGGAGGCTCAGGGGATGATGGGTAAAT
176861_8776181_HIV2-Con2A_1_54	6307	6427	TAGAAATCCTGAGAGAAATAAAAGAAGAAGCTTTAAAGCATTTTGACCCCTCGCTTGCTAATTGTCTCTTGGCAACTATATCTATACTAGACATGGAGACACCCCTGAAGGCCAGAGAGC
176861_8776181_HIV2-Con2A_1_55	6426	6546	CTCATTAGAGTCTCTACAACAGAGCCCTCTTCATGCACCTTCAGAGCAGGATGTGGCCACTCAAGAATTGGCCAAACAGGGGAGGAAATCTCTCTCAGCTATACCGACCCCTAGAGGCATG
176861_8776181_HIV2-Con2A_1_56	6545	6665	GCAATAACACATGCTATTGTGAAGCAATGCTGTACCATTTGCCAGCTGTGTTTTTAAACAAGGGGCTCGGGATATGTTATGACCCGAAGGGCAGCAGCAAGAAGGACTCCAAGAAAAACTA
176861_8776181_HIV2-Con2A_1_57	6664	6784	AAGGCTCTTCGCTTCTGATGACCAAGTGAGTATGCTGTGGTAGGAATCAGCTGCTTGTTCGCATTTTTACTAGCTAGTCTGCTTAAATATTTGCAACCAATATGTGACTGTGTT
176861_8776181_HIV2-Con2A_1_58	6783	6903	TTCTATGGCATAACCCGCGTGGAGAAATGCATCCATTCCCTCTTTTGTGCAACCAAAAAATAGAGATACTTGGGGAACCATACAGTGCCTTGGCAGACAATGATGATTATCAGGAAATAGCT
176861_8776181_HIV2-Con2A_1_59	6902	7022	TTTAAATGTGACAGAGGCTTTTGATGATGGGATAATACAGTAACAGAACCAAGCAATAGAAGATGTCTGGAATCTATTTGAGACATCAATAAAACCATGTGTCAAATTAACACCTTTATG
176861_8776181_HIV2-Con2A_1_60	7021	7141	GTGTAGCAATGAACGTGTACAAGGAACATGACCACATGGACAGGGAGGACAGACCCCAAAATATCACACAATTATAAATGACACTTCTCCATGCATACGCGCAGACAACCTGCTCAGGAT
176861_8776181_HIV2-Con2A_1_61	7140	7260	TTAGGGGAGGAAGACATGGTCAATTGTTCAGTTCAATATGACAGGATTAGAGAGAGATAAAGAAAAACAGTATAAATGAACATGGTACTCAAAAGATGTGGTTTGTGAACAAATAATACC
176861_8776181_HIV2-Con2A_1_62	7259	7379	CACAACAAAAAGAGCAAAATGTTACATGAACCATTTGCAACACATCAGTCATCAGAGTTCATGTGATAAGCACTATTGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGTTATGC
176861_8776181_HIV2-Con2A_1_63	7378	7498	CCCTGCTAAGATGCAATGATACCAATATTATTCAGGCTTTGAGCCCAATTGCTCTAAGTAGTAGTGTGTACATGCACAAGGATGATGGAAACGCCAAACTTCTACTTGGTTTGGCTTTAATG
176861_8776181_HIV2-Con2A_1_64	7497	7617	GGCACTAGAGCAGAAAAATAGAACATATCTATTGGCATGGTAGAGATAATAGAACTATCATCAGCTTTAAACAAATATTATAATCTCACTATGCATTGTAAGAGGCCAGGAAATAAGACA
176861_8776181_HIV2-Con2A_1_65	7616	7736	AGTTGTACCAATAACACTTATGTGCAGGGTTAATGTTTCACTCCAGGCAGTCATCAATAAAGAACCCAGGCAGCATGGTCTGGTTCAAAGGCAAAATGGAAGGAAGCCATGCAGGAGGT
176861_8776181_HIV2-Con2A_1_66	7735	7855	TGAAGCAAAACCTTGCAAAACATCCCAGGTATAAAGGAACCAATGACACAAAGAAAAATTAACTTTACAGCACCGGAAAAGGCTCAGACCCAGAAGTGGCATACATGTGGACTAAGTCA
176861_8776181_HIV2-Con2A_1_67	7854	7974	AGAGGAGAATTTCTCTACTGCAACATGACCTTGGTTCCTCAATTGGGTAGAAAAACAGGACGAATCAGACACAGCGCAATTTATGCGCGGTGCCATATAAAGGCAAAATTAATACTGGGAT
176861_8776181_HIV2-Con2A_1_68	7973	8093	TAAGGTAGGGAATAATGTATATTTGGCTCCTAGGGAAGGAGAGTTGACCTTGAAGTCAACTCAACAGTACACAGCATTAATGCTAACATTGACGTGGATGAAATCAGACAAATATTACCTTTAG
176861_8776181_HIV2-Con2A_1_69	8092	8212	GTGCAGAGGTGGCAGAACTTATACCGAATTAGAATTTGGGGATTATAAAATGTAGTAAATAAACCACCAATTTGGCTTTCGCACCTACATCAGAGAAAGAAAGTACTCTCTGTCTCAGGGAGACATA
176861_8776181_HIV2-Con2A_1_70	8211	8331	AAAAGAGGTGTGTTCTGTCTAGGGTTCTTGGGTTTCTTCGCAACAGCAGGTCTTCAATGGGCCGCGGCTCTTGCAGCTGTCCGGCTCAGTCCCGGACTTTACTGGCCGGGATAGTGCAG
