

Sars-CoV-2 & E.coli K12 Zwischenstückaprr.apr

		Section 1									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(1)	1	10	20	30	40	50	60	70	83	
	(1)	TCGTCAGCCAGAACCGCCAGCGCAGAGGCCATACCAATGCCGTTATCCGCACCCAGCGTGGTGCCGCGCGCTTTAACCCATTC									
	(1)	-----									
		Section 2									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(84)	84	90	100	110	120	130	140	150	166	
	(84)	GCCATCAATATAAGGCTGGATAGGATCTTTCGTGAAGTCATGCACGGTGTCGTTATTTTTCTGCGGCACCATATCGAGGTGGG									
	(1)	-----									
		Section 3									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(167)	167	180	190	200	210	220	230	249		
	(167)	CCTGTAAGACGACCGGTTTACGATTTTCCATACCTGCGGTAGCAGGTTTACGAATCAGGATATTACCTACCTGATCGCGTTTCG									
	(1)	-----									
		Section 4									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(250)	250	260	270	280	290	300	310	320	332	
	(250)	ACATGGAAACCTTTCTCTTTTGCCCAACCAACAATGTATTCAGCGAGTTGCTCTTCATGATAGGACGGGTGAGGAATAGAACA									
	(1)	-----									
		Section 5									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(333)	333	340	350	360	370	380	390	400	415	
	(333)	GATTTTGGCAAAAATATCCACAGCGGGCTGTGGAGATAATTGAGACAGTTTCAGACACGTTAAGTCTCCTTGTCGATCACCCGC									
	(1)	-----									
		Section 6									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(416)	416	430	440	450	460	470	480	498		
	(416)	AAAACAGTATTGCAGGTCACAGGGTTAGCAGAAAATGTTGTCAACACAAGACAGGCTTGCGAGATATGTTTGAGAATACCACT									
	(1)	-----									
		Section 7									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(499)	499	510	520	530	540	550	560	570	581	
	(499)	TTATCCCGCGTCAGGGAGAGGCAGTGCGTAAAAAGACGCGGACTCATGTGAAATACTGGTTTTTGTGCGCCAGATCTCTATA									
	(1)	-----									
	(499)										

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		Section 8									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(582)	582	590	600	610	620	630	640	650	664	
	(582)	ATCTCGCGCAACCTATTTTCCCTCGAACACTTTTAAAGCCGTAGATAAACAGGCTGGGACACTTCACATGAGCGAAAAATAC									
	(1)	-----									
	(582)										
		Section 9									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(665)	665	670	680	690	700	710	720	730	747	
	(665)	ATCGTCACCTGGGACATGTTGCAGATCCATGCACGTAAACTCGCAAGCCGACTGATGCCTTCTGAACAATGGAAGGCATTAT									
	(1)	-----									
	(665)										
		Section 10									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(748)	748	760	770	780	790	800	810	820	830	
	(748)	TGCCGTAAGCCGTGGCGGTCTGGTACCGGGTGCGTTACTGGCGCGTGAAGTGGGTATTCGTCATGTCGATACCGTTTGTATTT									
	(1)	-----									
	(748)										
		Section 11									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(831)	831	840	850	860	870	880	890	900	913	
	(831)	CCAGCTACGATCACGACAACCAGCGCGAGCTTAAAGTGCTGAAACGCGCAGAAGGCGATGGCGAAGGCTTCATCGTTATTGAT									
	(1)	-----									
	(831)										
		Section 12									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(914)	914	920	930	940	950	960	970	980	996	
	(914)	GACCTGGTGGATACCGGTGGTACTGCGGTTGCGATTTCGTGAAATGTATCCAAAAGCGCACTTTGTCAACCATCTTCGCAAAACC									
	(1)	-----									
	(914)										
		Section 13									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(997)	997	1010	1020	1030	1040	1050	1060	1079		
	(997)	GGCTGGTCGTCGCTGGTTGATGACTATGTTGTTGATATCCCGCAAGATACCTGGATTGAACAGCCGTGGGATATGGGCGTCG									
	(1)	-----									
	(997)										
		Section 14									
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(1080)	1080	1090	1100	1110	1120	1130	1140	1150	1162	
	(1080)	TATTCGTCCCGCCAATCTCCGGTCGCTAATCTTTTCAACGCCTGGCACTGCCGGGCGTTGTTCTTTTTAACTTCAGGCGGGTT									
	(1)	-----									
	(1080)										

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		Section 15									
	(1163)	1163	1170	1180	1190	1200	1210	1220	1230	1245	
K12 Zwischenstück 255.328 - 290.948	(1163)	ACAATAGTTTCCAGTAAGTATTCTGGAGGCTGCATCCATGACACAGGCAAACCTGAGCGAAACCCTGTTCAAACCCCGCTTTA									
SARS-CoV-2 Reference Genome NC_045512.2	(1)	-----									
Consensus	(1163)										
		Section 16									
	(1246)	1246	1260	1270	1280	1290	1300	1310	1328		
K12 Zwischenstück 255.328 - 290.948	(1246)	AACATCCTGAAACCTCGACGCTAGTCCGCCGCTTTAATCACGGCGCACAAACCGCCTGTGCAGTCGGCCCTTGATGGTAAAC									
SARS-CoV-2 Reference Genome NC_045512.2	(1)	-----									
Consensus	(1246)										
		Section 17									
	(1329)	1329	1340	1350	1360	1370	1380	1390	1400	1411	
K12 Zwischenstück 255.328 - 290.948	(1329)	ATCCCTCACTGGTATCGCATGATTAACCGTCTGATGTGGATCTGGCGCGGCATTGACCCACGCGAAATCCTCGACGTCCAGGC									
SARS-CoV-2 Reference Genome NC_045512.2	(1)	-----									
Consensus	(1329)										
		Section 18									
	(1412)	1412	1420	1430	1440	1450	1460	1470	1480	1494	
K12 Zwischenstück 255.328 - 290.948	(1412)	ACGTATTGTGATGAGCGATGCCGAACGTACCGACGATGATTTATACGATACGGTGATTGGCTACCGTGGCGGCAACTGGATTT									
SARS-CoV-2 Reference Genome NC_045512.2	(1)	-----									
Consensus	(1412)										
		Section 19									
	(1495)	1495	1500	1510	1520	1530	1540	1550	1560	1577	
K12 Zwischenstück 255.328 - 290.948	(1495)	ATGAGTGGGCCACCCAGGCGATGGTGTGGCAACAAAAGCCTGTGCGGAAGACGATCCGCAACTCAGTGGTCGTCACTGGCTG									
SARS-CoV-2 Reference Genome NC_045512.2	(1)	-----									
Consensus	(1495)										
		Section 20									
	(1578)	1578	1590	1600	1610	1620	1630	1640	1650	1660	
K12 Zwischenstück 255.328 - 290.948	(1578)	CATGCGGCTACGTTGTACAACATTGCCGCCTATCCTCATCTGAAAGGAGATGACCTGGCCGAGCAAGCGCAGGCTTTGTCAAA									
SARS-CoV-2 Reference Genome NC_045512.2	(1)	-----ATTAAAGGTTTATACCTT									
Consensus	(1578)	AAGGTTCT									
		Section 21									
	(1661)	1661	1670	1680	1690	1700	1710	1720	1730	1743	
K12 Zwischenstück 255.328 - 290.948	(1661)	CCGCCTATGAG-AGGCGCTCAGCGTCTACCGG-GCAGATGCGGCAGATGGAGTTTACCGTACCCGGCGGTGCGCCCAT									
SARS-CoV-2 Reference Genome NC_045512.2	(19)	CCCAAGTAACAACCAACCTTTCGATCTTGTAGATCTGTCTCTAAACGAACTTTAAAT-----CTGTGTGGCTGT									
Consensus	(1661)	CCGAAACCTTCTGGCTCTAAGATTATCTCTGTGCT									

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		Section 22											
		(1744)	1744	1750	1760	1770	1780	1790	1800	1810	1826		
K12 Zwischenstück 255.328 - 290.948	(1742)	CAC	-	CGGCT	TTT	TGC	ATA	TGC	GA	AAGG	CG	AT	GGCCCG
SARS-CoV-2 Reference Genome NC_045512.2	(96)	CAC	T	CGGCT	GCA	TGC	TA	GTGC	-	ACTCA	CG	CAG	TATAAA
Consensus	(1744)	CAC		CGGCT		TGC	TA		C	A		CG	G
		Section 23											
		(1827)	1827	1840	1850	1860	1870	1880	1890	1909			
K12 Zwischenstück 255.328 - 290.948	(1824)	---	GAC	CT	AT	TA	CAG	C	CTG	TAT	GA	ACG	TT
SARS-CoV-2 Reference Genome NC_045512.2	(175)	TCT	TAT	CT	TCT	TG	CAG	G	CTG	CT	T	ACG	GT
Consensus	(1827)			CT		T	CAG		CTG		T	ACG	
		Section 24											
		(1910)	1910	1920	1930	1940	1950	1960	1970	1980	1992		
K12 Zwischenstück 255.328 - 290.948	(1904)	T	T	C	T	T	C	A	A	A	T	G	A
SARS-CoV-2 Reference Genome NC_045512.2	(250)	G	T	G	A	C	G	A	A	G	G	T	A
Consensus	(1910)	T		C		A		A		A		G	
		Section 25											
		(1993)	1993	2000	2010	2020	2030	2040	2050	2060	2075		
K12 Zwischenstück 255.328 - 290.948	(1987)	A	T	C	A	C	A	C	T	T	C	G	C
SARS-CoV-2 Reference Genome NC_045512.2	(325)	T	T	A	C	A	G	G	T	C	G	C	G
Consensus	(1993)	T		A		C		A		G		C	
		Section 26											
		(2076)	2076	2090	2100	2110	2120	2130	2140	2158			
K12 Zwischenstück 255.328 - 290.948	(2068)	T	G	A	A	G	C	G	T	T	G	C	T
SARS-CoV-2 Reference Genome NC_045512.2	(402)	T	T	A	A	G	A	T	G	C	T	T	G
Consensus	(2076)	T		A		A		G		C		T	
		Section 27											
		(2159)	2159	2170	2180	2190	2200	2210	2220	2230	2241		
K12 Zwischenstück 255.328 - 290.948	(2146)	T	G	T	A	T	C	T	T	G	A	C	G
SARS-CoV-2 Reference Genome NC_045512.2	(473)	T	T	C	A	T	C	A	T	T	G	A	C
Consensus	(2159)	T		A		T		C		T		G	
		Section 28											
		(2242)	2242	2250	2260	2270	2280	2290	2300	2310	2324		
K12 Zwischenstück 255.328 - 290.948	(2229)	T	T	A	A	A	G	T	G	C	A	A	G
SARS-CoV-2 Reference Genome NC_045512.2	(549)	T	T	C	A	G	T	A	C	T	G	C	A
Consensus	(2242)	T		A		G		T		C		A	

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		Section 29															
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(2325)	2325	2330	2340	2350	2360	2370	2380	2390	2407							
	(2306)	CC- CGGAAGA GGAC TCA CGCT TAA TCAC CTCAT C TGCTGACGG TA-- ATT TATT AGAGAT CCCC ATT TAAC CCG-GT STA															
	(632)	CTT CGTAAGA ACGG TAA --- TAA GG AGCTGGTGGC GA TAGTTACGG CGCC ATCTAAAGTCAT TT GTAC TTA GGC GAC GAGCT															
	(2325)	C CG AAGA T A T AA A CT T C T T AC GG AT AG AT A TTA C G G															
Section 30																	
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(2408)	2408	2420	2430	2440	2450	2460	2470	2480	2490							
	(2384)	TCGGA --- ATTTT GA CA AAGG TCTTCAG GAAAT C ACCGAC TGG ATCG AAAAC G CTTGTGT TA AAAA TTTG CTAA ATTT TGCC															
	(712)	TGGCA CTG ATCC TTATG AAGA ATTTC A GAAAA C TGGAAC ACT AAAC ATAG CA G-TG TGTGT TA CCCG TGAACT CA TGCG TGAG															
	(2408)	T G A AT T A AAG T TTCA GAAA C AC A A A G T GTGTTA T CT A TG															
Section 31																	
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(2491)	2491	2500	2510	2520	2530	2540	2550	2560	2573							
	(2464)	AA TTTG GTAAA ACAG TTG CA TCACA CA GAG ATA GCAA-TG AC GT TA CCGAG-TGG AC ACCC GAA- GAG CAG ATT GATC AAA															
	(794)	CT TAA C GGA GGGGCA TAC AC TCGCTA T- GTC GATA CAA CT TCTGT GG CCCTGA TGGCT ACCC TCTT GAG TGC ATT ---- AAA															
	(2491)	T G A T TC C A G GATA CAA T GT CC G TGG ACCC GAG ATT AAA															
Section 32																	
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(2574)	2574	2580	2590	2600	2610	2620	2630	2640	2656							
	(2544)	AA ATTT ACC GCAC TAG GCC GTA TA-- TTC GT GA AAGGTAG G-- TAA TG ACTCC AAC TTATT GA TAGT GT TTTT TAT GTTC AG ATA															
	(872)	GACC TTCTA GCAC GT G-CTG GTA AA GCTTC AT GC ACT TTGT CCG AA CA ACTGG ACT TTATT GA CACT TAAGAGGG GTGT ATA ACT															
	(2574)	A TT GCAC G C GTA A TTC TG A T G AA ACT A TTATTGA A T GT A A															
Section 33																	
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(2657)	2657	2670	2680	2690	2700	2710	2720	2739								
	(2623)	ATGC CCG ATG ACTTT GT CATG CA----- GCTCC AC CGA --- TTT TG AGAA CGA CAGC GA CTTC CGTC CCAG CG TGCC AGG															
	(954)	GCTG CCG TGA ACAT AG CATG AA ATTG CTT GTTAC AG GACG TTCT GA AAAG AGC TATGA ATT G CAG AC-AC CTTT TGA AA T															
	(2657)	CCG AC T CATG A G T CAC GA TT TGA AA C GA TT C C A C T A															
Section 34																	
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(2740)	2740	2750	2760	2770	2780	2790	2800	2810	2822							
	(2696)	TG CTGCCT CAG ATTC AGGTT ATG CCGC TCAAT TC GCTGC GTAT ATCGC TTG CTGA TTAC GT GCA GC TTTCC CT TCAG GC CGGGA															
	(1036)	TAA ATTGG CAA AGAA ATT TG ACA CC T- TCAAT GG GGAAT GTCC AA ATT TTG - TATTT CC TTAA AT TCC ATA TCAG AG ACT-A															
	(2740)	T CA A A T A CC TCAAT G GT A TTG T TT C T A T TCA G A															
Section 35																	
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(2823)	2823	2830	2840	2850	2860	2870	2880	2890	2905							
	(2779)	TTCA TA CAGC GGCC AGCC ATCCGT CA T CATAT C AC CA CGTCA AA AGGGT GA CAG CAG GCTC ATAAG ACG CCCC GCGTC G CCA															
	(1116)	TTCA AC CA AG GG TT- GAA AGAAAA AG TT GAT GG ---- TTT AT GGGT - AGA ATTC GATC TGTCT ATC CAGTT GCGTC AC CCA															
	(2823)	TTCA CA GG G A A C AT C T A GGGT A A G TC A C GCGTC CCA															

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		Section 36									
		(2906)	2906	2920	2930	2940	2950	2960	2970	2988	
K12 Zwischenstück 255.328 - 290.948	(2862)	TAGTGCCTTCAACCGAATACGTGCGCAAACAACGCTTCCGGAGACTGTCATACGCGTAAACAGCCAGCGCTGCGCGATT									
SARS-CoV-2 Reference Genome NC_045512.2	(1193)	AA-TGAAATGCAACCAA-ATGTGCGCTTTCAACCTCAT--GAAGTGTGATCATGTGTGTGAACATTATGGCAGACGGCGATT									
Consensus	(2906)	A T G T C A C A A A G T G C C A A C T C T G A G T G T C A T G T A A A C C G C G C G C G C A T T									
		Section 37									
		(2989)	2989	3000	3010	3020	3030	3040	3050	3060	3071
K12 Zwischenstück 255.328 - 290.948	(2943)	TAGCCCCGACATAGCCCAACTGTTCGTCCATTTCGCCGACGACATGACGTCACCTGCCCAGGCTGTATGCGCGAGGTTACCGAC									
SARS-CoV-2 Reference Genome NC_045512.2	(1272)	TTGT-----TAAAGCAACT-TGCGAATTTTGTGGCACTGAGAAATTGACTAAAAGAGGTGCCACTACTTTGTGGTTACTTAC									
Consensus	(2989)	T G T A C C A C T T C G T T G C C G A A T A G G T C G G T T A C A C G G T T A C A C									
		Section 38									
		(3072)	3072	3080	3090	3100	3110	3120	3130	3140	3154
K12 Zwischenstück 255.328 - 290.948	(3026)	TGGGCCAGTCTTTTAAAGTGACGTAAATTCGTGTAGGCAACGCTCCATAATGCGGCTGTGTCCTCCATCAACGCCA									
SARS-CoV-2 Reference Genome NC_045512.2	(1347)	CCCAAAAAGCTGTGTTTAA-----AAATTTATGTCCAG--CATGTCAACA--ATTCAGAAGTAGGACCTGAG--CATAGTCT									
Consensus	(3072)	C T G T T T T A A A A T T T G T A G C A C A C A A T C G G C C G C A G C A G C									
		Section 39									
		(3155)	3155	3160	3170	3180	3190	3200	3210	3220	3237
K12 Zwischenstück 255.328 - 290.948	(3109)	TTC--ATGGCCATATCAATGATTCTCTGGTGGTACCGGGGTGAGAAAGCGGTGTAAAGTGAAGTGCAGTTGCCATGTTTACGG									
SARS-CoV-2 Reference Genome NC_045512.2	(1417)	TGCCGAATAACCATATGAATCTGGCTTGAAAACCAATTCCTCATAAGGGTGTGCG--ACTA--TTGCC--TTTGGAGG									
Consensus	(3155)	T C A C C A T A T G A T T T G A C C T G A G G T G G A C T T T G C C T T T G G									
		Section 40									
		(3238)	3238	3250	3260	3270	3280	3290	3300	3310	3320
K12 Zwischenstück 255.328 - 290.948	(3190)	CAGTGAGAGCAGAGATAGCGCT--GATGTCCGGCGGTGCTTTTGCCGT-ACGCAACACCCCGTCAGTAGCTGAACAGGAGG									
SARS-CoV-2 Reference Genome NC_045512.2	(1489)	CTGTGTGTTCTCTTATGTTGGTTGCCATAAAGAGTGTGCTATTGCGGTTCACGTGCTAGCGCTAACATAGTTGTAAACCAT-									
Consensus	(3238)	C G T G G C A T G T A T C G G C T T T G C T T T A C G C A C C T A G T A A A									
		Section 41									
		(3321)	3321	3330	3340	3350	3360	3370	3380	3390	3403
K12 Zwischenstück 255.328 - 290.948	(3269)	GACAGCTGATAGAAACAGAAGCCACTGGAGCACCTCAAAACACCATCATACACTAAATCAGTAAG--TTGGCAGCATCAACC									
SARS-CoV-2 Reference Genome NC_045512.2	(1571)	-ACAGGTGTTTGTGGAGAAGGTTCCGAAGGTCTTAATGACACCTCTTGAAATACTCCAAAAGAGAGAAAGTCAACATCAAT									
Consensus	(3321)	A C A G T G T G A G A A G C G A G C T A A A C C T C T A A A C C T C T A T A C A A A G G C A C A T C A									
		Section 42									
		(3404)	3404	3410	3420	3430	3440	3450	3460	3470	3486
K12 Zwischenstück 255.328 - 290.948	(3349)	--TGAAAGGTAAAGTGCAAAATAAATCGATTTCCTTTGATTGCTGCTATGCGTCAACGTTGAAAACCGGCACCGGAAGTGG									
SARS-CoV-2 Reference Genome NC_045512.2	(1652)	ATTGTTGGTGACTTTAACTTAATGAGAGATCGCAATTATTTTGGCATCTTTTCTGCTT----CCACAAAGTGGCTTTTGTG									
Consensus	(3404)	T G G G T A T A A A T A A T G A T C A T T T T G T T T C T C T T C C A A G T G T T T G T G									

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		Section 43									
		(3487)	3487	3500	3510	3520	3530	3540	3550	3569	
K12 Zwischenstück 255.328 - 290.948	(3430)	TGAAATCTG---GGGCTGGTGGATGGAGC-TGGAAAGCGCAG---GAATCCGTTTTACCT--ACAGTTACAGTTTTGGTCTG									
SARS-CoV-2 Reference Genome NC_045512.2	(1730)	GAAACTGTGAAAAGTTGGATTATAAAGCAATTCAAACAAATTGTTGAATCCGTGGTAATTTTAAAGTTACAAA--GGAAAA									
Consensus	(3487)	AA T TG GG TGG AT AGC T AA C A GAATCC GT TA T A AGTTAC A GG									
		Section 44									
		(3570)	3570	3580	3590	3600	3610	3620	3630	3640	3652
K12 Zwischenstück 255.328 - 290.948	(3503)	TTCGATAAAGCAGGCGACTGGGAAGTGTTC--CGGTAAAGACACTGAAG--TGGTTGAAACGACTGGAGCACACCCTGCGTG									
SARS-CoV-2 Reference Genome NC_045512.2	(1811)	---GCTAAAGAAAGGTGCTGGGAATATTGGTGAACAGAAATCAATACTGAGTCCCTCTTATGTCATTGTCATCAGAGGCTGCTCG									
Consensus	(3570)	G TAAAGAGG G CTGGAA A TG T C G AA A ACTGA T TT C TG A CA A CTGC G									
		Section 45									
		(3653)	3653	3660	3670	3680	3690	3700	3710	3720	3735
K12 Zwischenstück 255.328 - 290.948	(3582)	AGTTTCACGAGAAAGCTG---CGTGAAGTGTGACGACGCTGAA---TCTGAAGCTGG--AACCGGCGGATGATTTT-CGTGAC									
SARS-CoV-2 Reference Genome NC_045512.2	(1891)	TGTGTACGATCAATTTCTCTCCCGCACTCTTGAAGCTGCTAAATCTGTGCGTGTGTTTACAGAAAGGCCGCTATTAACAATAC									
Consensus	(3653)	GTT ACGA A T C G ACT TGA GCT AA TCTG TG AC G GG G T T C AC									
		Section 46									
		(3736)	3736	3750	3760	3770	3780	3790	3800	3818	
K12 Zwischenstück 255.328 - 290.948	(3656)	GAGCCGG----TGA-AGTTAAAGGCGGTGAGTGAAGATGTGCG-GATGCAACACATCCGGCAATATTCATTAAAACTGATACGT									
SARS-CoV-2 Reference Genome NC_045512.2	(1974)	TAGATGGAAATTTCACAGTATTCACTGAGACTCAATTGATGCTATGATGT-TCACATCTGATTGTCCTACTAACAACTCTAGTTGT									
Consensus	(3736)	AG GG T A AGT C G GA T A TGC GATG TCACATC G T T A AA A GT									
		Section 47									
		(3819)	3819	3830	3840	3850	3860	3870	3880	3890	3901
K12 Zwischenstück 255.328 - 290.948	(3733)	CATGCCAACCGCGACAATATCATCATTTATTAAATTTCAATTTGTTATCGCTATCCAG-----TTGGTTGATTTTATAATCAAC									
SARS-CoV-2 Reference Genome NC_045512.2	(2056)	AATGGCCTACATTACAGG-TGGTG-TTGTTCAG-TTGACTTCGCAGTGGCTAACTAACATCTTTGGCACTGTTTATGAAAAC									
Consensus	(3819)	ATG C C ACA T T TT TT A TT A TT G T GCTA C A TTGG TTTAT A AAC									
		Section 48									
		(3902)	3902	3910	3920	3930	3940	3950	3960	3970	3984
K12 Zwischenstück 255.328 - 290.948	(3811)	--AAACGCTGACATATTTTGTGTTGAAATATACGTAGCACCAGCTCGATATAAATTGACCAAGATCTTCATCACCGGATACCTTC									
SARS-CoV-2 Reference Genome NC_045512.2	(2136)	TCAAACCGCTCTGATTGGCTTGAAAGAGATTAGAGGAAGGTGTAGAGTTTCTTTAGAGACGGTTGGGAAATTGTATAATT-									
Consensus	(3902)	AAAC C C T TT TTGAA A TA G GT GA T TT A T A G TA TT									
		Section 49									
		(3985)	3985	3990	4000	4010	4020	4030	4040	4050	4067
K12 Zwischenstück 255.328 - 290.948	(3892)	AAATATCTTTCCTTTTCGATAAAGACATAACCCAGCGATGGAGCA--GACCAAAATCAAACTGGATTGAGCGACCGCTTCAAA									
SARS-CoV-2 Reference Genome NC_045512.2	(2218)	--TATCTCAAACCTGTGCTTGTGAATGTG----GGTGGACAAATTGTACCTGTGCAAAGGAAATTAGGAGAGTGTTCAGA									
Consensus	(3985)	TATCT CCT T T GA AT C G TGGAC A G C GT AA G ATT AG TTCA A									

