

SARS-CoV-2 & HIV-1.apr

		Section 1									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(1)	1	10	20	30	40	50	60	70	80	97
	(1)	-----									
	(1)	ATTAAAGGTTTATACCTTCCCAGGTAACAAACCAACCAACTTTCGATCTCTTGTAGATCTGTTCTCTAAACGAACTTTAAAATCTGTGTGGCTGTCA									
		Section 2									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(98)	98	110	120	130	140	150	160	170	180	194
	(1)	-----									
	(98)	CTCGGCTGCATGCTTAGTGCACTCACGCAGTATAATTAATAACTAATTACTGTCGTTGACAGGACACGAGTAACTCGTCTATCTTCTGCAGGCTGCT									
		Section 3									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(195)	195	200	210	220	230	240	250	260	270	291
	(1)	-----									
	(195)	TACGGTTTCGTCCGTGTTGCAGCCGATCATCAGCACATCTAGGTTTTCGTCCGGGTGTGACCGAAAGGTAAGATGGAGAGCCTTGTCCTGGTTTCAA									
		Section 4									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(292)	292	300	310	320	330	340	350	360	370	388
	(1)	-----									
	(292)	CGAGAAAACACACGTCCAACCTCAGTTTGCTGTTTTACAGGTTTCGCGACGTGCTCGTACGTGGCTTTGGAGACTCCGTGGAGGAGGTCTTATCAGAG									
		Section 5									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(389)	389	400	410	420	430	440	450	460	470	485
	(1)	-----									
	(389)	GCACGTCAACATCTTAAAGATGGCACTTGTGGCTTAGTAGAAGTTGAAAAAGGCGTTTTGCCTCAACTTGAACAGCCCTATGTGTTTCATCAAACGTT									
		Section 6									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(486)	486	500	510	520	530	540	550	560	570	582
	(1)	-----									
	(486)	CGGATGCTCGAACTGCACCTCATGGTCATGTTATGGTTGAGCTGGTAGCAGAACTCGAAGGCATTTCAGTACGGTCGTAGTGGTGAGACACTTGGTGT									
		Section 7									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(583)	583	590	600	610	620	630	640	650	660	679
	(1)	-----									
	(583)	CCTTGTCCTCATGTGGGCGAAATACCAGTGGCTTACCGCAAGGTTCTTCTTCGTAAGAACGGTAATAAAGGAGCTGGTGGCCATAGTTACGGCGCC									

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		Section 8									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(680)	680	690	700	710	720	730	740	750	760	776
	(1)	-----									
	(680)	GATCTAAAGTCATTTGACTTAGGCGACGAGCTTGGCACTGATCCTTATGAAGATTTTCAAGAAAACCTGGAACACTAAACATAGCAGTGGTGTTACCC									
		Section 9									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(777)	777	790	800	810	820	830	840	850	860	873
	(1)	-----									
	(777)	GTGAACTCATGCGTGAGCTTAACGGAGGGGCATACACTCGCTATGTCGATAACAACCTTCTGTGGCCCTGATGGCTACCCTCTTGAGTGCATTAAAGA									
		Section 10									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(874)	874	880	890	900	910	920	930	940	950	970
	(1)	-----									
	(874)	CCTTCTAGCACGTGCTGGTAAAGCTTCATGCACTTTGTCCGAACAACCTGGACTTTATTGACACTAAGAGGGGTGTATACTGCTGCCGTGAACATGAG									
		Section 11									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(971)	971	980	990	1000	1010	1020	1030	1040	1050	1067
	(1)	-----									
	(971)	CATGAAATTGCTTGGTACACGGAACGTTCTGAAAAGAGCTATGAATTGCAGACACCTTTTGAAATTAAATTGGCAAAGAAATTTGACACCTTCAATG									
		Section 12									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(1068)	1068	1080	1090	1100	1110	1120	1130	1140	1150	1164
	(1)	-----									
	(1068)	GGGAATGTCCAAATTTTGTATTTCCCTTAAATTCCATAATCAAGACTATTCAACCAAGGGTTGAAAAGAAAAGCTTGATGGCTTTATGGGTAGAAT									
		Section 13									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(1165)	1165	1170	1180	1190	1200	1210	1220	1230	1240	1261
	(1)	-----									
	(1165)	TCGATCTGTCTATCCAGTTGCGTCACCAAATGAATGCAACCAAATGTGCCTTTCAACTCTCATGAAGTGTGATCATTGTGGTGAACTTCATGGCAG									
		Section 14									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(1262)	1262	1270	1280	1290	1300	1310	1320	1330	1340	1358
	(1)	-----									
	(1262)	ACGGGCGATTTTGTAAAGCCACTTGCGAATTTTGTGGCACTGAGAATTTGACTAAAGAAGGTGCCACTACTTGTGGTTACTTACCCCAAATGCTG									

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		Section 15											
		(1359)	1359	1370	1380	1390	1400	1410	1420	1430	1440	1455	
HIV-1 HXB2	(1)		-----										
SARS-CoV-2 NC_045512.2	(1359)		TTGTTAAAATTTATTGTCCAGCATGTCACAATTCAGAAGTAGGACCTGAGCATAGTCTTGCCGAATACCATAATGAATCTGGCTTGAAAACCATTCT										
		Section 16											
		(1456)	1456	1470	1480	1490	1500	1510	1520	1530	1540	1552	
HIV-1 HXB2	(1)		-----										
SARS-CoV-2 NC_045512.2	(1456)		TCGTAAGGGTGGTCGCACTATTGCCTTTGGAGGCTGTGTGTTCTCTTATGTTGGTTGCCATAACAAGTGTGCCTATTGGGTTCCACGTGCTAGCGCT										
		Section 17											
		(1553)	1553	1560	1570	1580	1590	1600	1610	1620	1630	1649	
HIV-1 HXB2	(1)		-----										
SARS-CoV-2 NC_045512.2	(1553)		AACATAGGTTGTAACCATACAGGTGTTGTTGGAGAAGGTTCCGAAGGTCTTAATGACAACCTTCTTGAAATACTCCAAAAAGAGAAAGTCAACATCA										
		Section 18											
		(1650)	1650	1660	1670	1680	1690	1700	1710	1720	1730	1746	
HIV-1 HXB2	(1)		-----										
SARS-CoV-2 NC_045512.2	(1650)		ATATTGTTGGTGACTTTAAACTTAATGAAGAGATCGCCATTATTTTGGCATCTTTTTCTGCTTCCACAAGTGCTTTTGTGGAAACTGTGAAAGGTTT										
		Section 19											
		(1747)	1747	1760	1770	1780	1790	1800	1810	1820	1830	1843	
HIV-1 HXB2	(1)		-----										
SARS-CoV-2 NC_045512.2	(1747)		GGATTATAAAGCATTCAAACAAATTGTTGAATCCTGTGGTAATTTTAAAGTTACAAAAGGAAAAGCTAAAAAAGGTGCCTGGAATATTGGTGAACAG										
		Section 20											
		(1844)	1844	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940
HIV-1 HXB2	(1)		-----										
SARS-CoV-2 NC_045512.2	(1844)		AAATCAATACTGAGTCCTCTTTATGCATTTGCATCAGAGGCTGCTCGTGTTGTACGATCAATTTTCTCCCGCACTCTTGAAACTGCTCAAATTTCTG										
		Section 21											
		(1941)	1941	1950	1960	1970	1980	1990	2000	2010	2020	2037	
HIV-1 HXB2	(1)		-----										
SARS-CoV-2 NC_045512.2	(1941)		TGCGTGTTTTACAGAAGGCCGCTATAACAATACTAGATGGAATTTACAGTATTCACTGAGACTCATTGATGCTATGATGTTACATCTGATTTGGC										

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											Section 22	
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(2038)	2038	2050	2060	2070	2080	2090	2100	2110	2120	2134	
	(1)	-----										
	(2038)	TACTAACAATCTAGTTGTAATGGCCTACATTACAGGTGGTGTGTTTCAGTTGACTTCGCAGTGGCTAACTAACATCTTTGGCACTGTTTATGAAAAA										
											Section 23	
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(2135)	2135	2140	2150	2160	2170	2180	2190	2200	2210	2220	2231
	(1)	-----										
	(2135)	CTCAAACCCGTCCTTGATTGGCTTGAAGAGAAGTTTAAGGAAGGTGTAGAGTTTCTTAGAGACGGTTGGGAAATTGTTAAATTTATCTCAACCTGTG										
											Section 24	
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(2232)	2232	2240	2250	2260	2270	2280	2290	2300	2310	2328	
	(1)	-----										
	(2232)	CTTGTAATTTGTCGGTGGACAAATTGTACCTGTGCAAAGGAAATTAAGGAGAGTGTTTCAGACATTCTTTAAGCTTGTAATAAATTTTTGGCTTT										
											Section 25	
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(2329)	2329	2340	2350	2360	2370	2380	2390	2400	2410	2425	
	(1)	-----										
	(2329)	GTGTGCTGACTCTATCATTATTGGTGGAGCTAAACTTAAAGCCTTGAATTTAGGTGAAACATTTGTCACGCACTCAAAGGGATTGTACAGAAAGTGT										
											Section 26	
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(2426)	2426	2440	2450	2460	2470	2480	2490	2500	2510	2522	
	(1)	-----										
	(2426)	GTTAAATCCAGAGAAGAACTGGCCTACTCATGCCTCTAAAAGCCCCAAAAGAAATTATCTTCTTAGAGGGAGAAACACTTCCCACAGAAGTGTTAA										
											Section 27	
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(2523)	2523	2530	2540	2550	2560	2570	2580	2590	2600	2619	
	(1)	-----										
	(2523)	CAGAGGAAGTTGTCTTGAAAACCTGGTGATTTACAACCATTAGAACAACCTACTAGTGAAGCTGTTGAAGCTCCATTGGTTGGTACACCAGTTTGTAT										
											Section 28	
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(2620)	2620	2630	2640	2650	2660	2670	2680	2690	2700	2716	
	(1)	-----										
	(2620)	TAACGGGCTTATGTTGCTCGAAATCAAAGACACAGAAAAGTACTGTGCCCTTGACCTAATATGATGGTAACAAACAATACCTTCACACTCAAAGGC										

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											Section 29
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(2717)	2717	2730	2740	2750	2760	2770	2780	2790	2800	2813
	(1)	-----									
	(2717)	GGTGCACCAACAAAGGTTACTTTTGGTGATGACACTGTGATAGAAGTGCAAGGTTACAAGAGTGTGAATATCACTTTTGAACCTTGATGAAAGGATTG									
											Section 30
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(2814)	2814	2820	2830	2840	2850	2860	2870	2880	2890	2910
	(1)	-----									
	(2814)	ATAAAGTACTTAATGAGAAGTGCTCTGCCTATACAGTTGAACTCGGTACAGAAGTAAATGAGTTCGCCTGTGTTGTGGCAGATGCTGTCATAAAAAAC									
											Section 31
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(2911)	2911	2920	2930	2940	2950	2960	2970	2980	2990	3007
	(1)	-----									
	(2911)	TTTGCAACCAGTATCTGAATTACTTACACCACTGGGCATTGATTTAGATGAGTGGAGTATGGCTACATACTACTTATTTGATGAGTCTGGTGAGTTT									
											Section 32
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3008)	3008	3020	3030	3040	3050	3060	3070	3080	3090	3104
	(1)	-----									
	(3008)	AAATTGGCTTCACATATGTATTGTTCTTTCTACCCTCCAGATGAGGATGAAGAAGAAGGTGATTGTGAAGAAGAAGAGTTTGAGCCATCAACTCAAT									
											Section 33
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3105)	3105	3110	3120	3130	3140	3150	3160	3170	3180	3201
	(1)	-----									
	(3105)	ATGAGTATGGTACTGAAGATGATTACCAAGGTAAACCTTTGGAATTTGGTGCCACTTCTGCTGCTCTTCAACCTGAAGAAGAGCAAGAAGAAGATTG									
											Section 34
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3202)	3202	3210	3220	3230	3240	3250	3260	3270	3280	3298
	(1)	-----									
	(3202)	GTTAGATGATGATAGTCAACAACTGTTGGTCAACAAGACGGCAGTGAGGACAATCAGACAACCTACTATTCAAACAATTGTTGAGGTTCAACCTCAA									
											Section 35
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3299)	3299	3310	3320	3330	3340	3350	3360	3370	3380	3395
	(1)	-----									
	(3299)	TTAGAGATGGAACCTTACACCAGTTGTTTCAGACTATTGAAGTGAATAGTTTTAGTGGTTATTTAAACCTTACTGACAATGTATACATTAAAAATGCAG									

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											Section 36
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3396)	3396	3410	3420	3430	3440	3450	3460	3470	3480	3492
	(1)	-----									
	(3396)	ACATTGTGGAAGAAGCTAAAAAGGTAAAACCAACAGTGGTTGTTAATGCAGCCAATGTTTACCTTAAACATGGAGGAGGTGTTGCAGGAGCCTTAAA									
											Section 37
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3493)	3493	3500	3510	3520	3530	3540	3550	3560	3570	3589
	(1)	-----									
	(3493)	TAAGGCTACTAACAATGCCATGCAAGTTGAATCTGATGATTACATAGCTACTAATGGACCACTTAAAGTGGGTGGTAGTTGTGTTTTAAGCGGACAC									
											Section 38
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3590)	3590	3600	3610	3620	3630	3640	3650	3660	3670	3686
	(1)	-----									
	(3590)	AATCTTGCTAAACACTGTCTTCATGTTGTCGGCCCAAATGTTAACAAAGGTGAAGACATTCAACTTCTTAAGAGTGCTTATGAAAATTTTAATCAGC									
											Section 39
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3687)	3687	3700	3710	3720	3730	3740	3750	3760	3770	3783
	(1)	-----									
	(3687)	ACGAAGTTCTACTTGCACCATTATTATCAGCTGGTATTTTTGGTGCTGACCCTATACATTCTTTAAGAGTTTGTGTAGATACTGTTTCGCACAAATGT									
											Section 40
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3784)	3784	3790	3800	3810	3820	3830	3840	3850	3860	3880
	(1)	-----									
	(3784)	CTACTTAGCTGTCTTTGATAAAAAATCTCTATGACAAACTTGTTTCAAGCTTTTTGGAAATGAAGAGTGAAAAGCAAGTTGAACAAAAGATCGCTGAG									
											Section 41
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3881)	3881	3890	3900	3910	3920	3930	3940	3950	3960	3977
	(1)	-----									
	(3881)	ATTCTTAAAGAGGAAGTTAAGCCATTTATAACTGAAAGTAAACCTTCAGTTGAACAGAGAAAACAAGATGATAAGAAAATCAAAGCTTGTGTTGAAG									
											Section 42
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(3978)	3978	3990	4000	4010	4020	4030	4040	4050	4060	4074
	(1)	-----									
	(3978)	AAGTTACAACAACCTCTGGAAGAACTAAGTTCCTCACAGAAAACCTTGTTACTTTATATTGACATTAATGGCAATCTTCATCCAGATTCTGCCACTCT									

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Section 43												
HIV-1 HXB2	(4075)	4075	4080	4090	4100	4110	4120	4130	4140	4150	4160	4171
SARS-CoV-2 NC_045512.2	(1)	-----										
	(4075)	TGTTAGTGACATTGACATCACTTTCTTAAAGAAAGATGCTCCATATATAGTGGGTGATGTTGTTCAAGAGGGTGTTTTAACTGCTGTGGTTATACCT										
Section 44												
HIV-1 HXB2	(4172)	4172	4180	4190	4200	4210	4220	4230	4240	4250		4268
SARS-CoV-2 NC_045512.2	(1)	-----										
	(4172)	ACTAAAAAGGCTGGTGGCACTACTGAAATGCTAGCGAAAGCTTTGAGAAAAGTGCCAACAGACAATTATATAACCACTTACCCGGGTGAGGGTTTAA										
Section 45												
HIV-1 HXB2	(4269)	4269	4280	4290	4300	4310	4320	4330	4340	4350		4365
SARS-CoV-2 NC_045512.2	(1)	-----										
	(4269)	ATGGTTACACTGTAGAGGAGGCAAAGACAGTGCTTAAAAAGTGTAAGAGTGCCCTTTTACATTCTACCATCTATTATCTCTAATGAGAAGCAAGAAAT										
Section 46												
HIV-1 HXB2	(4366)	4366	4380	4390	4400	4410	4420	4430	4440	4450		4462
SARS-CoV-2 NC_045512.2	(1)	-----										
	(4366)	TCTTGGAAGCTGTTTCTTGGAATTTGCGAGAAATGCTTGACATGCAGAAAGAAACACGCAAATTAATGCCTGTCTGTGTGGAAGCTAAAGCCATAGTT										
Section 47												
HIV-1 HXB2	(4463)	4463	4470	4480	4490	4500	4510	4520	4530	4540		4559
SARS-CoV-2 NC_045512.2	(1)	-----										
	(4463)	TCAACTATACAGCGTAAATATAAGGGTATTAAAAATACAAGAGGGTGTTGGTTGATTATGGTGCTAGATTTTACTTTTACACCAGTAAACAAGCTGTAG										
Section 48												
HIV-1 HXB2	(4560)	4560	4570	4580	4590	4600	4610	4620	4630	4640		4656
SARS-CoV-2 NC_045512.2	(1)	-----										
	(4560)	CGTCACTTATCAACACACTTAACGATCTAAATGAAACTCTTGTTACAATGCCACTTGGCTATGTAACACATGGCTTAAATTTGGAAGAAGCTGCTCG										
Section 49												
HIV-1 HXB2	(4657)	4657	4670	4680	4690	4700	4710	4720	4730	4740		4753
SARS-CoV-2 NC_045512.2	(1)	-----										
	(4657)	GTATATGAGATCTCTCAAAGTGCCAGCTACAGTTTCTGTTTCTTCACCTGATGCTGTTACAGCGTATAATGGTTATCTTACTTCTTCTTCTAAACA										