176861_8776181_HIV2-Con2A_1_71	8330	8450	GCAACAGCAACAGCTGTTGGACGTGGTCAAGAGACAACAAGAAATGTGTCAGCTGACCGCTGTGGGGAACAAAAATCTCCAGGCAGAGTCTACTGCTATCAGAAAGTACCTAAAGGACCA
176861_8776181_HIV2-Con2A_1_72	8449	8569	AGGCGCAGCTAAATTTCAAGGATGTGCGTTTAGACAAGTCTGCCACACTGTGCACATGGGTAATGATTCCTTAACACCTGATTGGAAACAATATGACATGGCAGGAATGGGAACAAA
176861_8776181_HIV2-Con2A_1_73	8568	8688	AAAGTCCGCTACCTAGAGGCAAAATATCAGTCAAAGTTTAGAACAGGCACAAATTCAGCAAGAAAAAGAAATATGTATGAAGTACAAAAATTAATAGCTGGGATGTTTTTGGCAACTGGTTTT
176861_8776181_HIV2-Con2A_1_74	8687	8807	TGACTTAACCTCCTGGATCAAGTATATTCAAATATGGAGTTTATATAGTAGTAGGAATAATAGCTTTAAGAATAAGTAATATATGTAGTACAAATGTTAAGTAGACTTAGAAAGGGCTATAG
176861_8776181_HIV2-Con2A_1_75	8806	8926	GGCCTGTTTTCTCTTCCCCCCCCGGTTATATCCAACAGATCCATATCCAAGGACCCGGGAACAGCCAGCCAGAGAGAAGAAACAGAAGAAGACGTTGGAGACAACCGTGGAGACAGATCGT
176861_8776181_HIV2-Con2A_1_76	8925	9045	TGGCCTTGGCCGATAGCATATATACATTTCCGTGATCCGCTGCTGATTCCGCTTTTGACCCGAGTATACAAACATCTGCAGGACTTCAAGGATCTCCCTGACCCCTCCAACCAATC
176861_8776181_HIV2-Con2A_1_77	9044	9164	CTTCCAGAGTCTCCAGAGAACACTGACAGCAATCAGAGACTGGCTGAGACTTAAAGCAGCCTACCTGCAATATGGGTGCGAGTGGATCCAAGAAGCGTTCCAGGCCTTCGCGAGGGCTAC
176861_8776181_HIV2-Con2A_1_78	9163	9283	CGAGAGAGACTCTTGCAGCGCGTGGAGGGGCTTGTGGGGGCATTGGGACGAATCGGGAGGGGAATACTCGCAGTCCCAAGAAGGATCAGCAGGGGAGCAGAAATCGCCCTCTCTGTGAG
176861_8776181_HIV2-Con2A_1_79	9282	9402	GGGACAGCGGTATCAGCAGGGAGACTTTATGAATACCCCATGGAGAACCACAGCAGCAGAGAAGGAGAGAAAAATTTATACAAGCAACAAAAATATGGATGATGTAGATTTCAGATGATGATGA
176861_8776181_HIV2-Con2A_1_80	9401	9521	ACCTAGTAGGAGTCTCTGTGCACACCAAGAGTACCACTAAGAGCAATGACATATAAATTGGCAGTAGATATGTGCACATTTTATAAAGAAAAAGGGGGACTGGAAGGGATGTTTTACAGTG
176861_8776181_HIV2-Con2A_1_81	9520	9640	GAGAGAAGACATAGAATCCTAGACATATACTTAGAAAAGGAAGAAGGGATAATTCCAGATTGGCAGAAATATACTCATGGGCCAGGAGTAAGATACCCAATGTCTTTGGGTGGCTATGG
176861_8776181_HIV2-Con2A_1_82	9639	9759	GAACTAGTACCAGTAGATGTCCCACAAGAGGGGGAGGACGATGAGACTCACTGTCTTAATACCCAGCACAACAAAGCAGGTATGATGACCCGATGGGGAACACTAGTCTGGAGGTT
176861_8776181_HIV2-Con2A_1_83	9758	9878	TTGACCCCATGCTGGCCTATGATTACAAGGCCTTTATCTATACCCAGGGAATTTGGGCACAAGCTCAGGCCTGCCAGAAGAAGAGTGAAGGGCAAACTGAAAGCAAGAGGGATACCAT
176861_8776181_HIV2-Con2A_1_84	9877	9997	TGAGCTTAAGACAGGAACAGCATATACTTGGTCAGGACGAAGTAGCTACCTCACTGATGACAGGACTTTCAGAGAGGCTGTATCCAGAGGGCTGTATCCAGAGGGGACATGGGAGGAGCT
176861_8776181_HIV2-Con2A_1_85	9996	10116	TGGTGGGGAACGCCCTCATACTTTCTGTATAAATGTACCCGCTGCTTGCATTGTATTTCAGTCCGCTTCCGGAGAGGCTGGCAGATTGAGCCCTGGGAGGTTCTCTCCAGCACTAGCAGGT
176861_8776181_HIV2-Con2A_1_86	10115	10235	TAGAGCCTGGGTGTTCCCTGCTAGACTCTCACCAGTGTCTGGCCGGCACTGGGCAGACGGCTCCACGCTTGCTTGCTTAAAGACCTCTTAATAAAGCTGCCAGTTAGAAGCAAGTTAAGT
176861_8776181_HIV2-Con2A_1_87	10234	10353	TGTGTGTTCCCATCTCTCTAGTCGCCGCCCTGGTCATTCCGTGTTCCACCTGAGTAAACAAGACCCTGGTCTGTTAGGACCCCTTCTGCTTTGGGAAACCAAGGCAGGAAAAATCCCTAGCA
176861_8776182_Con2A_6982-7101_1_1	1	120	ATGTGACAGAGGCTTTTGTATGCATGGGATAATACAGTAACAGAAACAGCAATAGAAGATGTCTGGAATCTATTGAGACATCAATAAAACCATGTGTCAAATTAACACCTTTATGTGTA