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		Section 50									
		(4068)	4068	4080	4090	4100	4110	4120	4130	4140	4150
K12 Zwischenstück 255.328 - 290.948	(3973)	GT	TC	TG	TG	TCTTA	TTG	GCAA	AGCCG	CCAG	TTATT
SARS-CoV-2 Reference Genome NC_045512.2	(2295)	CAT	TCTT	TAA	GCTTG	TA	AA	TA	----	AA	TTT
Consensus	(4068)	T	T	T	T	TTG	AA	A	TT	TTGGC	T
		Section 51									
		(4151)	4151	4160	4170	4180	4190	4200	4210	4220	4233
K12 Zwischenstück 255.328 - 290.948	(4054)	ATTG	GCAT	CGT	ATTT	CAG	ACCT	GT	TGCC	CAT	GC
SARS-CoV-2 Reference Genome NC_045512.2	(2367)	AA	--	GCC	TT	GA	ATTT	AG	----	GT	GAAA
Consensus	(4151)	A	GC	T	G	ATTT	AG	GT	CAT	TT	T
		Section 52									
		(4234)	4234	4240	4250	4260	4270	4280	4290	4300	4316
K12 Zwischenstück 255.328 - 290.948	(4137)	GATC	T	GAG	TT	GTA	TA	GGCC	CC	ACTA	ATG
SARS-CoV-2 Reference Genome NC_045512.2	(2430)	AATC	CA	GAG	AAG	AA	ACT	GGCC	T	ACT	CATG
Consensus	(4234)	ATC	GAG	G	A	GGCC	ACT	ATG	C	A	GCC
		Section 53									
		(4317)	4317	4330	4340	4350	4360	4370	4380		4399
K12 Zwischenstück 255.328 - 290.948	(4219)	GTTTTG	CT	TTT	TAAC	CTC	CG	GTT	TC	GTT	TTTC
SARS-CoV-2 Reference Genome NC_045512.2	(2510)	ACAGAAG	T	TTA	CA	GAG	AA	GTT	TC	TT	GAAAA
Consensus	(4317)	T	TT	A	G	G	GTT	TC	T	C	TGAT
		Section 54									
		(4400)	4400	4410	4420	4430	4440	4450	4460	4470	4482
K12 Zwischenstück 255.328 - 290.948	(4301)	TCGGTGT	TCC	GAT	AC	GT	CG	CC	AG	ACC	GCTGG
SARS-CoV-2 Reference Genome NC_045512.2	(2592)	C	-----	TCC	AT	TG	GT	GT	AC	CC	A-----
Consensus	(4400)	TCC	AT	GT	G	A	ACC	GTTTG	T	TAA	G
		Section 55									
		(4483)	4483	4490	4500	4510	4520	4530	4540	4550	4565
K12 Zwischenstück 255.328 - 290.948	(4384)	CGG	GAA	CA	TAT	CG	GT	CG	AGG	CTT	CAC
SARS-CoV-2 Reference Genome NC_045512.2	(2651)	ACA	GAA	A	GTA	CT	GT	GC	--	CTT	GAC
Consensus	(4483)	GAA	A	C	GT	C	CTT	CAC	T	ATA	A
		Section 56									
		(4566)	4566	4580	4590	4600	4610	4620	4630		4648
K12 Zwischenstück 255.328 - 290.948	(4467)	TCAAC	CC	GG	CAAA	AG	CGA	GAC	GC	GT	TTTT
SARS-CoV-2 Reference Genome NC_045512.2	(2723)	-----	CC	AA	CAAA	GG	TAA	CTTT	GT	TGA	TGAC
Consensus	(4566)	CC	CAAA	G	A	G	T	T	C	TG	TA

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		Section 57																
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(4649)	4649		4660		4670		4680		4690		4700		4710		4720	4731	
	(4549)	ACCAT	AA	CC	AG	TC	AG	TT	TGA	TC	GC	CT	-----	TT	GAA	AC	CA	AAA
	(2801)	GATGA	AA	GG	AT	TG	ATA	AAG	TAC	TTA	AT	GAG	AA	GTG	CT	GC	CT	ATAC
	(4649)		AA		A	T	A		T	TTA	AT		GTG	T		GCCT		TTGAA
		Section 58																
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(4732)	4732		4740		4750		4760		4770		4780		4790		4800	4814	
	(4673)	CTTT	TAC	TGGC	GTT	TAT	CAC	TC	ATA	TAA	TGC	AT	GGC	TTTA	ACT	TTT	GC	
	(2883)	GTG	TTG	TGGC	AG	ATG	CTG	TC	ATA	AAA	-----	ACT	TTT	GC	AA	CC	AGT	
	(4732)		T	T		TGGC		C	TC	ATA	AA				ACT	TTT	GC	
		Section 59																
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(4815)	4815		4820		4830		4840		4850		4860		4870		4880	4897	
	(4706)	TC	TGC	AG	CC	TG	TAC	AG	AT	GC	CAG	ATG	CC	ACA	AT	G	CC	
	(2951)	GAT	TT	AG	A	TG	---	AG	TG	G	AGT	ATG	G	C	TAC	ATA	C	
	(4815)		T	AG		TG		AG		G		ATG		C		AT		
		Section 60																
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(4898)	4898		4910		4920		4930		4940		4950		4960		4970	4980	
	(4789)	TA	AT	TAA	C	G	C	G	GA	GA	GT	CCC	G	TT	GAA	AA	C	
	(3026)	TA	T	TG	TT	CT	TT	CT	AG	AT	TT	CT	AG	AT	TT	CT	AG	
	(4898)		T	A		T		C		C	A		T		C	A		
		Section 61																
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(4981)	4981		4990		5000		5010		5020		5030		5040		5050	5063	
	(4872)	G	AT	TAA	TA	ATA	TT	CT	TAA	ATG	TGG	TA	AT	TT	TAT	TAAA	T	
	(3104)	T	AT	G	AT	TGG	T	ACT	G	AA	ATG	AT	TA	CCA	AGG	TAAA	CT	
	(4981)		A	T		A		T		A		A		T		A		
		Section 62																
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(5064)	5064		5070		5080		5090		5100		5110		5120		5130	5146	
	(4955)	C	G	CA	AA	CA	AG	CC	AT	G	CT	TT	G	CT	GC	TA	AT	
	(3186)	A	G	CA	AA	GA	GA	-----	TT	G	GT	TA	G	AT	G	AT	GA	
	(5064)		G	CA		AA		A		G				TT	G	T		
		Section 63																
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC_045512.2 Consensus	(5147)	5147		5160		5170		5180		5190		5200		5210		5229		
	(5038)	C	T	AAA	AT	TG	AA	TGG	CA	G	AG	AA	T	CA	AG	AG		
	(3261)	CA	A	CT	A	CT	--	AT	TC	AA	CA	AT	T	GT	AG	GT		
	(5147)		C	A		A		T		TG	AG		CA		CC			

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		Section 64																																					
		(5230)	5230	5240	5250	5260	5270	5280	5290	5300	5312																												
K12 Zwischenstück 255.328 - 290.948	(5120)	GCGCC	GTCTGA	ACCG	GTGCCC	ATATCG	TGAACTT	GTTCG	CCAGTG	CGCG	CAGTTACA	TGCCCG	CGGGCATCGG	ATTGT	TATT																								
SARS-CoV-2 Reference Genome NC_045512.2	(3340)	GAATA	GTTTTA	---	GTG	GTTATTTAA	---	AACTT	ACTTGA	CAATG	TATACAT	TAAAA	TGCAGAC	-----	ATTGT	----																							
Consensus	(5230)	G	GT	T	A	GTG	AT	T	AACTT	T	G	CA	TG	CA	T	A	A	TGC	G	C	ATTGT																		
		Section 65																																					
		(5313)	5313	5320	5330	5340	5350	5360	5370	5380	5395																												
K12 Zwischenstück 255.328 - 290.948	(5207)	GTGAC	GTCTG	GGCG	GGATCG	CCCG	ACGTG	AGC	CTGG	GGTT	ACCC	GGAA	CTGC	CAG	CGACCA	TGCG	CCTCG	AAACA	AC	TG	CT																		
SARS-CoV-2 Reference Genome NC_045512.2	(3403)	-----	GGAA	GAA	GGTA	AAAAAG	GTAA	AC	CA	---	ACAGT	GGTT	---	GTTA	TGCA	GC	CAATG	TTAC	CCTT	AAACA	---	TGGA																	
Consensus	(5313)		G	G	GC	A	G	AC	AC	AGT	GGTT			G	A	TGC	C	A	T	CCT	AAACA	TG																	
		Section 66																																					
		(5396)	5396	5410	5420	5430	5440	5450	5460	5478																													
K12 Zwischenstück 255.328 - 290.948	(5285)	GGCGG	CGGT	AGG	GCAG	AGT	CGACT	GATT	CAACT	GTGGG	AAACA	GCTG	TTTT	TCGATTT	ATG	G	CAT	CAC	GT	C	GGGC	AAATG	C	TG	C														
SARS-CoV-2 Reference Genome NC_045512.2	(3470)	GGAGG	TGT	TGCAG	GAG	CC	TAA	AT	AGG	GT	ACT	---	---	---	ATG	C	CAT	G	CA	AGT	TG	A	---	ATC	TG	ATG													
Consensus	(5396)	GG	GG	G	T	G	AG	T	A	T	A	C	ACT		AAACA		ATG	CAT	CA	GT	G	A	TG	TG															
		Section 67																																					
		(5479)	5479	5490	5500	5510	5520	5530	5540	5550	5561																												
K12 Zwischenstück 255.328 - 290.948	(5368)	TGAC	CCGT	GCT	GAT	TA	TG	GAA	GACC	GTGA	ACG	CTTC	CT	GAA	CG	CCG	CG	AC	AC	CT	GC	G	AG	CA	ACA	AT	AT	CG	T										
SARS-CoV-2 Reference Genome NC_045512.2	(3532)	TTAC	ATA	---	GCT	AC	TA	ATG	---	GACC	A	---	---	CT	TAA	AG	TGG	GT	G	TTA	AG	CG	GAC	ACA	AT	CT	T	G	CT										
Consensus	(5479)	T	AC		GCT	TA	G	GACC					CT	AA	G	G	G	A		G	G	TT	CG	ACA	AT	T	G	T											
		Section 68																																					
		(5562)	5562	5570	5580	5590	5600	5610	5620	5630	5644																												
K12 Zwischenstück 255.328 - 290.948	(5451)	CCGGT	AA	TCA	TG	AGAA	CGATG	CT	GTG	CTAC	GGC	AGA	G	AG	TTAA	GGTC	GGC	G	ATA	AC	G	ATA	AC	CTT	TCTG	CG	CT	GG	CG	GAT									
SARS-CoV-2 Reference Genome NC_045512.2	(3599)	-----	AA	CA	TG	TCTTC	C	ATG	TG	TCG	GCC	---	AA	ATG	TTAA	CAAA	GGT	GA	AG	AC	AT	TCA	ACTT	-----	-----	-----	-----	-----	-----	-----									
Consensus	(5562)		AA	CA	TG		C	ATG	TG	TCG	C		A	A	TTAA	GG	GA	AC	T	A	CTT																		
		Section 69																																					
		(5645)	5645	5650	5660	5670	5680	5690	5700	5710	5727																												
K12 Zwischenstück 255.328 - 290.948	(5534)	TCTT	GC	GG	GTGC	CG	AT	AAA	CTG	TT	GCTG	GT	GAC	CGA	TCA	AAA	AGGT	TTG	T	ATAC	CG	CT	G	TG	AC	CC	GC	G	CA	GC	AG								
SARS-CoV-2 Reference Genome NC_045512.2	(3656)	-	CTT	AAG	GTGC	TT	AT	GAA	AAT	TT	TAAT	CAG	CA	CGA	AG	TTCT	AC	---	TTG	A	CC	ATT	T	AT	CA	G	CT	G	---	G	AT	TTT	TG	GT	G	CT	G		
Consensus	(5645)		CTT	G	GTGC	AT	AA	TT			C	G	CGA		A	TTG	A		T	A	C	GC	G	A	T					GC	G								
		Section 70																																					
		(5728)	5728	5740	5750	5760	5770	5780	5790	5800	5810																												
K12 Zwischenstück 255.328 - 290.948	(5617)	AA	CTG	AT	TAA	AG	AT	G	TTTA	CG	GCA	TTG	ATG	AC	GC	ACTG	CG	CGC	GATTG	CCGG	TG	AC	AG	CG	TTT	CAG	GC	CT	CG	---	AA	CTGG	CGG						
SARS-CoV-2 Reference Genome NC_045512.2	(3735)	ACC	CT	AT	ACA	T	---	T	CTTTA	AG	AGT	TTG	TG	T	AG	AT	CTG	TT	CGC	A	---	CAAA	TG	T	CT	AC	T	AG	CT	G	T	CT	T	G	AT	AAA	AT	C	TC
Consensus	(5728)	A	C	AT	A	T			T	TTTA	G	TTG	A		ACTG	CGC		C	TG	C	C	T	C	G	C	T	G	AA			C								

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		Section 71																																															
		(5811)	5811	5820	5830	5840	5850	5860	5870	5880	5893																																						
K12 Zwischenstück 255.328 - 290.948	(5699)	C	ATGA	AGTAC	CAAA	TTG	CAG	GC	CGCT	GACGT	GGCT	TG	CC	GT	CG	GGT	AT	CG	A	CACC	ATT	ATT	GCCG	CG	GGC	AG	CA	AG	CC	GGGCG																			
SARS-CoV-2 Reference Genome NC_045512.2	(3812)	T	ATGA	CAAA	CTTG	TTT	CA	GC	TTT	TG---	GAAAT	TG	AAG	AGT	G	AAA	AG	CA	AGTT	G	AAC	AAA	AGAT	CG	CTG	AG	-	ATT	CC	-----																			
Consensus	(5811)		ATGA	A	C	TT	CA	GC	T		G	TG	G	G	G		A	C	A		A	A		CG		AG	A		CC																				
		Section 72																																															
		(5894)	5894	5900	5910	5920	5930	5940	5950	5960	5976																																						
K12 Zwischenstück 255.328 - 290.948	(5787)	T	TATT	G	GT	GAT	GT	GAT	GGA	AG	G	CATT	T	CCGT	G	GT	TAC	G	CT	G	TT	CCAT	T	GCC	CAG	G	CG	ACT	CCG	TTG	AAA	ACC	GT	AAAC	G	CTG	G												
SARS-CoV-2 Reference Genome NC_045512.2	(3886)	-	TAAA	GAG	GAA	GT	T	A	---	AG	C	CATT	T	A	TAA	CT	GAA	AG	-	TAAA	CC	T	---	CAG	---	---	---	---	---	TTGAA	C	AGA	G	AAAC	AA	-	G												
Consensus	(5894)		TA	G	GA	GT	A			AG	C	ATT			C	G	A	G	T		CC	T		CAG					TTGAA	A	G	AAAC		G															
		Section 73																																															
		(5977)	5977	5990	6000	6010	6020	6030	6040	6059																																							
K12 Zwischenstück 255.328 - 290.948	(5865)	A	TTT	T	CG	G	T	G	C	G	C	C	G	C	G	C	G	G	G	T	G	AAAT	CA	CG	G	G	G	T	G	AA	GG	CA	AC	T	G	CG	CG	GC	AG	C	T	C	CT	G	T	T			
SARS-CoV-2 Reference Genome NC_045512.2	(3948)	A	TGA	TAA	GA	-----	-----	-----	-----	AAAT	CA	AAG	CT	TG	T	G	AA	GA	AGT	T	CA	AA	CA	AC	T	CT	G	GA	AA	CT	A	AG	T	T	C	CT	CA	-											
Consensus	(5977)		AT	T	G					AAATCA	G		TG	G	G	A	T	C		C	A	T	C	T	G	GA		A	T	C	CT																		
		Section 74																																															
		(6060)	6060	6070	6080	6090	6100	6110	6120	6130	6142																																						
K12 Zwischenstück 255.328 - 290.948	(5948)	G	CC	GAAA	GG	CA	TT	AAAA	A	G	CG	T	G	AC	T	G	CA	ATT	T	C	T	CG	GT	GG	T	GA	AG	TC	AT	CC	GC	ATT	-	TG	CA	AC	CT	CGA	AG	GC	G	AT	A	T	C				
SARS-CoV-2 Reference Genome NC_045512.2	(4014)	-	CAGAAA	AC--	TT	GT	T	A	CT	TT	TATA	T	G	AC	ATT	AAT	T	GG	CA	AT	C	T---	TCAT	CC	AG	ATT	C	TG	CA	C	T-----	CTT	GT	T	AG	T													
Consensus	(6060)		C	GAAA		TT		A		T	T	G		ATT		T	GC		T				TCATCC		ATT	TGC	AC					C	G	TA															
		Section 75																																															
		(6143)	6143	6150	6160	6170	6180	6190	6200	6210	6225																																						
K12 Zwischenstück 255.328 - 290.948	(6030)	G	CC	CAC	G	G	CG	TC	AG	T	CGT	T	AC	AA	CA	GC	GAT	GC	ATT	A	CG	CCG	TAT	T	G	CC	GG	AC	ACC	ACT	CG	CA	AGA	AA	T	GA	T	GC	AA	-	T	ACT	G	-					
SARS-CoV-2 Reference Genome NC_045512.2	(4082)	G	AC	ATT	G	AC	AT	CA	CT	TT	CT	T	T	AA	GA	AA	GAT	GC	T	CC	A	T	A	---	TAT	AG	T	G	GG	TG	AT	G	T	G	T	CA	AGA	GGG	T	G	T	T	AA	C	T	G	CT	G	T
Consensus	(6143)		G	C		G	C	TCA	T		T		AA	A		GATGC		A				TAT	G		GG		A		CAAGA		TG	T	AA	T	CTG														
		Section 76																																															
		(6226)	6226	6240	6250	6260	6270	6280	6290	6308																																							
K12 Zwischenstück 255.328 - 290.948	(6111)	G	G	A	TAT	G	AA	TAC	GG	CC	CG	G	TT	GC	CG	TT	CA	CG	T	GA	TGA	CA	TG	ATT	TA	C	---	CG	TTA	AG	G	AG	CAG	GC	TG	A	TG	CT	GG	A	CA	AA	T						
SARS-CoV-2 Reference Genome NC_045512.2	(4162)	G	GT	TAT	ACC	TAC	T	AAAA	AG--	G	CT	G	TT	GG	T	GG	C	ACT	TAC	TGA	A	ATG	C	TAG	C	G	AA	AG	CT	TT	G	AG	AA	AGT	GC	CA	AC	AG	ACA	ATT	A	T	AT						
Consensus	(6226)		GG	TAT		TAC		G		GC	G	T	C		T		TGA	ATG	T	C			C	TT	AG	A		GC	A					A	A	AT													
		Section 77																																															
		(6309)	6309	6320	6330	6340	6350	6360	6370	6380	6391																																						
K12 Zwischenstück 255.328 - 290.948	(6190)	G	GG	CAT	T	G	CG	CG	AAG	CA	AG	C	CT	C	G	T	A	TAA	AT	TAG	CG	CA	CT	C	T	CC	AG	CC	G	CG	AAAA	AA	A	T	CG	C	G	GTG	CT	GG	AAAA	A	A	T	CG	CC	G		
SARS-CoV-2 Reference Genome NC_045512.2	(4243)	A	AC	CA	T	T	AC	CG	GGT	CA	GG	---	GT	T	TAA	AT	GG	T	T	CA	-	CT	G	TAG	AG	G	AG	G	GC	AAA	G	ACA	---	GTG	CT	T	AAAA	G	T	G	T	AAAA							
Consensus	(6309)		CA	T		C	CG		CA	G			GT		TAAAT		CA	CT	T	AG		G	AAA	A	A			GTGCT		AAAA																			

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		Section 78																														
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(6392)	6392	6400	6410	6420	6430	6440	6450	6460	6474																						
	(6273)	ATGAAC	TGG	AAGCA	CAAAGCGAA	ATCATC	CTCAA	CGCTAA	CGCC	CAGGAT	GTTC	TGACG	C	CGCAG	C	CAA	TGGCC	TTAG	GCGA	A												
	(4317)	G	TGCCT	TTT	ACATT	CTACC	ATCT	ATATC	TCT	AA	TGAG	AA	G---	CA	GAA	TTCT	TGAA	C	TGTTT	CT--	TGGAA	TTT	GCGA	-								
	(6392)	TG	T	A	C	A	AT	ATC	AA	G	AA	CA	GA	TT	TG	C	C	TGG	TT	GCGA												
		Section 79																														
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(6475)	6475	6480	6490	6500	6510	6520	6530	6540	6557																						
	(6356)	GCGAT	GCTTG	ACCG	TCTG	CACTG	ACG	CGCG	ACGG	CTG	AAAG	GG	CA	TG	CC	GACGA	TGTAC	GT	CAGGT	TG	CAAC	CTCG	CCGA	A								
	(4394)	GAA	ATGCTTG	CA	CAT	TGCA	G	A	GAA	AC	ACG	CA	AA	TTAA	TG	CCT	GT	CTG	TG	TG	GAAAC	TAAA	-	GC	CATAGT	TT	CAAC	T-----	A			
	(6475)	G	ATGCTTG	C	T	G	A	AC	C	C	A	TG	G	C	TG	GA	T	A	G	CA	T	CAAC							A			
		Section 80																														
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(6558)	6558	6570	6580	6590	6600	6610	6620	6630	6640																						
	(6439)	TCCG	GT	GGGG	CAGGT	AAT	CG	AT	GG	C	GCG	TA	CTGG	ACA	GCG	G	CC	TG	C	GTC	TTGA	GCG	T	CGT	CGCG	TACC	GCT	G	GGG	TTAT	T	G
	(4470)	T	AC	G	CG	TA-----	AAT	ATA	AGG	-	G	TAT	TA	AAAT	ACA	AG	GG	TG	T	GG-	TTGA	TTA	T	GGT	-----	GCT	A	G	ATT	TTAC	T	T
	(6558)	T	C	G	G		AAT	A	GG	G		TA		ACA	G	TG	G	TTGA		T	GT					GCT	G		TTA	T		
		Section 81																														
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(6641)	6641	6650	6660	6670	6680	6690	6700	6710	6723																						
	(6522)	GCG	T	GATTT	ATG	AA	GCGCG	CCCG	AA	CGT	GAC	GGT	T	GATGT	CG	CTT	CG	CTG	TGC	CTG	AA	ACC	G	GT	AAT	GCG	GT	G	ATCC	TGC	GC	
	(4537)	T--	TACACC	AGT	AA	AACAA	CTGT	A	CGT	CAC	T	TAT	TA	ACAC	CA	CTT	AA	CGAT	T--	CT	AAAT	---	GAA	ACT	C	TT	GT	A	CAA	TGC	CA	
	(6641)	T		A	AA	C	A	CGT	AC	T	A	C	CTT	C	T	CT	AA	G	A	T	GT	A	TGC									
		Section 82																														
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(6724)	6724	6730	6740	6750	6760	6770	6780	6790	6806																						
	(6605)	GG	TGGC	AA	GA	AAC	GTG	T	CGC	ACT	AA	CGCT	CA	ACG	GT	GC	GGT	GAT	TC	GG	ACG	C	CTG	AAA	TCC	TGC	GGCT	TAC	C	G	GGGG	
	(4613)	CT	TGGC	T	AT	GT	AAC	ACAT	T	GC	TTA	AA	TTTG	GA	GAAG	CT	GCT	CGG	TAT	T	GAGAT	C	CTC	AAA	G--	TGC	CAGC	TAC	AGT	----		
	(6724)		TGGC	A	G	AAC	T	GC	AA			G	A	G	GC	G	T	G		C	CT	AAA	TGC				TAC	G				
		Section 83																														
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(6807)	6807	6820	6830	6840	6850	6860	6870	6889																							
	(6688)	TGCG	GT	GCAGG	CGAT	TGAT	AA	TCC	T	G-	AC	CGT	GCGC	TGGT	CA	GTGA	AA	TG	CT	G	CGT	TATGG	ATAA	AATAC	A	TCG	ACAT	GC	T	GAT	C	
	(4690)	TTCT	GT	TTCTT	CACC	TGAT	GC	TGT	TAC	AG	CGT	ATAA	TGGT	TATCTT	ACT	T	CT	T	CT	T	CT	TAA	AAC	ACCTG	AAGA	ACAT	TTT	TAT	T	G		
	(6807)	T	C	GT	C	TGAT	T	T	A	CGT		TGGT	A	A	T	CT	C	T	T	A	A	A	ACAT	T	T							
		Section 84																														
K12 Zwischenstück 255.328 - 290.948 SARS-CoV-2 Reference Genome NC 045512.2 Consensus	(6890)	6890	6900	6910	6920	6930	6940	6950	6960	6972																						
	(6770)	CCG	CGTGG	TGGC	--	GCTGGTT	TGC	ATAAA	CTG	TG	CCGTG	A	ACAG	T	C	GACAATC	CCGGT	GAT	CACA	GGT	-	GGTATAG	GCGT	AT	G							
	(4773)	AAA	C	CATC	T	CA	CTT	GCTGGTT	CCT	ATAAA	GAT	TG	GTCCT	A	TTT	-	TG	GACAATC	TA-----	CACA	AC	T	GGTATAG	A---	AT	T						
	(6890)	C	T	C	GCTGGTT		ATAAA	TG			A	T	GACAATC				CACA	T	GGTATAG			AT										