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Section 50												
HIV-1 HXB2	(4754)	4754	4760	4770	4780	4790	4800	4810	4820	4830	4840	4850
SARS-CoV-2 NC_045512.2	(1)	CCTGAAGAACATTTTATTGAAACCATCTCACTTGCTGGTTCCTATAAAGATTGGTCCTATTCTGGACAATCTACACAACCTAGGTATAGAATTTCTTTA										
Section 51												
HIV-1 HXB2	(4851)	4851	4860	4870	4880	4890	4900	4910	4920	4930		4947
SARS-CoV-2 NC_045512.2	(1)	AGAGAGGTGATAAAAGTGATATTACACTAGTAATCCTACCACATTCCACCTAGATGGTGAAGTTATCACCTTTGACAATCTTAAGACACTTCTTTTC										
Section 52												
HIV-1 HXB2	(4948)	4948	4960	4970	4980	4990	5000	5010	5020	5030		5044
SARS-CoV-2 NC_045512.2	(1)	TTTGAGAGAAGTGAGGACTATTAAGGTGTTTACAACAGTAGACAACATTAACCTCCACACGCAAGTTGTGGACATGTCAATGACATATGGACAACAG										
Section 53												
HIV-1 HXB2	(5045)	5045	5050	5060	5070	5080	5090	5100	5110	5120	5130	5141
SARS-CoV-2 NC_045512.2	(1)	TTTGGTCCAACCTTATTTGGATGGAGCTGATGTTACTAAAAATAAAACCTCATAATTCACATGAAGGTAAAACATTTTATGTTTTACCTAATGATGACA										
Section 54												
HIV-1 HXB2	(5142)	5142	5150	5160	5170	5180	5190	5200	5210	5220		5238
SARS-CoV-2 NC_045512.2	(1)	CTCTACGTGTTGAGGCTTTTGAGTACTACCACACAACCTGATCCTAGTTTTCTGGGTAGGTACATGTCAGCATTAAATCACACTAAAAAGTGGAATA										
Section 55												
HIV-1 HXB2	(5239)	5239	5250	5260	5270	5280	5290	5300	5310	5320		5335
SARS-CoV-2 NC_045512.2	(1)	CCCACAAGTTAATGGTTTAACTTCTATTAAATGGGCAGATAACAACCTGTTATCTTGCCACTGCATTGTTAACACTCCAACAAATAGAGTTGAAGTTT										
Section 56												
HIV-1 HXB2	(5336)	5336	5350	5360	5370	5380	5390	5400	5410	5420		5432
SARS-CoV-2 NC_045512.2	(1)	AATCCACCTGCTCTACAAGATGCTTATTACAGAGCAAGGGCTGGTGAAGCTGCTAACTTTTGTGCACTTATCTTAGCCTACTGTAATAAGACAGTAG										

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												Section 57	
		(5433)	5433	5440	5450	5460	5470	5480	5490	5500	5510	5529	
HIV-1 HXB2		(1)	-----										
SARS-CoV-2 NC_045512.2		(5433)	GTGAGTTAGGTGATGTTAGAGAAACAATGAGTTACTTGTTTCAACATGCCAATTTAGATTCTTGCAAAAGAGTCTTGAACGTGGTGTGTAAACTTG										
												Section 58	
		(5530)	5530	5540	5550	5560	5570	5580	5590	5600	5610	5626	
HIV-1 HXB2		(1)	-----										
SARS-CoV-2 NC_045512.2		(5530)	TGGACAACAGCAGACAACCCTTAAGGGTGTAGAAGCTGTTATGTACATGGGCACACTTTCTTATGAACAATTTAAGAAAGGTGTTTCAGATACCTTGT										
												Section 59	
		(5627)	5627	5640	5650	5660	5670	5680	5690	5700	5710	5723	
HIV-1 HXB2		(1)	-----										
SARS-CoV-2 NC_045512.2		(5627)	ACGTGTGGTAAACAAGCTACAAAATATCTAGTACAACAGGAGTCACCTTTTGTATGATGTCAGCACCACCTGCTCAGTATGAACTTAAGCATGGTA										
												Section 60	
		(5724)	5724	5730	5740	5750	5760	5770	5780	5790	5800	5810	5820
HIV-1 HXB2		(1)	-----										
SARS-CoV-2 NC_045512.2		(5724)	CATTTACTTGTGCTAGTGAGTACACTGGTAATTACCAGTGTGGTCACTATAAACATATAACTTCTAAAGAACTTTGTATTGCATAGACGGTGCTTT										
												Section 61	
		(5821)	5821	5830	5840	5850	5860	5870	5880	5890	5900	5917	
HIV-1 HXB2		(1)	-----										
SARS-CoV-2 NC_045512.2		(5821)	ACTTACAAAGTCCTCAGAATACAAAGGTCCTATTACGGATGTTTTCTACAAAGAAAACAGTTACACAACAACCATAAAACCAGTTACTTATAAATTG										
												Section 62	
		(5918)	5918	5930	5940	5950	5960	5970	5980	5990	6000	6014	
HIV-1 HXB2		(1)	-----										
SARS-CoV-2 NC_045512.2		(5918)	GATGGTGTTGTTTGTACAGAAATTGACCCTAAGTTGGACAATTATTATAAGAAAGACAATTCTTATTTTCACAGAGCAACCAATTGATCTTGTACCAA										
												Section 63	
		(6015)	6015	6020	6030	6040	6050	6060	6070	6080	6090	6100	6111
HIV-1 HXB2		(1)	-----										
SARS-CoV-2 NC_045512.2		(6015)	ACCAACCATATCCAAACGCAAGCTTCGATAATTTTAAGTTTGTATGTGATAATATCAAATTTGCTGATGATTTAAACCAGTTAACTGGTTATAAGAA										

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Section 64											
	(6112)	6112	6120	6130	6140	6150	6160	6170	6180	6190	6208
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(6112)	ACCTGCTTCAAGAGAGCTTAAAGTTACATTTTTCCCTGACTTAAATGGTGATGTGGTGGCTATTGATTATAAACACTACACACCCTCTTTTAAGAAA									
Section 65											
	(6209)	6209	6220	6230	6240	6250	6260	6270	6280	6290	6305
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(6209)	GGAGCTAAATTGTTACATAAACCTATTGTTTGGCATGTTAACAATGCAACTAATAAAGCCACGTATAAACCAAATACCTGGTGTATACGTTGTCTTT									
Section 66											
	(6306)	6306	6320	6330	6340	6350	6360	6370	6380	6390	6402
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(6306)	GGAGCACAAAACCAGTTGAAACATCAAATTCGTTTGATGTACTGAAGTCAGAGGACGCGCAGGGAATGGATAATCTTGCCTGCGAAGATCTAAAACC									
Section 67											
	(6403)	6403	6410	6420	6430	6440	6450	6460	6470	6480	6499
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(6403)	AGTCTCTGAAGAAGTAGTGGAAAATCCTACCATACAGAAAGACGTTCTTGAGTGTAATGTGAAAACCTACCGAAGTTGTAGGAGACATTATACTTAAA									
Section 68											
	(6500)	6500	6510	6520	6530	6540	6550	6560	6570	6580	6596
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(6500)	CCAGCAAATAATAGTTTAAAAATTACAGAAGAGGTTGGCCACACAGATCTAATGGCTGCTTATGTAGACAATTCTAGTCTTACTATTAAGAAACCTA									
Section 69											
	(6597)	6597	6610	6620	6630	6640	6650	6660	6670	6680	6693
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(6597)	ATGAATTATCTAGAGTATTAGGTTTGAAAACCTTGCTACTCATGGTTTAGCTGCTGTTAATAGTGTCCTTGGGATACTATAGCTAATTATGCTAA									
Section 70											
	(6694)	6694	6700	6710	6720	6730	6740	6750	6760	6770	6790
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(6694)	GCCTTTTCTTAACAAAGTTGTTAGTACAATACTACTAACATAGTTACACGGTGTTTAAACCGTGTTTGTACTAATTATATGCCTTATTTCTTTACTTTA									

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Section 71												
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(6791)	6791	6800	6810	6820	6830	6840	6850	6860	6870	6887	
	(1)	-----										
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(6791)	TTGCTACAATTGTGTACTTTTACTAGAAAGTACAAATCTAGAAATTAAAGCATCTATGCCGACTACTATAGCAAAGAATACTGTTAAGAGTGTCGGTA										
	(6791)											
Section 72												
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(6888)	6888	6900	6910	6920	6930	6940	6950	6960	6970	6984	
	(1)	-----										
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(6888)	AATTTTGTCTAGAGGCTTCATTTAATTATTTGAAGTCACCTAATTTTCTAAACTGATAAATATTATAAATTTGGTTTTTACTATTAAGTGTTCCT										
	(6888)											
Section 73												
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(6985)	6985	6990	7000	7010	7020	7030	7040	7050	7060	7070	7081
	(1)	-----										
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(6985)	AGGTTCTTTAATCTACTCAACCGCTGCTTTAGGTGTTTTAATGTCTAATTTAGGCATGCCTTCTTACTGTACTGGTTACAGAGAAGGCTATTTGAAC										
	(6985)											
Section 74												
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(7082)	7082	7090	7100	7110	7120	7130	7140	7150	7160	7178	
	(1)	-----										
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(7082)	TCTACTAATGTCACTATTGCAACCTACTGTACTGGTTCTATACCTTGTAGTGTTTGTCTTAGTGTTTAGATTCTTTAGACACCTATCCTTCTTTAG										
	(7082)											
Section 75												
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(7179)	7179	7190	7200	7210	7220	7230	7240	7250	7260	7275	
	(1)	-----										
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(7179)	AAACTATACAAATTACCATTTTCATCTTTTAAATGGGATTTAACTGCTTTTGGCTTAGTTGCAGAGTGGTTTTTGGCATATATTCTTTTCACTAGGTT										
	(7179)											
Section 76												
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(7276)	7276	7290	7300	7310	7320	7330	7340	7350	7360	7372	
	(1)	-----										
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(7276)	TTTCTATGTACTTGGATTGGCTGCAATCATGCAATTGTTTTTTCAGCTATTTTGCAGTACATTTTATTAGTAATTCTTGGCTTATGTGGTTAATAATT										
	(7276)											
Section 77												
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(7373)	7373	7380	7390	7400	7410	7420	7430	7440	7450	7469	
	(1)	-----										
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(7373)	AATCTTGTAACAAATGGCCCCGATTTTCAGCTATGGTTAGAATGTACATCTTCTTTCATCATTTTATTATGTATGGAAAAGTTATGTGCATGTTGTAG										
	(7373)											

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Section 78											
HIV-1 HXB2	(7470)	7470	7480	7490	7500	7510	7520	7530	7540	7550	7566
SARS-CoV-2 NC_045512.2	(7470)	ACGGTTGTAATTCATCAACTTGTATGATGTGTTACAAACGTAATAGAGCAACAAGAGTCGAATGTACAACATTGTTAATGGTGTTAGAAGGTCCTT									
Section 79											
HIV-1 HXB2	(7567)	7567	7580	7590	7600	7610	7620	7630	7640	7650	7663
SARS-CoV-2 NC_045512.2	(7567)	TTATGTCTATGCTAATGGAGGTAAAGGCTTTTGCAAACCTACACAATTGGAATTGTGTTAATTGTGATACATTCTGTGCTGGTAGTACATTTATTAGT									
Section 80											
HIV-1 HXB2	(7664)	7664	7670	7680	7690	7700	7710	7720	7730	7740	7750 7760
SARS-CoV-2 NC_045512.2	(7664)	GATGAAGTTGCGAGAGACTTGTCACTACAGTTTAAAAAGACCAATAAATCCTACTGACCAGTCTTCTTACATCGTTGATAGTGTTACAGTGAAGAATG									
Section 81											
HIV-1 HXB2	(7761)	7761	7770	7780	7790	7800	7810	7820	7830	7840	7857
SARS-CoV-2 NC_045512.2	(7761)	GTTCCATCCATCTTTACTTTGATAAAGCTGGTCAAAAAGACTTATGAAAGACATTCTCTCTCTCATTTTGTTAACTTAGACAACCTGAGAGCTAATAA									
Section 82											
HIV-1 HXB2	(7858)	7858	7870	7880	7890	7900	7910	7920	7930	7940	7954
SARS-CoV-2 NC_045512.2	(7858)	CACTAAAGGTTTCATTGCCTATTAATGTTATAGTTTTTGATGGTAAATCAAAATGTGAAGAATCATCTGCAAAATCAGCGTCTGTTTACTACAGTCAG									
Section 83											
HIV-1 HXB2	(7955)	7955	7960	7970	7980	7990	8000	8010	8020	8030	8040 8051
SARS-CoV-2 NC_045512.2	(7955)	CTTATGTGTCAACCTATACTGTTACTAGATCAGGCATTAGTGTCTGATGTTGGTGATAGTGCGGAAGTTGCAGTTAAATGTTTGATGCTTACGTTA									
Section 84											
HIV-1 HXB2	(8052)	8052	8060	8070	8080	8090	8100	8110	8120	8130	8148
SARS-CoV-2 NC_045512.2	(8052)	ATACGTTTTTCATCAACTTTTAAACGTACCAATGGAAAACTCAAAACACTAGTTGCAACTGCAGAAGCTGAAGTTGCAAGAATGTGTCCTTAGACAA									

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		Section 85									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(8149)	8149	8160	8170	8180	8190	8200	8210	8220	8230	8245
	(1)	-----									
	(8149)	TGTCTTATCTACTTTTATTTTCAGCAGCTCGGCAAGGGTTTGTTGATTGATGTAGAACTAAAGATGTTGTTGAATGTCTTAAATTGTCACATCAA									
		Section 86									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(8246)	8246	8260	8270	8280	8290	8300	8310	8320	8330	8342
	(1)	-----									
	(8246)	TCTGACATAGAAGTTACTGGCGATAGTTGTAATAACTATATGCTCACCTATAACAAAGTTGAAAACATGACACCCCGTGACCTTGGTGCTTGATTG									
		Section 87									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(8343)	8343	8350	8360	8370	8380	8390	8400	8410	8420	8439
	(1)	-----									
	(8343)	ACTGTAGTGCGCGTCATATTAATGCGCAGGTAGCAAAAAGTCACAACATTGCTTTGATATGGAACGTTAAAGATTTTCATGTCATTGTCTGAACAACT									
		Section 88									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(8440)	8440	8450	8460	8470	8480	8490	8500	8510	8520	8536
	(1)	-----									
	(8440)	ACGAAAACAAATACGTAGTGCTGCTAAAAAGAATAACTTACCTTTTAAAGTTGACATGTGCAACTACTAGACAAGTTGTTAATGTTGTAACAACAAAG									
		Section 89									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(8537)	8537	8550	8560	8570	8580	8590	8600	8610	8620	8633
	(1)	-----									
	(8537)	ATAGCACTTAAGGGTGGTAAAATTGTTAATAATTGGTTGAAGCAGTTAATTAAAGTTACACTTGTGTTCTTTTTGTTGCTGCTATTTTCTATTTAA									
		Section 90									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(8634)	8634	8640	8650	8660	8670	8680	8690	8700	8710	8720 8730
	(1)	-----									
	(8634)	TAACACCTGTTTCATGTCATGTCTAAACATACTGACTTTTCAAGTGAAATCATAGGATACAAGGCTATTGATGGTGGTGTCACTCGTGACATAGCATC									
		Section 91									
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(8731)	8731	8740	8750	8760	8770	8780	8790	8800	8810	8827
	(1)	-----									
	(8731)	TACAGATACTTGTTTTGCTAACAAACATGCTGATTTTGACACATGGTTTAGCCAGCGTGGTGGTAGTTATACTAATGACAAAGCTTGCCCATTGATT									