176861_8776183_Con2A_7249-7371_1_1	1	120	ACTGCTCAGGATTAGGGGAGGAAGAGATGGTCAATTGTTCAGTTCAATATGACAGGATTAGAGAGAGATAAGAAAAACAGTATAATGAACATGGTACTCAAAGATGTGGTTTGTGAA
176861_8776184_Con2A_7451-7570_1_1	1	120	TGATAAGCACTATTGGGATGCTATGAGGTTTAGATACTGTGCACCCACCGGGTTATGCCCTGCTAAGATGCAATGATACCAATTAATTCAGGCTTTGAGCCCAATTGCTCTAAAGTAGTAG
176861_8776185_HIV2B-cgConsensus_1_1	0	120	TGGAAGGGATTACTATAGTGAGAGAAGACATAGAATACTAGACACATATCTAGAGAATTAGGAAGGCATTGTGCTGGATGGCAAACTATACACATGGGCCAGGGGTAAAGTATCCAA
176861_8776185_HIV2B-cgConsensus_1_2	119	239	AAGTCCTTTGGTTGGCTGTGGAAAGTACAGTACCAGTAGATATGACAGCAAGCAGGAGGGAGAGGAAACCATTTGTCTGGTGCACCCAGCAGACACTTCTATGGGATGACCCCCAC
176861_8776185_HIV2B-cgConsensus_1_3	238	358	CGGGGAGACCCTTGTCTGGCAGTTTGATCCCTCCTGGCATATGACTATGTGGCCTTCAACAGGTTCCCAAGAAGAGTTTGGGTATCAGTCAGGACTACCAGAGAAGGATGGAAGGCTAG
176861_8776185_HIV2B-cgConsensus_1_4	357	477	GACTAAAAGCAAGAGGAATACCTACAGACTAGGCAGGAAACAGCAGCATAAACAGGAAGTACGCTGACACTGCATAAGAAGGAACTAGCTGACACTGCAGGGACTTTCCAAAGGGGCTG

176861_8776185_HIV2B-cgConsensus_1_5	476	596	GTAACATGGGAGGGACATGGGAGGAGTTGGTGGGGAACGCCCATTAATCTCTGTATAAATGTACCCGCTTTTTCATTTGTATTAGTCGCTCTCGGGAGAGGCTGGCAGATTGAGCCCT
176861_8776185_HIV2B-cgConsensus_1_6	595	715	TGGGAGGTTCTCTCCAGCAGCTAGCAGGTAGAGCCTGGGTGTTTCCTGCTAGACTCTCACAGCAGCTTGGCCGGTGCTGGGCAGACGGCTCCACGCTTGCTTGCTTAAACCCCTCTTAATA
176861_8776185_HIV2B-cgConsensus_1_7	714	834	AAAGCTGCCAATTAGAAAGCAAGTTAAGTGTGTGTTCCCATCTCTCTGATCGCCGCTCCACTGAAATAAAGACCCTGGTCTGTGTAGGACCTTCTTGCTTGGGTA
176861_8776185_HIV2B-cgConsensus_1_8	833	953	AAACCAAGCAGAGAAAATCCCTAGCAGATTGGCGCCCGAACAGGGACTTGAAGAAGAGTGTAGTCTCTCGGAACACGGCTGAGTGAAGGCAGTAAAGGCGCAGGAATCAACCCAGCGG
176861_8776185_HIV2B-cgConsensus_1_9	952	1072	GAGAGCTCCTGTAAAGGCGCAGGCGCGGTACCAGGCAGCGTGAGGAGCGGGAGGAGAAGAGGCCTCCGGGAGGAAAGGTAAGTACTCCAAATTTTGAATTTGTCTACTCTAAAAAGAGGTA
176861_8776185_HIV2B-cgConsensus_1_10	1071	1191	AGGGCATAAGTGGGAGATGGGCGCGAGAGGCTCCGTCTTGTTCAGGGAAGAAAACAGATGAATTAGAAAAAGTTAGGTTACGGCCCGCGCGGAAAGAAAAAGTATATGCTAAAAACATGTAGT
176861_8776185_HIV2B-cgConsensus_1_11	1190	1310	TATGGGCAGTGAACGAATTGGACAGATTGGATTAGCAGAGAGCCTGTTGGAATCAAAAGAAAGGATGTCAAAAAATTTCTTACGGTCTTAGCTCCATTAGTACCAACAGGATCAGAAAAAT
176861_8776185_HIV2B-cgConsensus_1_12	1309	1429	TTAAAAAGCCTTTTAAATACTGTCTGCGTCATTTTGGTCTTGCACGCAGAGAAGAAAAGTGAAGATACTGAGGAAGCAAAAAAGATAGCAGACAGACATCTAGCGCGGACACAGAAAAA
176861_8776185_HIV2B-cgConsensus_1_13	1428	1548	AATGCCAGCTACAAGTAAACCAACAGCACCACCTAGCGCGCGAAATTACCCAGTGCAGCAAGTAGCTGGCAATTATGTCCACCTGCGCTAAGCCCCCGAACCTTAAATGCCTGGGTAAA
176861_8776185_HIV2B-cgConsensus_1_14	1547	1667	AATTAGTAGAAGAAAAAGATTTCGGGCGAGAAGTAGTACCAGGATTTTCAGGCACATCAGAAAGGATGCACCCCTTATGATATTAAATCAGATGCTAAATTGTGTAGGAGAATCATCAGGCAG
176861_8776185_HIV2B-cgConsensus_1_15	1666	1786	GCCATGCAAAATTATTAGAGAAATAATCAATGAGGAAGCAGCAGATGGTACCAGCAGCAGCCCGATACCAGGCCACTGCCAGCAGGACCTTAGGGAACCTTACGAGGCTCAGATATAGGA