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		Section 85									
		(6973)	6973	6980	6990	7000	7010	7020	7030	7040	7055
K12 Zwischenstück 255.328 - 290.948	(6850)	C C A T A T T T A C G T T G A T G A A A G T G T A G A G A T C G C T G A A G C A T T A A A A G T G A T C G T C A A C G C G A A A A C T C A G C G T C C G A G C A C A T									
SARS-CoV-2 Reference Genome NC_045512.2	(4846)	T C T A A G A G A G G T G A T A A A A G T G T A T A T T A C A C T - - - - - A G T A A T C T A - - - - C C A C A T T C C A - - - - C C T A G A T G G T									
Consensus	(6973)	C T A G T G A T A A A G T G T A A C C T - - - - - A G T A T C T C A A C A C A C C A G T									
		Section 86									
		(7056)	7056	7070	7080	7090	7100	7110	7120	7138	
K12 Zwischenstück 255.328 - 290.948	(6933)	G T A A T A C G G T T G A A A G C T T G C T G G T G A A T A A A A A C A T C G C C G A T A G C T T C C T G C C C G C A T T A A G C A A A C A A A T G G C G G A A A G C									
SARS-CoV-2 Reference Genome NC_045512.2	(4910)	G A A - - - - G T T A T C A C C T T - - - G A C A A T C T T A A G A - C A C T T C T T T C T T - - T G A G A G A A G T G A G G A C T A T T A A G G T G T T T A C A									
Consensus	(7056)	G A G T T A C T T G A A T A A A C C T C T T T G G A T A G A A G G A A G G G A									
		Section 87									
		(7139)	7139	7150	7160	7170	7180	7190	7200	7210	7221
K12 Zwischenstück 255.328 - 290.948	(7016)	G G C G T G A C A T T A C A C G C A G A T G C A G C T G C A C T G C G C A G T T G C A G G C A G C C C T G C G A A G G T G G T T G C T G T T A A A G C C G A A G A									
SARS-CoV-2 Reference Genome NC_045512.2	(4982)	- - - - - A C A G T A G A C A - A C A T T A A C C T C C A C A C G C A - A G T T G T G A C A T G T C A A T G A C A T A T G G A C A A C A G T T T G T C C A A C T									
Consensus	(7139)	A C A T A A C A A T A C T C A C G C A G T T G G C A G C C A T G G T T G C A A									
		Section 88									
		(7222)	7222	7230	7240	7250	7260	7270	7280	7290	7304
K12 Zwischenstück 255.328 - 290.948	(7099)	G T A T G A C G A T G - A G T T T C T G T C A T T A G A T T T G A A C G T C A A A A T C G T C A G C G A T C T T G A C G A T G C C A T C G C C C A T A T T C G T G A A									
SARS-CoV-2 Reference Genome NC_045512.2	(5057)	- T A T T T G G A T G G A G C T G A T G T A C T A A A A T A A A A C T C A T A A T T C A T G A A G G T A A A A C A T T T T A T G T - - - - T T T A C C T A A T									
Consensus	(7222)	T A T G A T G A G T T G T A T A A T A A C T C A A A T C A A T A A T A T A T A T T T C T A									
		Section 89									
		(7305)	7305	7310	7320	7330	7340	7350	7360	7370	7387
K12 Zwischenstück 255.328 - 290.948	(7181)	C A C G G C A C A C A C A C T C C G A T G C G A T C C T G A C C G C G A T A T G C G C A A C - G C C A G C G T T T T T G T T A A C G A A G T G G A T T C G T C C G									
SARS-CoV-2 Reference Genome NC_045512.2	(5135)	G A T G A C A C T C T A C G T G T T G A G G C T T T T G A G T A C A C A C A - - - - C A A C T G A T C T A G T T T T C T - - - - - G G G T A G G T A C A									
Consensus	(7305)	A G C A C C A C G A G C T G C C A A C A A C A A C A A C G C G T T T T T G G T G T C									
		Section 90									
		(7388)	7388	7400	7410	7420	7430	7440	7450	7460	7470
K12 Zwischenstück 255.328 - 290.948	(7263)	C T G T T T A C G T T A A C G C - C T C T A C G C G T T T T A C C G A C G G C G G C C A G T T - - T G G T C T G G G T G C G - - G A A G T G G C G G T A A G C A C A C									
SARS-CoV-2 Reference Genome NC_045512.2	(5205)	- T G T C A G C A T T A A A T C A C A C T A A A A A G T G G A A A T A C - - C C A C A A G T T A A T G G T T T A A C T T C T A T T A A A T G G - - - - - G C A G A T									
Consensus	(7388)	T G T C T T A A C C C T A T A A C C C A G T T T G G T T T C A A T G G G C A A T G G G C A A									
		Section 91									
		(7471)	7471	7480	7490	7500	7510	7520	7530	7540	7553
K12 Zwischenstück 255.328 - 290.948	(7341)	A A A A A C T C C A C G C G C T G G C C C A A T G G G G C T G G A A G C A C T G A C C A C T T A C A A G T G G A T C G G C A T T G G T G A T T A C C A T T C G T									
SARS-CoV-2 Reference Genome NC_045512.2	(5279)	A A C A A C T G T T A T C T T G - - - - C C A C T G C A T - T G T T A C A C T - - C C A - - - A C A A T A G A G - - - - - T T G A A G T T A A T C C A - - C C T									
Consensus	(7471)	A A A A C T C G C C A T G T G A A C A C T C C A A C A A T G A T T G G T T A C C A C T									

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		Section 92																																													
		(7554)	7554	7560	7570	7580	7590	7600	7610	7620	7636																																				
K12 Zwischenstück 255.328 - 290.948	(7424)	GC	GTAA	TA	AA	CCGG	GGT	GAT	GCAA	AAG	TA	GCCATT	TGATT	CAC	AA	GGC	CAT	TGAC	GCAT	C	GCCC	GGT	AG	TTTT	AAC	CTT	GT																				
SARS-CoV-2 Reference Genome NC_045512.2	(5345)	GC	TC	---	TAC	AA	GAT	GCT	TAT	TAC	AG	AG	CA	-----	AG	GGC	TGG	TGA	GC	TG	C	-----	TA	AC	TTTT	-----	GT																				
Consensus	(7554)	GC			TA	AA	G	T	AT	A	AG	A			A	GGC	TGA	GC	C			T	A	TTTT		GT																					
		Section 93																																													
		(7637)	7637	7650	7660	7670	7680	7690	7700	7719																																					
K12 Zwischenstück 255.328 - 290.948	(7507)	C	CAC	CGTGA	TT	CA	GGT	CTG	GA	AA	CAT	GT	CT	CT	TC	AGG	GCC	GAT	TA	TAG	CT	CA	GT	TGG	TAG	AG	C	AG	CGC	ATT	CGT	AATG	CGA	AG	G												
SARS-CoV-2 Reference Genome NC_045512.2	(5399)	G	CAC	TTATC	TT	AG	CT	AG	CT	GT	AA	TA	AG	AC	AG	T	---	AGG	T	---	AG	GT	TAG	G	TGA	---	TG	TAG	AG	AA	C	---	---	AATG	---	AG	T										
Consensus	(7637)	CAC			TT		C	T	C		AA	A	G	C	T		AGG		GA		TAG	T	A	TG	TAG	AG	A	C				AATG		AG													
		Section 94																																													
		(7720)	7720	7730	7740	7750	7760	7770	7780	7790	7802																																				
K12 Zwischenstück 255.328 - 290.948	(7590)	T	CGT	TAG	GG	TTC	GAC	---	TC	TAT	TAT	CG	GCA	C	CATT	AAAA	TC	AAA	TTG	TT	ACGT	AAG	AT	CT	TT	AT	CT	TCC	---	CAC	CA	AAA	AA	TT	A												
SARS-CoV-2 Reference Genome NC_045512.2	(5465)	T	AC	T	T	G	TTC	AC	T	C	A	T	T	G	C	AAAA			TTG		ACGT	GGT	G	T	T	A	TT	T	CA	CA	A	A	A	A													
Consensus	(7720)	T		T	G	TTC	AC	T	C	A	T	T	G	C		AAAA			TTG		ACGT		T	T	A	TT	T		CA	CA	A	A	A	A													
		Section 95																																													
		(7803)	7803	7810	7820	7830	7840	7850	7860	7870	7885																																				
K12 Zwischenstück 255.328 - 290.948	(7671)	T	CT	T	A	T	G	T	A	A	C	A	G	CT	GGT	GTA	AG	T	A	A	AT	TC	TAT	CA	AC	G	A	AG	AT	CA	AT	CTT	A	TCT	AC	TG	AC	CA	AAA	AGG	CCT	GAT	AGG	GCT	TTC		
SARS-CoV-2 Reference Genome NC_045512.2	(5547)	C	CT	T	A	A	G	---	---	---	---	---	---	---	GGT	GTA	---	GA	AG	CT	GT	TAT	GT	AC	---	AT	GG	CA	CA	CTT	---	TCT	TA	TGA	CA	AA	TTT	AA	---	GA	AGG	TG	TTC				
Consensus	(7803)	C	T	A	G										GGT	GTA	G	A	T		TAT		AC	A	G		CA	CTT	TCT	TGA	CAA							GA	AGG		TTC						
		Section 96																																													
		(7886)	7886	7900	7910	7920	7930	7940	7950	7968																																					
K12 Zwischenstück 255.328 - 290.948	(7754)	G	CT	CA	CT	A	T	A	C	T	CT	TGG	G	TG	CA	GGT	T	T	A	G	T	T	G	---	TACA	CC	A	CTC	CTA	A	A	T	T	T	A	A	T	G	T	G	T	CA	AT	AA	G	CTC	
SARS-CoV-2 Reference Genome NC_045512.2	(5616)	---	---	---	AG	AT	AC	CT	T	GT	AG	CT	GT	GGT	AAA	CA	AG	CT	TACA	AAA	AT	TAT	CTA	G	TACA	AA	CA	G	G	AG	T	C	CT	T	T	GT	---	AT	G	AT	G	TCA					
Consensus	(7886)				A	A	A	C	T		C			GGT	A		G	TACA	A		CTA		A	G		T	C	T	T	GT		AT	G	AT	G	TCA											
		Section 97																																													
		(7969)	7969	7980	7990	8000	8010	8020	8030	8040	8051																																				
K12 Zwischenstück 255.328 - 290.948	(7836)	G	A	AC	AA	AT	T	A	G	CT	CA	T	T	AT	G	A	T	T	CA	CT	T	GG	T	T	AA	T	A	CT	T	CT	GG	T	TG	CAT	GAT	TG	T	T	GT	CC	GT	AAA	AG	AT	AA	G	CTC
SARS-CoV-2 Reference Genome NC_045512.2	(5690)	G	C	AC	ACC	T	---	GCTCA	AT	TAT	G	A	CT	---	TTAA	G	CA	T	GGT	AC	AT	T	TAC	TTG	---	---	---	TG	C	T	AGT	G	A	GT	AC	ACT	G	TAA	---	---	---	---	---	---	---	---	
Consensus	(7969)	G	AC	A		T		GCTCA		TATGA		C		TTAA		T		AC	T	T	TTG						TG	T	GT	GTA	A	G	TAA														
		Section 98																																													
		(8052)	8052	8060	8070	8080	8090	8100	8110	8120	8134																																				
K12 Zwischenstück 255.328 - 290.948	(7919)	C	GGG	T	AGT	AG	CAG	G	CG	CA	T	T	A	CGC	AA	T	AGG	TAA	ACA	AGG	G	AG	TT	C	AG	AA	TG	T	AA	AT	CG	GGA	AGG	TT	---	G	TAC	GC	AA	T	G						
SARS-CoV-2 Reference Genome NC_045512.2	(5756)	---	---	---	TA	CC	AG	TGT	GT	CA	CTA	TA	---	AA	CA	TA	TAA	CTT	CTAA	AG	AA	CTT	T	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Consensus	(8052)				TA	AG		G	CA	TA		AA	A	TAA					AG	AA	TT				G	A	TG	A	A	GG		TT			TAC	A	T										

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		Section 99																																							
		(8135)	8135	8140	8150	8160	8170	8180	8190	8200	8217																														
K12 Zwischenstück 255.328 - 290.948	(8000)	T	TCA	TCG	TAC	TAC	GT	TG---	TTACGG	CT	TTGCCGC	AAC	AAG	CC	AGTT	GCC	TG	CCGCG	CTCG	CAG	AAT	GTC	GCAG	C	CCGG	AGA															
SARS-CoV-2 Reference Genome NC_045512.2	(5833)	C	TCA	GAA	TAC	AA	AG	GT	CTTA	TTACGG	AT	TTTCT	ACA	AAG	AA	ACAG	T	TAC	ACAA	CAAC	CAT	AAA	AC	CAG	TTA	CTTAT	AAA														
Consensus	(8135)		TCA		TAC	A	G	T		TTACGG	T	T		A	AAG	A	G	T	C		C	CA	AA	C	G	C	A	A													
		Section 100																																							
		(8218)	8218	8230	8240	8250	8260	8270	8280	8290	8300																														
K12 Zwischenstück 255.328 - 290.948	(8080)	T	TAA	GGA	GAT	TGTT	CC	TGCC	AGCT	AAAT	CCCTTCC	TG	T	GAT	TA	CGA	ACC	AG	CT	CG	TATT	TTTC	TACCA	GAAA	ATT	CACGG	CAT	C													
SARS-CoV-2 Reference Genome NC_045512.2	(5915)	TT	GGA	TGG	TGTT	GT	TGT	ACAG	AAAT	-----	TG	ACC	TA	-----	AG	TG	GACAA	TTAT	TATA	AGAAA	GA	CA	ATT	CTTA																	
Consensus	(8218)		T	GGA		TGTT	T	A	AAAT			TG	C	TA		AG	T	G		TT	TA	AGAAA	CA	C	T																
		Section 101																																							
		(8301)	8301	8310	8320	8330	8340	8350	8360	8370	8383																														
K12 Zwischenstück 255.328 - 290.948	(8163)	GGCT	AGG	GT	GAT	ACC	GGC	AT	C	GAT	G	TGT	TC	TTAA	T	CAC	AG	CC	T	CAT	TG	CAG	AAT	GGC	G	TG	TCG	T	TATT	G	T	C	AG	ACCA	TAG	T					
SARS-CoV-2 Reference Genome NC_045512.2	(5983)	TTTC	ACA	G	A	G	CA	ACC	A	AT	GAT	CT	TG	T	AC	CA	AA	CA	ACC	ATA	TC	CA	A	CGCAA	G	CT	TCG	TA	ATT	T	AAG	TTTG	TA	T							
Consensus	(8301)		A	G	G	ACC		AT	GAT	T	T	C	AA	CA	A	C	T		T	CA	A	G	TCG	T	ATT	T	AG		TA	T											
		Section 102																																							
		(8384)	8384	8390	8400	8410	8420	8430	8440	8450	8466																														
K12 Zwischenstück 255.328 - 290.948	(8246)	G	CTG	T	TCC	AG	CAG	A	CG	TG	TCAG	T	A	CA	TTTG	CCAG	AC	AGCC	AC	G	GGT	G	AC	AG	GC	AGGG	CTT	CACCG	CCC	GCT	GAG	T	T	ATT	GCA						
SARS-CoV-2 Reference Genome NC_045512.2	(6060)	G	TGAT	TAATA	AT	CAAA	TT	TC	GAT	TGA	TTT	AAA	CCAG	TTA	---	ACT	GGT	TAT	AAG	AA	-----	CCT	GCT	---	TCA	AGAGA	A														
Consensus	(8384)		G		T	A	CA	A	TG		T	A	T	CCAG	A	AC	GGT	A	A	G	A		CC	GCT		T	A	A													
		Section 103																																							
		(8467)	8467	8480	8490	8500	8510	8520	8530	8549																															
K12 Zwischenstück 255.328 - 290.948	(8329)	G	G	T	AAA	G	T	T	CAT	G	TTT	G	CT	CGT	G	T	AGG	TAA	T	TAA	C	G	T	G	G	TAA	---	AT	GGCG	AT	G	T	A	C	G	T	AG	CCG	CAAC	T	G
SARS-CoV-2 Reference Genome NC_045512.2	(6127)	G	CTT	AAA	AG	TT	CAT	TTT	CG	CT	G	---	ACT	TAA	T	GGT	GAT	G	T	G	GG	T	GG	C	T	ATT	GAT	TATA	AA	ACAC	TACAC	AC	CC	T	TTT	TAA					
Consensus	(8467)		G	T	AA		TT	CAT	TTT	C	CT		A	TAA	T	G	TG	G		GG	TA		AT		A		TAC	A	CC	C											
		Section 104																																							
		(8550)	8550	8560	8570	8580	8590	8600	8610	8620	8632																														
K12 Zwischenstück 255.328 - 290.948	(8410)	C	AA	G	GG	T	G	TCGGC	TT	CGCA	GG	T	AAA	ATCG	TTGT	GGTA	CAG	GG	TAAC	GC	AG	TG	GGCAT	TGGT	GGGG	GGC	T	GAG	TT	C	ACC	GG	---								
SARS-CoV-2 Reference Genome NC_045512.2	(6205)	G	AA	AGG	AG	CTAAA	TT	GTTA	CA	T	AAA	CCTA	TTGT	TTGG	CAT	G	T	TAAC	---	ATG	CAAC	TAA	TAAA	G	C	C	G	T	AA	ACC	AA	ATAC									
Consensus	(8550)		AA	GG	G		TT	A	T	AA		TTGT		CA	G	TAAC	A	TG		T	T	G	C	G	T	ACC															
		Section 105																																							
		(8633)	8633	8640	8650	8660	8670	8680	8690	8700	8715																														
K12 Zwischenstück 255.328 - 290.948	(8488)	-	TGGT	CA	GC	AT	CGA	TT	CCA	T	CTGGAG	GAT	AAA	GTGC	GGGAA	TG	TTT	CATC	CA	GC	T	TCCGG	CA	TT	C	GAT	GT	C	ACT	GAA	C	T	GG	C							
SARS-CoV-2 Reference Genome NC_045512.2	(6286)	C	TGGT	---	G	T	AT	ACG	TT	GTC	T	TGGAG	CA	AAA	ACCA	G	T	---	TG	AAA	CATC	AA	T	---	C	G	TT	GAT	GT	---	ACT	GAA	G	T	---	C					
Consensus	(8633)		TGGT		G	AT		TT		T	TGGAG	A	AAA		G		TG		CATC	A	T		C	TT	GAT	GT		ACT	GAA	T											

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		Section 106									
		(8716)	8716	8730	8740	8750	8760	8770	8780	8798	
K12 Zwischenstück 255.328 - 290.948	(8570)	G	G	T	G	A	T	G	C	C	G
SARS-CoV-2 Reference Genome NC_045512.2	(6356)	G	A	G	A	C	G	C	G	A	T
Consensus	(8716)	G	G	A	G	C	G	C	G	A	T
		Section 107									
		(8799)	8799	8810	8820	8830	8840	8850	8860	8870	8881
K12 Zwischenstück 255.328 - 290.948	(8653)	G	C	T	G	C	A	G	G	C	C
SARS-CoV-2 Reference Genome NC_045512.2	(6431)	A	C	C	A	T	A	G	G	C	C
Consensus	(8799)	C	A	C	G	A	G	G	C	C	A
		Section 108									
		(8882)	8882	8890	8900	8910	8920	8930	8940	8950	8964
K12 Zwischenstück 255.328 - 290.948	(8734)	G	C	C	A	T	G	C	G	G	T
SARS-CoV-2 Reference Genome NC_045512.2	(6502)	A	G	C	A	A	T	A	A	T	A
Consensus	(8882)	C	A	T	G	T	T	A	C	A	A
		Section 109									
		(8965)	8965	8970	8980	8990	9000	9010	9020	9030	9047
K12 Zwischenstück 255.328 - 290.948	(8817)	A	C	G	T	A	C	C	G	T	G
SARS-CoV-2 Reference Genome NC_045512.2	(6570)	A	T	T	C	T	A	T	A	A	C
Consensus	(8965)	A	C	T	A	T	A	T	A	A	C
		Section 110									
		(9048)	9048	9060	9070	9080	9090	9100	9110	9120	9130
K12 Zwischenstück 255.328 - 290.948	(8900)	G	C	G	T	T	A	C	T	G	A
SARS-CoV-2 Reference Genome NC_045512.2	(6653)	G	T	T	A	A	T	A	T	A	T
Consensus	(9048)	G	T	T	A	T	A	T	A	T	A
		Section 111									
		(9131)	9131	9140	9150	9160	9170	9180	9190	9200	9213
K12 Zwischenstück 255.328 - 290.948	(8981)	A	G	A	T	G	G	T	C	A	G
SARS-CoV-2 Reference Genome NC_045512.2	(6731)	A	T	A	T	A	T	A	T	A	T
Consensus	(9131)	A	A	G	A	T	A	T	A	T	A
		Section 112									
		(9214)	9214	9220	9230	9240	9250	9260	9270	9280	9296
K12 Zwischenstück 255.328 - 290.948	(9064)	C	G	T	C	T	G	C	G	A	A
SARS-CoV-2 Reference Genome NC_045512.2	(6789)	--	T	A	T	G	T	A	C	A	A
Consensus	(9214)	T	T	G	C	T	A	T	A	T	A

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	(9297)	9297	9310	9320	9330	9340	9350	9360	Section 113	9379
K12 Zwischenstück 255.328 - 290.948	(9147)	GCACCTCGGTGCGGTTAAATC GTGCCGGTGAA GAGCGTTCATGGGCAATCAACTGATTCTGGTTGTCCAGATACAACACCGGG								
SARS-CoV-2 Reference Genome NC_045512.2	(6864)	AGA-----TACTGTTAAGA GTGTCGGTAAATTTTGTCT--AGAGGCGT-TCAATTTAATTAT--TTG-----AAAGTCACT								
Consensus	(9297)	A T C GTTAA GTG CGGT AA GT T A GGC TCA T ATT T TTG AA C C								
	(9380)	9380	9390	9400	9410	9420	9430	9440	Section 114	9462
K12 Zwischenstück 255.328 - 290.948	(9230)	AACTCTTC CCG-CTCAAGCGCGGCCATATGCAGT CGCAGCGATTACAGTACGCGCTGGGTAGAGGTGAAGGCTACGCCGGGCT								
SARS-CoV-2 Reference Genome NC_045512.2	(6929)	AAATTTCATAAACTGATAAATATTATATAATTGTTTTACTATTAAAGTGTTCGCTAGGTTTC---TTTAACTCTACTCAA--C								
Consensus	(9380)	AA T TTC CT A AT GT C ATT A GC T GGT T A CTAC C C								
	(9463)	9463	9470	9480	9490	9500	9510	9520	Section 115	9545
K12 Zwischenstück 255.328 - 290.948	(9312)	CATGCGAGGTGGCGGTCCAGAGCCCTGAGCGGCCCGTGAATGAGACGCCGGTCTCTGGCGCTCAT-CTCGCCGGGTAAAAGGA								
SARS-CoV-2 Reference Genome NC_045512.2	(7007)	GCTGCTTTTAGGTGTTTTAATGTC-----TAATTTAGGCA-----TGCCTCTTACTGTACTGGTTACAGAGA								
Consensus	(9463)	TGC GG G T A G C T A T AG C TG C TC T CT C GGT A A GA								
	(9546)	9546	9560	9570	9580	9590	9600	9610	Section 116	9628
K12 Zwischenstück 255.328 - 290.948	(9394)	AAGCTGTTTCATCTGTTGCTCTTCGTCAGTTCGATAAATACGCAGAAATGCGCTGAGCTCTGGATGTGTCATGTCATCTACTCC								
SARS-CoV-2 Reference Genome NC_045512.2	(7069)	AGGCTATTTGAAC----CTACTAATGTCACT--ATTGCACACT-CTGTACTTGTTCTAT--ACC TTGTAGTGTGTTGT---C								
Consensus	(9546)	A GCT TTT A CT CT CT GTCA T AT A C A TG TG CT T A TTG A G T C								
	(9629)	9629	9640	9650	9660	9670	9680	9690	Section 117	9711
K12 Zwischenstück 255.328 - 290.948	(9477)	GCAAGGCGGTAATAGTGTGCGGT CATCGCGTCAATTCCTGTA CGGCAGGCATGTGGCTATACGC AATCAGGCAGACAGCAATA								
SARS-CoV-2 Reference Genome NC_045512.2	(7140)	TTAGTGTGTTTAGATTCTTTTAGACAC-----TATCTTCTTTA-----GAAACTATACA-AATTACCATTTTATCTTTT								
Consensus	(9629)	AG G T A A T T G CA C T C TTCT TA G CTATAC AAT A CA C T								
	(9712)	9712	9720	9730	9740	9750	9760	9770	Section 118	9794
K12 Zwischenstück 255.328 - 290.948	(9560)	CCTGCTGCTTCTGCACTTTGGGCATCGTTACCGTTCAGGCGAGTTAAACAGACGCGCATGTCTCATC GTTGT CAGGC TC GGG								
SARS-CoV-2 Reference Genome NC_045512.2	(7208)	AAATGGGATTTA--ACTGCTTTTGGGT TAGTTGCAGAGTGGTTTTTGGCATATATTCTTTTCAC TAG GTTTT-----TC TAT								
Consensus	(9712)	G TT ACT TTT GGC T GTT C G G T A A A C T TC C GTT T TC								
	(9795)	9795	9800	9810	9820	9830	9840	9850	Section 119	9877
K12 Zwischenstück 255.328 - 290.948	(9643)	GGACATAAATGCGCGCATTGC TGAGGGTGTAGAACGACAGATACCA CCGCTGTAGCCCTCACAGAAAGCGGTCCA TCAGG								
SARS-CoV-2 Reference Genome NC_045512.2	(7283)	GTACTTGGATTGCGTGC AATCA-TGCAATTGTTTTT CAGCTATTTTGCA-----GTA-----CATTTTATTAGTAAATCTTGG								
Consensus	(9795)	G AC T AT GC GC AT TG TGT C C A T CA GTA CA A GT TC GG								