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											Section 92
	(8828)	8828	8840	8850	8860	8870	8880	8890	8900	8910	8924
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(8828)	GCTGCAGTCATAACAAGAGAAGTGGGTTTGTCTGCTGCCTGGTTTGCCTGGCACGATATTACGCACAACCTAATGGTGACTTTTGCATTTCTTACCTA									
											Section 93
	(8925)	8925	8930	8940	8950	8960	8970	8980	8990	9000	9010 9021
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(8925)	GAGTTTTTAGTGCAGTTGGTAACATCTGTTACACACCATCAAACTTATAGAGTACACTGACTTTGCAACATCAGCTTGTGTTTTGGCTGCTGAATG									
											Section 94
	(9022)	9022	9030	9040	9050	9060	9070	9080	9090	9100	9118
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(9022)	TACAATTTTAAAGATGCTTCTGGTAAGCCAGTACCATATTGTTATGATACCAATGTACTAGAAGGTTCTGTTGCTTATGAAAGTTTACGCCCTGAC									
											Section 95
	(9119)	9119	9130	9140	9150	9160	9170	9180	9190	9200	9215
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(9119)	ACACGTTATGTGCTCATGGATGGCTCTATTATTCAATTTCTTAACACCTACCTTGAAGGTTCTGTTAGAGTGGTAACAACCTTTGATTCTGAGTACT									
											Section 96
	(9216)	9216	9230	9240	9250	9260	9270	9280	9290	9300	9312
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(9216)	GTAGGCACGGCACTTGTGAAAGATCAGAAGCTGGTGTGTTGTGTATCTACTAGTGGTAGATGGGTACTTAACAATGATTATTACAGATCTTTACCAGG									
											Section 97
	(9313)	9313	9320	9330	9340	9350	9360	9370	9380	9390	9409
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(9313)	AGTTTTCTGTGGTGTAGATGCTGTAAATTTACTTACTAATATGTTTACACCACTAATTCAACCTATTGGTGCTTTGGACATATCAGCATCTATAGTA									
											Section 98
	(9410)	9410	9420	9430	9440	9450	9460	9470	9480	9490	9506
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(9410)	GCTGGTGGTATTGTAGCTATCGTAGTAACATGCCTTGCCTACTATTTTATGAGGTTTAGAAGAGCTTTTGGTGAATACAGTCATGTAGTTGCCTTTA									

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											Section 99
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(9507)	9507	9520	9530	9540	9550	9560	9570	9580	9590	9603
	(1)	-----									
	(9507)	ATACTTTACTATTTCCTTATGTCATTCACTGTACTCTGTTTAACACCAGTTTACTCATTCTTACCTGGTGTTTATTCTGTTATTTACTTGTACTTGAC									
											Section 100
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(9604)	9604	9610	9620	9630	9640	9650	9660	9670	9680	9690 9700
	(1)	-----									
	(9604)	ATTTTATCTTACTAATGATGTTTCTTTTTCAGTGGATGGTTATGTTTACACCTTTAGTACCTTTCTGGATAACAATTGCTTATATC									
											Section 101
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(9701)	9701	9710	9720	9730	9740	9750	9760	9770	9780	9797
	(1)	-----									
	(9701)	ATTTGTATTTCCACAAAGCATTTCTATTGGTTCTTTAGTAATTACCTAAAGAGACGTGTAGTCTTTAATGGTGTTTCCTTTAGTACTTTGAAGAAG									
											Section 102
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(9798)	9798	9810	9820	9830	9840	9850	9860	9870	9880	9894
	(1)	-----									
	(9798)	CTGCGCTGTGCACCTTTTTGTTAAATAAAGAAATGTATCTAAAGTTGCGTAGTGATGTGCTATTACCTCTTACGCAATATAATAGATACTTAGCTCT									
											Section 103
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(9895)	9895	9900	9910	9920	9930	9940	9950	9960	9970	9980 9991
	(1)	-----									
	(9895)	TTATAATAAGTACAAGTATTTTAGTGGAGCAATGGATACAACCTAGCTACAGAGAAGCTGCTTGTTGTCATCTCGCAAAGGCTCTCAATGACTTCAGT									
											Section 104
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(9992)	9992	10000	10010	10020	10030	10040	10050	10060	10070	10088
	(1)	-----									
	(9992)	AACTCAGGTTCTGATGTTCTTTACCAACCACCACAAACCTCTATCACCTCAGCTGTTTTGCAGAGTGTTTTAGAAAAATGGCATTCCCATCTGGTA									
											Section 105
HIV-1 HXB2 SARS-CoV-2 NC_045512.2	(10089)	10089	10100	10110	10120	10130	10140	10150	10160	10170	10185
	(1)	-----									
	(10089)	AAGTTGAGGGTTGTATGGTACAAGTAACCTTGTGGTACAACCTAACGGTCTTTGGCTTGATGACGTAGTTTACTGTCCAAGACATGTGATCTG									

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											Section 106	
	(10186)	10186	10200	10210	10220	10230	10240	10250	10260	10270	10282	
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(10186)	CACCTCTGAAGACATGCTTAACCCCTAATTATGAAGATTTACTCATTCGTAAGTCTAATCATAATTTCTTGGTACAGGCTGGTAATGTTCAACTCAGG										
											Section 107	
	(10283)	10283	10290	10300	10310	10320	10330	10340	10350	10360	10379	
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(10283)	GTTATTGGACATTCTATGCAAAATTGTGTACTTAAGCTTAAGGTTGATACAGCCAATCCTAAGACACCTAAGTATAAGTTTGTTCGCATTCAACCAG										
											Section 108	
	(10380)	10380	10390	10400	10410	10420	10430	10440	10450	10460	10476	
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(10380)	GACAGACTTTTTTCAGTGTTAGCTTGTTACAATGGTTCACCATCTGGTGTTTACCAATGTGCTATGAGGCCCAATTTCACTATTAAGGGTTCATTCCCT										
											Section 109	
	(10477)	10477	10490	10500	10510	10520	10530	10540	10550	10560	10573	
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(10477)	TAATGGTTCATGTGGTAGTGTTGGTTTTAACATAGATTATGACTGTGTCTCTTTTTGTTACATGCACCATATGGAATTACCAACTGGAGTTCATGCT										
											Section 110	
	(10574)	10574	10580	10590	10600	10610	10620	10630	10640	10650	10660	10670
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(10574)	GGCACAGACTTAGAAGGTAACCTTTTATGGACCTTTTGTGACAGGCAAACAGCACAAGCAGCTGGTACGGACACAACCTATTACAGTTAATGTTTTAG										
											Section 111	
	(10671)	10671	10680	10690	10700	10710	10720	10730	10740	10750	10767	
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(10671)	CTTGTTGTACGCTGCTGTTATAAATGGAGACAGGTGGTTTCTCAATCGATTTACCACAACCTCTTAATGACTTTAACCTTGTGGCTATGAAGTACAA										
											Section 112	
	(10768)	10768	10780	10790	10800	10810	10820	10830	10840	10850	10864	
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(10768)	TTATGAACCTCTAACACAAGACCATGTTGACATACTAGGACCTCTTCTGCTCAAACCTGGAATTGCCGTTTTAGATATGTGTGCTTCATTAAAAGAA										

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Section 113												
	(10865)	10865	10870	10880	10890	10900	10910	10920	10930	10940	10950	10961
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(10865)	TTACTGCAAAATGGTATGAATGGACGTACCATATTGGGTAGTGCTTTATTAGAAGATGAATTTACACCTTTTGATGTTGTTAGACAATGCTCAGGTG										
Section 114												
	(10962)	10962	10970	10980	10990	11000	11010	11020	11030	11040		11058
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(10962)	TTACTTTCCAAAGTGCAGTGAAAAGAACAATCAAGGGTACACACCACTGGTTGTTACTCACAATTTTGACTTCACTTTTAGTTTTAGTCCAGAGTAC										
Section 115												
	(11059)	11059	11070	11080	11090	11100	11110	11120	11130	11140		11155
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(11059)	TCAATGGTCTTTGTTCTTTTTTTTGTATGAAAATGCCTTTTTTACCTTTTGCTATGGGTATTATTGCTATGTCTGCTTTTGCAATGATGTTTGTCAAA										
Section 116												
	(11156)	11156	11170	11180	11190	11200	11210	11220	11230	11240		11252
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(11156)	CATAAGCATGCATTTCTCTGTTTGTGTTTGTACCTTCTCTTGCCACTGTAGCTTATTTTAATATGGTCTATATGCCTGCTAGTTGGGTGATGCGTA										
Section 117												
	(11253)	11253	11260	11270	11280	11290	11300	11310	11320	11330		11349
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(11253)	TTATGACATGGTTGGATATGGTTGATACTAGTTTGTCTGGTTTTAAGCTAAAAGACTGTGTTATGTATGCATCAGCTGTAGTGTTACTAATCCTTAT										
Section 118												
	(11350)	11350	11360	11370	11380	11390	11400	11410	11420	11430		11446
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(11350)	GACAGCAAGAACTGTGTATGATGATGGTGCTAGGAGAGTGTGGACACTTATGAATGTCTTGACACTCGTTTATAAAGTTTATTATGGTAATGCTTTA										
Section 119												
	(11447)	11447	11460	11470	11480	11490	11500	11510	11520	11530		11543
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(11447)	GATCAAGCCATTTCCATGTGGGCTCTTATAATCTCTGTTACTTCTAACTACTCAGGTGTAGTTACAACGTGCATGTTTTTGGCCAGAGGTATTGTTT										

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												Section 120
	(11544)	11544	11550	11560	11570	11580	11590	11600	11610	11620	11630	11640
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(11544)	TTATGTGTGTTGAGTATTGCCCTATTTTCTTCATAACTGGTAATACACTTCAGTGTATAATGCTAGTTTATTGTTTCTTAGGCTATTTTTGTACTTG										
												Section 121
	(11641)	11641	11650	11660	11670	11680	11690	11700	11710	11720		11737
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(11641)	TTACTTTGGCCTCTTTTGTTTACTCAACCGCTACTTTAGACTGACTCTTGGTGTTTATGATTACTTAGTTTCTACACAGGAGTTTAGATATATGAAT										
												Section 122
	(11738)	11738	11750	11760	11770	11780	11790	11800	11810	11820		11834
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(11738)	TCACAGGGACTACTCCCACCCAAGAATAGCATAGATGCCTTCAAACCTCAACATTAAATTGTTGGGTGTTGGTGGCAAACCTTGTATCAAAGTAGCCA										
												Section 123
	(11835)	11835	11840	11850	11860	11870	11880	11890	11900	11910	11920	11931
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(11835)	CTGTACAGTCTAAAATGTCAGATGTAAAGTGCACATCAGTAGTCTTACTCTCAGTTTTGCAACAACCTCAGAGTAGAATCATCATCTAAATTGTGGGC										
												Section 124
	(11932)	11932	11940	11950	11960	11970	11980	11990	12000	12010		12028
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(11932)	TCAATGTGTCCAGTTACACAATGACATTCTCTTAGCTAAAGATACTACTGAAGCCTTTGAAAAAATGGTTTCACTACTTTCTGTTTTGCTTTCCATG										
												Section 125
	(12029)	12029	12040	12050	12060	12070	12080	12090	12100	12110		12125
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(12029)	CAGGGTGCTGTAGACATAAACAAAGCTTTGTGAAGAAATGCTGGACAACAGGGCAACCTTACAAGCTATAGCCTCAGAGTTTAGTTCCCTTCCATCAT										
												Section 126
	(12126)	12126	12140	12150	12160	12170	12180	12190	12200	12210		12222
HIV-1 HXB2	(1)	-----										
SARS-CoV-2 NC_045512.2	(12126)	ATGCAGCTTTTGCTACTGCTCAAGAAGCTTATGAGCAGGCTGTTGCTAATGGTGATTCTGAAGTTGTTCTTAAAAAGTTGAAGAAGTCTTTGAATGT										

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											Section 127
	(12223)	12223	12230	12240	12250	12260	12270	12280	12290	12300	12319
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(12223)	GGCTAAATCTGAATTTGACCGTGATGCAGCCATGCAACGTAAGTTGGAAAAGATGGCTGATCAAGCTATGACCCAAATGTATAAACAGGCTAGATCT									
											Section 128
	(12320)	12320	12330	12340	12350	12360	12370	12380	12390	12400	12416
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(12320)	GAGGACAAGAGGGCAAAAGTTACTAGTGCTATGCAGACAATGCTTTTCACTATGCTTAGAAAGTTGGATAATGATGCACTCAACAACATTATCAACA									
											Section 129
	(12417)	12417	12430	12440	12450	12460	12470	12480	12490	12500	12513
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(12417)	ATGCAAGAGATGGTTGTGTTCCCTTGAACATAATACCTCTTACAACAGCAGCCAAACTAATGGTTGTCATACCAGACTATAACACATATAAAAAATAC									
											Section 130
	(12514)	12514	12520	12530	12540	12550	12560	12570	12580	12590	12600 12610
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(12514)	GTGTGATGGTACAACATTTACTTATGCATCAGCATTGTGGGAAATCCAACAGGTTGTAGATGCAGATAGTAAAATTGTTCAACTTAGTGAAATTAGT									
											Section 131
	(12611)	12611	12620	12630	12640	12650	12660	12670	12680	12690	12707
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(12611)	ATGGACAATTACCTAATTTAGCATGGCCTCTTATTGTAACAGCTTTAAGGGCCAATTCTGCTGTCAAATTACAGAATAATGAGCTTAGTCCTGTTG									
											Section 132
	(12708)	12708	12720	12730	12740	12750	12760	12770	12780	12790	12804
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(12708)	CACTACGACAGATGTCTTGTGCTGCCGGTACTACACAACTGCTTGCACTGATGACAATGCGTTAGCTTACTACAACACAACAAGGGAGGTAGGTT									
											Section 133
	(12805)	12805	12810	12820	12830	12840	12850	12860	12870	12880	12890 12901
HIV-1 HXB2	(1)	-----									
SARS-CoV-2 NC_045512.2	(12805)	TGTACTTGCACTGTTATCCGATTTACAGGATTTGAAATGGGCTAGATTCCCTAAGAGTGATGGAAGTGGTACTATCTATACAGAAGTGAACACCT									

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												Section 134		
	(12902)	12902	12910	12920	12930	12940	12950	12960	12970	12980	12998			
HIV-1 HXB2	(1)	-----TGG	AAGGGCTAA	TTCACTCCAA	CGAA--GA	CAAGATATC	CTTGATCTGT	GATCTACCA	CACACAAGG	GCTTCCC	TGATTAGC			
SARS-CoV-2 NC_045512.2	(12902)	TGTAGGTTTGT	TACAGACA	CACCTAAAGGT	CCTA-AA	AGTGAAAGTATT	TATACTTTAT	TA-----	AAGGA---TT	AAACAAC	C-----TAAATAG			
												Section 135		
	(12999)	12999	13010	13020	13030	13040	13050	13060	13070	13080	13095			
HIV-1 HXB2	(85)	AGAACTAC	ACACCAGG	GCCAG---GGAT	CAG-ATA	TCAC	TGACCTTTGG	ATGGTGCTAC	AAGCTAGT	ACCA	GTAGCCAGAGAGTTAGAAAG			
SARS-CoV-2 NC_045512.2	(12983)	GGTATGGT	ACTTGGTA	GTTTAGCTGCCA	CAGTACG	TCAC	AAGCTGG--T	AATGCAAC	AGAAGTGCC	TGCCAATT	CAA---CTGTATATCTTTCTG			
												Section 136		
	(13096)	13096	13110	13120	13130	13140	13150	13160	13170	13180	13192			
HIV-1 HXB2	(178)	CCAACAAAGGAG	AGAACACCAGCTT	GTACACCCTGT	GAGGCTGC	ATGGAATGG	ATGACCGGAGAG	AGAA	GTGTTAGAG	TGGAGGT	TTGACAGCCG			
SARS-CoV-2 NC_045512.2	(13075)	TGCTTTTGCTGT	AGATGCTGCTAAAG	CTTACAAAGAT	TATCTAG	CTAGTGGG	GGA	CAACCAATCACT	AATTGTGTTA	AGATGTT	GTGTACACACT			
												Section 137		
	(13193)	13193	13200	13210	13220	13230	13240	13250	13260	13270	13289			
HIV-1 HXB2	(775)	CCTAGCATT	TCAATCAC	ATGGCCG	GAGAGCTGCAT	CCGGAGTA	CTTCAGAA	CTGCT-----	GACATCGAG	CTTGCTAC	----AAGGGACTTTCCGC			
SARS-CoV-2 NC_045512.2	(13172)	GGTA-CTGG	TCAAGGCA	AT-AA	CAGTTACACCGGAAGCC	ATA	TGG-ATC-A	AGAA	TCCTTTG	TGGTGCAT	CGTGTGTCTGTACTGCCGTTGCCAC			
												Section 138		
	(13290)	13290	13300	13310	13320	13330	13340	13350	13360	13370	13386			
HIV-1 HXB2	(362)	TGGG	GACTT	TCCAG-----GG	AAGC	GTGGCC	TGGCGGG	ACTGGG	GAGTGGCG	AGCCCTC	AGATCCTGCATAT	AAGCAGCTGCTTTTG	CCTGT---	
SARS-CoV-2 NC_045512.2	(13265)	-ATA	GATCA	TCCA	AATCCTAA	A---G	ATTTTGT	TGACTTA	AAAAGG---	TAAAGTATGTACA	ATACTTA---CA	ACTTGCTAA	TGACCTGTGGG	
												Section 139		
	(13387)	13387	13400	13410	13420	13430	13440	13450	13460	13470	13483			
HIV-1 HXB2	(451)	-----ACT	GGGTCT	CTCTG	GTAGAC	CAGATCTGA	GCC	TGGGA--GCT	CTCTGGCTAA	CTAGGG	AACCACTGCTTA	AGCC	TCAATAAAGCTTGC	
SARS-CoV-2 NC_045512.2	(13351)	TTTTAC	ACTTAAAAA	CA-CA	GTCTGTAC	CGTCTGCG	GTATGT	TGGAAAGG	TATGCTGT	AGTTGTG-AT	CAACTCCGCG	AACCCATGCTTCAG	T	
												Section 140		
	(13484)	13484	13490	13500	13510	13520	13530	13540	13550	13560	13570	13580		
HIV-1 HXB2	(539)	CTTGAG	TGCTTCA	AGTAGTGT	GTG	CCCGTCTG	TTGTGT	GACTCTGG	TAAC	TAGAGAT	CCCTCAG	ACCCTTTT	AGTCAGTG-----TG	GAA-----A
SARS-CoV-2 NC_045512.2	(13446)	CTG--A	TGCACA	ATCGTT	TTTAAAC	GGGT	TGCGGTGT	AGTGCAG	CCCGTCTTACA	CCGTGC	GGCACAGGC	ACT-AGT-ACTGA	TGTCGTATACAG	