176861_8776185_HIV2B-cgConsensus_1_16	1785	1905	AGGAACCAACCCAGCACAGTAGAGGAACAGATACAGTGGATGTACAGGGCCCAAAATCCTGTCCCAGTAGGAAACATTTATAGAAGATGGATTCAATTAGGACTGCAGAAATGTGTCGGGAT
176861_8776185_HIV2B-cgConsensus_1_17	1904	2024	TGTACAATCCTACCAATATACTAGACATAAAGCAAGGCGCAAAAGAACCTCTCCAAAGCTATGTAGATAGATTCTACAAAAAGCTTACGGGCAGAACAAACAGACCCAGCAGTGAAAAATT
176861_8776185_HIV2B-cgConsensus_1_18	2023	2143	TGGATGACACAAACACTGCTGATTCAAGATGCTAACCCAGATTGCAAGTTAGTACTTAAAGGGCTTGGGAATGAACCCACCTTAGAGGAAATGCTGACAGCCTGCCAAGGGATAGGAGGC
176861_8776185_HIV2B-cgConsensus_1_19	2142	2262	CCAGGGCTAAAGAGCAAGCCTAATGGCTGAAGCCTTTAAAGAAAGCCTTAACACTCAGCATACCCGTTTGTCTGCCGTCAACAAAAGAGCAGGAGGAGGATGCACTGTGGAA
176861_8776185_HIV2B-cgConsensus_1_20	2261	2381	ACTGTGGCAAAGGGGACACACAGCCAGGCAATGCAGGGCCCCCTAGAAGACAGGGATGCTGGAAATGTGGAACACAGGACACATCATGTCAAATGCCAGAAAGACAGGCGGGTTTTT
176861_8776185_HIV2B-cgConsensus_1_21	2380	2500	TTAGGGTTTGGACCCCTGGGGAAGAAGCCTCGCAACTTCCCCATGACCCAAAGTGCTCAGGGGTGACGCCATCTGCAACCCCGATGAACCCAGCAGAGGGCATGACACCTCAGGGGGCG
176861_8776185_HIV2B-cgConsensus_1_22	2499	2619	GACACCATCTGCGCCCCCTGCAGATCCAGCAGTGGAGATGCTGAAAAACTACATGCAGCTGGGGAAGCAGCAGAGAGAGAGCCGAGAGAGACCTTACAAGGAGGTGACAGAGGATTTGCT
176861_8776185_HIV2B-cgConsensus_1_23	2618	2738	TGCACCTCAATTCTCTCTTTGGAGAAGACAGTAGTCAAAGCATATATCGAGGGTCAGCCAGTAGAAGTATTACTAGACACAGGGGCTGATGACTCAATAGTAGCAGGAATAGAATTAGG
176861_8776185_HIV2B-cgConsensus_1_24	2737	2857	GTAGCAATTACACCCCAAAATAGTAGGAGGAATAGGAGGATTCATAAATACCAAAGAATACAAAATGTAGAAATAGAAGTAGTAGGAAAAAGAGTAAGAGCAACTATAATGACAGGAG
176861_8776185_HIV2B-cgConsensus_1_25	2856	2976	GACACCCCAATAAACATTTTGGGAGAAATATTTTAAATACCTTAGGCATGACTCTAAATTTCCCAAGTGGCAAAAATAGAACCAGTAAAGTCAAGTTAAACCTGGAAAGATGGACCA
176861_8776185_HIV2B-cgConsensus_1_26	2975	3095	AAAAATCAGACAAATGGCCTCTATCTAAAGAAAAGATACTAGCCCTCAAAGAAATCTGTGAAAAATGGAAAAGGAGGACAACTAGAGAAGACACCCCTACTAATCCATAACACACACC
176861_8776185_HIV2B-cgConsensus_1_27	3094	3214	CCACCTTTGGCATAAAGAGAAGGACAAAAACAATGGAGAATGCTAATAGATTTCAGAGAATTAAACAAGGTAAACCAAGCTTTACAGAAGTCCAATGGGTATTCCCAACCCGGGAG
176861_8776185_HIV2B-cgConsensus_1_28	3213	3333	GGGCTGGCAGAAAAAAGGAGAATAACAGTACTAGATGTAGGAGATGCCTACTTTCAGTATCCCAGTATAGTCCAGACTTCAGACAAATATACAGCATTCACCTTGCCATCAGTAATAATGCA
176861_8776185_HIV2B-cgConsensus_1_29	3332	3452	AGAGCCAGGAAAAAGATACATTTTAAAGTCTTACCACAAGGATGGAAGGGATCCCCAGCAATTTTTCATACTCCATGAGGAAGGTACTAGACCCCTTCAGAAAAAGCCAAACATGATGT
176861_8776185_HIV2B-cgConsensus_1_30	3451	3571	TCATATAATCCAGTACATGGATGACATCCTTGTAGCAAGTGACAGAGATCTTAGAGCATGACAGGCTAGTGTCTCAACTAAAAGAGCTATTAAATGACATGGGATTTCTTACCCAG
176861_8776185_HIV2B-cgConsensus_1_31	3570	3690	GAAAGAAAAGTTTCAAAAAGACCCCTCCATTCAAATGGATGGGTATTATAGCTCTGCGGCAAAAAGTGGAAATGCAAAAAATACAAGTCCAGCAATGAGTATTTGGACAGTAATGACATT
176861_8776185_HIV2B-cgConsensus_1_32	3689	3809	TCAGAACTAGTGGGAGTACTAACTGGGAGCTCAACTTTTTCTGGAATTAAAGACAAGGCACATATGCAAACTAATCAGGGGAAAGATGACCCCTAACAGAAGAAGTACAGTGGACAGA