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		Section 120									
	(9878)	9878	9890	9900	9910	9920	9930	9940	9950	9960	
K12 Zwischenstück 255.328 - 290.948	(9726)	C	G	A	A	G	A	T	A	T	G
SARS-CoV-2 Reference Genome NC_045512.2	(7355)	C	T	---	T	A	T	G	T	G	T
Consensus	(9878)	C	T	A	T	G	T	G	T	G	T
		Section 121									
	(9961)	9961	9970	9980	9990	10000	10010	10020	10030	10043	
K12 Zwischenstück 255.328 - 290.948	(9806)	G	G	G	A	C	C	G	G	C	T
SARS-CoV-2 Reference Genome NC_045512.2	(7433)	T	T	T	T	A	T	T	A	T	T
Consensus	(9961)	G	G	A	C	C	G	G	C	T	T
		Section 122									
	(10044)	10044	10050	10060	10070	10080	10090	10100	10110	10126	
K12 Zwischenstück 255.328 - 290.948	(9889)	T	C	C	G	T	C	A	A	A	G
SARS-CoV-2 Reference Genome NC_045512.2	(7512)	A	T	A	G	A	C	A	A	G	A
Consensus	(10044)	T	C	C	G	T	C	A	A	A	G
		Section 123									
	(10127)	10127	10140	10150	10160	10170	10180	10190	10209		
K12 Zwischenstück 255.328 - 290.948	(9970)	T	T	C	G	C	A	T	A	G	C
SARS-CoV-2 Reference Genome NC_045512.2	(7595)	T	T	T	G	C	A	A	C	T	A
Consensus	(10127)	T	T	C	G	C	A	T	A	G	C
		Section 124									
	(10210)	10210	10220	10230	10240	10250	10260	10270	10280	10292	
K12 Zwischenstück 255.328 - 290.948	(10048)	G	C	T	C	A	A	G	T	T	C
SARS-CoV-2 Reference Genome NC_045512.2	(7668)	---	A	A	G	T	T	---	---	---	---
Consensus	(10210)	G	C	T	C	A	A	G	T	T	C
		Section 125									
	(10293)	10293	10300	10310	10320	10330	10340	10350	10360	10375	
K12 Zwischenstück 255.328 - 290.948	(10131)	A	G	T	G	T	A	T	G	C	T
SARS-CoV-2 Reference Genome NC_045512.2	(7733)	A	T	C	G	T	A	T	G	C	T
Consensus	(10293)	A	G	T	G	T	A	T	G	C	T
		Section 126									
	(10376)	10376	10390	10400	10410	10420	10430	10440	10458		
K12 Zwischenstück 255.328 - 290.948	(10212)	G	T	C	A	T	T	C	T	C	T
SARS-CoV-2 Reference Genome NC_045512.2	(7809)	G	A	C	A	T	T	C	T	C	T
Consensus	(10376)	G	T	C	A	T	T	C	T	C	T

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			Section 127									
	(10459)	10459	10470	10480	10490	10500	10510	10520	10530	10541		
K12 Zwischenstück 255.328 - 290.948	(10294)	C	AGT	CG	TTG	TC	CAG	TC	CG	AG	AGT	GGT
SARS-CoV-2 Reference Genome NC_045512.2	(7888)	-	AGT	TT	TTG	TC	AGT	TC	CG	AG	AGT	GGT
Consensus (10459)			AGT	TTG	TG	TC	A	GTG	A	GAA	TCT	C
			Section 128									
	(10542)	10542	10550	10560	10570	10580	10590	10600	10610	10624		
K12 Zwischenstück 255.328 - 290.948	(10377)	A	TTG	AC	G	TAG	AC	G	T	C	CA	AG
SARS-CoV-2 Reference Genome NC_045512.2	(7968)	C	TAT	AC	T	GTT	AC	T	AG	AT	CA	AG
Consensus (10542)			T	AC	AC	T	GA	C	G	C	T	A
			Section 129									
	(10625)	10625	10630	10640	10650	10660	10670	10680	10690	10707		
K12 Zwischenstück 255.328 - 290.948	(10460)	G	GCT	GG	ACG	GAA	TAA	TGT	ACT	GCT	GGT	GAT
SARS-CoV-2 Reference Genome NC_045512.2	(8041)	T	GCT	T	ACG	TT	AATA	CGT	TTT	CA	CA	AGT
Consensus (10625)			GCT	ACG	A	A	GT	T	T	T	A	C
			Section 130									
	(10708)	10708	10720	10730	10740	10750	10760	10770	10780	10790		
K12 Zwischenstück 255.328 - 290.948	(10542)	A	TC	G	CA	AGG	GTA	AG	AA	AGA	CT	TT
SARS-CoV-2 Reference Genome NC_045512.2	(8123)	C	TTG	C	-----	AAAGA	ATG	TG	CT	TAG	CAA	TG
Consensus (10708)			T	G		AAAGA	TG	T	CT	A	A	AA
			Section 131									
	(10791)	10791	10800	10810	10820	10830	10840	10850	10860	10873		
K12 Zwischenstück 255.328 - 290.948	(10625)	C	GC	T	GG	CTTC	GGTCA	CG	CT	GTA	TT	CCG
SARS-CoV-2 Reference Genome NC_045512.2	(8191)	T	GAT	TT	CAG	AT	GTAG	AA	CT	AA	AG	AT
Consensus (10791)			G	T		G	A	CT	A	T	TTG	TG
			Section 132									
	(10874)	10874	10880	10890	10900	10910	10920	10930	10940	10956		
K12 Zwischenstück 255.328 - 290.948	(10708)	C	TC	G	CG	AG	CA	AG	TA	CA	CC	GG
SARS-CoV-2 Reference Genome NC_045512.2	(8270)	AG	TT	G	TAA	TA	CT	AT	GT	GC	AT	AA
Consensus (10874)			T	G	A	A	TA	A	C	C	ATAA	-----
			Section 133									
	(10957)	10957	10970	10980	10990	11000	11010	11020	11039			
K12 Zwischenstück 255.328 - 290.948	(10790)	T	GAT	TGT	CAG	GGTTC	GAGGG	TATC	AGT	AGCT	GC	CC
SARS-CoV-2 Reference Genome NC_045512.2	(8342)	-	GAC	TGT	-----	AGT	GCGC	GT	CA	AT	AA	TG
Consensus (10957)			GA	TGT		AGT	G	C	AT	A	T	GC

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										Section 134															
(11040)	11040	11050	11060	11070	11080	11090	11100	11110	11122																
K12 Zwischenstück 255.328 - 290.948 (10873)	CGGGTC	CGTCA	CCCTCCTGGT	ATTCCA	GTTTGT	ATGTTT	TCGGCA	ATACACA	GCGCATTC	ATCATGTGGCTGGACGGTTTTTTTCCT															
SARS-CoV-2 Reference Genome NC 045512.2 (8403)	--GGAA	CGTTAA	AAG-----	ATTTC	---TGTC	TTGCTG	AAACA	ACTAC	GAAAACAA	ATACGTAGT-----GCTGCTAAAAA															
Consensus (11040)	GG	CGT	A	ATT	CA	TG	TT	TC	G	A	AC	G	A	AT	GT	G	G	T	T						
										Section 135															
(11123)	11123	11130	11140	11150	11160	11170	11180	11190	11205																
K12 Zwischenstück 255.328 - 290.948 (10956)	GCATAT	CCACGAG	GGTAGTA	GTAACT	TGCCAT	CCTCGCAG	GCATCGGG	CGACTG	GCGGGT	TACGTAAAC	CTGCAAG	GTGG	GAC	CG											
SARS-CoV-2 Reference Genome NC 045512.2 (8470)	GAATA	ACTT--	ACCTTT	TA--	AGTGA	CATGT--	GCACTA	CTAGACA	AGTTGTTAA	T--GTTGT	AACAA	CAAG	GATAG	GACT											
Consensus (11123)	G	ATA	C	A	T	TA	A	TG	CAT	GCA	C	A	G	C	A	T	G	T	GT	A	C	CAA	G	G	C
										Section 136															
(11206)	11206	11220	11230	11240	11250	11260	11270	11288																	
K12 Zwischenstück 255.328 - 290.948 (11039)	GATAA	GTAGT	CAAC	TGTGA	CCAT	TCCTT	CGTGA	CATCAT	TCCTG	GTGGC	TGACC	CATCACT	GAAAC	CGCGT	GGGG	TGAGG	TC								
SARS-CoV-2 Reference Genome NC 045512.2 (8545)	TAAGG	GTGGT	AAAT	TGTTA	--AT	AA	TTGGT	TGA	-AGCA	-----	GT	TAA	TTAA	AGTTA	CACT	-----	TGTGT	TC							
Consensus (11206)	A	GT	GT	AA	TGT	A	AT	TT	G	TGA	A	CA	GT	T	A	CACT	-----	TG	G	TC					
										Section 137															
(11289)	11289	11300	11310	11320	11330	11340	11350	11360	11371																
K12 Zwischenstück 255.328 - 290.948 (11122)	CTTAAAT	TTACT	GATGGCC	TTCA	GGT	CATC	ACTT	CTGT	-CAT	CGCATG	CGATG	AGAA	ACAG	AGTGG	TG----	GCAAC	CAGCGC								
SARS-CoV-2 Reference Genome NC 045512.2 (8606)	CTTTTT	TTGTT	GCTATTTT	CTA	TTTA	ATAAC	ACCTGT	T	CATGT	CATG	TCTAA	ACAT	ACTG	ACTTTT	CAAGT	GAAAT	CATAG	G							
Consensus (11289)	CTT	TT	CTG	T	T	A	T	AT	AC	CTGT	CAT	CATG	A	A	AC	GA	T	T	G	AA	CA	G			
										Section 138															
(11372)	11372	11380	11390	11400	11410	11420	11430	11440	11454																
K12 Zwischenstück 255.328 - 290.948 (11200)	CAG	CAGA	GGCAG	TGTT	TACGT	TCA	TAT	TTTT	T	CCTGAAAT	CAGA	CGA	AC	CAC	TTT	GCA	AGACAT	AAATGC	CC	ACGAA					
SARS-CoV-2 Reference Genome NC 045512.2 (8689)	ATA	CAAG	GCTAT	TGAT	GGTG	GTG	TCA	CTCG	TGACAT	TAGCATCTA	CAGAT--	ACTTG	TTT	TGCTAA	--CAA	ACATGC	TG	ATTTT							
Consensus (11372)		CA	G	A	TG	T	GT	TCA	T	T		CAGA	AC	TTT	GC	AA	CA	A	ATGC	A					
										Section 139															
(11455)	11455	11460	11470	11480	11490	11500	11510	11520	11537																
K12 Zwischenstück 255.328 - 290.948 (11283)	AATAC	CCACC	GGCAC	GCG	GA	CGAAC	GGTGT	TCAG	CGCG	ACACT	GGCAG	CACC	GGC	TGC	CCACCT	CCC	GT	CAGC	AGTGC	GCAA					
SARS-CoV-2 Reference Genome NC 045512.2 (8768)	GAC	AC--	ATG	TTTA	GCG	AG	CGT--	GGTGT	GTAG	TT--	AT	ACT	AATGA	CA	AG	CT	TGC	-CCA	TTG-----	AT	TGC	T	GCA	G	
Consensus (11455)	A	AC	A	G	GCC	CG	GGTGT	AG	A	ACT	CA	G	TGC	CCA					A	TGC	GCA				
										Section 140															
(11538)	11538	11550	11560	11570	11580	11590	11600	11610	11620																
K12 Zwischenstück 255.328 - 290.948 (11366)	CAG	TGG	CAAG	G	TCAG	G	CCCG	GAGAC	TGTCG	GAC	ACCC	CGGT	TTTG	TTCA	G	ATGAT	GACGAT	ACAAC	-AATGG	C	GATAAT				
SARS-CoV-2 Reference Genome NC 045512.2 (8835)	TCA	TAA	CAAG	GA-	AGTG	----	G	TTTT	TGTCG	TG	----	CTGG	TTTG	CCTG	G	ACGAT	ATTACGC	ACAAC	T	AATGG	T	GA	CTT	T	
Consensus (11538)		T	CAAG	G	AG	G	G		TGTCG	C		C	G	TTTG	G	A	GAT	ACAAC	AATGG	GA		T			

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		Section 141									
	(11621)	11621	11630	11640	11650	11660	11670	11680	11690	11703	
K12 Zwischenstück 255.328 - 290.948	(11448)	GGCA	ATA	TC	CGGA	CT	GATAC	T	CCAG	GT	C
SARS-CoV-2 Reference Genome NC_045512.2	(8909)	TTGC	ATT	TC	TTAC	CT	AGAGT	T	TTTA	GT	G
Consensus (11621)		AT	TC	CT	T	GT	CAG	T	A	CA	C
		Section 142									
	(11704)	11704	11710	11720	11730	11740	11750	11760	11770	11786	
K12 Zwischenstück 255.328 - 290.948	(11530)	AA	AC	TCAGC	GGCAAGC	TT	ACGCACACTCAG	C	GTTT	CCC	CTGC
SARS-CoV-2 Reference Genome NC_045512.2	(8992)	AA	CA	TCAGC	-----	TT	-----	G	GTTT	TGG	CTGC
Consensus (11704)		AA	TCAGC		TT			G	GTTT	CTGC	
		Section 143									
	(11787)	11787	11800	11810	11820	11830	11840	11850	11869		
K12 Zwischenstück 255.328 - 290.948	(11613)	GGT	CAT	GCG	G	GCG	T	CT	G	CC	TG
SARS-CoV-2 Reference Genome NC_045512.2	(9056)	C--	CAT	ATT	G	T	T	GA	ACC	AA	TGT
Consensus (11787)		CAT	G	T	T	CC	TGT	T	A	GTTCT	
		Section 144									
	(11870)	11870	11880	11890	11900	11910	11920	11930	11940	11952	
K12 Zwischenstück 255.328 - 290.948	(11691)	AA	GAG	GG	GG	TC	GGAC	A	GGGT	AT	GGAC
SARS-CoV-2 Reference Genome NC_045512.2	(9135)	TG	GAT	GG	C-	TC	TATTA	TTCA	AT	TTC	G
Consensus (11870)		GA	GG	TC	A	AT	C	A	A	CTA	TT
		Section 145									
	(11953)	11953	11960	11970	11980	11990	12000	12010	12020	12035	
K12 Zwischenstück 255.328 - 290.948	(11773)	CT	TCCCT	CG	GT	GAG	TGA	GG	AC	GG	T
SARS-CoV-2 Reference Genome NC_045512.2	(9207)	CT	GAGTA	CT	GT	AG	GC	GG	CAC	TT	G
Consensus (11953)		CT	C	GT	G	GG	C	T	G	A	G
		Section 146									
	(12036)	12036	12050	12060	12070	12080	12090	12100	12118		
K12 Zwischenstück 255.328 - 290.948	(11855)	GG	T	C	A	T	G	C	A	G	T
SARS-CoV-2 Reference Genome NC_045512.2	(9290)	GAT	TAT	T	CAG	AT	CT	T	A	C	AGG
Consensus (12036)		G	T	A	T	CAG	T	C	T	A	CAGG
		Section 147									
	(12119)	12119	12130	12140	12150	12160	12170	12180	12190	12201	
K12 Zwischenstück 255.328 - 290.948	(11936)	A	CGGC	AC	GGG	TAT	GTG	ACCGTCCT	C	CTT	T
SARS-CoV-2 Reference Genome NC_045512.2	(9368)	A	TTCA	AC	CTAT	TG	GTG	-----	G	TTT	G
Consensus (12119)		A	AC	T	GTG				C	TT	G

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															Section 155																																			
															(12783)	12783	12790	12800	12810	12820	12830	12840	12850	12865																										
K12 Zwischenstück 255.328 - 290.948 (12590)															GGCACTA	CGCGAA	CA	GCTCT	TCACGGG	TTAA	CGGACG	GT	CG	GAC	GGATTAAG	GGTT	GTGCTGCG	CCAA	AGCG	CGA	AGC	CAGACG																		
SARS-CoV-2 Reference Genome NC_045512.2 (9965)															-----	CTCGAA	AG	GCTCT	CAATGAC	TTCA	-----	GTAA	CTCA	GGT	TCTGAT	GT	TTCTTTA	CCAA	CCAC	CAC	AAAC	CTCTA																		
Consensus (12783)																C	CG	AA	GCTCT	A	G	TT	A		GT	C	GG	T	G	T	T	CT		CCAA		C	A	C												
															Section 156																																			
															(12866)	12866		12880	12890	12900	12910	12920	12930	12948																										
K12 Zwischenstück 255.328 - 290.948 (12673)															GGT	CATA	AGCAG	GACT	TCCT	CATA	ACGG	GAAA	CAAA	TAAA	AGG	GAT	CCCC	TC	--	GATC	GGC	GACAG	GGG	GC	AGGG	--	AAGTA													
SARS-CoV-2 Reference Genome NC_045512.2 (10035)															TCA	CC	TC	AGC	T	GTG	CAG	AGT	GGTTTT	AGAAA	--	AAT	GG	CAT	CCCC	TC	TG	TAAAG	TT	GAGG	GTT	GT	AT	GGTAC	AAGTA											
Consensus (12866)																C	T	AGC	G	T	CA	A	GG		A	AAA	AA	GG	AT	CCC	TC	G	A	G	GA	G	G	A	GG	AAGTA										
															Section 157																																			
															(12949)	12949	12960	12970	12980	12990	13000	13010	13020	13031																										
K12 Zwischenstück 255.328 - 290.948 (12751)															ACAG	GGA	TGG	GTT	AAATAC	T	CAGAA	GAAGAAAT	TCC	CA-	GAC	GGCG	CG	GGCC	ACTGAC	-ACC	ACC-	GTGGT	GC	GCAC	GG	C	TGA													
SARS-CoV-2 Reference Genome NC_045512.2 (10115)															AC	TTG	--	TGG	TACAA	C	TAC	ACTTAA	CGGTCTT	TGG	CTT	GAT	GAC	GTA	TTT	ACTGT	C	AAG	ACAT	GTGAT	CT	GCAC	CTC	TGA												
Consensus (12949)															AC	G		TGG	AA	TAC	C	AA		T	C	GA	G	CG	G		ACTG	C	A	AC	GTG	T	GCAC	C	TGA											
															Section 158																																			
															(13032)	13032	13040	13050	13060	13070	13080	13090	13100	13114																										
K12 Zwischenstück 255.328 - 290.948 (12831)															AT	GAC	GGC	CGC	ACC	-----	GGG	CGGGTA	TCA	GGG	GAAAG	GC-	ACT	GAT	GC	TAT	TC	GAG-	TAC	GGC	CCG	ACGGT	TTCA	C												
SARS-CoV-2 Reference Genome NC_045512.2 (10195)															A-	GAC	ATG	CTTA	ACC	CTAATTAT	GAA	GATTTAC	TCA	TTT	GTAAG	TCTAAT	CAT	AA	TTTC	TTG	TAC	AGG	CTG	G	TAATG	TTCA	A													
Consensus (13032)															A	GAC		C	ACC		G	G		TCA	G	AAG	C	A	T	AT	T	TC	G	TAC	G	C	G		TTCA											
															Section 159																																			
															(13115)	13115	13120	13130	13140	13150	13160	13170	13180	13197																										
K12 Zwischenstück 255.328 - 290.948 (12904)															CAA	AATC	GC	TAC	GAG	CGT	GT	TCCCG	GGA	CTA	CCGT	CT	G	CGA	AAG	G--	AAGGA	TG	GAGTT	GC	GACA	CCACC	G	GGCTGGT	G	CC	T									
SARS-CoV-2 Reference Genome NC_045512.2 (10277)															CTC	AGG-	GT	TATTG	GAC	AT	TCTATG	CAAA	ATT	GT	GT	GT	C	AAG	CTT	AAGG	TG	ATACA	GCC	AAT	CCTAAG	GACACCTAAG	GTAT													
Consensus (13115)															C	A	G	TA	G	C	T		G	A	A	GT	GT	C	AAG		AAGG	TG		GC	A	CC	G		G	T										
															Section 160																																			
															(13198)	13198	13210	13220	13230	13240	13250	13260	13270	13280																										
K12 Zwischenstück 255.328 - 290.948 (12985)															CAC	GTG	G	CAG	GCA	CTTAA	TCA	TCCGCT	CGGCCA	TCA	CCT	T	AAGC	CC----	CCATT	GT	AG	AC	GGAC	CG	GACACAGCA	CAC	ACCC	GG												
SARS-CoV-2 Reference Genome NC_045512.2 (10358)															AAG	T	GT	TTC	GCA	TTCA	CA	GGAC	AGACTTTT	TCA	GTG	T	AGC	TTGTTA	CAAT	GT	T	AC	CAT	CT	G	GTGTTTAC	CA	ATGT	G											
Consensus (13198)															A	T	G		GCA	T	AA	CA			TCA		T	AGC		C	AT	GT	AC		C	G		CA		G										
															Section 161																																			
															(13281)	13281	13290	13300	13310	13320	13330	13340	13350	13363																										
K12 Zwischenstück 255.328 - 290.948 (13064)															ATG	GAC	GGG	C--	TGGA	AC	AGC	T	CAT	G	CAG	CAGG	CA--	GATTT	T	G	GGC	TG	TAT	TCT--	GCTT	CTG	CGCC	GTGG	ACA	ACTGT	C									
SARS-CoV-2 Reference Genome NC_045512.2 (10441)															TAT	GAG	GCC	CAAT	TTC	AC	TAT	T	AGG	GTT	CA	TT	C	TTA	AT	GG	T	CAT	G	TG	TAG	T	GT	TG	TTTAA	CATA	GATT	ATG	ACTGT	G						
Consensus (13281)																GA	G	C	T	AC		T	A	G		CA	C		AT	T	C		TG	TA	T	T	G	TT	C	G	A	ACTGT								