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		Section 141																	
	(13581)	13581	13590	13600	13610	13620	13630	13640	13650	13660	13677								
HIV-1 HXB2	(625)	ATCTCTAGCAGTGGCGCCC	GAACAGGGACCTGAAA	CGAAAGGGAAAC	CAGAGGAGC	--TCTCTC	GACGCG	AGGACTCGGCTT	GCTGAAG	--CG	CGCA								
SARS-CoV-2 NC_045512.2	(13539)	GGCTTTTGACATCTACAAT	GATAAAGTAGCT	--GTTTGTCTAA	TTCTCTAA	TAACAC	TAATGTTGT	CGCTTCCAAGAAAAG	GACGAAG	ATGA	CAAT								
		Section 142																	
	(13678)	13678	13690	13700	13710	13720	13730	13740	13750	13760	13774								
HIV-1 HXB2	(718)	CGGCAA	GAGGCGAGGGGGC	GCGGA-CT	GTGAGTACGC	-----CA	AAAATTTT	TGACTAGCGG	AGGCTAGAA	--GGAG	AGAGATGGGTGC	G-AGAG							
SARS-CoV-2 NC_045512.2	(13633)	TTAATT	GATTCTTACTTT	GTAGTTAA	GAGACACAC	AC	TTTCTCTAA	CTACCAACA	TGAAGAAACA	ATTTATA	ATTTACTTAAG	GATTGTCCA	GCTGTT						
		Section 143																	
	(13775)	13775	13780	13790	13800	13810	13820	13830	13840	13850	13860	13871							
HIV-1 HXB2	(803)	CGTCAGT	ATTAAAGCGGGGG	AGAA	TAGATCGA	-TG	GGAAA	AAATTCGGTT	AAGGCC	AGGGGGAAAGA	AAAAATA	TAAATT	AAAACAT	ATAGTAT	GGG				
SARS-CoV-2 NC_045512.2	(13729)	GC	TAAACATG	ACTTCTTTA	AGTT	TAGA	ATAGAC	--GGTGAC	ATG-GTACC	AC--AT	AATATCACGT	-CAA	CGTCTTA	CTAAAT	ACACAATGGCAGAC				
		Section 144																	
	(13872)	13872	13880	13890	13900	13910	13920	13930	13940	13950	13968								
HIV-1 HXB2	(899)	CAAGC	CAGGGA	GCTAGAA	C	GATTCGCAGT	-----TAAT	CCTGGG	CTGT	TTAGAA	ACATC	AGAAGG	CT	-----GTAG	ACAAAT	TACTGGG	AC		
SARS-CoV-2 NC_045512.2	(13819)	CTC	G-TCTAT	GCTTT	AAAGCA	TTTGAT	GAAGG	TAAT	TGTGAC	ACAT	TTA	AAAGAA	AT	ACTTGT	CACATACA	ATTGTTGT	GATGATGAT	TATT-TCA	
		Section 145																	
	(13969)	13969	13980	13990	14000	14010	14020	14030	14040	14050	14065								
HIV-1 HXB2	(977)	-AGCT	ACAAC	CATCCCT	T	CAGACAG	GATCA	GAAGAA	CTTAGAT	CATTT	ATATAATACA	G	TAGCAAC	CTCTA	TTGTGTGCAT	-----CAA	AGGAT	T	
SARS-CoV-2 NC_045512.2	(13914)	T	AAAA	AGGAC	TGG--TA	TGATTTT	GTAGAAA	--CC	CAGATAT	ATT-A	-----CG	GTATAC	GCAAC	TTAG	GTGAAC	CGTGTACGC	CAA	GCTTT	
		Section 146																	
	(14066)	14066	14080	14090	14100	14110	14120	14130	14140	14150	14162								
HIV-1 HXB2	(1065)	AGA	GATAAAA	GACACCA	AGGAAGCTTTA	GAC	AG-ATA	GAGGAA	----G	-----A	GCAAA	ACAAA	AGTA	AGAAAA	AAGCACAGCA	--AGCA	GCA	G	
SARS-CoV-2 NC_045512.2	(13998)	---	GT	TAAAA	ACAGTAC	AATT	-----CT	GTGAT	GCCATG	CGAAA	TGCTG	GTATTGTT	G	TGTAC	TGACAT	TTAGATAA	--TCA	AGATCTCAATG	GTAA
		Section 147																	
	(14163)	14163	14170	14180	14190	14200	14210	14220	14230	14240	14259								
HIV-1 HXB2	(1148)	CTG	ACAC	-----AGGA	CACAG	----CAAT	CAGGTCAG	CCAAAAT	TACCC	TATAG	-TG	CAGAACAT	CAGGG	GGCAAATGG	TACAT	CAGGC	CAT		
SARS-CoV-2 NC_045512.2	(14085)	CTG	GTAT	GATTTTCGGTG	ATTT	CATACAAAC	CACGC	CAGGTAG	TGGA	AGTTCCTGT	TGTAG	ATTCTT	ATTATT	CATTGTT	AA	TGCC	TA--TATTA	ACCT	

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										Section 148											
	(14260)	14260	14270	14280	14290	14300	14310	14320	14330	14340	14356										
HIV-1 HXB2	(1230)	ATCAC	CTAGAA	CTTTAA	TGCAT	GGTAA	AGTAG	TAGAA	GAGAGG	CTTTC	AGC	CCAG	AAGTGA	TATACCCATG	TTTTC	AGCAT	TATCAG	--	AAGGAG		
SARS-CoV-2 NC_045512.2	(14180)	--TGA	CCAGGG	CTTTAA	TGCA	GAGTCA	CA	TGT	TGACA	CTGACTT	-AACAA	AGCC	TTACATTA	AGTGGGAT	TTGT	TAAAT	ATGACTTC	AC	GGA		
										Section 149											
	(14357)	14357	14370	14380	14390	14400	14410	14420	14430	14440	14453										
HIV-1 HXB2	(1325)	CC--ACCCC	ACAAGA	TTTAA	CAACCAT	GC	TAAACACAG	TGGGG	GGGACATCA	AGCAG	CCATG	CAAA	TGTTAA	AAAGAGACC	ATCAAT	G-AGGA	AGCT	GC			
SARS-CoV-2 NC_045512.2	(14272)	GAGAGGTTA	AAACTC	TTTGAC	CGTTAT	TTT--	AAATAT	TGGGATC	AGACAT	ACCA	CC--AAATTG	TGTTAA	CTGTTTGG	ATGACA	GATG	CA	TTCT--				
										Section 150											
	(14454)	14454	14460	14470	14480	14490	14500	14510	14520	14530	14540	14550									
HIV-1 HXB2	(1419)	AGAA	TGGGAT	AGAG	TGCAT	CC-----	AGTGCAT	TGCAGGG	C--CTAT	TGCACC	AGGC	CAGA	TGAGAG	AA	CC	AAGGGGAA	GTGACATAGCAGG				
SARS-CoV-2 NC_045512.2	(14364)	GCAT	TGTGCA	AACT	TTAAT	GTTTTATTCTCTACA	-GTGT	TGCCAC	CTACA	AGTT	TTTGG	ACCA	CTAG	TGAGA	AA	ATAT---	TTGT	TGATGGTGTTT			
										Section 151											
	(14551)	14551	14560	14570	14580	14590	14600	14610	14620	14630	14647										
HIV-1 HXB2	(1503)	A	ACTAC	TAGTA	CCC	TT	CAGGAACA	AATAGGA	TGGAT	GAC	AAAT	ATCCACC	TATCCC	AGT	AGGA	GAAATTTA	TAAAGAT	GGATA	ATCCT	GGGATT	
SARS-CoV-2 NC_045512.2	(14456)	CA	---	TTGTA	G--	TT	TCAACTGG	A	TACCAC	TTC	A-GAG	AGC	TAGGT	GTTG	TACATA	ATC	AGGA	TGTAA	AACT	TAC--ATAGCTCT	AGACT--TAGT-
										Section 152											
	(14648)	14648	14660	14670	14680	14690	14700	14710	14720	14730	14744										
HIV-1 HXB2	(1600)	AA	TAA	AATAG	TAAGAA	TGTATA	GCCCTAC	CAGCA	TTCT	GGACAT	AAGACAA	G	GAC	CAAA	GGAAC	CCTTTA	GAGACT	TGTAGAC	CGGT----	TCTAT	
SARS-CoV-2 NC_045512.2	(14542)	TT	TAA	GGAAT	TA--	CT	TGTGTA	T-GCT	GT--	GACC	CT-GCT	ATGCACGCT	GCTT	CTG-GT	AACT	CTATTA	CTAGA	TAAACGC	ACTACGTGCT	TTTCA	
										Section 153											
	(14745)	14745	14750	14760	14770	14780	14790	14800	14810	14820	14830	14841									
HIV-1 HXB2	(1693)	AA	AACT	CTAAGAG	CCGAGCA	AGCTTCA	-CAGGA	GGTAAA	AAA	TTGATGA	CAGAAACCT	TGTT	GGTCC	AAA	TGCG	AACC	CAGATTG	TAAGACTATT			
SARS-CoV-2 NC_045512.2	(14632)	GT	AGCT	GCACTTA	CTACA	ATGTG	TTTTCA	AAC	TGTC	AAA	CCC	GGTAA	-----	TTTT	AACAA	AGACTT	CTATGACT--	TTGCTGTGTCT--			
										Section 154											
	(14842)	14842	14850	14860	14870	14880	14890	14900	14910	14920	14938										
HIV-1 HXB2	(1789)	TT	AAAAGCAT	TGGG	ACCAGCGGCTACACTA	GAAG	AAA	TGATGA	CAGCATG	T	CAGGG	AGT	AGGAGG	ACCC	GGC	CATA	AGGCAAGAG	GT	TTTGGCTGAAG		
SARS-CoV-2 NC_045512.2	(14716)	-AA	GGGTTTC	TTTA	-----	GGAAG	GAAG	TTC	TGT	TGA	AT----	TAA	AAC	ACTTCTTC--	TTTGCT	CAGGAT	GGAAT	GCT	GCATCAGC	G	

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		Section 155																											
		(14939)	14939	14950	14960	14970	14980	14990	15000	15010	15020	15035																	
HIV-1 HXB2	(1886)		CAATGAG	CCAA	GTAA	CAAA	TTCA	GTACCA	TAA	T--GA	TGCAGAG	AGGCAA--TT	TAGGAACCAAAGA	AAG--A	TTGT	TAAGT	GT	TTCA	ATTGT	GG									
SARS-CoV-2 NC_045512.2	(14795)		ATTA-T	GACT	ACTAT	CGTTAT	AAT	CTACCA	ACA	AATGTG	TGATATC	AGA	CAA	CTACT	TATTTGTAGTT--G	AAGTTG	TTGA	TAAGT	ACT	TTTGATTGT	TA								
		Section 156																											
		(15036)	15036	15050	15060	15070	15080	15090	15100	15110	15120	15132																	
HIV-1 HXB2	(1977)		CAAAG--AAGG	GCAC	AGCC	AGAA	AATTG	CAGG	GC	CCCTAG	GAA	AAAGGG	CT	GTTGGA	AATGTGGAA	AGGAA	GG--ACAC	CAA	TG	AAAG	AT	TGTACT	T						
SARS-CoV-2 NC_045512.2	(14889)		GGATG	GTGGCT	GTATTA	ATGTGA	A----	C	CAAGT	CA	T--CG	TC	AA	CAAC	CT-----	AGACAAATC	AG--CT	GGT--TTT	CA	ATT	AA	TAA	ATG	GGGT					
		Section 157																											
		(15133)	15133	15140	15150	15160	15170	15180	15190	15200	15210	15229																	
HIV-1 HXB2	(2071)		GAGAGA	CAGGCT	AA	TTT	TTA	GGG----	AAGA	TC	TGGCCTTCTACAAGGG	AAG	GCC--AGGGAAT	TTT	CCT	CAG	AGCAG	AC-----	CAGAG	C									
SARS-CoV-2 NC_045512.2	(14971)		AAG--G	TA--G	ACTTTA	TTA	TG	ATTCA	AT	GAG--T	TATGAGG-----	ATC	AAG	ATGCA-----	C	TTT	TCG	CAT	ATACA	AAACGTAATGT	CATCC	C							
		Section 158																											
		(15230)	15230	15240	15250	15260	15270	15280	15290	15300	15310	15326																	
HIV-1 HXB2	(2153)		CAACA	GCCC--	CAC	CAGAAG	AGAGCT	T	CAGG	CT	TGGG	TAGAGA	CAA	CA	CT	CCCC	CTC	AG	AAGCAG	GAGCCGATA	G	CAAGG	AA	CTGTA--TC	TTT	TA			
SARS-CoV-2 NC_045512.2	(15051)		TACTA	TATA--A	CT	CA	ATGA	ATC---	T	TAAGT	ATG	CCAT	T	TAGTG	CAA	AGA	AT	TAGAG	CTC	GC	ACCGTAG	GCT--GGT	GT	CTC--T	AT	CTGTAGT	ACTAT		
		Section 159																											
		(15327)	15327	15340	15350	15360	15370	15380	15390	15400	15410	15423																	
HIV-1 HXB2	(2248)		ACT	TTCCCTCAGG--	T	CAC	TCTTTGGCA	ACG	ACCCTCGTCACAAT	AA	AGATAG	GGGG	GC	ACTA	AG	GA	AGCT	CTAT	TAG	ATACAGGA	G	CAG	TGATA						
SARS-CoV-2 NC_045512.2	(15139)		AC	CAATAGACAG	TT	TCAT	A	-----	C	AAAA	TTATT----	G	AA	TC	ATA	G	CC	GC--	ACTAG	AG--GAGCT	AC--TGT	A-----	G	T	AAT	TGGA			
		Section 160																											
		(15424)	15424	15430	15440	15450	15460	15470	15480	15490	15500	15520																	
HIV-1 HXB2	(2344)		CAG	TATTA	GAAGA	AATGA	GTT	TGC--	CAGG	AAG	ATGG	AAAC	CAAAAATGA	TAGG	GGGA	AT	TG	GAGG	TTTTATC	AAAG	TAAG	GACAG	TAT	GAT	CAGAT--				
SARS-CoV-2 NC_045512.2	(15212)		C	AGCAA	TTCTA	TGGTG	GTT	GGC	ACA	AC	ATGT	TAA	AAAC	TGTT----	T	ATAGT	GATG	TAGA	AAACCC	TC--ACCT	TAT	G	GGT--T	TGG	GAT	TAT	CCTA		
		Section 161																											
		(15521)	15521	15530	15540	15550	15560	15570	15580	15590	15600	15617																	
HIV-1 HXB2	(2438)		ACT	CATAG	GA	AAT	CTGTG	GACATA	A--G	GCT	ATAGG	TACAG	TAT	T	AGTAGG	ACCTACA	C	CT	GTC	AACATA	AATTG	G	AAGAAATCTGTTGA	CT	CAGATTGG				
SARS-CoV-2 NC_045512.2	(15302)		AAT	GTGAT	AGAGG	CATG	CCTA	ACA	AT--G	GCT	TAGAA	T	TAT	G	GCCT--	CAC	TTGTTCTT	GC	CTC	G	CA	AACATA	CAAC	G	TGTTGT----	A--G	CT	TGTC----	A