176861_8776185_HIV2B-cgConsensus_1_33	3808	3928	AATTAGCAGAGGCAGAGTTGCAGGAAAAATAAATCATCTAGAACAGGAACAGGAAGGATCCTACTACAAAGAAAGGGGTACCTCTAGAAAGCAACAGTGCAGAAAAACCTTAGCAAAATCAGT
176861_8776185_HIV2B-cgConsensus_1_34	3927	4047	TGGACATACAAAAATCTCAGGAGATAGAAATCTTAAAGATGAGAAATATGCAAGGTTAAAAACCCACCAACCAATGGAGTAAAGTACTGGCACATGTAGTCTCAGAAAAATAGGAAAA
176861_8776185_HIV2B-cgConsensus_1_35	4046	4166	AGAAGCACTAGTCATCTGGGGAGAAATACCAATGTTCCATCTGCCAGTAGAAGAGAGACATGGGACCAGTGGTGGACAGATTACTGGCAAGTAACCTGGATCCCAGAATGGGATTTTGT
176861_8776185_HIV2B-cgConsensus_1_36	4165	4285	TCTCAACCCACCATTAGTAGACTAGCCTACAACTAGTCAAAGACCCCTAGAAGAGGTAGAAACCTACTACACAGATGGGTCTCTGCAACAGAGCCTCAAAGGAAGGAAAGCAGGAT
176861_8776185_HIV2B-cgConsensus_1_37	4284	4404	TATGTCACAGACAGGGGAAAAAGATAAGGTTAAAGTGTAGAGCAGACAACAAATCAACAAGCAGAACTTGAAGCATTTGCACTAGCATTACAGGATTACAGGCCAACAGTCAACATCATA
176861_8776185_HIV2B-cgConsensus_1_38	4403	4523	AGTAGATTCAAAATATGTATGGGAATATAGCTGGACAGCCAAACAGAAACAGAAATCACCAATAGTAAGATAAATAAATTTGAAGAAATGATCAAAAAGGAAGCAATATATGTAGGATGGGT
176861_8776185_HIV2B-cgConsensus_1_39	4522	4642	TGCCAGCTCACAAAGGACTAGGTGGTAATCAGGAAGTAGACCCTAGTAAGTCAAGGAATTAGACAGGTTCTATTCTAGAAAAATAGAACAGCTCAAGAAGAATATGAAAAATATC
176861_8776185_HIV2B-cgConsensus_1_40	4641	4761	CATGGCAATGTAAAGAACTAGTTCATAAAATTTGGAATTCACAAATTAGTGGCAAAACAAATAGTAATTTCTGTGATAAATGCCAACAAAAGGAGAGGTATTATGAGCAGGTAAAT
176861_8776185_HIV2B-cgConsensus_1_41	4760	4880	TGCAGAACTAGGGACATGGCAGATGGACTGTACACATTTAGAAGGAAAAATCATATAGTGGCAGTCCATGTAGCCAGTGGGTTTATAGAAGCAGAAGTAATACCCCAAGAAACAGGAAAG
176861_8776185_HIV2B-cgConsensus_1_42	4879	4999	GACAGACAGCTCTCTCTCTGTTAAAGTTGGCCAGCAGATGGCCTATCACACACCTGCACACAGACAATGGTGCCAACTTCACCTCACAAGATGTGAAGATGGTAGCCTGGTGGGTAGGAA
176861_8776185_HIV2B-cgConsensus_1_43	4998	5118	ATAGAACAAACCTTTTGAGTACCCTATAACCCACAAAGTCAGGGAGTAGTAGAAGCAATGAACCATCATCTAAAAAATCAAATAGATAGAATCAGAGACCAGGCATGATCAATAGAGACA
176861_8776185_HIV2B-cgConsensus_1_44	5117	5237	AGTTGTAATAATGGCAGCTCACTGCATGAATTTTAAAGAAAGGGGAGGAATAGGGGATATGACCCCTGCAGAGAGACTAGTTAAACATGATAACACAGAACAAAGAAATACAATTCTTCCA
176861_8776185_HIV2B-cgConsensus_1_45	5236	5356	AAGCAAAAAATTTAAATTTCAAATTTCCAGGTCTATTACAGAGAAGGCAGAGATCAACTCTGGAAGGGACCTGGTGAGCTATTGTGGAAGGGGAAGGAGCAGTCATCATAAAGGTAG
176861_8776185_HIV2B-cgConsensus_1_46	5355	5475	TGGACATACAAAAATCTCAGGAGATAGAAATCTTAAAGATGAGAAATATGCAAGGTTAAAAACCCACCAACCAATGGAGTAAAGTACTGGCACATGTAGTCTCAGAAAAATAGGAAAA
176861_8776185_HIV2B-cgConsensus_1_47	5474	5594	ACAGTCTGGTCAAGTACCTGAAGCATAGAACAAGAGATTGCAACAGGTCTCTTATGTCTCCCCACCACAAGGTAGGATGGGCTTGGTGGACTTGCAGTAGAGTAATATCCCCCTAAAAAG
176861_8776185_HIV2B-cgConsensus_1_48	5593	5713	GAAAGAGCATATCTAGAGGTCCAAGGATATTGGAATCTGACCCCGGAAAGGGGATTCTTGAGTTCTTATGCTGTAAGACTAACATGGTATAAAAGGAGCTTTTATACAGATGTAAACCT
176861_8776185_HIV2B-cgConsensus_1_49	5712	5832	TGATGTGGCAGACCAGCTACTGCATGGGTCTTATTCTCTTGCTTTACAGCCAATGAAGTAAGGAGAGCCATCAGGGGAGAAAAAGATATTGTCTTACTGCAACTATCCATCAGCTCACGA