Sars-CoV-2 & E.coli K12 Zwischenstückaprr.apr

										Section 162
(13364)	13364	13370	13380	13390	13400	13410	13420	13430	13446	
K12 Zwischenstück 255.328 - 290.948 (13141)	C C C ACCGC	T G G T A G G T C	G G C C T A T C C G A	C T G G C T G A T A A C	A A A C A G C A C C	T T A T G C C G G T A T A C C T C T C C	A A T C A C C T G A			
SARS-CoV-2 Reference Genome NC_045512.2 (10524)	T C T C T T T T	T G T A C A T G C A	C C A T A T G	G A	-----	A T T A C C A A C T G G A G T	T C A T G C T G G C A C A G	-----	A C T T A	--- G A
Consensus (13364)	C C	T G T A	T C C C T A T	G A		A T A C A A C G A	T A T G C G G A A		A T A	G A
										Section 163
(13447)	13447	13460	13470	13480	13490	13500	13510	13529		
K12 Zwischenstück 255.328 - 290.948 (13224)	T G A T A A A A T G	T T C A T C C A C G	G T C A G C G C C	C G G T C A T C G G C	C T T A A T C A G C	C A C A G T A C	--- C A G G T C G A G G C G	A G G - A A G C T		
SARS-CoV-2 Reference Genome NC_045512.2 (10588)	A G G T A A C T	--- T T T A T G G A C C	T T T G T T G A C A G G	C A A A C A G C A C	A A G C A G C	T G - - G T A C	G G A C A C A A C T A T T A C	A G T T A A T G T		
Consensus (13447)	G T A A	T T A T	A C C T G	C G C A	C A A C A G C	G T A C	C A C A C A	A G A A T		
										Section 164
(13530)	13530	13540	13550	13560	13570	13580	13590	13600	13612	
K12 Zwischenstück 255.328 - 290.948 (13303)	G T T C G C	-- G G T A C A G C G C A G C A T A C T	C G G T A T C G C G A G C	C C A C T T T C G	C C C A C G C C G G G C	A G A T C C A T C A G C	G T T A T A T A G C			
SARS-CoV-2 Reference Genome NC_045512.2 (10666)	T T T A G C	T T G G T T G T A C G T G C	- T G T T A T A A A T G G A G A C A G	G T G G T T T T C T C A A T C G	-----	A T T A C C A C A C T C T	T T A T A T G A C			
Consensus (13530)	T T G C	G G T C G C G C T T	A T G G A G	T T T C C	C G	A T C C A C	T A T G A C			
										Section 165
(13613)	13613	13620	13630	13640	13650	13660	13670	13680	13695	
K12 Zwischenstück 255.328 - 290.948 (13384)	G G T C G C C G A C T T G C	A G G C G A A A G C G C A G T	G G C T C A C G T G T A	- C A G G C C G C C A C A T C	G C T G A C C G G T G A T A T A T C	T C C G G C A A A				
SARS-CoV-2 Reference Genome NC_045512.2 (10742)	T T T A A C C T T G T G G C	T A T G - - A A G T A C A A T A T A G A	A C T C T A A C A C A A G A	C C A T G T T G A C A T A G A C C	T C T T C T G C T C A A					
Consensus (13613)	T C C T G C	A A G C A T	A C T T A C A	C C A T G	C G A T T T C G	A A				
										Section 166
(13696)	13696	13710	13720	13730	13740	13750	13760	13778		
K12 Zwischenstück 255.328 - 290.948 (13466)	C A G G G C A T T G C	A C - - - - A G A C T G C T C T T C C	- C A A C A C C G G T T T A C C	- C A T A A T G C C G A T C A T G G C T	C G T A G T T A G T T A A C T					
SARS-CoV-2 Reference Genome NC_045512.2 (10823)	A C T G G A A T T G C	C G T T T T A G A T A T G T G T G G T T	C A T T A A A A G A A T T A C T G	C A A A A T G G T - A T G A A T G G A	- C G T A C C A T A T T G G G T					
Consensus (13696)	G G A T T G C	A G A T T G T T C	C A A G	C A A A T G	A T A T G G	C G T A	T T T			
										Section 167
(13779)	13779	13790	13800	13810	13820	13830	13840	13850	13861	
K12 Zwischenstück 255.328 - 290.948 (13543)	G G T T A A T T T G C T G C	A G A A G C C G C T C T G A T A C C	C A T T G C G G C A G A T C A G	C A A G C G A T T G C T G A A A C G A C	T T C A A A C C T T C A G	--				
SARS-CoV-2 Reference Genome NC_045512.2 (10904)	A G T G C - T T T A T T	- - A G A A G A T G A A T T A C A C C	T T T T G A T G T T G T T A G A	C A A T G C T C A G G T G T T A C T	- - T T C A A A G T G C A G	T G				
Consensus (13779)	G T T T T	T A G A A G G	T A A C C T T G	G G T C A A	G T G A C	T T C A A T C A G				
										Section 168
(13862)	13862	13870	13880	13890	13900	13910	13920	13930	13944	
K12 Zwischenstück 255.328 - 290.948 (13624)	- A A T T A T T C A T C A	C - - - - - T A C T C C T C T G	A A A A A T A A T A A A A A	- - C G T A G A A T C G T G A G A	T T C C G C G T T A A T	T G C G T A T G				
SARS-CoV-2 Reference Genome NC_045512.2 (10982)	A A A G A A C A A T C A	A G G G T A C A C A C C A C T G	G T T G T A C T C A C A A	T T T T G A C T T C A C T T T A G T	T T T A G T C C A G A G	T A C T C A A T G				
Consensus (13862)	A A A A T C A	A C C C T G	T A T A A A G	A T A G T T G C	A T A T	A T G				

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		Section 169																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	(13945)	13945	13950	13960	13970	13980	13990	14000	14010	14027																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
K12 Zwischenstück 255.328 - 290.948	(13699)	T	TC	AGA	GT	GA	T	GA	T	A	T	A	T	A	T	C	T	G	A	A	G	A	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

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															Section 176																																																	
															(14526)	14526						14540						14550						14560						14570						14580						14590						14608						
K12 Zwischenstück 255.328 - 290.948 (14268)															GTACAACTGCTACATTCGCACGTGAATTCGAACGCATAGAGGATCCTCTGGTTCTTTAGCCGCTCAGCCAGTTGGGGA																																																	
SARS-CoV-2 Reference Genome NC_045512.2 (11598)															GTATAA-TGCTAGTTT-ATGTGTTCTTAGGGTATTTTGTGACTTGTTACTTTGGCCCTCTTTGTTTCTCAACCAGCTACTTTA																																																	
															Consensus (14526) GTA AA TGC T A TG TC G C A T A G T CT TGG TCTTT G CTCA CC T A																																																	
															Section 177																																																	
															(14609)	14609						14620						14630						14640						14650						14660						14670						14680						14691
K12 Zwischenstück 255.328 - 290.948 (14347)															GA---ACACAGTGGCGTAAGTTTCCTCAACAG---CAGCGGGATCTTCTCATAGGGTGATGGGCGGGGTTCAC-CGTAGACTA																																																	
SARS-CoV-2 Reference Genome NC_045512.2 (11679)															GACTGACTCT-TGGTGTTTATGATTACTTAGTTTCTACACAGGAGTTTAGATAATGAATTCAAGGGGACTACTCCCACCCAA																																																	
															Consensus (14609) GA AC C TGG GT T TT AG C A G TT ATA AT C GGG AC C A C A																																																	
															Section 178																																																	
															(14692)	14692						14700						14710						14720						14730						14740						14750						14760						14774
K12 Zwischenstück 255.328 - 290.948 (14423)															TATCGAGATCAAAATCATCTGTCAAAACCGTGCAATTTCTGTGCTGGCTGAAAGTCGCAGATCGATGCTTGGGTCTCTACAGT																																																	
SARS-CoV-2 Reference Genome NC_045512.2 (11761)															GAATAGCATAGATGCTCTCAAACCAAACTTAAATTTGTTGGGTGTGGTGCAAACCTTGTATCAAGTAGCCACTGTACAGT																																																	
															Consensus (14692) A AT A C TC TCAA A T TT GTG TGG G AA C ATC A G T T GT																																																	
															Section 179																																																	
															(14775)	14775						14780						14790						14800						14810						14820						14830						14840						14857
K12 Zwischenstück 255.328 - 290.948 (14506)															ATGAACCTTACAAGAGCTGGTAAAAGCCATTGATGGGCAAAACTCGGTGCAGTATGAAGGCGCAAAGGCCTGGAATCATCAGC																																																	
SARS-CoV-2 Reference Genome NC_045512.2 (11844)															CTAAATGTCT--AGATGTA--AAAGTGCACATCAGTAGTCTTACTCTCAAGTTTTCGCAACAACTCAGAG---TAGAATCATCATC																																																	
															Consensus (14775) T AA T C AGA GT AA GC T A G ACTC G T A C CA AG T GA TCATCA C																																																	
															Section 180																																																	
															(14858)	14858						14870						14880						14890						14900						14910						14920						14930						14940
K12 Zwischenstück 255.328 - 290.948 (14589)															CGTCACTAAATGCT---CAACCCCTGCTGTAAATTCG-TTAAATCCC---GCTGTATGTGCTCAAGCAGTATTTTCACTTCTTTC																																																	
SARS-CoV-2 Reference Genome NC_045512.2 (11920)															--TAAATGTGGGCTCAATGTGTCCAGTTACAGCAATGACATTCCTTTAGCTAAAGATACTACTGAGGCCTTTGAAAAAATGGT																																																	
															Consensus (14858) T A T TG CAA T C GT A C T A AT C C GCT A T CT G AG TTT A T																																																	
															Section 181																																																	
															(14941)	14941						14950						14960						14970						14980						14990						15000						15010						15023
K12 Zwischenstück 255.328 - 290.948 (14665)															GTCAGCGTAATTTTCTCGCTACATGCGCTGAATAAGGCTACATCAAGCAAGTTTTTCCAGTTTTCGCGATGGCATGCTGATCGC																																																	
SARS-CoV-2 Reference Genome NC_045512.2 (12001)															TTCAC--TACTTTTCT---GTTTTGTCTTCCATGCAGGGTGCTGTAGACA--TAAACAAGCTTTGTGAAGAAATGCTGACAC-																																																	
															Consensus (14941) TCA TA TTTCT GT TGC T A G GT C A CA T C AG TT GA G ATG CTG C																																																	
															Section 182																																																	
															(15024)	15024						15030						15040						15050						15060						15070						15080						15090						15106
K12 Zwischenstück 255.328 - 290.948 (14748)															ACTGGGTGACAGTTTCCAACCTCAGAGGGGCCAACGCAAAAGC--TCCGGTACGACCAGCCGCTTCAAGGCGCGTAACAGATT																																																	
SARS-CoV-2 Reference Genome NC_045512.2 (12075)															ACAGGGCAACCTTACAAGCT-ATAGCTCAGAGTTTGTTCCTCCATCATATGACAGCTTTTGTCTACTGCTCAAGA-AGCTT																																																	
															Consensus (15024) AC GGG AC T C A CT A AG C A A C TCC A CAGC T C A GC C A AG TT																																																	

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		Section 183									
	(15107)	15107	15120	15130	15140	15150	15160	15170	15180	15190	
K12 Zwischenstück 255.328 - 290.948 (14829)		TA GAG GT G - CT TT T T G C T A A	G A G C T T C A T T C	A T G A A T C C	T T T C A C T A G G G A	T G A A G T G	G T T T A C T G A A T T	T G G C C A C C T	G A A C		
SARS-CoV-2 Reference Genome NC_045512.2 (12156)		AT GAG C A G G C T G T T G C T A A	T G G - - T G A T T C	T G A A G T T G	T T C T T A A A A G T -	T G A A G A A	G T C T T - T G A A T G	T G G C T A A A T - - -	C		
Consensus (15107)		G A G G C T T T G C T A A	G T A T T C	A T T T T A	A G T G A A G	G T T	T G A A T T G G C	A T C			
		Section 184									
	(15190)	15190	15200	15210	15220	15230	15240	15250	15260	15270	
K12 Zwischenstück 255.328 - 290.948 (14911)		A G A G G T G A T A T G C T C A C C	T C A G A A C A C A C A G G	T G T C A T A A T G A A A	A A A A G A A A T T T	C A G C G C A G A G T T	T A A A C G C G A A T	C C G			
SARS-CoV-2 Reference Genome NC_045512.2 (12232)		T G A - - - A T T G - - - A C C	G T G A T G C A G C - C A T G	C A A C G T A A G T T G G	A A A A G A - - T G G C	T G A T C A - A G C T A T G A C C	A A A T G T A				
Consensus (15190)		G A A T T G A C C	G T G A T G C A C C A G	C T A A	A A A A G A	T C G C A A G T	A C C A A T				
		Section 185									
	(15273)	15273	15280	15290	15300	15310	15320	15330	15340	15350	
K12 Zwischenstück 255.328 - 290.948 (14994)		C T C A A C T G G T C G T T G A C C A G A A C T A C A	C C G T G G C A G A T G C A G C C A G C	G C T A T G A T G T C G G C	C T T T C C A C A A T G A C G C	G A T G G					
SARS-CoV-2 Reference Genome NC_045512.2 (12304)		- T A A A C A G G C - - T A G A T C T G A G G - A C A	A G A G G G C A A A G T T A C T A G T G C T A T G C A	G A C A A T G C T T T T C A C A T G C T T A	G A A A G						
Consensus (15273)		T A A C G G T G A C G A	A C A G G C A A G C A G	G C T A T G A	C T T T C A C A T G	G A					
		Section 186									
	(15356)	15356	15370	15380	15390	15400	15410	15420	15430	15440	
K12 Zwischenstück 255.328 - 290.948 (15077)		G T G A A A C A A T T A C G T G A T G A A C G G C A G G G - C A A A A C A C	C A A A A G C C T C C C C C A	T T A C C C C G G A A C A A T T	G A A A T C C G T G A G C						
SARS-CoV-2 Reference Genome NC_045512.2 (12383)		T T G G A T - A A T G A T G C A C T C A A C A A C A T T A T	C A A C A A T G C A A G A G A T G G T T G T G T T - C C C T T	G A A C A T A T - - - A C C T C T T A C A							
Consensus (15356)		T G A A A T A G T A A C A C A A A G	T T C C C G A A C A A T	A C T A							
		Section 187									
	(15439)	15439	15450	15460	15470	15480	15490	15500	15510	15520	
K12 Zwischenstück 255.328 - 290.948 (15159)		T C A G G A A A - A A G C T A C A A C G T A T T G A A A T G	A A A A T G A A A T A T T A A A A A A G G C T A C	T G T A G A T T C A A - - T T G G T C A A C G C A A C							
SARS-CoV-2 Reference Genome NC_045512.2 (12461)		A C A G C A G C C A A A C T A A T G G T T G T C A T A C C A G A C T A T A C A C A T A T	A A A A A T A C G T G T G A T G G T A C A A C A T T T A C T T A T G C A T C								
Consensus (15439)		C A G A A A C T A T T A	G A A T A A A A A C	T G G T G T C A A T T	A G C A						
		Section 188									
	(15522)	15522	15530	15540	15550	15560	15570	15580	15590	15600	
K12 Zwischenstück 255.328 - 290.948 (15239)		A G - - T T A T G T G A A A A C - A T G G G G T T G C G A G G T T T T T T G	- - A A T G A G A C G A A C - - A T T A C A G C A G A - - G G A A A A G C C T C T G								
SARS-CoV-2 Reference Genome NC_045512.2 (12544)		A G C A T T G T G G A A A T C A A C A G G T T G T A G A T G C A G A T A G T A A A T T G T T C A A C	T T A G T G A A A T T A G T A T G G A C A A T T C A C C T A								
Consensus (15522)		A G T T T G G A A A C A G G T T G	G A G T G A A	A A C A T A A A G G G A A A C	A T A A A G G G A A C C T						
		Section 189									
	(15605)	15605	15610	15620	15630	15640	15650	15660	15670	15680	
K12 Zwischenstück 255.328 - 290.948 (15313)		T T T T T G A C T A T G G A A G A A C G G A A C A G G C T T C A G T G A A A	T A G C G A A T A T C C T G G G T C A A A A C C C G G A A C G A T C T T C A C T A T G								
SARS-CoV-2 Reference Genome NC_045512.2 (12627)		A T T T A G C A T G G C C T C T A T T G T A A C A G C T T T A G G G C C A - - - - - A T T C T G C T G	T C A A A T T A C G A A T A T G A G C - - - - -								
Consensus (15605)		T T T G A	A G A A C A G T T A G G A	A T C T G T C A A A C G A A T A T C							

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Section 190																																													
(15688)	15688	15700	15710	15720	15730	15740	15750	15760	15770																																				
K12 Zwischenstück 255.328 - 290.948 (15396)	TTAAGGGAT	TACTG	GC	GGCA	TAAAC	CCC	ATG	AG	CGTAA	GGG	CTGTA	GCT	CAC	CTG	AC	ACTG	TG	AG	CGC	GAG	GAG	AT	AC	G																					
SARS-CoV-2 Reference Genome NC_045512.2 (12696)	TTAG----	TCTG	TT	GCAC	TACG	ACAG	ATG	T	CTTGT	GCTGC	CGGTA	CTA	CAC	---	AA	ACTG	CT	TG	CA	CT	GAT	GAC	A	TG																					
Consensus (15688)	TTA	T	CTG	G	TA	AC	ATG	C	T	GC	G	C	GTA	CAC	A	ACTG	TG	C	GA	GA	A	A	G																						
Section 191																																													
(15771)	15771	15780	15790	15800	15810	15820	15830	15840	15853																																				
K12 Zwischenstück 255.328 - 290.948 (15479)	AGCTG	GT	TT	GTC	AG	CAAA	TGA	GCA	TT	CTG	CG	CT	GA	ATC	G	CAG	TCC	TT	CGA	CGAT	C	T	AC	GT	GA	AG	T	TC																	
SARS-CoV-2 Reference Genome NC_045512.2 (12768)	CGTTAG	CTT	ACT	A	---	CAA	CA	CA	AA	---	GGG	AG	G	TAG	T	TG	CT	---	GCA	TG	TT	ATC	CGAT	T	AC	AG	GA	TTT	---																
Consensus (15771)	G	T	G	TT	A	CAA	A	A	A	G	G	G	TAG	T	TG	CT			GCA	T	TT	CGAT	T	AC	GA	T																			
Section 192																																													
(15854)	15854	15860	15870	15880	15890	15900	15910	15920	15936																																				
K12 Zwischenstück 255.328 - 290.948 (15562)	AGC	GT	AAT	GGG	GC	AGA	CG	TA	TT	CA	AA	CT	GT	TT	GA	TG	CT	AA	TA	AC	CG	AG	CCA	AC	AG	AA	TG	CG	AAA	AA	GG	CC	AAA	AC	CG	T	GC								
SARS-CoV-2 Reference Genome NC_045512.2 (12838)	---	G	AAT	GGG	CT	AGA	TT	C	CT	AA	GA	GT	GA	AC	TG	TG	TA	TA	C				AC	AG	AA	G	GAA	C	A	T															
Consensus (15854)		G	AAT	GGG		AGA	C	T	A	A	G	TG			TG	TA	TA	C				AC	AG	AA	G	GAA	C	A	T																
Section 193																																													
(15937)	15937	15950	15960	15970	15980	15990	16000	16019																																					
K12 Zwischenstück 255.328 - 290.948 (15645)	TTAC	TG	---	GAT	CA	AAA	TT	TAC	ATT	GC	GAA	AGC	TT	GT	T	CT	GGA	AA	AG	CT	GGA	GAT	GA	AA	TGG	TCT	CC	AG	AG	CA	AA	TAT	---	CAG											
SARS-CoV-2 Reference Genome NC_045512.2 (12912)	TTAC	AG	A	C	AC	ACC	T	AAA	GG	T	C	T	AA	AG	T	GAA	GTA	TT	TAT	ACT	TTT	A	TT	AAA	GGA	TT	AA	CA	ACC	T	AA	T	AG	AG	GT	AT	GG	T	ACT	TT					
Consensus (15937)	TTAC	G		A	C	AAA	T	C	A	G	GAA	TT	T		A		GGA	A	A	T	AG	AG	A	T	C																				
Section 194																																													
(16020)	16020	16030	16040	16050	16060	16070	16080	16090	16102																																				
K12 Zwischenstück 255.328 - 290.948 (15724)	GAT	GT	T	AA	AG	GC	GAA	CA	AA	CC	AC	GC	T	CA	AA	AA	AC	GCT	GC	AA	T	AT	C	AC	CT	G	AG	ACA	AA	TT	TAT	AAA	AC	G	CT	GTA	CT	TC	G	TAG	C				
SARS-CoV-2 Reference Genome NC_045512.2 (12995)	GG	T	AG	TT	AG	CT	G	---	CC	AC	AG	T	AC	GC	T	CA	AA	---	GCT	GC	T	AA	T	GCA	AC	AGA	AG	TGCC	TGCC	AA	TT	CA	AC	TG	TAT	TAT	CT	TT	---	C					
Consensus (16020)	G	T	GTT	AG	G	C	A	A	AC	GTC	A	AA	GCTG	AA	T	AC	AG						AG			T	A			CTGTA	T	TC	T	C											
Section 195																																													
(16103)	16103	16110	16120	16130	16140	16150	16160	16170	16185																																				
K12 Zwischenstück 255.328 - 290.948 (15807)	C	GTG	AAG	CGC	T	A	C	CA	CC	TG	AA	TAT	T	A	C	AG	C	AT	CT	G	G	AC	GG	T	CG	CA	TAG	C	T	C	G	CC	AT	TGG	CAG	G	CGT	CAT	AC	CC	GC	AA	AG	G	
SARS-CoV-2 Reference Genome NC_045512.2 (13073)	T	GTG	C	TTT	---	T	G	T	GT	A	GA	TG	CT	GC	T	A	AG	C	T	A	---	CA	A	GA	T	TAT	C	TAG	C	---	TAG	---	TGG	GG	G	CA	AA	C	CA	T	CA	CT	AA	TT	G
Consensus (16103)		GTG				T	C	A	TG		TA	AGC	T		C	A	G	T								TAGC		T	G		TGG	G	C	C	A	C									
Section 196																																													
(16186)	16186	16200	16210	16220	16230	16240	16250	16268																																					
K12 Zwischenstück 255.328 - 290.948 (15890)	C	GA	---	AAGA	G	GT	AC	GA	T	T	ACA	T	AG	TG	A	---	AC	GG	AA	CA	CCA	AT	T	AC	GA	AC	GT	T	CC	GAA	---	AT	AT	CG	AT	---	AA	C	AGA	CG	C	T	CT		
SARS-CoV-2 Reference Genome NC_045512.2 (13147)	T	G	TT	AAGA	T	GT	TG	TG	T	AC	ACA	C	AC	TG	GT	AC	TG	GT	CA	GGC	AA	T	AC	AG	TT	TACA	CC	G	AA	G	CCA	AT	AT	TG	GAT	C	AA	G	AAT	C	CT	T	TG		
Consensus (16186)		G		AAGA	GT		T	ACA	A	TG	AC	G	CA		A	T	AC										CC	GAA		ATAT	GAT	AA	A	C	T										