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		Section 162																																						
		(15618)	15618	15630	15640	15650	15660	15670	15680	15690	15700	15714																												
HIV-1 HXB2	(2534)	TTG	CAC	TTT	AA--TTT	TC	CA	TTAG	CCCC	TAT	TG-AG	ACT	GT	ACC	AGT	AAAA	TT	AA	AGCC	AG	GAAT	GT	GG	CCCA	AAAG	TT	AAA	CA	ATG	GCC	ATTG									
SARS-CoV-2 NC_045512.2	(15388)	CAC	CGT	TTT	CTA	TAGA	TT	AG	CTAA	T	GAG	TG	TGCT	CA	AG	TAT	TG	AG	TGAA	ATGG	TCA	TGT	TGTG	GCG---	GT	TCA	CTAT	ATGT	TAA	CA	AGGT	GGA	ACCT							
		Section 163																																						
		(15715)	15715	15720	15730	15740	15750	15760	15770	15780	15790	15800	15811																											
HIV-1 HXB2	(7628)	ACAG	AA	GAA	AAA	AT	AAA	GCAT	TA---	G	TAG	AA	ATT	T	-GT	AC	AG	AG	AT	GG	AA	AAG	GA	AGGG	AAA	ATTT	CAA	AAAA	T	TGGG	CT	GAAA	ATC	CATACA	AT					
SARS-CoV-2 NC_045512.2	(15482)	CATC	AG	GAG	ATGCC	AC	AA	CTGC	T	TAT	GC	TA	AT	AG	T	GT	TTT	-T	AA	CA	AT	TT	GC	AAG	CTG	-TC	ACG--	GC	CAA	TGT	T	-AATG	C	ACTTTT	TAT	CTACTG	AT			
		Section 164																																						
		(15812)	15812	15820	15830	15840	15850	15860	15870	15880	15890	15908																												
HIV-1 HXB2	(2721)	AC	TCC	AGT	AT	TTG	CC	ATA	AAG	AA	AAAA	AGA	CAG	T	ACT	AA	TGG	AGA	AAA	TTAG	TAG	AT	TT	TC-	AG	AGA	AC	TTA	AT	AAG	AGA	ACT	CA	AGAC	TT	CTG	GGAA			
SARS-CoV-2 NC_045512.2	(15574)	GG	TA	ACAA	AA	TTG	CC	GAT	AAG	TA	TGT	CCG	CA	AT	TT	TAC	AA	CAC	AGA	CTT	TAT	GAG	TG	TC	TC	AT	AG	AA	TAG	AG	AT	GT	TG	AC	CA	GACT	TT	TG	AA	TG
		Section 165																																						
		(15909)	15909	15920	15930	15940	15950	15960	15970	15980	15990	16005																												
HIV-1 HXB2	(7817)	GT	TCA	ATT	AGGA	AT	ACC	ACATC	-----	C	GG	CA	GG	GT	TA	AA	AAG	AAAA	AA	ATCA	G	TAAC	-	AG	TAC	TG	-GAT	GT	GGG	TGA	-----	TGC	ATAT	TT	TTTC					
SARS-CoV-2 NC_045512.2	(15671)	AG	TTTT	TAC	GCAT	AT	TTG	CGTAA	CATTT	CT	CA	AT	GAT	GAT	ACT	CTCT	GA	ACG	AT	GCT	GTT	TGT	GT	GT	TT	CA	AT	AG	CAC	TTA	TGC	ATC	TCA	AGG	T	CTAGT				
		Section 166																																						
		(16006)	16006	16020	16030	16040	16050	16060	16070	16080	16090	16102																												
HIV-1 HXB2	(2900)	AG	T	CC	CT	TAG	AT	GA	AG	AC	TT	CAG	GA	AGT	AT	ACT	GCAT	TT	-T	ACC	AT	ACCT	AG	TA	TA	AA	CAAT	GA	AG	AC	ACC	AGGG	AT	TAG	ATAT	CAGTAC	AATG	TG	CT	
SARS-CoV-2 NC_045512.2	(15768)	GG	C	TAG	CA	TA	A	AGAA	--CT	TT	A	AG	TC	AGT	-T	CT	TTAT	TAT	CA	AA	CA	ATG	TT	TA	TGT	CTGA	AG	CA-AA--	ATG	TTG	GA	CTG	AG	ACTG	ACCT	TACT				
		Section 167																																						
		(16103)	16103	16110	16120	16130	16140	16150	16160	16170	16180	16199																												
HIV-1 HXB2	(2996)	TCC	AC	AGGG	ATG	GAA	AG--	GAT	CAC	CA	-GC	AAT	AT	T	C	AA	AGT	AG	CA	T	GACA	AAA	AT	-CT	T	AG	AG	CTTT	TTAG	AAA	CA	AAAT	CC	AGAC	AT	AGT	TAT			
SARS-CoV-2 NC_045512.2	(15859)	AA	AGG	ACCT	CAT	GAA	TTTT	GC	TC	T	CA	CAT	CA	AAT	GT	TAG	TTA	AA	CA	AG	GGT	GAT	GAT	TAT	TGT	GTA	CC	TT	--	C	TT	AC	CA	ATCC	AT	CA	AG	AT	CC--	
		Section 168																																						
		(16200)	16200	16210	16220	16230	16240	16250	16260	16270	16280	16296																												
HIV-1 HXB2	(3089)	CTA	T	CAATA	CA---	TG	----	GAT	GAT	TTG	TAT	G--	T	AGGA	TCT	GACT	TAG	AAA	TAG	GG	GCA	G	CATA	GAA	CA	AAAA	TAG	AG	GAG	CT	GAGA	CA	ACAT	CTG						
SARS-CoV-2 NC_045512.2	(15953)	---	T	AGGGG	C	GGGC	TG	TTTT	GTA	GAT	-GA	TAT	CGTA	AAA	AC	AGAT	GG	TAC	ACT	TAT	GATT	GAA	CGG	TTC	GTG	TCT	TTT	AG	CTATA	GAT	G	CTT	ACC	CAC						

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		Section 169																			
	(16297)	16297	16310	16320	16330	16340	16350	16360	16370	16380	16393										
HIV-1 HXB2	(3177)	TTGAGG	TG-GGGACTTACCACA	CCAGA	CAAAA	AAACAT	CAGA	AAGAAC	CTCCAT	TCCTT	TGGAT	GGG-TTATG	AACTC	CATC	--CT	GATAA	AT	GGAC			
SARS-CoV-2 NC_045512.2	(16046)	TTA--C	TAAAC-----A-TC	CTAAT	CAGGA	GTATG	CTGA	TGCTTT	CATTG	TACTT	ACAAT	ACATAAGAA	AGCTA	CATG	ATGA	GT	TAA	CA	GGAC		
		Section 170																			
	(16394)	16394	16400	16410	16420	16430	16440	16450	16460	16470	16480	16490									
HIV-1 HXB2	(3269)	AGTACAGCCTATAGTGC	TGCCAGAAA	AAGACAG	CTGGACTGTCA	ATGACAT	TACAG	AAGT	TAGTGGG	GAAAT	TG--AAT	TG-GGC	AGTC	AGATTTA							
SARS-CoV-2 NC_045512.2	(16133)	ACATGTTAGAC---	ATGTATTCTGTT	ATGCTTA	CTAAT---	GATAAC	ACTTCA	AGG---	TAT	TGGGA	ACCTG	AGTTTTA	TGAGGC	TATGT	ACACACC						
		Section 171																			
	(16491)	16491	16500	16510	16520	16530	16540	16550	16560	16570	16587										
HIV-1 HXB2	(3362)	CCAGGGAT	TAAAG---	GTAAG	GCAAT	TATGT	TAACT	CCTTA	AGAGG	AACAAAG	CAC	TAACAG	AGTAAT	ACCACT	AAACAG	AAG	CAG	AGC	TAGA		
SARS-CoV-2 NC_045512.2	(16221)	GATACAG	TCTTACAGGC	TGTT	GGGGC	TG-TGTT	CTTTGCA	AATCA	CAGACTT	CATT	--AGA	T---G	TGGTG	CTTG	CATAC	GTAG	---	ACC	ATTC		
		Section 172																			
	(16588)	16588	16600	16610	16620	16630	16640	16650	16660	16670	16684										
HIV-1 HXB2	(3455)	ACTG	GCAGAAA	CAGAG	ATTCTAA	AAGAACCAGTA	CATGG	AGTGT	ATTAT	GACCCATC	AAAAG	ACTTAATAGCAGAA	AATAC	CAGAG	GCA-GGG	GCA					
SARS-CoV-2 NC_045512.2	(16309)	TTAT	GTTGTAAA	TGCTGTT	ACGACC	ATG-----TC	----ATATC	AACAT	CAC--AT	AAATT	AGTCTTGCTCTGTT	AATC	CGTAT	GTTT---	GCA						
		Section 173																			
	(16685)	16685	16690	16700	16710	16720	16730	16740	16750	16760	16770	16781									
HIV-1 HXB2	(3551)	AGG-----	CAAT	TGACAT	TCAAA	TTTAT	--CAAG	A	GCCATT	TAA	AAATCT	CAAAAC	AGGAA	AATATG	CAAGA	ATG	AGGGGTG	CCCA	CAC	TAA	TGA
SARS-CoV-2 NC_045512.2	(16388)	A--TGCTC	CAGGTT	GTGAT	TCACAGAT	GTGACTCA	ACTTTACT	TAG--G-AGGT	ATGAGCT	ATTAT	TGTA--AT	CACATAAA	CCACC	CATT	AGTT						
		Section 174																			
	(16782)	16782	16790	16800	16810	16820	16830	16840	16850	16860	16878										
HIV-1 HXB2	(3641)	TGTAA	AAACAA	TTAA	CAGAG	---GC	AGT	GCAAAAAATAACC	ACAGAAA	GCATA	GTAA	TATGG	GGAAGA	--CT	CCTAAA	TTTAA	AC	TGC	CCAT	TAC--	
SARS-CoV-2 NC_045512.2	(16478)	TTCC	ATT--G	TGTG	CTAAT	TGGACA	AGTTTTTGGT--TTAT	ATAAAAA	TACAT	GTGT	TGGTAG	CGATAA	TGTTAC	TGAC	TTTAA	--TG	CAAT	TG	CA	T	
		Section 175																			
	(16879)	16879	16890	16900	16910	16920	16930	16940	16950	16960	16975										
HIV-1 HXB2	(3730)	-AAAAG	GAAACATGGGA	AAACA	TGGTG	GACAG	AGTAT	TGGCAA	GCACC	---TG	GATTCT	-GAG	TGGGAGTTT	GTTA	ATA-C	CCCTCCCT	TAGTG	---			
SARS-CoV-2 NC_045512.2	(16567)	ACATGT	GACTGGACAA	AT-GC	TGGTG	ATTACAT	TTTAG	CTAA	CACCTGTAC	TGAAGA	CTCAAG	CTTTTTCAG	CAGAA	ACGCT	CAAAGC	TAC	TGAG				

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										Section 176																								
	(16976)	16976	16990	17000	17010	17020	17030	17040	17050	17060	17072																							
HIV-1 HXB2	(3819)	AAATTATGGTACCA	GT TAG	AGAAAGAACC	ATA	GTA	GGAGCA	AGAA	CTTCT	ATG--TAG	ATGG---GGCAGCTA	ACAGGGAG	ACT	AAAT	TAG	GAAA																		
SARS-CoV-2 NC_045512.2	(16663)	GAGACATTTAAAC	GTCTT	ATGGTATTG	CTACT	GTA	CG-TGA	AGTGT	GTG	TCTGAC	AGAGA	ATT	TACATCTTTCA	TGGG	AAGTT	GGTA	AA	CC	TAG	AC--														
										Section 177																								
	(17073)	17073	17080	17090	17100	17110	17120	17130	17140	17150	17169																							
HIV-1 HXB2	(3911)	AGCAGG	ATA---	TGTTACT	AATAGAG--	GAGACAAA	AGT	TGT	CAC	CCT	AA	C--TG	ACA	CA	ACAAAT	CA	GA	AGACT	GAGT	TACA	AG	CAAT	TT	ATC										
SARS-CoV-2 NC_045512.2	(16757)	--CA	CCACTTAACC	GA---	AA	TAT	TGTCCTTT	ACTGGTTA	TCG	TGT	AAC	TAA	AAA	ACAGT	AA	AGT	ACAAAT	AG	GA--	GA--G--	TACA--	CCT--	TT	GAA										
										Section 178																								
	(17170)	17170	17180	17190	17200	17210	17220	17230	17240	17250	17266																							
HIV-1 HXB2	(4000)	TAGCT	TTGC	CAGGATTC	GGGAT	TAGAAGT	AA	CATA	GTAA	CAG	CTCA	CAATATGC	ATTAGGAA	TCAT	TC	AGC	ACA	ACCAGAT	CA	AAGT	GA	ATC	AGA											
SARS-CoV-2 NC_045512.2	(16840)	AAAGG	TGAC	-TATGGT	GATGC	TGTTGT	TT	AC	GAG	GT---	ACA-ACA	ACTTA	CAAA	ATTAA	ATG	TTGGT	-GATT	ATTTTGT	GCTG-	ACAT	CA	AT	ACA											
										Section 179																								
	(17267)	17267	17280	17290	17300	17310	17320	17330	17340	17350	17363																							
HIV-1 HXB2	(4097)	GTT	AGTCA	ATCA	AA	TAAT	AG	GCA	G-TTA	ATA	AAAAAGG	AAAG	GTCTAT	CTG	GCAT	GGGT	TACCAGC	CACAC	AAAGG	AA	TTGG	AGGAA	TGAA	CAAGT										
SARS-CoV-2 NC_045512.2	(16930)	GTA	ATGC	----CAT	TA--	AGT	GCA	CC	TAC	ACTA	-GTGCC	ACAAG	AGCAC	TATG	TTA	GAAT	T-----	ACT	GGC	-TTAT	ACCC	AA	CACT	CAATA										
										Section 180																								
	(17364)	17364	17370	17380	17390	17400	17410	17420	17430	17440	17450	17460																						
HIV-1 HXB2	(4193)	AGAT	AAATTAG	TC	AGT	GCT	GGA	ATCA	G	AAAGT	ACT	ATTT	TTAGAT	GGA	ATAG	CA	TAAGGCC	CAAG	ATG----	ACAT	GAGAA	ATATCA	CAGTAAT	T										
SARS-CoV-2 NC_045512.2	(17009)	TCTC	A--G--A	TG	AGT	TTT	TCT	AGCA	ATG	T--TGCAA	ATT	ATCA	-----	AAG	GT	TGGTATG	CAA-	AAG	TATTCT	ACA	CTCC--	AGGGAC	CA	CCTGGT										
										Section 181																								
	(17461)	17461	17470	17480	17490	17500	17510	17520	17530	17540	17557																							
HIV-1 HXB2	(4285)	GGA	GAGC	AAT	GG	CTAG-	TG	ATT	TTAA	CCT	GC	CAC	CTGTAG----	TAGCAAAA	GAA	ATAGT	A-----	GCCAG	CT	GTGATAAA	---	TG	TCAGCTA	A										
SARS-CoV-2 NC_045512.2	(17092)	ACT	GGTA	AGAG	GT	CATTT	TG	CTA	TTGG	CCT	AG	CT	TCTACTACCC	TCTGCTC	G-C	ATAGT	GTATACAGCT	TTGCT	CT	CATGCCGCTGT	TG	ATGCACT	A											
										Section 182																								
	(17558)	17558	17570	17580	17590	17600	17610	17620	17630	17640	17654																							
HIV-1 HXB2	(4366)	AAG	GAGAAG	C	CAT	GC	ATGGACA	AGT	TAG	ACT	G	TAG	TCCA--	GGA	ATA	TGGCA	CT--A	GATT	GT	ACA	CATT	TAGA	AG	GAAA	GTTA	TCC	TGGT	AG	CAG					
SARS-CoV-2 NC_045512.2	(17188)	TGT	GAGAAG	G	CAT	T-	AAAAAT	A--	TT	GC	CTA	TAG	ATA	AA	AT	G	TAG	TA	GAATT	A	TACCT	G	CAC	GT	GCT	CGT	G	TAG	AGT	GTTTT	GATA	AAT	TCAA	AGTGA