176861_8776185_HIV2B-cgConsensus_1_50	5831	5951	AAGGGCAGGTACCAAGTTTACAGTTTCTAGCCTTAAAGATTGTACAAGAAGAAAAATGGATCCCAAGGAGAGAGTGGCACCAGGAAACAGCGACGAAGAAACAAATAGGAGAGGCATT
176861_8776185_HIV2B-cgConsensus_1_51	5950	6070	CGAATGGCTAGAAAGAACAAATACAGAGCTCAACAGGGAAGCAGTCAACCATTTGCCCCGAGAACTCATTTTCCAGGTCTGGCAAAGGCTCTGGGCATATTGGCGTGAGGAACAGGGCAT
176861_8776185_HIV2B-cgConsensus_1_52	6069	6189	TGTCAAATTAGCTACACCAAATATAGATACTTGTTCTTAATGCAAAAAGCAATGTTTGTGCAATTTTACAAAGGGCTGTACATGCCTGCGGAGGGGCCATTGGGCCAGGGGGATGGAGACCAG
176861_8776185_HIV2B-cgConsensus_1_53	6188	6308	GGACCTCCTCCTCTCCCTCCCGCAGGCTAGCCTAATGGCAGAGCAGCCACAGACTCCTCCAGAGAAATGAGGACCCACAGAGAGGCCATGGGAAGAGTGGGTAGAGGACGCTCTCG
176861_8776185_HIV2B-cgConsensus_1_54	6307	6427	GAGAAATAAAGCAAGAAGCCCTTAAAGCATTTTGTATCCCGCTTGCTAACTCGCTTGGTAACCTTTATCTACAGTAGGCATGGAGATACCCCTTGGAGAGAGAGAGACTCATTTAAATC
176861_8776185_HIV2B-cgConsensus_1_55	6426	6546	CCTCCAACGAGCGCTCTTCTCCACTTCAGAGGCGGTTGTCAACACTCAAGGATTGGACAACAGGGGGAGGAAATCCTCTCTCAGCTATACCGCCCTCTTAGGCATGCAATAATAAAT
176861_8776185_HIV2B-cgConsensus_1_56	6545	6665	TGCTACTGTAAAGAAATGCTGTCTACCATTGCCAGCTTGTGTTTCTTAAAAAGGCGCTTGGGATATGTTATGACCGCTCGAGAAAAAGATCTTCAAAAAGGGCTAAGGCTACTGCATCTTCT

176861_8776185_HIV2B-cgConsensus_1_57	6664	6784 TGCATCAGACAAGTGAGTATGGCACATATTAGCAATCACCTGCTTATTGCGCTCCTGCTTATAAGTGTCTATGGGTTTTTGTGTAAACAATATGTCACTGTCTTCTATGGCATACCCGCA
176861_8776185_HIV2B-cgConsensus_1_58	6783	6903 ATGGAGGAATGCAACAGTTCCCTCTTTTGTGCAACCAAAACAGAGATACCTGGGGAACTATACAGTGCCTCCAGACAATGATGATTATACCGAAATCGCTCTAAATGTAACAGAGGC
176861_8776185_HIV2B-cgConsensus_1_59	6902	7022 CTTTGTGATGCATGGAATAATACAGTAACAGAACAGGCAGTAGAGGATGTGTGGAGTCTTTTGTGACCTCAATAAAACCATGTGTCAAGCTAACACCACTATGTGTGGCAATGAACTGTA
176861_8776185_HIV2B-cgConsensus_1_60	7021	7141 AGTAAACTGAGACAAACCTAACAGGAAGCAGTAGTACCACCATACCCCCACTACTACCCTACTCATAAGCTTAAATAAGTATTATAATTTAAACAATACACTGTAGAAGGCCAGGAAACAAGACGT
176861_8776185_HIV2B-cgConsensus_1_61	7140	7260 AATAGGACTAGAAAAAATGGTTGACTGTCAATTAAATATGACAGGACTAAGAAGAGATGAGAAAAACAATATAATGACACCTGGTACTCACAAGATTTAGTGTGTGAAAAATACCAGGAA
176861_8776185_HIV2B-cgConsensus_1_62	7259	7379 AGAATAATGACAGCAGATGCTATATGAAAACCTGTAATACATCAGTTATCCAAGAGTCATGTGACAAACATTATTGGGATAGCTTAAGATTTAGGTACTGTGTCTCCCCAGGATTTGCTT
176861_8776185_HIV2B-cgConsensus_1_63	7378	7498 TTGCTAAGATGTAATGATACCAACTATTTCAGGCTTTATGCCCACTGTAGTAAAGTAGTAGTATCCTCTTGACAAAGAAATGATGGAACACAGACCTCTACATGGTTTGGCTTCAATGGT
176861_8776185_HIV2B-cgConsensus_1_64	7497	7617 TACAAGGGCAGAAAAATAGGACATATATATATTGGCATGGTAGAGATAATAGGACTATCATAAGCTTAAATAAGTATTATAATTTAAACAATACACTGTAGAAGGCCAGGAAACAAGACGT
176861_8776185_HIV2B-cgConsensus_1_65	7616	7736 TTGTACCAATAACAATCATGTTCAGGGCTAGTGTTCATTTCACAGCCTATCAATAAAAGACCCAGACAAAGCTTGGTGTCTGGTTTAAAGGAACTTGCAGACAGAACCCATAAAGGAGGTGAAGG
176861_8776185_HIV2B-cgConsensus_1_66	7735	7855 GAGACCATTTATAAAACATCCCAGGTATAAAGGAACAAAAATATCACAAGAGATAAAATTTGGCAGAGCCCGCAGCAGGTTTCAGATCCAGAAGTAACATACATGTGGACTAACTGCAGAGGA