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										Section 197																
(16269)	16269	16280	16290	16300	16310	16320	16330	16340	16351																	
K12 Zwischenstück 255.328 - 290.948 (15966)	C	TGGG	GCAT	TGGG	GAG	GG	GCAT	TTTAG	GTCT	CAAG	GTACA	AAAA	AC	TCT	CAT	TAT	AGCC	AC--	ACT	TT	GTA	GAC	CG	AAAA	TCACGT	TAT
SARS-CoV-2 Reference Genome NC_045512.2 (13230)	G	TGGT	GCAT	CGT	GTT	GT	CTG	TACT	GC	GTT	GCC	ACAT	AGAT	CATC	CA	AAT	CCTA	AAGG	ATT	TT	TGT	GAC	TT	AAAA	GGTAAG	TAT
Consensus (16269)		TGG	GCAT	G	G	G	C	T	G	C	G	ACA	A	A	C	CA	AT	A	A	TT	GAC	AAAA			TAT	
										Section 198																
(16352)	16352	16360	16370	16380	16390	16400	16410	16420	16434																	
K12 Zwischenstück 255.328 - 290.948 (16047)	ACGATC	ATCGT	TAGA	ACTCA	GGG	GC	AAAG	ATT	CTGT	CTCAG	TAA	ATCAGG	GT	CTTA	CCG	ACAA	AT	TC	CTGAG	TT	TACCGT	CAGA				
SARS-CoV-2 Reference Genome NC_045512.2 (13313)	GTACAA	ATACC	TACA	AACTT	GTG	CT	AA	TGA	CC	CTGT	GGGTT	T	A	-----	C	ACTTA	AAA	ACA	CAG	TC	-----	TG	TACCGT	CTG	C	
Consensus (16352)		AT	TA	A	G	G	AA	GA	CTGT		T	A			C	CTTA	ACA	A	TC		T	TACCGT	C	G		
										Section 199																
(16435)	16435	16440	16450	16460	16470	16480	16490	16500	16517																	
K12 Zwischenstück 255.328 - 290.948 (16130)	AC	TCA	GAAAA	ATC	ACT	GAC	ATGG	GAC	GAG	GAATG	GAAC	TGGC	CAG	ACAT	CT	TAGA	AAT	TT	ACT	GTCAGC	ACCG	GC	GTT	AAA	GTTT	
SARS-CoV-2 Reference Genome NC_045512.2 (13385)	GG	TAT	GTGA	--AAG	GTT	ATGG	--CTG	TAG	TTGT	GAT	CAACT	CCG	CGA	AAC	CCATGC	TT	C	AGTCAGC	TGAT	GC	ACA	A	ATC	GTTT		
Consensus (16435)		T	G	A	A	G	ATGG	C	G	G	GA	C	C	G	A	C		TT	C	GTCAGC	GC	A	GTTT			
										Section 200																
(16518)	16518	16530	16540	16550	16560	16570	16580	16590	16600																	
K12 Zwischenstück 255.328 - 290.948 (16213)	ACTTCT	GC	GAT	CC	TCA	GAG	CT	TGG	CAGC	GG	GAAC	AA	TGAGAATA	CAA	AT	G	GG	CTA	AT	CGGCAGT	ACT	TT	T	CCTAAAAAG		
SARS-CoV-2 Reference Genome NC_045512.2 (13463)	TTAAAC	GG	GT	TTG	-GG	TGT	AAG	TG	-CAGC	CC	G	TCTT	ACA	CCGTGCGG	CA	CAG	CA	CTA	G	TAC	TAT	GT	CG	TAT	-----	
Consensus (16518)		G	G	T	C	G	GT	TG	CAGC	G	A	A		CA	A	G	CTA	T	C	G	GT	T	T			
										Section 201																
(16601)	16601	16610	16620	16630	16640	16650	16660	16670	16683																	
K12 Zwischenstück 255.328 - 290.948 (16296)	ACA	TGT	CTT	GCCCA	ATA	TAG	TC	AAC	ATGAA	CTAG	AT	CTGG	TTGCT	GCTCAG	CTAAA	C	AAC	AG	ACC	GAGAAA	GACA	CTG	AAG	TT		
SARS-CoV-2 Reference Genome NC_045512.2 (13535)	ACA	G	G	CTT	TTGAC	AT	C	TAG	A	ATG	ATA	AG	TAG	CT	GGTT	TTGCT	AAATTC	CTAAA	-AAC	TA	ATT	GTTGTC	GCTT	C	-AAG--	
Consensus (16601)		ACA	G	CTT		AT	TAC	A	AT	AA	TAG	T	TTGCT		CTAAA	AAC	A	G		G	C	AAG				
										Section 202																
(16684)	16684	16690	16700	16710	16720	16730	16740	16750	16766																	
K12 Zwischenstück 255.328 - 290.948 (16379)	C	AAAA	CAC	CGAA	AGA	GAT	AATT	GAA	AGGG	GGT	GT	TG	CATTG	ACAG	ATT	TGA	TCT	ACA	AC	CGCG	CTCT	TGAT	TGT	CAGACT	CCCTG	
SARS-CoV-2 Reference Genome NC_045512.2 (13613)	-	AAAA	GGA	CGAA	GAT	GAC	AATT	TAA	TTGAT	TCT	TACT	TTG	T--	AG	TTAA	GAG	ACA	CA	CTTT	CTCT	AACT	TAC	CA	ACAT	GAAGA	
Consensus (16684)		AAAA	CGAA	GA	AATT	AA	G	T	TT	C	TTG		A	T	AA	ACA	C	CTCT	T	CA	T					
										Section 203																
(16767)	16767	16780	16790	16800	16810	16820	16830	16849																		
K12 Zwischenstück 255.328 - 290.948 (16462)	AACAG	TT	CTCG	ATAAT	CGGGAA	ACT	CAG	GG	CGC	GT	TATC	CTGT	G	GC	ACT	C	TCTGCC	ATGTG	TTC	GGGG	TT	CA	TCGC	AG	AGC	
SARS-CoV-2 Reference Genome NC_045512.2 (13692)	AACA	A	TT	T---	ATAAT	TT---	ACT	TA	AGG	ATT	GT	CCAG	CTGT	T	GC	TAA	C	-----	ATGAC	TTCT	---	TT	AA	GTTT	AG	ATA
Consensus (16767)		AACA	TT		ATAAT		ACT	A	GG	GT		CTGT	GC	A	C			ATG	TTC	TT	A	AG	A			

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Figure 1: SARS-CoV-2 genome sequence alignment and consensus. The figure displays the SARS-CoV-2 genome sequence alignment and consensus across 10 sections (204 to 210). The alignment is shown for the K12 Zwischenstück 255.328 - 290.948 (16545) and the SARS-CoV-2 Reference Genome NC 045512.2 (13759). The consensus sequence is provided for each section. The alignment is color-coded: yellow for matches, green for mismatches, and red for gaps. The consensus sequence is shown in black text.

Section 204

K12 Zwischenstück 255.328 - 290.948 (16545)
SARS-CoV-2 Reference Genome NC 045512.2 (13759)
Consensus (16850)

Section 205

K12 Zwischenstück 255.328 - 290.948 (16628)
SARS-CoV-2 Reference Genome NC 045512.2 (13833)
Consensus (16933)

Section 206

K12 Zwischenstück 255.328 - 290.948 (16711)
SARS-CoV-2 Reference Genome NC 045512.2 (13907)
Consensus (17016)

Section 207

K12 Zwischenstück 255.328 - 290.948 (16791)
SARS-CoV-2 Reference Genome NC 045512.2 (13985)
Consensus (17099)

Section 208

K12 Zwischenstück 255.328 - 290.948 (16868)
SARS-CoV-2 Reference Genome NC 045512.2 (14066)
Consensus (17182)

Section 209

K12 Zwischenstück 255.328 - 290.948 (16946)
SARS-CoV-2 Reference Genome NC 045512.2 (14141)
Consensus (17265)

Section 210

K12 Zwischenstück 255.328 - 290.948 (17028)
SARS-CoV-2 Reference Genome NC 045512.2 (14220)
Consensus (17348)

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													Section 211														
	(17431)	17431	17440	17450	17460	17470	17480	17490	17500	17513																	
K12 Zwischenstück 255.328 - 290.948	(17111)	CCGTTAAT	TCCGCC	TCTGTGGG	TGAAAC	CGTCA	CCAC	AGGCC	TACGTG	ATCTGACA	GGCCGTG	CAGGAGGA	AACTG	GCAGTG	---												
SARS-CoV-2 Reference Genome NC 045512.2	(14293)	C-GTTA	T-TTAAA	TATG	GGATCAG	ACA	TACC	-CAAAT	TGTGT	TAAC	CTGTTT	GGATGA	-CAGATG	CA	TTCTGC												
Consensus	(17431)	C	GTTA	T	T	GG	T	A	A	CACC	C	T	GT	A	CTG	GG	G	CAG	G	A	GCA	TG					
													Section 212														
	(17514)	17514	17520	17530	17540	17550	17560	17570	17580	17596																	
K12 Zwischenstück 255.328 - 290.948	(17191)	ATACGT	-AAGCAC	TGCCGG	TCGAAG	GTGTT	TTGAC	ATGTAA	--TGC	GAAACAC	CGGGC	AGCAGCG	TCTAT	CAC	GCTTGC	GTT											
SARS-CoV-2 Reference Genome NC 045512.2	(14373)	AAACTT	TAA	TGTT	TATTC	CTACA	GTGTT	CCCAC	CTACA	AGTTT	TGGAC	CAC	TAGTG	-AGAAAA	TATTT	TGTTGAT	GGT	GTT									
Consensus	(17514)	A	AC	T	AA	T	TC	A	GTGTT	AC	T	A	T	G	A	CAC	G	G	AG	A	T	T	T	G	T	G	GTT
													Section 213														
	(17597)	17597	17610	17620	17630	17640	17650	17660	17679																		
K12 Zwischenstück 255.328 - 290.948	(17270)	GC-TGAC	TTC	TGC	CAACT	TGC	GGCAAG	CAAGGA	TAAAGAG	TGCG	ACGG	GCAG	--CCT	CCTCAG	TATGC	CTGAGT	TC	AGGCAGG									
SARS-CoV-2 Reference Genome NC 045512.2	(14455)	CCATTTG	TAG	TTT	CAACT	---	GGATAC	CA	---	TTCAGAG	AGC	TAGGT	GTTGT	ATAT	TCAG	GATG	TAACT	TACA	TAGCTC								
Consensus	(17597)	C	T	T	T	CAACT	GG	A	CA	T	AGAG	GC	A	G	G	G	C	T	TCAG	ATG	T	CA					
													Section 214														
	(17680)	17680	17690	17700	17710	17720	17730	17740	17750	17762																	
K12 Zwischenstück 255.328 - 290.948	(17350)	TAAAC	CGGGGA	AGGT	CAGCG	ACGGA	TGTTA	AGGG	GGCAT	GGCT	CCGA	TGAC	GC	GC	TG	GCTGG	CGGA	GCTTC	CG	GTA	GTA	TCG					
SARS-CoV-2 Reference Genome NC 045512.2	(14532)	TAGAC	TT---	AGTT	TT---	AAGGA	-TTA	CTTGT	GTATG	CTG	CTGA	CCCT	GC	TA	TG	CA---	CGCT	GCTTC	G	---	GTA	TC					
Consensus	(17680)	TA	AC		AG	T	A	GGA	TTA	G	G	ATG	C	GA		GC	TG	CG	GCTTC	G	GTA	TC					
													Section 215														
	(17763)	17763	17770	17780	17790	17800	17810	17820	17830	17845																	
K12 Zwischenstück 255.328 - 290.948	(17433)	CGATGG	GGAAG	CCAT	TACATG	GCGAAGG	GAAGC	AGTT	TGAATG	TGTTG	CGAC	GTGAA	TTAA	CTGAC	CTAACGAG	GTGAAG											
SARS-CoV-2 Reference Genome NC 045512.2	(14602)	TTACTAG	GATAA	AGCAC	TAGTG	CTTTTCAG	TAGC	---	TGCACT	TACTAA	CAATGT	TGCTTT	TTTCAA	ACT---	GTCAA												
Consensus	(17763)	A	G	AA	C	CA	TAC	TG		G	AGC	TG	A	T	T	C	A	GT	TT	C	AC		GT	AA			
													Section 216														
	(17846)	17846	17860	17870	17880	17890	17900	17910	17928																		
K12 Zwischenstück 255.328 - 290.948	(17516)	ACCTTT	TGATAA	TACGCG	AAA	TGCAAG	CAAG	CTTGC	ACATGG	GGCAG	CCACC	GATCCG	TCCT	TACGG	ATTCA	AA	CGG	CTG	CTG								
SARS-CoV-2 Reference Genome NC 045512.2	(14674)	CCGGT	AATTT	TAA	---	AAA	GAGTT	CTT	TATGA	CTT	TG	---	TGTGT	---	CTAAG	GGTT	---	TC	TTA	GGA	AGG	AA	GTT	CTG	TG		
Consensus	(17846)	CC	T	AT	T	A	AAA	C	C	CTT	C	TG	G	C	A	G	T	TC	TA	GGA	AA		CTG	TG			
													Section 217														
	(17929)	17929	17940	17950	17960	17970	17980	17990	18000	18011																	
K12 Zwischenstück 255.328 - 290.948	(17599)	GCTCG	ATAACAC	AA	CAGAA	TGG	-CTGG	CTGAAG	CGG	CGCG	ATCA	-CGCTT	-TCATC	AAAGGG	GGCCCC	ATA	CCC	CGG	GTT								
SARS-CoV-2 Reference Genome NC 045512.2	(14748)	ATT--	AAACAC	TTCT	TTCT	TGCT	CAGGA	TG	GTAAT	GC	TGCT	ATCA	GCGAT	TTATG	ACTATC	GTTAT	AAT	CTA	CCAA	CAAT							
Consensus	(17929)	T	A	AACAC	C		TG	C	GG	TG		GC		ATCA	CG	TT	T	A	A	G	A	C	CC	C	T		

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										Section 218
(18012)	18012	18020	18030	18040	18050	18060	18070	18080	18094	
K12 Zwischenstück 255.328 - 290.948 (17679)	GATG	GCCTGA	AAACAA	ACAATG	CTACAG	CCAGACTG	GC	TGTTGA	GCTGC	AAATCTCTCA
SARS-CoV-2 Reference Genome NC_045512.2 (14829)	GT--	GTGATA	TCAGACA	CTA	TTTGT	TAGTTGAA	GT	TGTTGA	T---	AAATCTCTCA
Consensus (18012)	G	G G	A C A	A T C T A	G		G	T G T T G A		A A T C T G T G T T A C T G C T A
										Section 219
(18095)	18095	18100	18110	18120	18130	18140	18150	18160	18177	
K12 Zwischenstück 255.328 - 290.948 (17762)	CC	AGCCCT	TGC	CCG	CCA	GACGG	GT	TTA	CATC	CCT
SARS-CoV-2 Reference Genome NC_045512.2 (14903)	TT	AA---	TGC	TAA	CCA	A---	GT	---	CATC	GTC
Consensus (18095)		A	T G C	C C A		G T		C A T C		A A A C G C A A A T --- C A G C T G G T T T C C A T --- T T A A T A A A T G
										Section 220
(18178)	18178	18190	18200	18210	18220	18230	18240	18250	18260	
K12 Zwischenstück 255.328 - 290.948 (17845)	GTATT	GT	TCA	GC	GG	GC	AT	GC	T	GATG
SARS-CoV-2 Reference Genome NC_045512.2 (14967)	GG---	GT	AAG	GC	TAG	ACT	T	TATG	AT--	TCAATG
Consensus (18178)	G	GT	GC	G C T	T	ATG	T	A	G	TATG GGA GAT C T TC CATAT
										Section 221
(18261)	18261	18270	18280	18290	18300	18310	18320	18330	18343	
K12 Zwischenstück 255.328 - 290.948 (17927)	TG	AG	CGC	AG	TGTC	CA	CC	ACG	CGAT	CCGCACGG
SARS-CoV-2 Reference Genome NC_045512.2 (15033)	AA	AA	CGTAA	TGTC	AT	CC	CTA	CTAT	AACTCAAA	TGAA
Consensus (18261)		A	C G A	T G T C		C C		C A T		T G A A T A G C G T G A A C C C G G G A C G C T G G T G A T T G
										Section 222
(18344)	18344	18350	18360	18370	18380	18390	18400	18410	18426	
K12 Zwischenstück 255.328 - 290.948 (18010)	AA	GG	GACC	TG	TCC	AGT	TACT	TC	GAG	-
SARS-CoV-2 Reference Genome NC_045512.2 (15116)	GT	GT	CTCTA	CT	TGT	AGT	-	ACT	TAT	GAC
Consensus (18344)		G C	T T	AGT	ACT	GAC	A	ACA	TCATC	A
										Section 223
(18427)	18427	18440	18450	18460	18470	18480	18490	18509		
K12 Zwischenstück 255.328 - 290.948 (18087)	GCAC	GT	TTTCAT	GA	CTCT	GC	TGTGGA	AA	ACCATCAA	GGG
SARS-CoV-2 Reference Genome NC_045512.2 (15198)	TGTA	GT	AAATTG	GA	ACAA	GC	AAATTCT	AT	TGGTGGTT	GGC
Consensus (18427)		GT		GA	GC		A		GGC	ACAT T A C GT T T G G G AG AA
										Section 224
(18510)	18510	18520	18530	18540	18550	18560	18570	18580	18592	
K12 Zwischenstück 255.328 - 290.948 (18170)	G	CC	AC	AG	GG	CGGT	TTA	TATC	GCCGC	TAT
SARS-CoV-2 Reference Genome NC_045512.2 (15278)	A	CC	TT	AT	GG	GTTG	G	TATC	CTAAA	TGT
Consensus (18510)		CC	A	GG		G		TATC		T T AT GA C CATGC AA G T AAT GC T A T C TG

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		Section 225									
	(18593)	18593	18600	18610	18620	18630	18640	18650	18660	18675	
K12 Zwischenstück 255.328 - 290.948 (18253)		G	CG	GG	AA	AGC	CAG	AA	AA	GAT	CG
SARS-CoV-2 Reference Genome NC_045512.2 (15357)		T	CG	CA	AA	---	CAT	AA	CG	T	GT
Consensus (18593)		CG	AA	CA	AA	T	G	TG	CT	G	
		Section 226									
	(18676)	18676	18690	18700	18710	18720	18730	18740	18758		
K12 Zwischenstück 255.328 - 290.948 (18335)		G	TGG	AA	CCC	G	CG	TGG	CGT	ACT	GCC
SARS-CoV-2 Reference Genome NC_045512.2 (15436)		A	TGG	TC	A	TGT	GT	GG	GG	TTC	ACT
Consensus (18676)		TGG	A	G	GG	GG	ACT	T	C	A	G
		Section 227									
	(18759)	18759	18770	18780	18790	18800	18810	18820	18830	18841	
K12 Zwischenstück 255.328 - 290.948 (18417)		A	T	C	AGG	G	AGG	TG	TG	CG	GG
SARS-CoV-2 Reference Genome NC_045512.2 (15517)		G	T	T	T	T	A	C	A	T	T
Consensus (18759)		T	A	TG	T	C	CG	G	CA	T	AA
		Section 228									
	(18842)	18842	18850	18860	18870	18880	18890	18900	18910	18924	
K12 Zwischenstück 255.328 - 290.948 (18499)		A	TG	A	CG	GC	T	T	A	T	C
SARS-CoV-2 Reference Genome NC_045512.2 (15596)		A	TG	T	C	CG	AA	T	---	TT	A
Consensus (18842)		ATG	C	GC	T	TT	C	CAC	AG	CT	T
		Section 229									
	(18925)	18925	18930	18940	18950	18960	18970	18980	18990	19007	
K12 Zwischenstück 255.328 - 290.948 (18582)		C	AG	G	AG	AA	AG	CC	AG	AA	AC
SARS-CoV-2 Reference Genome NC_045512.2 (15667)		A	A	T	G	AG	---	TT	TT	A	CG
Consensus (18925)		A	G	AG	TT	CG	CA	T	G	AC	TT
		Section 230									
	(19008)	19008	19020	19030	19040	19050	19060	19070	19080	19090	
K12 Zwischenstück 255.328 - 290.948 (18665)		AC	TCA	G	T	C	AT	TT	CA	TT	CT
SARS-CoV-2 Reference Genome NC_045512.2 (15735)		TT	TCA	---	AT	AG	CA	CT	TA	AG	CT
Consensus (19008)		TCA	AT	CA	TT	T	CAT	T	G	C	A
		Section 231									
	(19091)	19091	19100	19110	19120	19130	19140	19150	19160	19173	
K12 Zwischenstück 255.328 - 290.948 (18747)		C	G	CC	A	TT	T	A	GG	CG	T
SARS-CoV-2 Reference Genome NC_045512.2 (15813)		T	G	TT	---	TT	T	A	GG	CG	T
Consensus (19091)		G	TT	T	A	G	C	A	C	A	A

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		Section 232									
	(19174)	19174	19180	19190	19200	19210	19220	19230	19240	19256	
K12 Zwischenstück 255.328 - 290.948 (18828)		CA	GC	GT	GA	TA	CA	TC	GC	CA	GT
SARS-CoV-2 Reference Genome NC_045512.2 (15890)		CA	AT	CT	AG	TA	CA	GG	TA	CA	GT
Consensus (19174)		CA	G	A	T	A	A	G	G	T	G
		Section 233									
	(19257)	19257	19270	19280	19290	19300	19310	19320	19339		
K12 Zwischenstück 255.328 - 290.948 (18909)		G	AT	G	AT	G	AT	G	AT	G	AT
SARS-CoV-2 Reference Genome NC_045512.2 (15970)		G	TA	G	AT	G	AT	G	AT	G	AT
Consensus (19257)		G	G	A	T	G					
		Section 234									
	(19340)	19340	19350	19360	19370	19380	19390	19400	19410	19422	
K12 Zwischenstück 255.328 - 290.948 (18989)		G	T	G	AT	G	AT	G	AT	G	AT
SARS-CoV-2 Reference Genome NC_045512.2 (16038)		T	T	A	C	C	A	T	A	C	C
Consensus (19340)		T		C	T	A	A	T	C	T	A
		Section 235									
	(19423)	19423	19430	19440	19450	19460	19470	19480	19490	19505	
K12 Zwischenstück 255.328 - 290.948 (19072)		T	G	T	G	AT	G	AT	G	AT	G
SARS-CoV-2 Reference Genome NC_045512.2 (16121)		A	G	T	A	C	A	T	A	C	A
Consensus (19423)		G	T								
		Section 236									
	(19506)	19506	19520	19530	19540	19550	19560	19570	19588		
K12 Zwischenstück 255.328 - 290.948 (19151)		C	A	T	G	C	T	G	C	T	G
SARS-CoV-2 Reference Genome NC_045512.2 (16204)		G	A	G	C	T	A	G	C	T	A
Consensus (19506)		A	G	C	T						
		Section 237									
	(19589)	19589	19600	19610	19620	19630	19640	19650	19660	19671	
K12 Zwischenstück 255.328 - 290.948 (19234)		T	G	C	C	A	T	G	C	C	A
SARS-CoV-2 Reference Genome NC_045512.2 (16284)		T	G	C	C	A	T	G	C	C	A
Consensus (19589)		T	G	T	T	G	C	T	T		
		Section 238									
	(19672)	19672	19680	19690	19700	19710	19720	19730	19740	19754	
K12 Zwischenstück 255.328 - 290.948 (19317)		G	A	T	G	G	T	G	A	T	G
SARS-CoV-2 Reference Genome NC_045512.2 (16346)		-----	C	A	T	C	A	T	C	A	T
Consensus (19672)			C	A	T	C	A	T	C	A	T

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										Section 239
(19755)	19755	19760	19770	19780	19790	19800	19810	19820	19837	
K12 Zwischenstück 255.328 - 290.948 (19399)	C G G G	C C A G T T G A	T G C T G C T C C	A G C A G G T G G C G	G A A A T T C A T G	A T G G T G G T G C G G T	C C G G C A A G G C	G C T A T C C A	G G G A T A A C C G	
SARS-CoV-2 Reference Genome NC_045512.2 (16418)	C T --	C A A C T T A --	C T T --	A G A G G T A T G A	G C T A T T A T G	T A A A T C A C A T A A A	C C A C C A T T A	G T T T T C C A	T T G T --	G
Consensus (19755)	C	C A T T A	C T	A G A G G T	G A T T T G	T	C C C A	G T T C C A	G	G
										Section 240
(19838)	19838	19850	19860	19870	19880	19890	19900	19910	19920	
K12 Zwischenstück 255.328 - 290.948 (19487)	G G C A A A	C A G A C G C A T	G G A G G C G A	T T T C G T A C A	G A G C A T C T T C	C A T C G C G C C A T C	G C T C A G G T	T G T A C C A A T G C	T G C A T G C A G T	
SARS-CoV-2 Reference Genome NC_045512.2 (16488)	T G C T A A	T G G A C A A G T	T --	T T T G G T T A	T A T A A A A A	T A C A T --	G T G T T G G T	A G C G A T A A T G T	T A C T G A C T	T
Consensus (19838)	G C A A	G A C T		T T T G T	A A A T C A T		G G G T G	A A T G T C T G		T
										Section 241
(19921)	19921	19930	19940	19950	19960	19970	19980	19990	20003	
K12 Zwischenstück 255.328 - 290.948 (19565)	G A A T G C	G -- T A G C A	T G G T T T C C A	G C G G A T A A	G G T C G C G G	C C A T T A C	C A G C C T T G G	G G T A A A A C	G G C T C G A T G A	C T T C C A C C A T
SARS-CoV-2 Reference Genome NC_045512.2 (16554)	T A A T G C	A A T G C A C A	T G T G --	A C T G G A C A A	A T -- G C T G G	T G A T T A C	A T -- T T T A G	C T A A C A C T G T A C	T G A A A G A C	T C A A G
Consensus (19921)	A A T G C	T G C A	T T A G G A A A	G C G G	A T T A C		T T G T A A A C	T T G A	C C A	
										Section 242
(20004)	20004	20010	20020	20030	20040	20050	20060	20070	20086	
K12 Zwischenstück 255.328 - 290.948 (19647)	G T T T T	G C C A T G	G C A G A A T C	T G C T C C A T G C	--- G G G ---	A C A A G A A A A T	C T C T T T T C	T G G T C T G A C	G G C G C T T A C	T G C T G A A T
SARS-CoV-2 Reference Genome NC_045512.2 (16630)	C T T T T	T G C A --	G C A G A A A C	G C T C A A A G C	T A C T G A G	G A G A C A T T T A A A	C T G T C T T A	T G G T A T G C T A C T G	T A C G --	T G A A G
Consensus (20004)	T T T T	C A G C A G A A	C G C T C A G C		G G A C A	A A A C T T	T T T G G T	T C C T A C	T G A A	
										Section 243
(20087)	20087	20100	20110	20120	20130	20140	20150	20169		
K12 Zwischenstück 255.328 - 290.948 (19723)	T C A C T G T C	G G C G A A G G T A A	G T T G A T G A C	T C A T G A T G A A	C C C T G T --	-- T C T A T G G	C T C C A G A T G A C A A A C A T	G A T C T C A T A T C A		
SARS-CoV-2 Reference Genome NC_045512.2 (16706)	T G --	C T G T C T G A C A G A G	A A T T A C A T C T T	T C A T G G --	G A A G T T G G T A A A C	C T A G A C C A C C A C T	T A A C C G A A A T T A T G T C T T	T T A C T		
Consensus (20087)	T C T G T C	G A G A A T	A T T C A T G	G A A G T		C T A C C A	T A C A A T A T C T			
										Section 244
(20170)	20170	20180	20190	20200	20210	20220	20230	20240	20252	
K12 Zwischenstück 255.328 - 290.948 (19803)	G G G A C T	T G T T C G C	A C C T T C G G	A G G C G T T A T G A	G C T G --	G C G G C C C T T	T T T G T A T C T	G A T T A T A A T C C C C A C	C C G C T A T T A A	
SARS-CoV-2 Reference Genome NC_045512.2 (16786)	G G T T A T	C G T G T A A C	T A A A A A C A G	T A A A G T A C A A A	A T A G A G A G A C A C C	T T T G A A A A A G	G T G A C T A T A T G G T G A T G	C T G T T G T T A		
Consensus (20170)	G G T G T T	C T A A A A	C G G T A A A	A T A G A G A C		T T T G A G T A T A				
										Section 245
(20253)	20253	20260	20270	20280	20290	20300	20310	20320	20335	
K12 Zwischenstück 255.328 - 290.948 (19884)	G C G C C C G G	G C G G G C A T	C T G C G T C T G G	T G C A G G --	G T T G A C T T T T G	C A T T C T G T T A A	C A A A C G C G G T A T A A C	A A A C C T T C T T	T G G	
SARS-CoV-2 Reference Genome NC_045512.2 (16869)	C C G A G G T A C	A A C A A C T T	A C A A A T A A A A	T G T T G G T G A T	T A T T T T G --	T G C T G A C A T C A C A T A C	A G T A A T G C A --	T T A A G T G C		
Consensus (20253)	C G C C C G	C A T T	T T G G T A	T T T G		T C T G A C A C A C	G T A C A T T T			