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												Section 183									
	(17655)	17655	17660	17670	17680	17690	17700	17710	17720	17730	17740	17751									
HIV-1 HXB2	(4459)	T	T	C	A	T	G	T	A	G	C	C	A	G	T	G	G				
SARS-CoV-2 NC_045512.2	(17282)	A	T	T	C	A	A	C	A	T	T	A	G	---	A	C	A	G	T	A	T
												Section 184									
	(17752)	17752	17760	17770	17780	17790	17800	17810	17820	17830	17848										
HIV-1 HXB2	(4554)	C	C	A	G	T	A	A	A	A	C	A	A	T	A	C	A	T	A	C	T
SARS-CoV-2 NC_045512.2	(17366)	C	A	A	T	G	G	C	C	A	A	T	A	T	A	T	A	T	A	T	A
												Section 185									
	(17849)	17849	17860	17870	17880	17890	17900	17910	17920	17930	17945										
HIV-1 HXB2	(4645)	T	T	G	G	A	A	T	T	C	C	T	A	C	A	A	T	C	C	A	A
SARS-CoV-2 NC_045512.2	(17460)	A	C	G	---	A	C	A	T	G	C	---	T	A	A	G	G	C	A	C	T
												Section 186									
	(17946)	17946	17960	17970	17980	17990	18000	18010	18020	18030	18042										
HIV-1 HXB2	(4747)	T	C	T	T	A	A	G	A	C	A	G	C	A	G	T	A	C	A	A	A
SARS-CoV-2 NC_045512.2	(17547)	C	C	T	C	G	G	A	A	C	T	T	G	T	C	G	G	T	T	G	C
												Section 187									
	(18043)	18043	18050	18060	18070	18080	18090	18100	18110	18120	18139										
HIV-1 HXB2	(4826)	A	A	T	A	G	T	A	---	---	G	---	A	C	A	T	A	A	T	A	G
SARS-CoV-2 NC_045512.2	(17638)	T	C	A	G	C	T	C	A	A	T	G	C	T	T	T	A	A	T	A	G
												Section 188									
	(18140)	18140	18150	18160	18170	18180	18190	18200	18210	18220	18236										
HIV-1 HXB2	(4906)	A	T	T	A	C	A	G	G	G	A	C	A	G	A	A	T	C	C	A	C
SARS-CoV-2 NC_045512.2	(17734)	C	T	T	A	---	---	C	A	C	G	T	---	A	A	C	C	T	G	C	T
												Section 189									
	(18237)	18237	18250	18260	18270	18280	18290	18300	18310	18320	18333										
HIV-1 HXB2	(4998)	---	A	---	T	A	A	A	G	T	A	G	---	G	G	A	T	A	G	---	G
SARS-CoV-2 NC_045512.2	(17822)	C	A	A	C	T	C	A	A	A	C	T	G	T	G	A	T	T	C	A	T

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												Section 190
	(18334)	18334	18340	18350	18360	18370	18380	18390	18400	18410	18420	18430
HIV-1 HXB2	(5081)	ACAGGATGAGGATTA	-----GAA	CAT--G	AAAAGTTAGT	TAAACACCAT	ATGTATGTTTCAG	GGAAAGCTAGGGGATGG	TTTTATAG	ACATCAC		
SARS-CoV-2 NC_045512.2	(17919)	TAATGTT---GC	TATTACCA	GAGCA	AAAGTAGGCA	TACTTTGCA	T-----AATGTC	TGATAGAG	ACCTTTATGACAAG--T	TGCAATTTACA	AGTC	
												Section 191
	(18431)	18431	18440	18450	18460	18470	18480	18490	18500	18510		18527
HIV-1 HXB2	(5170)	TATGAAGC	CCTCATCC	AAGAA---T	AAGTTCA	AAGTAC	ATCCCACT	AGGGG--ATGCT	AGATTGGTAATA	ACAACAT--	ATGGGGTCTGC	
SARS-CoV-2 NC_045512.2	(18005)	TTGA-AA	TTCCAGCT--	AGGAA	TGTGGCA	AACTTTCA	AAGCTG	AAATGTAA	ACAGGACTCTTTAA	AGATTGTAGT--	AAGGTAATCAC	TGGGTT----
												Section 192
	(18528)	18528	18540	18550	18560	18570	18580	18590	18600	18610		18624
HIV-1 HXB2	(5258)	ATACAGGAGAA	AGAGACTGG	CATTTGGGT	CAG-----G	AGTCTCCAT	AGAA	TGGAGG	AAAAAGAGATA	TAGCACACA	GTAGAC	CCTGA
SARS-CoV-2 NC_045512.2	(18093)	--ACA	TCCTACACAGGC--	AC---CTACA	CACCTCAGT	GTTGAC	CTAAATTC	AAA	AACT-----GA	AGTTTATGT	-----GTT	GACAT--ACTG
												Section 193
	(18625)	18625	18630	18640	18650	18660	18670	18680	18690	18700	18710	18721
HIV-1 HXB2	(5347)	GCAGACC-AA	CTAATTCAT	CTGTATT	ACTTTGACT	TGTTTTC	AGACTCTGC	TATAAGAA	AGGCCTTAT	TAGGACAC	ATAGTTAG	CCCTAGGTGTGA
SARS-CoV-2 NC_045512.2	(18170)	GCATACCTAA	GGACATGAC	CTATAGAA	AGACT-CAT	CTCTATGA--	TGGGTTTATAA	ATGAATTA	----TCAAGTTA	ATGTTAC	CCTA---A---CA	
												Section 194
	(18722)	18722	18730	18740	18750	18760	18770	18780	18790	18800		18818
HIV-1 HXB2	(5443)	TA--TCA	AGCAGGACAT	AACAAG--G	TAGGATCT---	CTACA	ATACTTGG	CAC	TAGCAG	CATTAATAACACCA	AAAAAGATAA	AGCCCACTTTGCCT
SARS-CoV-2 NC_045512.2	(18254)	T-GTT-TAT	CA	CCCGCGAAG	CTATAAG	ACATGTAG	GTGCATGGAT	TGGCTTCGAT	GTCGAG--GGGTGTC	ATGCTACTAGAG	AAGCTGTTGGTA	
												Section 195
	(18819)	18819	18830	18840	18850	18860	18870	18880	18890	18900		18915
HIV-1 HXB2	(5533)	AGTGTT	ACGAACTGACAGAGG	TAGATGG	ACAAGCC	CAGAA	AGACCAAGGG	CA-CAGA	GGGAGCCAC	-ACAATGAATG	GACACTAGAG	CTTTTA
SARS-CoV-2 NC_045512.2	(18347)	CCAA	TTT-----AC	TTTAC	AGCTAGG	TTTTTTCTAC	AGG-TGTTAAC	C--TAGTT	GCTGT--AC	CTACAGG	TTATGTTGATAC	ACTAA
												Section 196
	(18916)	18916	18930	18940	18950	18960	18970	18980	18990	19000		19012
HIV-1 HXB2	(5628)	GAGGAG	CTTAAGAA	TGAAGCTGT	TAGAC--AT	TTTTCC	TAGGATTT	GGCTC	CATGGC	TTAGGG	CACATATCTATGAA	ACTTATGGGGAT
SARS-CoV-2 NC_045512.2	(18428)	ATA---	CAGATTTT	TCCAGAGT	TAG---TGC	TAAACC	ACCGCCTGG	AGATCA---	ATTAAAC	CTCATACCACTTAT	-GTACAAAGG	ACTTCTTT

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												Section 197																			
	(19013)	19013	19020	19030	19040	19050	19060	19070	19080	19090	19109																				
HIV-1 HXB2	(5723)	AGGAGT	GGAAGC	CATAAT	AAGAAT	TCTGCAAC	AACTGCT	TGTTAT	CCATTT	TCAGAATTGGGTGTCGAC	ATAGCAGAATAGGCGT	TAC	TCGACAGAG																		
SARS-CoV-2 NC_045512.2	(18515)	GGAAT	GTAGTG	CGTATA	AAGATT	TGTAC----	AAATGTT	TAAGT	GACAC-	TTAA-----	AAATCTCTCTG	A	CAGAGT	TCG	TATTTGT--																
												Section 198																			
	(19110)	19110	19120	19130	19140	19150	19160	19170	19180	19190	19206																				
HIV-1 HXB2	(5870)	GAGAGC	AAGAAATGGAG	CCAGT	TAGATCCT	AGACT	TAGAGCC	CTG	GAAGCAT	CCAGGA	AGTCAGCCT	AAAA	CTGCTT	GT	ACC	AA	TTG	CTAT	TGT	AAAA											
SARS-CoV-2 NC_045512.2	(18591)	---	CTTAT	GG-----	G-	CACAT	TGGCTTT	GA	-GT	TGACAT	CTAT	GAAGTAT	TTT	TGT	GA	AAA-TAGG	AC--	CTGAGC	G	ACC	TG	TTG	TCTA	TGT	GAT	AG					
												Section 199																			
	(19207)	19207	19220	19230	19240	19250	19260	19270	19280	19290	19303																				
HIV-1 HXB2	(5917)	GT	GT	TG	CTTT	CAT	TGCCAAGT	TTG	TTTCATA	AC	AA	AGCC	TTAGGCAT	CTC	CT	AT	GGCAGGA	AGAA	GCGGA	GACAG	CGAC	GAAG	AG	CTCAT	TCAGAA	C					
SARS-CoV-2 NC_045512.2	(18675)	AC	GT	GC	CACATGC	TTTTCCAC	TGC	TT	CAGAC	AC	TT	AT	GCC	----	TG	TTGG	C	-AT	-CATTCT	ATTG	GATTT	GATTA	CGT	CT	ATA	AT	C	CGT	TT	AT	GAT
												Section 200																			
	(19304)	19304	19310	19320	19330	19340	19350	19360	19370	19380	19390	19400																			
HIV-1 HXB2	(6014)	AGTC	AGAC	TCA	TCAA	GCTTC	TCTAT	CA---	AA	G	CAGTAAGT	AGT	ACATG	TAA	CGCAACC	TAT	TACCAATAGT	TAG	CAAT	AGTAGCAT	T	AGTAG	TAG	CAA							
SARS-CoV-2 NC_045512.2	(18765)	T--	G	ATGT	TCA	CAA	TGGGG	TTT	TACA	GGT	AA	C	TA--	CAA	AG	CA	ACCAT	TGA	TCTGTAT	TG	TCAAGTCCA	TG	T	AATG--	CACA	T	G	TAGC	TAG	TTG	
												Section 201																			
	(19401)	19401	19410	19420	19430	19440	19450	19460	19470	19480	19497																				
HIV-1 HXB2	(6108)	TAATAAT	AG	CAAT	AGTT	GTGTGG	TCCA	TAG	TAA	TCATA	GAAT	TATAGGAAA	ATATTAAGAC	AAAG	AAAAA	-T--	AGACAGGT	TAATTG	ATAGACT	AAT											
SARS-CoV-2 NC_045512.2	(18855)	TGAT	GCA	AT	CA	TG	ACTAG	G----	TGTC	TAG	CTG	TC	CAC	GAGT	GCTTTGTT	AAGCGTGTG	ACT	G	ACT	AT	TGA	ATA	TCCTA	TAATTG	G	TGATGA	ACT				
												Section 202																			
	(19498)	19498	19510	19520	19530	19540	19550	19560	19570	19580	19594																				
HIV-1 HXB2	(6202)	AG	AA	AGAGCA	GAA	GACA	GTGG	CAATG	-AG	AGTGA	AG	GAGAAA	TATCAGCA	CT	TGTGG	AGAT	GGGGTGGAGAT	GGGGCAC	CAT	GCTCC	TTGGG	ATGT									
SARS-CoV-2 NC_045512.2	(18948)	GA	AG	ATTAAT	GCG	GCTT	GT	AG	AA	G	TTCA	AACACAT	TGTTGT	TA	AAGCTG	CAT	TATT	AG	CAG	GACAAATTCCA	GTTCTT	-	CAC	G	GACAT	TG	GT	A	CCC		
												Section 203																			
	(19595)	19595	19600	19610	19620	19630	19640	19650	19660	19670	19680	19691																			
HIV-1 HXB2	(6298)	TGAT	GAT	CTGT	AGTG	CTACAGAA	AAAT	TG	TG	GGTCA	CAG	TCTA	TTAT	GGG	GTAC	-CT	GTG	TG	GAAGGAAGCA	ACCAC	CACT--	CTATT	TTGT	GCA	TC						
SARS-CoV-2 NC_045512.2	(19044)	TAAAGC	TATTA	AGTG	TGTACCTC	AA	GC	TG	AT	G	TAGA	AT	GGAAG	TT	C	TAT	GATG	CAC	AG	CCTT	G--	T-----	AGTGA	CA	AAGC----	TTAT	TAA	AAT			

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											Section 204
	(19692)	19692	19700	19710	19720	19730	19740	19750	19760	19770	19788
HIV-1 HXB2 (6392)		AGATGCTAAAGCATATGATACAGAGGTACATAATGTTTGGGCCACACATGCCGTGTGTACCCACAGACCCCAACCCACA-AGAA	GTAGTTATTGGTAA								
SARS-CoV-2 NC_045512.2 (19128)		AGAAGCAATTATTC	TA--TCTTATGCCACACA--TCTGACAAATTCA	CAGATG--GTGTATGCTATTTTG-----GAATTGCAATGTCGATAGA							
											Section 205
	(19789)	19789	19800	19810	19820	19830	19840	19850	19860	19870	19885
HIV-1 HXB2 (6488)		TGTGACAGAAATTTTAAACATGTTGGAAATGACATGGT	AGA--ACAGATG-----CATGAGGATATAATCAGTTTATGGGATCA	AAGCCTAAAGCC							
SARS-CoV-2 NC_045512.2 (19213)		TATCCTGCTAA---	TTCCATGTTTGTAGAT	T---TGACACTAGAGTGCTATCTAACTTA	ACTTGCCTGGTTGTGAT--GGTGGCAGTTTGTATGTA						
											Section 206
	(19886)	19886	19900	19910	19920	19930	19940	19950	19960	19970	19982
HIV-1 HXB2 (6578)		ATGTGTAAATTAACCCACTCTGTGTTAGT---	TTAAAGTGCAC	TGATTTGAAGAATGATAC	TAATAACCAATAGTAGTAGCGG	GAGAAATGATAATG					
SARS-CoV-2 NC_045512.2 (19303)		A--ATAAACATGCATT	CCACAACCAGCTTTGA	TAAAGTGC	TTTGTAAATTTAA	AACAATTA	CCATT-TTCTATTA	CTCTGACAGT--CCATG			
											Section 207
	(19983)	19983	19990	20000	20010	20020	20030	20040	20050	20060	20079
HIV-1 HXB2 (6672)		GAGAAAGGAGAGAT	AAAACCTGCTT-----C-----TTTCAATATCAGC----	ACAAGCATAA-----GAGGTAAAGGTGCA							
SARS-CoV-2 NC_045512.2 (19395)		TGA-GTCTCATGGA	AAACAGTAGTGTCAGATATAGATTATGTAC	CACTAAAGTCTGCTACGTGTATAA	CACGTTGCAATTTAGGTGGTGCTGTCTG						
											Section 208
	(20080)	20080	20090	20100	20110	20120	20130	20140	20150	20160	20176
HIV-1 HXB2 (6734)		GAAAGAAATATGCATT	TTTTATAAACTTGATATAATA--CC	AATAGATAATGATACTAC	CAGCTATAAGTTGACAAAGTGTAAAC	ACCTCAGTCA	TTA				
SARS-CoV-2 NC_045512.2 (19491)		TAGACATCATGCTAA	TGAGTACAGATTGTATCTCGATGCTTATA	ACATGATGATCTCAGCTGGCTTAGCTTG-TGGTTACA	AACAATTGAT-A						
											Section 209
	(20177)	20177	20190	20200	20210	20220	20230	20240	20250	20260	20273
HIV-1 HXB2 (6829)		CACAGGCCTGT	CAAAGGTATCCTTTGAGCAAT-TCC	CATACAT	TATTGTGCCCCGGCTGGTTT	TGCGATTCTAA	AAATGTAATAAT	AAGACGTTCA			
SARS-CoV-2 NC_045512.2 (19586)		CTTATAACCT-	CTGGA-ACACT---	TTACAAGACTT	CGAGTTTAGAA--AATGTGGCTTTTAA	TGTTGTAAAT	AAAGGACACTT	TGATGGACAAC			
											Section 210
	(20274)	20274	20280	20290	20300	20310	20320	20330	20340	20350	20360 20370
HIV-1 HXB2 (6925)		ATGGAACAGGACCATGTACAAATGTCAGCACAGTAC	AATGTACACATGGAATTAG	CCAGTAGTATCAACTCAAC	TGCTGTTAAATGGCAGTCTAGC						
SARS-CoV-2 NC_045512.2 (19676)		AGGGTGAAGTACCA	GTTCTATCATTA--ATAAC	ACTGTTTACACA	AAAGTTGATGGTGTGATGTAGA	ATTGTTTGAA-AATAAAC-AACATTAC					