176861_8776185_HIV2B-cgConsensus_1_67	7854	7974 AGAATTCTTCTACTGTAATATGACTTGGTTTTTAACTGGGTAGAAAACAGAACTGGTACAACTAAGAGAAATTATGTGCCGTGCCACATCAGACAGATAATCAACACGTGGCAACAAGGT
176861_8776185_HIV2B-cgConsensus_1_68	7973	8093 TAGGAAAAAATGTATATTTGCTCCAAGGGAAGGTGAGCTCACCTGTAATTCCTACTGTACCAGCCTCATAGCCAACATTGACTGGATTGATAACAGGAACCATACCAATATTACCATGA
176861_8776185_HIV2B-cgConsensus_1_69	8092	8212 AGTGCAGAAAGTGGCAGAACTGTATAGATTGGAATTGGGGGACTACAAATTAGTAGAAAATAACACCAATTGGCTTTGCACCTACAAAATGTAAAAAGATATTCTCAGCGACACCGAGGAAT
176861_8776185_HIV2B-cgConsensus_1_70	8211	8331 TAAAAGAGGTGTATTTGTGCTAGGGTTCTTGGGATTTCTTGCAACGGCAGGTTCTGCAATGGGCGCAGCGTCTTGACGCTGTTCAGTCTCAGTCCCGGACTTTACTGGCTGGGATAGTGCA
176861_8776185_HIV2B-cgConsensus_1_71	8330	8450 AGCAGCAGCAACAGCTGTGTGACGTGGTCAAAAGACAACAGGAACCTGTGCGGTGACCGTCTGGGGGACGAAAAACCTCCAGACAAGAGTCACTGCCATCGAGAAATACCTAAAGGACC
176861_8776185_HIV2B-cgConsensus_1_72	8449	8569 CAGGCACAACATAAATTCATGGGGATGTGCTTTTAGACAGGTCTGCCACACTACTGTACCATTGGCCAAATGAAACTCTCACACCAAACTGGGACAACATGACATGGCAACAATGGGAAAAA
176861_8776185_HIV2B-cgConsensus_1_73	8568	8688 ACAAGTCCACTACTTGGATGCAAAATATAACAGAACTATTAGAAGAGGCACAGATACAACAAGAAAAGAACATGTATGAATTACAGAAATTAAATAGCTGGGATGTTTTTGGTAATTGGTT
176861_8776185_HIV2B-cgConsensus_1_74	8687	8807 TTGACTTCACCTCCTGGATAAAATATATCAAGTTAGGACTATATGTAGTAGTAGGATTAATAGTGTTAAGAATAGTAATATACATTGTACAGATGCTAGCAAGACTTAGGAAGGGCTATA
176861_8776185_HIV2B-cgConsensus_1_75	8806	8926 AGGCCAGTATTCTCTCCCTCCCTCTTATATTCAACAGATCCCTATCCACAAGGACCGGGGACAGCCAGCCAACGAAGAAACAGAGAAGGAGGTGGAAACGACGGGGGCTACAGATCT
176861_8776185_HIV2B-cgConsensus_1_76	8925	9045 TTGGCCCTGGCAGATAGAATACATTCATTTCTGTATTCGCCAGCTGAGGAACCTCTTGATTTGGCTATACAACGGCTGCAGAACCTTACTATTGAAGACCTTCCAATCTCCAACCACT
176861_8776185_HIV2B-cgConsensus_1_77	9044	9164 TACTCCAACCACTCAGGCTTCCACTTGCATACCTCCAGTATGGGATCAGCTGGTTCCAAGAAGCAATCCAAGCAGCAGCGAGGGCTCGGGGAGAGACTCTTGCGAGCGCGGGGAGGGCCT
176861_8776185_HIV2B-cgConsensus_1_78	9163	9283 TTATGGGAGGCTCTCAGAAGAGCGGCGAGAGCAATCATCGCGATCCCCAGGAGGATCAGACAAGGACTTGAAGTTCGCCCTCTTGTGAGGGACAAAATGCCCCAGGAGCAGAAGGGGGAGG
176861_8776185_HIV2B-cgConsensus_1_79	9282	9402 GGCAACAAGATATAGATGATAGTGATGAGGATGATGAAGTGGGAGTCTATGTAAGACCCAATATGCCACTGAGACCAATGACATACAAATTTGGCAATAGACATGTCTCATTTTATAAAAG
176861_8776185_HIV2B-cgConsensus_1_80	9401	9521 GAAAAGGGGGGACTGGAAGGGATTTTTTATAGTGAGAGAAGACATAGAATATTAGACACATACTTAGAGAATGAGGAAGGCATTGTATCTGGATGGCAGAACTATACACATGGGCCAGGG
176861_8776185_HIV2B-cgConsensus_1_81	9520	9640 GATAAGATATCCAAGTCTTTTGGCTGGCTGTGGAAGCTAGTACCAGTAGATGTACCAGAAGAAGAGGAGGAAGAGGAGACCCATTGTCTGGTGCACCCAGCAGACAGACCTCTTCATGGGA
176861_8776185_HIV2B-cgConsensus_1_82	9639	9759 ATGACCCCCATGGGGAGACCTTTGTCTGGCAGTTTGATTCCCTCCTGGCATATGACTATGTGGCCTTCAACAGGTTCCAGAGAGTTTGGGTATCAGTCAGGGCTACAGAGAAAGAGT
176861_8776185_HIV2B-cgConsensus_1_83	9758	9878 TGGAAAGGCTAGACTAAAAGCAAGAGGAATACCTACAGATTAGGCAGGAAACAGCAGCATAAAGAGGAACTAGCTGACACTGCATAAGAAGAACTAGCTGACACTGCAGGGACTTTCCAA