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										Section 246
(20336)	20336	20350	20360	20370	20380	20390	20400	20418		
K12 Zwischenstück 255.328 - 290.948 (19966)	ATGTTT	AGATGT	CCATAC	GTTT	AGAA	GGTTAT	ATGCAA	ACAAC	ACAACA	AAATG
SARS-CoV-2 Reference Genome NC_045512.2 (16947)	ACCTAC	ACTAGT	GCCACA	AGAGCA	CTAT	GTTAGA	-----	ATTAC	TGGCTT	ATA
Consensus (20336)	A	T	A	GT	CCA	A	G	A	A	AC
										Section 247
(20419)	20419	20430	20440	20450	20460	20470	20480	20490	20501	
K12 Zwischenstück 255.328 - 290.948 (20048)	TCACCTG	ATAT	TGGT	TTTCCT	TGGGCG	CGTGAT	TG	GCA	CAGGAT	TATTCT
SARS-CoV-2 Reference Genome NC_045512.2 (17023)	TC	TAGCA	ATGT	TGG	AAATTAT	CAAAAG	GGT	TGGTAT	GCAAAAG	--TATTCT
Consensus (20419)	TC		AT	TGC		T	G	TG	T	GCA
										Section 248
(20502)	20502	20510	20520	20530	20540	20550	20560	20570	20584	
K12 Zwischenstück 255.328 - 290.948 (20130)	GCG	CGGGAAC	GCTGC	TGGCCTA	CTGAT	TGGT	GG	CTGG	TG	TC
SARS-CoV-2 Reference Genome NC_045512.2 (17099)	AGA	GTCATTTT	GCTAT	TGGCCTA	GCTCTC	TACT	ACCTTC	TG	TC	GCATAG
Consensus (20502)	G		GCT	TGGCCTA	CT	T	T	C	CT	TG
										Section 249
(20585)	20585	20590	20600	20610	20620	20630	20640	20650	20667	
K12 Zwischenstück 255.328 - 290.948 (20213)	GATGC	-CGGAG	ACC	GAG	CGT	TT	CACG	TTT	ATGCC	GCGC
SARS-CoV-2 Reference Genome NC_045512.2 (17179)	GATGC	AC	TATG	AG	GCA	TT	AAAT	AT	TGCC	TATAG
Consensus (20585)	GATGC	C	G	G	AG	TT	A	T	T	TGCC
										Section 250
(20668)	20668	20680	20690	20700	20710	20720	20730	20740	20750	
K12 Zwischenstück 255.328 - 290.948 (20293)	AC	TGGCT	GACCT	GGA	CCGTGGCG	G	TGGG	TT	CGAG	CTT
SARS-CoV-2 Reference Genome NC_045512.2 (17262)	TT	TTGAT	AAAT	TCAA	AGTGAATT	CAACAT	TT	AGA	ACAG	TATGT
Consensus (20668)		T	G	T	A	T	A		C	TT
										Section 251
(20751)	20751	20760	20770	20780	20790	20800	20810	20820	20833	
K12 Zwischenstück 255.328 - 290.948 (20376)	G	TAT	GGG	CT	GGT	GCG	TG	GT	TT	CTGC
SARS-CoV-2 Reference Genome NC_045512.2 (17342)	A	TAT	AGT	TG	CTT	TGA	TG	AAA	TT	TCAATG
Consensus (20751)		TAT	G	T	T	T	TG		TT	
										Section 252
(20834)	20834	20840	20850	20860	20870	20880	20890	20900	20916	
K12 Zwischenstück 255.328 - 290.948 (20457)	TTCTG	GTTC	TCGC	TGG	TCA	AAG	TG	TCA	CTATC	ATCG
SARS-CoV-2 Reference Genome NC_045512.2 (17422)	TATGT	GTAC	AT--	TGG	CGA	CCC	TG	TCA	-----	ATTA
Consensus (20834)	T		GT	C	TGG	A	TG	TCA		AT

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		Section 253																					
		(20917)	20917	20930	20940	20950	20960	20970	20980	20999													
K12 Zwischenstück 255.328 - 290.948	(20540)	G	CAGGATGGC	TCG--C	CCGCGCCGG	GGCTGA	GTAAATATC	ACGGCAGAA	AGGCTG	GTTCC-C	GCACGG	TGGC	TTACCGAT	TTT	TGA								
SARS-CoV-2 Reference Genome NC 045512.2	(17491)	C	CAGAAATATT	TCAAATT	CAGTGTGTAG	GACTATG	AAACTATAG	GTCCAGACAT	GTTCC	TCGAACT	TGTC	CGGCGTTG	TCC	TG	C								
Consensus (20917)			CAG AT	TC	C G G	G CT A	AA A A	G	AG C	GTTCC	CG A	TG C		T	TG								
		Section 254																					
		(21000)	21000	21010	21020	21030	21040	21050	21060	21070	21082												
K12 Zwischenstück 255.328 - 290.948	(20620)	TG	ACTATGGTGG	CAGTGA	AACTTT	GCTTTT	TTCGGGT	ACC	GAGCTT	TATCG	GCAATT	TGCC	GC	CGGTG	AAAC	GGA	AAAC	CCGC	GCAA				
SARS-CoV-2 Reference Genome NC 045512.2	(17574)	TG	AAATGTTG	ACATG	TGAGT	TGCTTT	GGT	TATGA	TAAT	AA	GC	TTAAA	GC	ACA	TAA	GAC	AAAT	CAGCT	CAAT				
Consensus (21000)			TGA	TG TG CA TG	T	GCTTT	GG T	GA	T AT	GC	TT	GC	T	AA	G	AAA	C	GC	CAA				
		Section 255																					
		(21083)	21083	21090	21100	21110	21120	21130	21140	21150	21165												
K12 Zwischenstück 255.328 - 290.948	(20703)	G	--TTATCCC	GGTAG	CGATTTC	GTACTAC	CAATCGC	GC	GACTGA	TTATTTTC	--TTT	TATCGGC	AC	CGTGT	TTTGT	GCT	GGC	AG	CG				
SARS-CoV-2 Reference Genome NC 045512.2	(17648)	G	CTTTAA	AAATGTT	TTTAT	AAGGT	GTGTAT	CA	CGCAT	GATGTT	TCATCT	GCAA	TTA	CA	GGC	CA	CAAA	TAG	CG				
Consensus (21083)			G	TTA	G T	A	GT	TA CA	CGC	GA	T AT T C	TT A	GGC	C	T	G G	G	AG	G				
		Section 256																					
		(21166)	21166	21180	21190	21200	21210	21220	21230	21248													
K12 Zwischenstück 255.328 - 290.948	(20782)	TG	ATCC	GATGCA	G	AGGTGG	CGTGGG	GAGAGAAA	AGC	CCGT	TGT	TGCT	TGGTAT	TTGAG	AAAGTAG	G	GATCC	GTA	CGCC	GCTGAT			
SARS-CoV-2 Reference Genome NC 045512.2	(17730)	--	ATCC	TTACAC	GTA	ACCCT	CGTGGG	GAGAGAAA	AGC	TGT	TTTAT	TTTACC	TTATA	ATT	CACA	G	ATGCT	GTA	GCCT	CAAG			
Consensus (21166)			AT CC		G A		GC	TGGAGAAA	AGC	GT T T			TT	A		G	AT C	GTA	GCC	C A			
		Section 257																					
		(21249)	21249	21260	21270	21280	21290	21300	21310	21320	21331												
K12 Zwischenstück 255.328 - 290.948	(20865)	AT	TTT	TAACT	TCGTG	ATC	CTG	ACGG	CTA	TTCT	TTCTG	CA	GC	GAA	CTC	CGGGT	ATATG	CT	CCGGG	CGC			
SARS-CoV-2 Reference Genome NC 045512.2	(17809)	AT	TTT	TGGAC	TACCA	ACT	CAA	ACTG	---	TTGAT	TTTCA	CA	CAG	GG	CTC	AGA	---	ATATG	ACT	---			
Consensus (21249)			ATTTT		T	A	C	AC G		TT	TTC	CA	G	CTC	G		ATATG	CT		ATG			
		Section 258																					
		(21332)	21332	21340	21350	21360	21370	21380	21390	21400	21414												
K12 Zwischenstück 255.328 - 290.948	(20948)	G	TCGAATG	AACGT	TACGCT	ACCG	GC	TGTT	TTG	CGCGAGT	AAC	GAA	AAAC	CGGCG	TG	CACT	GAC	GGCG	CGT	GCTAG	TATGC		
SARS-CoV-2 Reference Genome NC 045512.2	(17872)	T	TC	ACTCA	AAC	CACT	GAA	AC	AGCT	CACT	CTTG	TAATGTA	AAC	AG	ATTTA	ATGT	TG	CA	TAT	TAC	CAG		
Consensus (21332)			TC		AAC		G	AC G	C	T	TTG		AAC	A			TGC	A	T	C	G		
		Section 259																					
		(21415)	21415	21420	21430	21440	21450	21460	21470	21480	21497												
K12 Zwischenstück 255.328 - 290.948	(21031)	TC	GGTGGTGT	TGCTGG	CGCTGT	TTTCCAG	CTGG	TGG	GCCCCG	ACA	CGGT	TATTTG	TTG	CGCT	GTC	GGC	AA	TC	TCC	GG	GT	TTGCG	
SARS-CoV-2 Reference Genome NC 045512.2	(17954)	T	---	TTG	CA	TAA	TG	T	---	TG	A	TAG	AG	CT	T	A	TG	---	ACA	AG	T	TG	CA
Consensus (21415)			T	T G	T	TG C	TG T			A	C	T	TG		ACA	G	T		TT	C	GTC	AA	TCC

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																Section 260																		
	(21498)	21498	21510	21520	21530	21540	21550	21560	21570	21580																								
K12 Zwischenstück 255.328 - 290.948	(21114)	GTGGT	AGCGG	TGTGGC	TGAGT	TCTGC	GCCTCGC	ATTTT	GT	TTTTTC	GT	CGCCGT	CACTCTGC	AACAAG	GTAAGG	CATTGAGTGA																		
SARS-CoV-2 Reference Genome NC_045512.2	(18019)	-----	AGGAA	TGTGGC	A-AC	TTTACAA	GC	TGAAA	AT---	GT	AACAG	GACTCTT	TAAAG---	ATTGTA	GTAAGG	TATCACTG																		
Consensus	(21498)		AG	TGTGGC	A T T	GC	AT	GT	G C C	T A	A	GTAAGG	A T A	TG																				
																	Section 261																	
	(21581)	21581	21590	21600	21610	21620	21630	21640	21650	21663																								
K12 Zwischenstück 255.328 - 290.948	(21197)	A	TTACAT	TAT	TCGCGCG	CCGT	GGTAT	C	CGTGGTGC	CAGT	ATT	AGGTT	T	TGTGCTGTGC	CTGGT	GGCC	TGTGTGG	CTGG	CAT															
SARS-CoV-2 Reference Genome NC_045512.2	(18090)	G	TTACAT	CC	T	-----	CACA	GGCAC	CTAC	ACACCT	CAGT	TT	GACAC	TAAATT	CAAAA	CTGAA	GGTT	TATGT---	GT	TG	CAT													
Consensus	(21581)		TTACAT	T	C		GG	A C C			CAGT	TT	T			CTG	GG	T TGT	G TG	CAT														
																	Section 262																	
	(21664)	21664	21670	21680	21690	21700	21710	21720	21730	21746																								
K12 Zwischenstück 255.328 - 290.948	(21280)	T	CGATC	CA	GCG	CAG	AGAA	T-TG	CGT	TGTGG	TGCGGG	TTAC	CG	TT	TGT	TG	CGTT	G	TGCT	ATG	GTGC	TTAT	TTCC	TTA	CT	CA--	A							
SARS-CoV-2 Reference Genome NC_045512.2	(18165)	A	CTGG	CA	TAC	CTA	AGGACA	TG	ACCT	TATAG	AAGACT	CAT	CTC	TAT	TG	TG	GTT	T	TAAA	ATGAA--	TTAT	CAAG	TTAT	TGGTT	A									
Consensus	(21664)		C	CA	C	AG	A	TG	T T G			C	T	TG	TG	GTT	T	ATG			TTAT		TTA	T	A									
																	Section 263																	
	(21747)	21747	21760	21770	21780	21790	21800	21810	21829																									
K12 Zwischenstück 255.328 - 290.948	(21360)	CCC	CG	AA	AC	GCAA	AA	CA	GGAG	GC	AGAA	CAT	GT	TCGC	AGA	ATAAA	T	CGT	TACGC	G	CT	CCT	CTT	-	GATAAA	ACAGGA	-	TATC	CTGCT					
SARS-CoV-2 Reference Genome NC_045512.2	(18246)	CCC	TAA	CA	TG	TTT	AT	CA	CCC	GC	GA	AGA	-	AGC	TATA	AGA	CAT	G	TACGT	GCATG	GAT	TGG	CTT	C	GAT	GTCG	AGGG	TG	TC	TGCT				
Consensus	(21747)		CCC	A	A	G		A	CA	GC	A	A	A	T	AGA		T	CGT		G	T		CTT	GAT		AGG	T	TC	TGCT					
																	Section 264																	
	(21830)	21830	21840	21850	21860	21870	21880	21890	21900	21912																								
K12 Zwischenstück 255.328 - 290.948	(21441)	G	CTG	GAT	G	GC	GAT	TG	CG	AG	GGA	GCT	GGA	AG	GCG	AGG	TG	TA	AC	TT	AGC	C	G	ACAG	CCT	GT	GGT	CAG	CC	AA	AG	TGCTG	G	TAG
SARS-CoV-2 Reference Genome NC_045512.2	(18328)	A	CTAG	AG	-	GAA	GC	TG	TG	GT	AC	CA	ATTT	---	AC	TTTT	ACAG	C	TAGG	TTTT	CT	ACAG	---	GTG	TAA	-	CC	TAGT	TGCTG	TACC				
Consensus	(21830)		CT	GA	G	GC	T	G	AC	A	T	A	C	A	G	TA	TT	C	ACAG				GTG	T	A	CC	A	TGCTG						
																	Section 265																	
	(21913)	21913	21920	21930	21940	21950	21960	21970	21980	21995																								
K12 Zwischenstück 255.328 - 290.948	(21524)	AAA	ACCGGA	GCT	TAT	CGG	GAA	AGT	GC	AT	CCT	GATT	ACT	TAC	CGG	GCGG	GG	GC	AA	TGCGCGAT	CAC	TGCC	AGCT	-	ATCA	AGGC								
SARS-CoV-2 Reference Genome NC_045512.2	(18402)	T	AC	AGTTAT	GT	TGAT	AC	ACT	A	T	A	AT	AC	AGATT	TTT	TC	CAG	AGT	TAGT	GC	TAA	C-----	CAC	GCC	TG	GAG	ATCA	ATT						
Consensus	(21913)		A	A		G	T	AT	C	C	A	T	AT		GATT	T	C	G	G	G	GC	AA			CAC	GCC	G	ATCA						
																	Section 266																	
	(21996)	21996	22010	22020	22030	22040	22050	22060	22078																									
K12 Zwischenstück 255.328 - 290.948	(21606)	G	ACG	C	GGCGGG	CT	TC	GCCG	CG	GAGGTCTGG	AT	GAA	GCG	CAG	TC	GAA	AG	CGC	TGAT	TGGC	AAA	AG	GTGG	AGC	TG	GCGC	GT	A						
SARS-CoV-2 Reference Genome NC_045512.2	(18477)	T	AA	CA	-----	C	CTC	ATAC	CA	TTATGTACA	AA	GGA	CTT	CCT	TG	GAA	T	TAG	TGCGT	TATA	AA	GA	TTGTAC	AAA	TG	TTAA	GT	G						
Consensus	(21996)		A	C		C	TC		C	C		A	G	A	C	T	GAA	G	TG	T	AA	A	GT	A	TG		GT							

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										Section 267
	(22079)	22079	22090	22100	22110	22120	22130	22140	22150	22161
K12 Zwischenstück 255.328 - 290.948 (21689)	AAGCCCGTGAAGCG-TA	TCTGGCAGAGAACCG	CGCAGGC	GGGAACG	CTTCTGGTGGCG	GGATCCGTCGGG	CTTACGGCGCGT			
SARS-CoV-2 Reference Genome NC_045512.2 (18554)	ACACACTTAAATAATCT	TCTGTACAGAGT---	CGTATTTGT---	CTTATGGGCA	CATGGCTTTGAGTT	GACATCTATGAA	GT			
Consensus (22079)	A C C T A A	T T C T G T C A G A G	C G A G		C T T T G G C	G G T T G	G C T	G C T		G T
										Section 268
	(22162)	22162	22170	22180	22190	22200	22210	22220	22230	22244
K12 Zwischenstück 255.328 - 290.948 (21770)	ATCTGCGCGATGGCTCTGAAT	ACCGTGGCGATTATCAT	TGTAGCGTTGAGGCATTT	CAGGCGTTTCAT	CGCCCGCGCGT	TGGA				
SARS-CoV-2 Reference Genome NC_045512.2 (18629)	ATTTTGTGAATAAGGACCTGA	GCGCACCTGTGTCAT	TGTGA--TAGACGTGCCA	CATGCTTTTCCACT----	GCTTCAGA					
Consensus (22162)	A T T G G A	A C G C T T T C T	T G T T G A G	C A G C T T T C	C					
										Section 269
	(22245)	22245	22250	22260	22270	22280	22290	22300	22310	22327
K12 Zwischenstück 255.328 - 290.948 (21853)	GCCTTGC	TGGA	TGCC	GGGGC	GATCTGCTGGCCT	TGCGAAACCT	TGCCGAATTTT	TCCGAGATTGAGGCGT	TGGCCGAGCT	GTT
SARS-CoV-2 Reference Genome NC_045512.2 (18705)	CACCTTA	TGCC	TGTTGG	CATCAT	TCTAT	TGGATT	TGATTACGTCTAT	AATCCGTTTAT	GATTGATGT	TCAA
Consensus (22245)	CTT	TG	TG	GG	C	TCT	TGG	T	GA	C
										Section 270
	(22328)	22328	22340	22350	22360	22370	22380	22390	22400	22410
K12 Zwischenstück 255.328 - 290.948 (21936)	GACCGCA	TATCC	GCGTGC	GGGGCGTGGT	TCTCATTT	TACCC	TGCGCGAC	AGCGAACA	CC	TGAGCGACGGTACGCC
SARS-CoV-2 Reference Genome NC_045512.2 (18785)	TTACAGG	TAA	CGTACAAA	GC	AAC	ATGATCTGTAT	TGTC	CAAGTCCAT	GTAAT	GCACATGT
Consensus (22328)	C	TA	CC	GC	C	TG	T	T	T	T
										Section 271
	(22411)	22411	22420	22430	22440	22450	22460	22470	22480	22493
K12 Zwischenstück 255.328 - 290.948 (22018)	GACGTGGT	TGCGTT	CTGCGGGG	TTATCCG	CAGGTGGT	GGCGCTAG	GCA	TTAACTG	---	TATTGCGCTGGAA
SARS-CoV-2 Reference Genome NC_045512.2 (18858)	TGCAATCA	TGACTAG	GTGTAGCT	TGCCAG	AGGTGCT	TTGTTAAG	CGTGT	TTGACTG	GAC	TATTGAATATCCT
Consensus (22411)	C	TG	T	G	TG	C	G	T	TCC	C
										Section 272
	(22494)	22494	22500	22510	22520	22530	22540	22550	22560	22576
K12 Zwischenstück 255.328 - 290.948 (22097)	CTGCGT	TGCA	GCATT	TACA	CGGTTT	---	A--ACGGT	GCTGCGCG	TGGT	GTTGTA
SARS-CoV-2 Reference Genome NC_045512.2 (18941)	ATGAAC	TGAAG	ATTAA	TGCGG	CTTGT	AGAAAGGT	TCAACACA	TGGT	TGTAA	---
Consensus (22494)	TG	TG	AG	ATT	A	CGG	TT	A	A	GGT
										Section 273
	(22577)	22577	22590	22600	22610	22620	22630	22640		22659
K12 Zwischenstück 255.328 - 290.948 (22176)	GAGCAAA	ACCTGGCA	TCA	TCACG	GTGA	ACATTG	CGCG	CAGCTGGCGG	ATTATC	TGCCGCAG
SARS-CoV-2 Reference Genome NC_045512.2 (19011)	---	CAAA	TTCCAGT	TC	TCACG	---	ACATTG	GTAAC	CCTAAAGCT	ATTAG
Consensus (22577)		CAAA	C	TC	TCACG		ACATTG	C		