SARS-CoV-2 & HIV-1.apr

																Section 211																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	(20371)	20371	20380	20390	20400	20410	20420	20430	20440	20450	20467																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
HIV-1 HXB2	(7022)	AGAAG	AA	GAGGTAGT	AA	TTAGAT	CT	GT	CAAT	TTCA	CG	GACAATG	CTAA	AA	CCAT	AA	TAGT	AC	AG	CTGAAC	AC	AT	CTGT	AGA	AA	T	TAA	TT	GT	TACAA	GA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
SARS-CoV-2 NC_045512.2	(19769)	CTGTT	AA	TGTAG--	CA	TTGA-G	CTT	TGGGC	T	AAG	CG	----	CAA	G	ATT	AA	A-CC	AG	TA	CC	AG	AG	G-T-GA	AA	AT	ACTC	AAT	AA	-TT-	TGG	GTGTG	GA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	(20468)	20468	20480	20490	20500	20510	20520	20530	20540	20550	20564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
HIV-1 HXB2	(7119)	CCCAA	C	AA	C	AA-	TAC	AAGA	AAAA	GAAT	C	CGT	A	TC	CAGAG	AG	GA	CCAG	GGAGAGC	ATT	T	GT	T	CA	AT	AG	GG	AAAAA	T	AGG	AA	AT	AT	G	A	C	A	C	A	T																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
SARS-CoV-2 NC_045512.2	(19854)	C	ATTG	C	TG	C	T	A	TAC	TGTG	A	TCT	G	GG	A	C	TAC	A	AA	GAGAT	G	CT	CCAG	CACATAT	AT	C	T	A	---	CT	AT	T	GG	TGTT-	T	G	T	T	C	T	A	T	G	A	C	T	---	AGC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	(20565)	20565	20570	20580	20590	20600	20610	20620	20630	20640	20650	20661																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
HIV-1 HXB2	(7215)	TGTA	A	C	ATT	AGTA	GAG	CAAA	AA	TG	GAAT	AA	C	A	C	A	C	T	T	T	AAAA	C	A	G	A	T	A	G	C	T	A	G	C	A	A	A	T	T	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

SARS-CoV-2 & HIV-1.apr

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SARS-CoV-2 & HIV-1.apr

											Section 225
	(21729)	21729	21740	21750	21760	21770	21780	21790	21800	21810	21825
HIV-1 HXB2 (8355)		GGATATTCA	CATT-ATCGTT	TCAGACC	CACCTCCCA	CCCGAGGGG	ACCCGACAGGC	CCGAAGGA	AT-AGAAGA	AGAAGGTGG	AGAGAGACAG
SARS-CoV-2 NC_045512.2 (20977)		GCAATTCA	ACTTTGATTGGT	GATTGTG	CAACTGTACA	TAGAGCTAAT	AATGGGATCT	CATTATTAGT	GATATGTACG	ACCCTAAGA	CTAAATG
											Section 226
	(21826)	21826	21840	21850	21860	21870	21880	21890	21900	21910	21922
HIV-1 HXB2 (8450)		AGACAGATCC	A-TTCGATTAGTG	AACGATCC	TTGGCACTTA	TC	TGGGACGATCT	TGCGGAGC	CT---GTGC	CTCTTCAGCT	ACCACC
SARS-CoV-2 NC_045512.2 (21074)		TTACAAAGA	AAATGACTCTA--	AAAGGGTT	TTTCACTTA	CATTTGTGGT	TTTATAC	AAACAAAAGCTA	GC	TCTTGGAGGTT	CCGTGGCTAT
											Section 227
	(21923)	21923	21930	21940	21950	21960	21970	21980	21990	22000	22019
HIV-1 HXB2 (8542)		ACTTACT--	CTTGATTGTAA	CAGGAT-TGTGG	AA-CTTC	TGGGAC	GCAGGGGGT	TGGGAAGCCCT	CAAATA	TTGGTGGGA	ATCTCCT
SARS-CoV-2 NC_045512.2 (21169)		ATAACAGAA	CATTC	TTGGAATGCT	GATCTTTAT	AAAGCTCA	TGGGACACTTC	GCA	T---GGT	GGA	CAGCTTTG
											Section 228
	(22020)	22020	22030	22040	22050	22060	22070	22080	22090	22100	22116
HIV-1 HXB2 (8635)		GTCA	GGAACTAA	AAGAA	TAGTGTCTGT	TTAGCTTGCTCA	ATGCCACAGC	CATAGCA	GTAGCTGAG	GGGACAGATAG	GGTTATAGA
SARS-CoV-2 NC_045512.2 (21255)		GTCA	TCACTGA	AAGCATTTT	TA-ATTGG-----	ATGTAA	TTATCTTTG	GCA	AACCACGCG	GAACAATA	GATGGTTATGT
											Section 229
	(22117)	22117	22130	22140	22150	22160	22170	22180	22190	22200	22213
HIV-1 HXB2 (8732)		TTGTAGAGCTA	TTGCCACATACCTAG	AAGAA	TAAAGACAGG	GCTTGGAAAGG	-ATTTTGC	TATAA	GATGGGTGGC	AAAGTGGT	CAAAAGT
SARS-CoV-2 NC_045512.2 (21339)		TTACATAT---	TTTGGAGGA	AA-----T	ACAAATCCAA	ATTCAGTTG	-TCTTCCT	ATTCT-T	TATTTGACAT	GAGTAAAT	TTCCCTTT
											Section 230
	(22214)	22214	22220	22230	22240	22250	22260	22270	22280	22290	22300
HIV-1 HXB2 (8828)		TTGGATG	GC-C	TAC	TGT	AAGGG	AAAGAA	TGAGAC	GAG-C	TGAGCCAGC	AGCAGATAGGG
SARS-CoV-2 NC_045512.2 (21425)		--GTACTGC	TGTTAT	TGTC	TTTA	AAAGAA	G	TCA	AATCAA	TGATATG-----	ATTTTATCTCTTCT
											Section 231
	(22311)	22311	22320	22330	22340	22350	22360	22370	22380	22390	22407
HIV-1 HXB2 (8923)		ATCACA	AGTAG-CA	ATACAGCAG	CTACC---	AATGCTG	--CTTGT	GCCTGG	CTAGAA	G	CACAGAGGAGGAGGAGG
SARS-CoV-2 NC_045512.2 (21503)		T	TAGAGA--AAA	CAACAGAG	TTGTAT	TTTCTAG	TGATGTTCTTGT	TAACAACT--	AAACGAA	CAATGT----	T---TGT

SARS-CoV-2 & HIV-1.apr

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SARS-CoV-2 & HIV-1.apr

											Section 239
	(23087)	23087	23100	23110	23120	23130	23140	23150	23160	23170	23183
HIV-1 HXB2	(9688)	-----ACCCTTTAGTCAG---TGTGGAAATCTCTAGCA-----									
SARS-CoV-2 NC_045512.2	(22119)	TCAAATAATCTTAGGGAATTGTGT-TAAGAAATGATGGTTATTTTAAATATATTCTAAGCACACGCCTATTAATTTAGTGCCTGATCTCCCTC									
											Section 240
	(23184)	23184	23190	23200	23210	23220	23230	23240	23250	23260	23270 23280
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(22215)	AGGGTTTTTCGGCTTTAGAACCATTTGGTAGATTTGCCAATAGGTATTAACATCACTAGGTTTCAAACCTTTACTTGCTTTACATAGAAGTTATTTGAC									
											Section 241
	(23281)	23281	23290	23300	23310	23320	23330	23340	23350	23360	23377
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(22312)	TCCTGGTGATTCTTCTTCAGGTTGGACAGCTGGTGCTGCAGCTTATTATGTGGGTTATCTTCAACCTAGGACTTTTCTATTAAATATAATGAAAAT									
											Section 242
	(23378)	23378	23390	23400	23410	23420	23430	23440	23450	23460	23474
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(22409)	GGAACCATTACAGATGCTGTAGACTGTGCACTTGACCCTCTCTCAGAAACAAAGTGACGTTGAAATCCTTCACTGTAGAAAAAGGAATCTATCAAA									
											Section 243
	(23475)	23475 23480	23490	23500	23510	23520	23530	23540	23550	23560	23571
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(22506)	CTTCTAACTTTAGAGTCCAACCAACAGAATCTATTGTTAGATTTTCTAATATTACAAACTTGTCCTTTTGGTGAAGTTTTTAACGCCACCAGATT									
											Section 244
	(23572)	23572	23580	23590	23600	23610	23620	23630	23640	23650	23668
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(22603)	TGCATCTGTTTATGCTTGGAACAGGAAGAGAATCAGCAACTGTGTTGCTGATTATTCTGTCCTATATAAATTCGCATCATTTTCCACTTTTAAAGTGT									
											Section 245
	(23669)	23669	23680	23690	23700	23710	23720	23730	23740	23750	23765
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(22700)	TATGGAGTGCTCCTACTAAATTAAATGATCTCTGCTTTACTAATGTCTATGCAGATTCATTTGTAATTAGAGGTGATGAAGTCAGACAAATCGCTC									

SARS-CoV-2 & HIV-1.apr

											Section 246	
	(23766)	23766	23780	23790	23800	23810	23820	23830	23840	23850	23862	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(22797)	CAGGGCAAACCTGGAAAGATTGCTGATTATAATTATAAAATTACCAGATGATTTTACAGGCTGCGTTATAGCTTGGAATTCTAACAATCTTGATTCTAA										
											Section 247	
	(23863)	23863	23870	23880	23890	23900	23910	23920	23930	23940	23959	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(22894)	GGTTGGTGGTAATTATAATTACCTGTATAGATTGTTTAGGAAGTCTAATCTCAAACCTTTTGAGAGAGATATTTCAACTGAAATCTATCAGGCCGGT										
											Section 248	
	(23960)	23960	23970	23980	23990	24000	24010	24020	24030	24040	24056	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(22991)	AGCACACCTTGTAATGGTGTGGAAGGTTTTAATTGTTACTTTCTTTACAATCATATGGTTTCCAACCCACTAATGGTGTGGTTACCAACCATACA										
											Section 249	
	(24057)	24057	24070	24080	24090	24100	24110	24120	24130	24140	24153	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(23088)	GAGTAGTAGTACTTTCTTTTGAACCTTCTACATGCACCAGCAACTGTTTGTGGACCTAAAAAGTCTACTAATTTGGTTAAAAACAAATGTGTCAATTT										
											Section 250	
	(24154)	24154	24160	24170	24180	24190	24200	24210	24220	24230	24240	24250
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(23185)	CAACTTCAATGGTTTAAACAGGCACAGGTGTTCTTACTGAGTCTAACAAAAAGTTTCTGCCTTTCCAACAATTTGGCAGAGACATTGCTGACACTACT										
											Section 251	
	(24251)	24251	24260	24270	24280	24290	24300	24310	24320	24330	24347	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(23282)	GATGCTGTCCGTGATCCACAGACACTTGAGATTCTTGACATTACACCATGTTCTTTTGGTGGTGTGTCAGTGTTATAACACCAGGAACAAATACTTCTA										
											Section 252	
	(24348)	24348	24360	24370	24380	24390	24400	24410	24420	24430	24444	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(23379)	ACCAGGTTGCTGTTCTTTATCAGGATGTAACTGCACAGAAGTCCCTGTTGCTATTTCATGCAGATCAACTTACTCCTACTTGGCGTGTTTATTCTAC										

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											Section 253	
	(24445)	24445	24450	24460	24470	24480	24490	24500	24510	24520	24530	24541
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(23476)	AGGTTCTAATGTTTTTCAAACACGTGCAGGCTGTTTAATAGGGGCTGAACATGTCAACAACATCATATGAGTGTGACATACCCATTGGTGCAGGTATA										
											Section 254	
	(24542)	24542	24550	24560	24570	24580	24590	24600	24610	24620		24638
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(23573)	TGCGCTAGTTATCAGACTCAGACTAATTCTCCTCGGCGGGCACGTAGTGTAGCTAGTCAATCCATCATTGCCTACACTATGTCACTTGGTGCAGAAA										
											Section 255	
	(24639)	24639	24650	24660	24670	24680	24690	24700	24710	24720		24735
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(23670)	ATTCAGTTGCTTACTCTAATAACTCTATTGCCATACCCACAAATTTTACTATTAGTGTTACCACAGAAATTCTACCAGTGTCTATGACCAAGACATC										
											Section 256	
	(24736)	24736	24750	24760	24770	24780	24790	24800	24810	24820		24832
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(23767)	AGTAGATTGTACAATGTACATTTGTGGTGATTCAACTGAATGCAGCAATCTTTTGTGCAATATGGCAGTTTTTGTACACAATTAACCGTGCTTTA										
											Section 257	
	(24833)	24833	24840	24850	24860	24870	24880	24890	24900	24910		24929
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(23864)	ACTGGAATAGCTGTTGAACAAGACAAAAACACCCAAGAAGTTTTTGCACAAGTCAAACAAATTTACAAAACACCACCAATTAAAGATTTTGGTGGTT										
											Section 258	
	(24930)	24930	24940	24950	24960	24970	24980	24990	25000	25010		25026
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(23961)	TTAATTTTTTCACAAATATTACCAGATCCATCAAAACCAAGCAAGAGGTCATTTATTGAAGATCTACTTTTCAACAAAGTGACACTTGCAGATGCTGG										
											Section 259	
	(25027)	25027	25040	25050	25060	25070	25080	25090	25100	25110		25123
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(24058)	CTTCATCAAACAATATGGTGATTGCCTTGGTGATATTGCTGCTAGAGACCTCATTTGTGCACAAAAGTTTAACGGCCTTACTGTTTTGCCACCTTTG										

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											Section 260
	(25124)	25124	25130	25140	25150	25160	25170	25180	25190	25200	25210 25220
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(24155)	CTCAGATGAAATGATTGCTCAATACACTTCTGCACTGTTAGCGGGTACAATCACTTCTGGTTGGACCTTTGGTGCAGGTGCTGCATTACAAATAC									
											Section 261
	(25221)	25221	25230	25240	25250	25260	25270	25280	25290	25300	25317
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(24252)	CATTGCTATGCAAATGGCTTATAGGTTAATGGTATTGGAGTTACACAGAATGTTCTCTATGAGAACCACAAAATTGATTGCCAACCAATTTAATAG									
											Section 262
	(25318)	25318	25330	25340	25350	25360	25370	25380	25390	25400	25414
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(24349)	TGCTATTGGCAAAATTCAAGACTCACTTTCTTCCACAGCAAGTGCACCTTGGAAAACTTCAAGATGTGGTCAACCAAAATGCACAAGCTTTAAACACG									
											Section 263
	(25415)	25415	25420	25430	25440	25450	25460	25470	25480	25490	25500 25511
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(24446)	CTTGTTAAACAACCTTAGCTCCAATTTTGGTGCAATTTCAAGTGTTTTAAATGATATCCTTTTCACGTCTTGACAAAGTTGAGGCTGAAGTGCAAATTG									
											Section 264
	(25512)	25512	25520	25530	25540	25550	25560	25570	25580	25590	25608
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(24543)	ATAGGTTGATCACAGGCAGACTTCAAAGTTTGCAGACATATGTGACTCAACAATTAATTAGAGCTGCAGAAATCAGAGCTTCTGCTAATCTTGCTGC									
											Section 265
	(25609)	25609	25620	25630	25640	25650	25660	25670	25680	25690	25705
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(24640)	TACTAAAATGTCAGAGTGTGTACTTGGACAATCAAAAAGAGTTGATTTTTGTGGAAAGGGCTATCATCTTATGTCCTTCCCTCAGTCAGCACCTCAT									
											Section 266
	(25706)	25706	25720	25730	25740	25750	25760	25770	25780	25790	25802
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(24737)	GGTGTAGTCTTCTTGCATGTGACTTATGTCCCTGCACAAGAAAAGAACTTCACAACCTGCTCCTGCCATTTGTCATGATGGAAAAGCACACTTTCCTC									