176861_8776185_HIV2B-cgConsensus_1_84	9877	9997 AAAGGGGCTGTAACATGGGAGGGACATGGGAGGAGTTGGTGGGGAACGCCCATTAATCTCTGTATAAAATGTACCCGCTTTTTCATTGTATTTCAGTCGCTCTGCGGAGAGGCTGGCAGA
176861_8776185_HIV2B-cgConsensus_1_85	9996	10116 ATCGAGCCCTGGGAGGTTCTCTCCAGCACTAGCAGGTAGAGCCTGGGTGTTCCCTGCTAGACTCTCACCAGCACTTGGCCGGTGTCTGGGCAGACGGCTCCACGCTTGCTTTGCTTAAACC
176861_8776185_HIV2B-cgConsensus_1_86	10115	10235 CCTCTTAATAAACTGCCAATTAGAAGCAAGTTAAGTGTGTGTTCCCATCTCTCCTAGTCGCGCCTGGTCACTCGGTGCTCCACTGAAATAAAGACCCTGGTCTGTTAGGACCTTTCTG

Table S2A. Consensus sequence identity

HIV Reads		SMART	SMART+xGen	SMART_dup removed	SMART+xGen_dup removed
PBS5635					
SMART	12653		99.90%	99.90%	99.90%
SMART+xGen	522043	99.90%		99.80%	99.90%
SMART_dup removed	12155	99.90%	99.80%		99.80%
SMART+xGen_dup removed	242912	99.90%	99.90%	99.80%	
P406					
SMART	4676		99.10%	99.90%	99.70%
SMART+xGen	629912	99.10%		99.10%	99.30%
SMART_dup removed	4614	99.90%	99.10%		99.70%
SMART+xGen_dup removed	531814	99.70%	99.30%	99.70%	
PBS1189					
SMART	2260		99.80%	99.70%	99.70%
SMART+xGen	463644	99.80%		99.70%	99.80%
SMART_dup removed	2111	99.70%	99.70%		99.80%
SMART+xGen_dup removed	98446	99.70%	99.80%	99.80%	
50					
SMART	1731		98.90%	99.40%	99.20%
SMART+xGen	218072	98.90%		99.30%	99.50%
SMART_dup removed	1693	99.40%	99.30%		99.70%
SMART+xGen_dup removed	92015	99.20%	99.50%	99.70%	
87-2580					
SMART	5741		99.70%	99.80%	99.70%
SMART+xGen	221335	99.70%		99.70%	99.80%
SMART_dup removed	5565	99.80%	99.70%		99.80%
SMART+xGen_dup removed	190384	99.70%	99.80%	99.80%	

Table S2B. Minor Variant analysis

	% genome coverage	Total # minor variants	SMART	SMART+xGen	SMART_dup removed	SMART+xGen_dup removed
PBS5635						
SMART	95	103	71, 74.0% (71/96), 79.8% (71/89)	96, 95.0%(95/101), 97.9% (95/97)		
SMART+xGen	99	89			85, 95.5% (85/89), 92.4% (85/92)	
SMART_dup removed	95	97			79, 78.2% (79/101), 84.0% (79/94)	
SMART+xGen_dup removed	99	92				
P406						
SMART	98	210	122, 54.2% (122/225), 64.2% (122/190)	181, 92.3% (181/196), 98.4% (181/184)		
SMART+xGen	100	190			186, 96.9% (186/192), 87.3% (186/213)	
SMART_dup removed	98	184			152, 79.2% (159/192), 71.4% (152/213)	
SMART+xGen_dup removed	100	213				
PBS1189						
SMART	82	31	10, 28.6% (10/35), 33.3% (10/30)	27, 90.0% (27/30), 100.0% (27/27)		
SMART+xGen	86	30			20, 95.2% (20/21), 90.9% (20/22)	
SMART_dup removed	82	27			8, 30.8% (8/26), 38.1% (8/21)	
SMART+xGen_dup removed	86	22				
50						
SMART	83	116	35, 35% (35/100), 53.8% (35/65)	106, 80.9% (106/131), 95.5% (106/111)		
SMART+xGen	83	65			62, 93.9% (62/66), 91.2% (62/68)	
SMART_dup removed	83	111			43, 43% (43/100), 70.5% (43/61)	
SMART+xGen_dup removed	83	68				
87-2580						
SMART	96	95	68, 55.3% (68/123), 63% (68/108)	61, 70.3% (61/86), 82.4% (61/74)		
SMART+xGen	96	108			71, 87.7% (71/81), 75.5% (71/94)	
SMART_dup removed	96	74			8, 44.4% (8/18), 57.1% (8/14)	
SMART+xGen_dup removed	96	94				