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											Section 267
	(25803)	25803	25810	25820	25830	25840	25850	25860	25870	25880	25899
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(24834)	GTGAAGGTGTCTTTGTTTCAAATGGCACACACTGGTTTGTAAACACAAAGGAATTTTATGAACCACAAATCATTACTACAGACAACACATTTGTGTC									
											Section 268
	(25900)	25900	25910	25920	25930	25940	25950	25960	25970	25980	25996
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(24931)	TGGTAACTGTGATGTTGTAATAGGAATTGTCAACAACACAGTTTATGATCCTTTGCAACCTGAATTAGACTCATTCAAGGAGGAGTTAGATAAATAT									
											Section 269
	(25997)	25997	26010	26020	26030	26040	26050	26060	26070	26080	26093
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25028)	TTTAAGAATCATACATCACCAGATGTTGATTTAGGTGACATCTCTGGCATTAATGCTTCAGTTGTAAACATTCAAAAAGAAATTGACCGCCTCAATG									
											Section 270
	(26094)	26094	26100	26110	26120	26130	26140	26150	26160	26170	26180 26190
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25125)	AGGTTGCCAAGAATTTAAATGAATCTCTCATCGATCTCCAAGAACTTGGAAAGTATGAGCAGTATATAAAATGGCCATGGTACATTTGGCTAGGTTT									
											Section 271
	(26191)	26191	26200	26210	26220	26230	26240	26250	26260	26270	26287
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25222)	TATAGCTGGCTTGATTGCCATAGTAATGGTGACAATTATGCTTTGCTGTATGACCAGTTGCTGTAGTTGTCTCAAGGGCTGTTGTTCTTGTGGATCC									
											Section 272
	(26288)	26288	26300	26310	26320	26330	26340	26350	26360	26370	26384
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25319)	TGCTGCAAATTTGATGAAGACGACTCTGAGCCAGTGCTCAAAGGAGTCAAATTACATTACACATAAACGAACCTTATGGATTTGTTTATGAGAATCTT									
											Section 273
	(26385)	26385	26390	26400	26410	26420	26430	26440	26450	26460	26470 26481
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25416)	CACAATTGGAACTGTAACCTTTGAAGCAAGGTGAAATCAAGGATGCTACTCCTTCAGATTTTGTTCGCGCTACTGCAACGATACCGATACAAGCCTCA									

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											Section 274
	(26482)	26482	26490	26500	26510	26520	26530	26540	26550	26560	26578
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25513)	CTCCCTTTTCGGATGGCTTATTGTTGGCGTTGCACTTCTTGCTGTTTTTCAGAGCGCTTCCAAAATCATAACCCTCAAAAAGAGATGGCAACTAGCAC									
											Section 275
	(26579)	26579	26590	26600	26610	26620	26630	26640	26650	26660	26675
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25610)	TCTCCAAGGGTGTTCACTTTGTTGCAACTTGCTGTTGTTGTTGTAACAGTTTACTCACACCTTTTGCTCGTTGCTGCTGGCCTTGAAGCCCCTTT									
											Section 276
	(26676)	26676	26690	26700	26710	26720	26730	26740	26750	26760	26772
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25707)	TCTCTATCTTTATGCTTTAGTCTACTTCTTGCAAGTATAAACTTTGTAAGAATAATAATGAGGCTTTGGCTTTGCTGGAAATGCCGTTCCAAAAAC									
											Section 277
	(26773)	26773	26780	26790	26800	26810	26820	26830	26840	26850	26869
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25804)	CCATTACTTTATGATGCCAACTATTTTCTTTGCTGGCATACTAATTGTTACGACTATTGTATACCTTACAATAGTGTAACCTTCTTCAATTGTCATTA									
											Section 278
	(26870)	26870	26880	26890	26900	26910	26920	26930	26940	26950	26966
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25901)	CTTCAGGTGATGGCACAACAAGTCCTATTTCTGAACATGACTACCAGATTGGTGGTTATACTGAAAAATGGGAATCTGGAGTAAAAGACTGTGTTGT									
											Section 279
	(26967)	26967	26980	26990	27000	27010	27020	27030	27040	27050	27063
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(25998)	ATTACACAGTTACTTCACTTCAGACTATTACCAGCTGTACTCAACTCAATTGAGTACAGACACTGGTGTGTAACATGTTACCTTCTTCATCTACAAT									
											Section 280
	(27064)	27064	27070	27080	27090	27100	27110	27120	27130	27140	27150 27160
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(26095)	AAAATTGTTGATGAGCCTGAAGAACATGTCCAAATTCACACAATCGACGGTTCATCCGGAGTTGTTAATCCAGTAATGGAACCAATTTATGATGAAC									

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											Section 281	
	(27161)	27161	27170	27180	27190	27200	27210	27220	27230	27240	27257	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(26192)	CGACGACGACTACTAGCGTGCCTTTGTAAGCACAAAGCTGATGAGTACGAACTTATGTACTCATTTCGTTTCGGAAGAGACAGGTACGTTAATAGTTAA										
											Section 282	
	(27258)	27258	27270	27280	27290	27300	27310	27320	27330	27340	27354	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(26289)	TAGCGTACTTCTTTTTCTTGCTTTCGTGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGTT										
											Section 283	
	(27355)	27355	27360	27370	27380	27390	27400	27410	27420	27430	27440	27451
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(26386)	AACGTGAGTCTTGTAACCTTCTTTTTACGTTTACTCTCGTGTTAAAAATCTGAATTCTTCTAGAGTTTCTGATCTTCTGGTCTAAACGAACTAAA										
											Section 284	
	(27452)	27452	27460	27470	27480	27490	27500	27510	27520	27530	27548	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(26483)	TATTATATTAGTTTTCTGTTTGGAACCTTTAATTTTAGCCATGGCAGATTCCAACGGTACTATTACCGTTGAAGAGCTTAAAAAGCTCCTTGAACAA										
											Section 285	
	(27549)	27549	27560	27570	27580	27590	27600	27610	27620	27630	27645	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(26580)	TGGAACCTAGTAATAGGTTTCCTATTCCTTACATGGATTTGTCTTCTACAATTTGCCTATGCCAACAGGAATAGGTTTTTGTATATAATTAAGTTAA										
											Section 286	
	(27646)	27646	27660	27670	27680	27690	27700	27710	27720	27730	27742	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(26677)	TTTTCTCTGGCTGTTATGGCCAGTAACCTTAGCTTGTTTTGTGCTTGCTGCTGTTTACAGAATAAATTGGATCACCGGTGGAATTGCTATCGCAAT										
											Section 287	
	(27743)	27743	27750	27760	27770	27780	27790	27800	27810	27820	27839	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(26774)	GGCTTGCTTGTAGGCTTGATGTGGCTCAGCTACTTCATTGCTTCTTTCAGACTGTTTGCGCGTACGCGTTCCATGTGGTCATTCAATCCAGAACT										

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											Section 288
	(27840)	27840	27850	27860	27870	27880	27890	27900	27910	27920	27936
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(26871)	AACATTCTTCTCAACGTGCCACTCCATGGCACTATTCTGACCAGACCGCTTCTAGAAAGTGAACCTCGTAATCGGAGCTGTGATCCTTCGTGGACATC									
											Section 289
	(27937)	27937	27950	27960	27970	27980	27990	28000	28010	28020	28033
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(26968)	TTCGTATTGCTGGACACCATCTAGGACGCTGTGACATCAAGGACCTGCCTAAAGAAATCACTGTTGCTACATCACGAACGCTTTCTTATTACAAATT									
											Section 290
	(28034)	28034	28040	28050	28060	28070	28080	28090	28100	28110	28120 28130
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(27065)	GGGAGCTTCGCAGCGTGTAGCAGGTGACTCAGGTTTTGCTGCATACAGTCGCTACAGGATTGGCAACTATAAATTAAACACAGACCATTCCAGTAGC									
											Section 291
	(28131)	28131	28140	28150	28160	28170	28180	28190	28200	28210	28227
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(27162)	AGTGACAATATTGCTTTGCTTGTACAGTAAGTGACAACAGATGTTTCATCTCGTTGACTTTTCAGGTTACTATAGCAGAGATATTACTAATTATTATG									
											Section 292
	(28228)	28228	28240	28250	28260	28270	28280	28290	28300	28310	28324
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(27259)	AGGACTTTTAAAGTTTCCATTTGGAATCTTGATTACATCATAAACCTCATAATTAAAAATTTATCTAAGTCACTAACTGAGAATAAATATTCTCAAT									
											Section 293
	(28325)	28325	28330	28340	28350	28360	28370	28380	28390	28400	28410 28421
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(27356)	TAGATGAAGAGCAACCAATGGAGATTGATTAAACGAACATGAAAATTATTCTTTTCTTGGCACTGATAACACTCGCTACTTGTGAGCTTTATCACTA									
											Section 294
	(28422)	28422	28430	28440	28450	28460	28470	28480	28490	28500	28518
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(27453)	CCAAGAGTGTTAGAGGTACAACAGTACTTTTAAAGAACCTTGCTCTTCTGGAACATACGAGGGCAATTCACCATTTTCATCCTCTAGCTGATAAC									

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											Section 295
	(28519)	28519	28530	28540	28550	28560	28570	28580	28590	28600	28615
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(27550)	AAATTTGCACTGACTTGCTTTAGCACTCAATTTGCTTTTGCTTGCTCTGACGGCGTAAAACACGTCTATCAGTTACGTGCCAGATCAGTTTACCTA									
											Section 296
	(28616)	28616	28630	28640	28650	28660	28670	28680	28690	28700	28712
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(27647)	AACTGTTTCATCAGACAAGAGGAAGTTCAAGAACTTTACTCTCCAATTTTTCTTATTGTTGCGGCAATAGTGTTTATAACACTTTGCTTCACACTCAA									
											Section 297
	(28713)	28713	28720	28730	28740	28750	28760	28770	28780	28790	28809
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(27744)	AAGAAAGACAGAATGATTGAACTTTCATTAATTGACTTCTATTTGTGCTTTTTAGCCTTTCTGCTATTCCCTTGTTTTAATTATGCTTATTATCTTTT									
											Section 298
	(28810)	28810	28820	28830	28840	28850	28860	28870	28880	28890	28906
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(27841)	GGTTCTCACTTGAAGTCAAGATCATAATGAACTTGTCACGCCTAAACGAACATGAAATTTCTTGTTTTCTTAGGAATCATCACAAGTGTAGCTGC									
											Section 299
	(28907)	28907	28920	28930	28940	28950	28960	28970	28980	28990	29003
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(27938)	ATTTACCAAGAATGTAGTTTACAGTCATGTACTCAACATCAACCATATGTAGTTGATGACCCGTGTCCTATTCACTTCTATTCTAAATGGTATATT									
											Section 300
	(29004)	29004	29010	29020	29030	29040	29050	29060	29070	29080	29090 29100
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(28035)	AGAGTAGGAGCTAGAAAATCAGCACCTTTAATTGAATTGTGCGTGGATGAGGCTGGTTCTAAATCACCCATTTCAGTACATCGATATCGGTAATTATA									
											Section 301
	(29101)	29101	29110	29120	29130	29140	29150	29160	29170	29180	29197
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(28132)	CAGTTTCCTGTTTACCTTTTACAATTAATTGCCAGGAACCTAAATTGGGTAGTCTTGTTAGTGCGTTGTTTCGTTCTATGAAGACTTTTTAGAGTATCA									

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											Section 302	
	(29198)	29198	29210	29220	29230	29240	29250	29260	29270	29280	29294	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(28229)	TGACGTTTCGTGTTGTTTTAGATTTTCATCTAAACGAACAACTAAAATGTCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTG										
											Section 303	
	(29295)	29295	29300	29310	29320	29330	29340	29350	29360	29370	29380	29391
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(28326)	GTGGACCCTCAGATTCAACTGGCAGTAACCAGAATGGAGAACGCAGTGGGGCGCGATCAAAACAACGTCGGCCCCAAGGTTTACCCAATAATACTGC										
											Section 304	
	(29392)	29392	29400	29410	29420	29430	29440	29450	29460	29470	29488	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(28423)	GTCTTGTTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCCTCGAGGACAAGGCGTTCCAATTAACACCAATAGCAGTCCAGATGAC										
											Section 305	
	(29489)	29489	29500	29510	29520	29530	29540	29550	29560	29570	29585	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(28520)	CAAATTGGCTACTACCGAAGAGCTACCAGACGAATTCGTGGTGGTGACGGTAAAATGAAAGATCTCAGTCCAAGATGGTATTTCTACTACCTAGGAA										
											Section 306	
	(29586)	29586	29600	29610	29620	29630	29640	29650	29660	29670	29682	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(28617)	CTGGGCCAGAAGCTGGACTTCCCTATGGTGCTAACAAAGACGGCATCATATGGGTTGCAACTGAGGGAGCCTTGAATACACCAAAAGATCACATTGG										
											Section 307	
	(29683)	29683	29690	29700	29710	29720	29730	29740	29750	29760	29779	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(28714)	CACCCGCAATCCTGCTAACAAATGCTGCAATCGTGCTACAACCTTCTCAAGGAACAACATTGCCAAAAGGCTTCTACGCAGAAGGGAGCAGAGGCGGC										
											Section 308	
	(29780)	29780	29790	29800	29810	29820	29830	29840	29850	29860	29876	
HIV-1 HXB2	(9720)	-----										
SARS-CoV-2 NC_045512.2	(28811)	AGTCAAGCCTCTTCTCGTTCCCTCATCACGTAGTCGCAACAGTTCAAGAAATTCAACTCCAGGCAGCAGTAGGGGAAGTTCTCCTGCTAGAATGGCTG										

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Section 309											
	(29877)	29877	29890	29900	29910	29920	29930	29940	29950	29960	29973
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(28908)	GCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAGCTTGAGAGCAAAATGTCTGGTAAAGGCCAACACAACAAGGCCA									
Section 310											
	(29974)	29974	29980	29990	30000	30010	30020	30030	30040	30050	30060 30070
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(29005)	AACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAAGCCTCGGCCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTTCGGCAGA									
Section 311											
	(30071)	30071	30080	30090	30100	30110	30120	30130	30140	30150	30167
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(29102)	CGTGGTCCAGAACAAACCCAAGGAAATTTTGGGGACCAGGAAC TAATCAGACAAGGAAGT GATTACAAACATTGGCCGCAAATTGCACAATTTGCC									
Section 312											
	(30168)	30168	30180	30190	30200	30210	30220	30230	30240	30250	30264
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(29199)	CCAGCGCTTCAGCGTTCTTCGGAATGTCGCGCATTGGCATGGAAGTCACACCTTCGGGAACGTGGTTGACCTACACAGGTGCCATCAAATTGGATGA									
Section 313											
	(30265)	30265	30270	30280	30290	30300	30310	30320	30330	30340	30350 30361
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(29296)	CAAAGATCCAAATTTCAAAGATCAAGTCATTTTGCTGAATAAGCATATTGACGCATACAAAACATTCCCACCAACAGAGCCTAAAAAGGACAAAAAG									
Section 314											
	(30362)	30362	30370	30380	30390	30400	30410	30420	30430	30440	30458
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(29393)	AAGAAGGCTGATGAAACTCAAGCCTTACCGCAGAGACAGAAGAAACAGCAAAC TGTGACTCTTCTTCTGCTGCAGATTTGGATGATTTCTCCAAAC									
Section 315											
	(30459)	30459	30470	30480	30490	30500	30510	30520	30530	30540	30555
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(29490)	AATTGCAACAATCCATGAGCAGTGCTGACTCAACTCAGGCCTAAACTCATGCAGACCACACAAGGCAGATGGGCTATATAAACGTTTTTCGCTTTTCC									

SARS-CoV-2 & HIV-1.apr

											Section 316
	(30556)	30556	30570	30580	30590	30600	30610	30620	30630	30640	30652
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(29587)	GTTTACGATATATAGTCTACTCTTGTGCAGAATGAATTCTCGTAACTACATAGCACAAAGTAGATGTAGTTAACTTTAATCTCACATAGCAATCTTTA									
											Section 317
	(30653)	30653	30660	30670	30680	30690	30700	30710	30720	30730	30749
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(29684)	ATCAGTGTGTAACATTAGGGAGGACTTGAAAGAGCCACCACATTTTCACCGAGGCCACGCGGAGTACGATCGAGTGTACAGTGAACAATGCTAGGGA									
											Section 318
	(30750)	30750	30760	30770	30780	30790	30800	30810	30820	30830	30846
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(29781)	GAGCTGCCTATATGGAAGAGCCCTAATGTGTAAAATTAATTTTAGTAGTGCTATCCCCATGTGATTTTAATAGCTTCTTAGGAGAATGACAAAAAAA									
											Section 319
	(30847)	30847	30860	30872							
HIV-1 HXB2	(9720)	-----									
SARS-CoV-2 NC_045512.2	(29878)	AAAAAAAAAAAAAAAAAAAAAAAAAAAA									