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										Section 274																																		
	(22660)	22660	22670	22680	22690	22700	22710	22720	22730	22742																																		
K12 Zwischenstück 255.328 - 290.948 (22259)	T	GAT	TGGCGGGTGC	TG	TC	GCAC	CAC	GCCT	GCGGAT	TAT	C	GCC	GC	GTTAA	AA	GCGC	GAAG	CTGAGGG	TT	TAT	TC	GGG	TCT	AC	AT	CG																		
SARS-CoV-2 Reference Genome NC_045512.2 (19085)	AG	T	TCTA-----	TG	AT	GCAC	A--	GCCT	TGTAG	T	G	AAA	GC	-TTA	TAA	AATA	GAAG	AA-----	TT	TAT	TC	TAT	TCT	T-	AT	GC																		
Consensus (22660)	G	T		TG		GCAC		GCCT		T	C	GC	TTA	AA		GAAG			TT	TC		TCT		AT																				
										Section 275																																		
	(22743)	22743	22750	22760	22770	22780	22790	22800	22810	22825																																		
K12 Zwischenstück 255.328 - 290.948 (22342)	TT	CATT	TG	GC	CTG	AT	AAG	CG	C	AG	C	AT	CAG	GG	-	ATT	GCC	GG	AT	GC	GGC	CAC	AAG	CG	CCT	TAT	CCGG	CCT	AC	AAA	AC	CACA												
SARS-CoV-2 Reference Genome NC_045512.2 (19152)	CA	CA	CAT	TCT	GAC	AA	AT	TC	AG	AT	GG	TGT	AT	GC	CT	ATT	TTG	GA	AT	GC	-----	AA	TGT	C	GA	TA	GATAT	CCT	G	CT	AA	TT	C--											
Consensus (22743)	CA		T	G	C		AT		C	A	G	T	G	C	ATT		G	AT	GC		AA		C	TA		CCT	C	AA		C														
										Section 276																																		
	(22826)	22826	22840	22850	22860	22870	22880	22890	22908																																			
K12 Zwischenstück 255.328 - 290.948 (22424)	AA	AC	GTT	AT	TG	CC	G	CAT	CC	G	CA	GA	CA	AA	CA	TGC	CG	TAC	GG	AT	TGG	ATT	T	CA	AG	TAA	TAC	TG	C	TG	CC	GAC	GT	CC	GGT	TG	CAG							
SARS-CoV-2 Reference Genome NC_045512.2 (19228)	-	ATT	GTT	-	TG	TAG	-	AT	TT	G	ACA	CT	AG	AG	TGC	TAT	CT	AA	CT	-	TA	AC	TT	GC	CT	GG	TT	GG	TG	AG	TT	GC	AG	---	TTT	GTA	TG	TAA						
Consensus (22826)	A		GTT		TG		G	AT		G	CA		A	A		T	C	AC		T		TT	C	G	T	T	TG	T	GC	G		T	G	TG	A									
										Section 277																																		
	(22909)	22909	22920	22930	22940	22950	22960	22970	22980	22991																																		
K12 Zwischenstück 255.328 - 290.948 (22507)	A	CG	CGT	AG	CGT	TG	AC	TG	CA	TA	ATA	TCT	CC	TG	CCC	GT	GC	CA	TT	CC	AC	CG	T	CA	CT	CA	TAC	TG	CG	CC	CA	TAT	TAG	CG	ACA	-								
SARS-CoV-2 Reference Genome NC_045512.2 (19304)	A	TAA	ACA	TG	CA	TTC	G	ACA	CA	CC	AG	CT	TT	TGA	TAAAA	GT	GC	TT	TT	GT	----	TA	AT	TT	AA	ACA	AA	TTA	CC	ATT	TT	T	CT	ATT	AC	TC								
Consensus (22909)	A		A		T	C		CA		A	T	T	T		GTGC		TT					T	A	TT	A	AC		CC		T	T		AC											
										Section 278																																		
	(22992)	22992	23000	23010	23020	23030	23040	23050	23060	23074																																		
K12 Zwischenstück 255.328 - 290.948 (22589)	TG	G	CG	GAT	CA	CG	CAG	CGC	TG	GC	TCTC	T	TG	CCG	-	GA	TG	CG	TG	AGC	GT	GAT	CG	CT	CC	G	GG	CG	CAC	ACC	GACC	AT	CC	CT	T	CAC								
SARS-CoV-2 Reference Genome NC_045512.2 (19383)	TG	AC	AG	T	CA	TG	-----	TG	AG	TCTC	AT	GG	AAAA	CA	AG	TAG	TG	TC	AG	AT	AG	ATT	AT	GT	-----	ACC	ACTA	AA	AGT	CT	G	CTA												
Consensus (22992)	TG	C	G		CA	G			TG		TCTC	T	G		C	A		TG		G	AT	G	TT	G			ACC		A		CT	C												
										Section 279																																		
	(23075)	23075	23080	23090	23100	23110	23120	23130	23140	23157																																		
K12 Zwischenstück 255.328 - 290.948 (22671)	CC	TGT	G	TAC	CA	AA	AG	TG	CA	G	CG	GG	C	GG	CAG	TG	AT	AG	CC	GT	AG	AT	CA	AC	GT	TCC	GT	CG	TG	AG	GT	TG	CC	GGG	AA	CAG	G							
SARS-CoV-2 Reference Genome NC_045512.2 (19454)	CG	TGT	TA	CA	CG	TG	CA	ATTT	AG	TGG	----	TG	CT	TG	CT	GT	AG	CA	TC	AT	CA	TG	CA	TA	----	TG	AG	TAC	AG	ATT	GT	----	AT	CT	CG									
Consensus (23075)	C	TGT	TA	CA		TGCA			G	GG		TG	T	C	GT	AG	ATCA		TA		T	T	AG	TTG			A	C	G															
										Section 280																																		
	(23158)	23158	23170	23180	23190	23200	23210	23220	23230	23240																																		
K12 Zwischenstück 255.328 - 290.948 (22754)	T	TG	G	CA	T	CG	CC	CAT	AA	AG	CT	CG	C	ATA	AA	AG	CG	GG	AG	CG	G	GC	TG	GC	GGT	AA	AG	AT	C	TG	CG	TG	AG	CG	GAT	CT	G	CAT	GA	TG	TG			
SARS-CoV-2 Reference Genome NC_045512.2 (19526)	A	TG	-	CT	T	A	TAA	CAT	GA	TG	AT	CT	C	-----	AG	CT	GG	CT	TT	AG	CT	TG	TG	GGT	TT	CA	AA	C	AA	TT	-	TG	A	T	AC	TT	A	AA	C	CT	C	-	TG	GA
Consensus (23158)		TG	C	T				CAT	A	G	TC	C			AGC	GG		G	TG		GGT	A	A	C			TGA		C							C	T		TG					

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										Section 281
(23241)	23241	23250	23260	23270	23280	23290	23300	23310	23323	
K12 Zwischenstück 255.328 - 290.948 (22837)	TCCCTTGTTCA	TCAGCAG	CACAGTAT	CAGAAACCG	CAAAAGGCTT	CGCTCTGAT	TCGTGGGTG	ACGTACAG	CGAGGTG	ATATCA
SARS-CoV-2 Reference Genome NC_045512.2 (19601)	ACACTTTTACAGAC	TT-CAGAGT	TT-AGAAAT	GT---GGCTT	T--TAATGT	TGTAAAT	TAAGGAC	ACTTTG	ATGGA	ACAACA
Consensus (23241)	CCTTTCACAC	CAAGT	TAGAA	G	GGCTT	T	TGT	TAGACA	GTGA	ACA
										Section 282
(23324)	23324	23330	23340	23350	23360	23370	23380	23390	23406	
K12 Zwischenstück 255.328 - 290.948 (22919)	AACFGCTT	TGCACT	TCGCGGATC	TGTTCGCGCAT	GTGCGACGC	AGGT---TGGC	GTGAGGT	TTACTCA	ACGGCTC	ATCAA
SARS-CoV-2 Reference Genome NC_045512.2 (19677)	GGGTGAAGTAC	CAGTTCT	TATCATTA	ATAACAC	TGTTTAC	ACAAAGTTGA	TGGTGTGAT	GTAGA	ATTGTTT	GAAAATAAA
Consensus (23324)	TG	TCA	T	T	CC	TG	T	AC	A	GT
										Section 283
(23407)	23407	23420	23430	23440	23450	23460	23470	23489		
K12 Zwischenstück 255.328 - 290.948 (22998)	ACAGCAGCACT	TCGGCTTG	AGGATCA	GCGCGGGC	---AGCGC	CACGCGCTG	CTGCTGCC	CGGGAG	ATCTG	ATCGACAA
SARS-CoV-2 Reference Genome NC_045512.2 (19759)	ACAACA	TTACCTG	TAAAGT	AGCATTT	GAGCTTT	GGGCTA	AGCGCAC	ATTAAAC	CAGTACC	GAGGTGA
Consensus (23407)	ACA	CA	AC	T	T	AG	AT	G	GC	GG
										Section 284
(23490)	23490	23500	23510	23520	23530	23540	23550	23560	23572	
K12 Zwischenstück 255.328 - 290.948 (23079)	AGCGGTCT	TCGA	ATCCTTCC	CAGATCCAC	CATCGC	CAACGCCT	CTTGAC	CGCGGG	CTTCA	GCTCTG
SARS-CoV-2 Reference Genome NC_045512.2 (19842)	TTTGGGTGTG	GGA	-----	CATTCG	TGCTAATA	CTGTGA	TCTGGGAC	TACAAAA	-----	GAGTGTCC
Consensus (23490)	GG	TGA		CAT	GC	CT	TGA	GGG	TCA	G
										Section 285
(23573)	23573	23580	23590	23600	23610	23620	23630	23640	23655	
K12 Zwischenstück 255.328 - 290.948 (23162)	ATTTTC	AGGCCA	TACCGACA	TTCT-CT	CCCAGC	GACATATG	CGGGA	--CAGGGC	ATAGGA	CTGAAA
SARS-CoV-2 Reference Genome NC_045512.2 (19902)	ACATATA	TCTAC	TATTGG	TGTGTTGTT	CTATGACT	GACATAGC	CAAGAAAC	CAACTGA	AAACGAT	TTGTGC
Consensus (23573)	A	T	A	TA	G	TT	T	CT	A	GACATA
										Section 286
(23656)	23656	23670	23680	23690	23700	23710	23720	23738		
K12 Zwischenstück 255.328 - 290.948 (23242)	GCGCTGCT	TGAA	TAGAG	CGATGG	GGTGA	CGTCTT	GCCATCA	ATGAAA	ATTG	CCCC
SARS-CoV-2 Reference Genome NC_045512.2 (19985)	TTTTTGA	TG	TAGAG	TTGATGGT	CAAGT	AGACTT	ATTA	---GAAA	---TGCCC	GTAATGGT
Consensus (23656)	TG	TG	TAGAG	GGT	A	GT	C	T	A	GAAA
										Section 287
(23739)	23739	23750	23760	23770	23780	23790	23800	23810	23821	
K12 Zwischenstück 255.328 - 290.948 (23325)	GGCGCAAA	ATAGTGGTTT	TGCCG	CAGCG	CGGACGGG	CCGAGCA	GC--GTC	ACCATT	TTGCC	CCTGCGGGA
SARS-CoV-2 Reference Genome NC_045512.2 (20060)	GTGTTAAA	-----	GGTTT	ACAAC	CATG	TGTAAGT	CCAA	CAAGC	TA	GTC
Consensus (23739)	G	AAA	GGTTT	CA	C	G	A	G	CC	A

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										Section 288
(23822)	23822	23830	23840	23850	23860	23870	23880	23890	23904	
K12 Zwischenstück 255.328 - 290.948 (23404)	ATTGT	CATT	ACCGTATTA	CTGCCAA	ATCGTT	TAGTGAC	GTTCG	CAGTT	CAACGAAAT	TTTTCTGAGTCATAGTGCGCTCC
SARS-CoV-2 Reference Genome NC_045512.2 (20138)	AAACA	CAGTT	CAATTATTA	TAAGAA	GTGATG	GTGTT	GTCCAA	CAATT	ACCTGAAAC	TTACTTTACTCAGAGT
Consensus (23822)	A	C	TT	TATTA	AA	T	G	T	GTG	GT
										Section 289
(23905)	23905	23910	23920	23930	23940	23950	23960	23970	23987	
K12 Zwischenstück 255.328 - 290.948 (23487)	T	TACG	CCT	GGT	TTT	TGG	CTTT	GAA	CGGGA	GGTACG
SARS-CoV-2 Reference Genome NC_045512.2 (20216)	ATTTA	CAAG	AAATTT	AAAC	CCAG	GAGT	CAAA	TGG	AAAT	TGATT
Consensus (23905)	T	C	G	TTT	C	GA	C	GG	A	TGATT
										Section 290
(23988)	23988	24000	24010	24020	24030	24040	24050	24060	24070	
K12 Zwischenstück 255.328 - 290.948 (23569)	ACCAC	GATC	GAAATG	GAAC	CGTA	GGCA	ATCGC	TACCCG	TATTT	CGCAT
SARS-CoV-2 Reference Genome NC_045512.2 (20297)	AATTA	GAGG	CTATG	CCTT	CGAA	CATA	ATCGTT	TATGGA	GATTT	TAGT
Consensus (23988)	A	GA	ATG	CG	A	A	TA	G	T	TT
										Section 291
(24071)	24071	24080	24090	24100	24110	24120	24130	24140	24153	
K12 Zwischenstück 255.328 - 290.948 (23651)	C	GC	GGT	ATC	CG	GCGT	GAC	GAGGA	AC	ACAA
SARS-CoV-2 Reference Genome NC_045512.2 (20380)	CTAG	C	TAAA	CGTTT	TA	GGA	ATC	AC	CTTT	TGAATTA
Consensus (24071)	C	G	TA	CG	T	A	GA	AC	TG	GA
										Section 292
(24154)	24154	24160	24170	24180	24190	24200	24210	24220	24236	
K12 Zwischenstück 255.328 - 290.948 (23734)	ATCG	CCGG	GCGCA	G	CAG	CGG	CAGG	--	AGGA	TGTG
SARS-CoV-2 Reference Genome NC_045512.2 (20458)	ATAA	CAGAT	GCGCA	AA	CAG	GTT	CATC	TA	AGTG	TGTGT
Consensus (24154)	AT	C	G	GCGCA	CAG	CA	C	AG	TGTG	GT
										Section 293
(24237)	24237	24250	24260	24270	24280	24290	24300	24319		
K12 Zwischenstück 255.328 - 290.948 (23812)	-	TC	GAGC	GATTTATC	GAT	TTGGC	CGG	TAA	TG	ACTC
SARS-CoV-2 Reference Genome NC_045512.2 (20541)	A	TC	CCAA	GATTTATC	TG	TAGTTT	C	---	TAA	GGTTGT
Consensus (24237)		TC		GATTTATC	T		C	TAA	G	CAA
										Section 294
(24320)	24320	24330	24340	24350	24360	24370	24380	24390	24402	
K12 Zwischenstück 255.328 - 290.948 (23894)	TCA	TGCT	GC	TCCA	CGAT	TT	TG	AGAA	CGA	CAGCGA
SARS-CoV-2 Reference Genome NC_045512.2 (20616)	GTG	TAAAG	ATGGC	--	ATGT	--	AGAA	AC	ATTTTAC	GCAAAA
Consensus (24320)		T	G	T	C	AT	T	AGAA	A	C

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										Section 295						
(24403)	24403	24410	24420	24430	24440	24450	24460	24470	24485							
K12 Zwischenstück 255.328 - 290.948 (23977)	---	CTCAATTCGC	TGCGTATATC	GCTTGCTGATTAC	GTGCAGCTTTC	CC--TTCA	GGCGGGATTCAT	ACAGCGG	CCA--GCCA							
SARS-CoV-2 Reference Genome NC_045512.2 (20695)	AAT	CTTTACAAAA	TGCAAGAAAT	GCTATTAGAAA	GTGTGACCTTC	AAAA	TTATGGTGATAGT	GCAACA	TTACCTAAAGGCA							
Consensus (24403)		CT A	TGC A A	GCT GA A	GTG C TTC	TT	GG G A T	ACA	C A G CA							
										Section 296						
(24486)	24486	24500	24510	24520	24530	24540	24550	24568								
K12 Zwischenstück 255.328 - 290.948 (24053)	TCCG	TCAATCCAT	TCAACCGT	CAAGGGTGA	CAGCAGGC	TCA	TAGACGCC	CAGCGTCG	CCATAGTGC	GTT	CACCG	AATAC				
SARS-CoV-2 Reference Genome NC_045512.2 (20777)	TAA	TGATGAAT	TGCGCAAA	TATACT	CAACTGTG	TCAAT	ATTTAAAC	CACAT	TAA	CAT	TAG	CTGTAC	CCTAT	AATA	T	
Consensus (24486)	T	T AT	AT TC C A	T A	CA C G	TCA A	C A	T C	TAG	C		AATA				
										Section 297						
(24569)	24569	24580	24590	24600	24610	24620	24630	24640	24651							
K12 Zwischenstück 255.328 - 290.948 (24136)	GTGCGCAACA	ACCGTCTT	CGGAGCCTG	TCAATACCG	CTAAAAC	AGCCAGC	GCTGGCGCA	TTTAGCC	CCGAC	GTAT	CCCA					
SARS-CoV-2 Reference Genome NC_045512.2 (20853)	GAGAGTTATACA	TTTGGTGGT	CTGATAA	AGGAGT	TGCAC	AGGTACA	GCTGT	TTTAA	GACAG	GTGT	CC	TAC				
Consensus (24569)	G G G A A A	T T C G	CTG A A	G GT AC AG	A GCTG	TTTA	C G	GT CC								
										Section 298						
(24652)	24652	24660	24670	24680	24690	24700	24710	24720	24734							
K12 Zwischenstück 255.328 - 290.948 (24217)	CTGTTCG	TCAATTC	CGCGCAGAC	CGATGACGT	CAC	TGCCCG	CTGTATGC	GCGAGG	TTACCGAC	TGCGGCC	TGAGTT	TTT	TTTA			
SARS-CoV-2 Reference Genome NC_045512.2 (20931)	GGGTACGCT	GTGTGTC	GATTGAGAT	CAGATCTTA	ATGACTT	TGTCT	CTGATGC	AGTT	CAACTTT	TGATTGG	TGA	TTG	TGC	A		
Consensus (24652)	GT CG T C T TC		CAGA T A G C	TG C	CTG ATGC	AG TT	TG	TGA TT T A								
										Section 299						
(24735)	24735	24740	24750	24760	24770	24780	24790	24800	24817							
K12 Zwischenstück 255.328 - 290.948 (24299)	AATG	GCGGAAT	CGTGTG	AGGCCAAG	CGCCAT	AATGCG	GGCGG	TGCTCGG	CATCCA	ACGCC	ATTCAT	TGGC	ATATC	AA-T		
SARS-CoV-2 Reference Genome NC_045512.2 (21007)	ACTGTACAT	ACAGCTAAT	AAATGGGAT	CTC--	ATTAT	TAGTGATAT	TGACGAC	CCTAAG	ACTAA	AAATGT	TACAA	AAAGAA	AAAT			
Consensus (24735)	A TG	A A C	T A G	A C C	AT AT	G G	T C	C T	AC A	T C A A	AA T					
										Section 300						
(24818)	24818	24830	24840	24850	24860	24870	24880	24890	24900							
K12 Zwischenstück 255.328 - 290.948 (24381)	GATTTT	CTGTG	GTGCGT	AC--	CGGGTGA	GAAGCGGT	GTAA	GTGAAC	TGCAGT	TGCTAT	GTTT	ACGG	CAGTG	AGAGC	AGAGA	
SARS-CoV-2 Reference Genome NC_045512.2 (21088)	GACTCT	TAAAG	AGGT	TTTTT	CACTT	ACATTT	GTGGGT	TATAC	AACAAA	AGCTAGC	TCTT	GGAG	TTCC	GTG	GCTAT	AAAGA
Consensus (24818)	GA T T	G G GT	C T A	G GG T A	AAC	AG T C T TT	A G C	GTG	A AGA							
										Section 301						
(24901)	24901	24910	24920	24930	24940	24950	24960	24970	24983							
K12 Zwischenstück 255.328 - 290.948 (24460)	TAG	CGCTGATG	TCGCG	CAGTGCT	TTTGC	CGTTA	CGCAC	ACCC	CGTCAG	TAGCT	GAA	CAGGAG	GGACAGC	TGA	TAGAA	ACAGA
SARS-CoV-2 Reference Genome NC_045512.2 (21170)	TAAC	GAGAACAT	TC	TGGAATGCT	GAT--	GTTA	TA--	AGCT	CATGG	GACACT	TCG	CATGGT	GGACAGC	CTT	T-GTT	ACTAA
Consensus (24901)	TA C	TC G A	TGCT T C	TTA	A C C T	G CT	CA G	GGACAGC	T G	AC A						

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		Section 302																															
	(24984)	24984	24990	25000	25010	25020	25030	25040	25050	25066																							
K12 Zwischenstück 255.328 - 290.948	(24543)	AGCCAC	TGGAGCA	CTCAAA	AAACACCAT	CATACACT	AAATCAGTA	AGTTGGCAGC	ATCACCGA	GAACACAAATGGGCTAAT	T																						
SARS-CoV-2 Reference Genome NC_045512.2	(21246)	TGTGAATG	CGTCAT	CTCTGAA	GCAATTTT	TAATTGGA	TGTAATTA	TC TTGGCA	--AACCA	CGCGAACA	AATAGATGGTTAT	T																					
Consensus	(24984)	G	A	TG	CA	C	TC	AA	CA	T	A	A	A	T	A	T	A	T	A	T	A	T											
		Section 303																															
	(25067)	25067	25080	25090	25100	25110	25120	25130	25149																								
K12 Zwischenstück 255.328 - 290.948	(24625)	CGGCAG	TACTTTC	CCTAAA	AGACATGT	CTTGCCCA	ATATAC	TCAACATGA	ACTAGATC	TGGTTGCTGC	TCAGCTAAACA	ACAG																					
SARS-CoV-2 Reference Genome NC_045512.2	(21325)	-GTCA-TG	CATGC	---AAA	TTACATA	TTTGGAGGA	-ATAAC	---AATCC	AATTCAGT	TGTCTT	CCTATTCTTT	ACAT																					
Consensus	(25067)	G	CA	T	C	T	C	AAA	ACAT	T	TTG	A	ATAC	A	AT	A	T	A	TG	T	C	T	TA	ACA									
		Section 304																															
	(25150)	25150	25160	25170	25180	25190	25200	25210	25220	25232																							
K12 Zwischenstück 255.328 - 290.948	(24708)	ACCGA	GAAAGA	CACTGA	AGTTCA	AAACAC	CGAAAG	GAGAT	AAT	TGA	AA	GGG	GTGT	TGCAT	TGAC	GAT	TGA	AT	TACAG	CAGC													
SARS-CoV-2 Reference Genome NC_045512.2	(21399)	GAGTAA	ATTTCC	CTTAA	TTAAGGGG	TAC	TGCTG	TTAT	GTC	TTTAA	AG	GAAG	GTCA	AA	TCAAT	GAT	TGA	TT	TATCT	CTTC													
Consensus	(25150)	A	A	C	CT	AA	TT	A	C	G	AT	T	AA	G	G	T	A	T	A	GAT	TGA	T	TA	C	C								
		Section 305																															
	(25233)	25233	25240	25250	25260	25270	25280	25290	25300	25315																							
K12 Zwischenstück 255.328 - 290.948	(24790)	TTTTTT	TTAATAT	GTCCCG	TTTCG	TCGGT	AA	CCCG	TTTC	AGCTCT	TTCT	TGGAG	ACGG	CGGA	TCTCG	CC	TGAG	CA	TCTGAC	TGTT													
SARS-CoV-2 Reference Genome NC_045512.2	(21482)	TTAGTAA	AGGTAG	ACTTA	TAA	TAGAG	AA	AA	CAACAG	AGTT	GTTATT	T	-----	-----	TCTAG	---	TGA	TGT	TCT	---	TGTT												
Consensus	(25233)	TT	T	A	G	C	T	T	G	AA	C	AG	T	TT	T		TCT	G	TGA	TCT		TGTT											
		Section 306																															
	(25316)	25316	25330	25340	25350	25360	25370	25380	25398																								
K12 Zwischenstück 255.328 - 290.948	(24873)	CTTTAT	TAGTG	GAA	AATCCG	GACC	GTAC	TTCTT	TATCCAG	GC	ATAA	AGG	CTGT	G	GGTG	GTG	AT	TCG	AGACG	TGTTG	CAAC												
SARS-CoV-2 Reference Genome NC_045512.2	(21547)	AACAAC	TAAAC	GAA	CAAT	---	GTTT	GT	TTCTT	GT	TTATT	GC	CACT	AGT	CTCT	AGT	TCAG	TG	TAA	---	TCTTA	CAAC											
Consensus	(25316)	A	TA	GAA	AAT	G	GT	TTCTT	T	T	GC	AG	CT	T	G	GTG	T	T	A		T	TT	CAAC										
		Section 307																															
	(25399)	25399	25410	25420	25430	25440	25450	25460	25470	25481																							
K12 Zwischenstück 255.328 - 290.948	(24955)	GCTGG	CAACA	AGA	ATAA	CCGAG	ATCA	ACAA	CC	TGTTT	GAC	TGCT	TCA	GTTT	TAA	AC	CT	TCGG	GATA	ACGC	TTAC	CGCTC	ATGG										
SARS-CoV-2 Reference Genome NC_045512.2	(21622)	CAGAA	CTCA	ATT	ACCC	CC	TGC	ATAC	AC	TAA	TCTTT	CAC	ACG	TGGT	GTTT	ATT	AC	CT	---	GACAA	AGT	TTT	CAGATC	---									
Consensus	(25399)	C	A	A	CC	AT	AC	A	T	TTT	AC	T	GTTT	AC	CT	GA	AA	G	TT	C	G	TC											
		Section 308																															
	(25482)	25482	25490	25500	25510	25520	25530	25540	25550	25564																							
K12 Zwischenstück 255.328 - 290.948	(25038)	GCAC	CTC	TC	TTT	AA	GC	CATT	TT	AA	TG	ACTC	GGA	GG	TGT	CTG	T	TAA	ACC	CG	TGG	CGAT	TCAA	AATTG	C	GAT	TAT	AT	CA	T	AT	CC	
SARS-CoV-2 Reference Genome NC_045512.2	(21697)	---	CTC	AG	TTT	TA	---	CATT	C	AA	CTCA	---	GGA	CT	TGT	TCT	T	ACCTTT	CTTT	CCAAT	GTT	ACT	TTG	G	TT	TCC	ATG	C	TA	T	AT	CA	C
Consensus	(25482)		CTC		TTT	A		CATT		AA	T	A		GGA		TGT																	

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																			Section 309											
	(25565)	25565	25570	25580	25590	25600	25610	25620	25630	25647																				
K12 Zwischenstück 255.328 - 290.948	(25121)	ATGACT	GCCCAG	CGTAT	CGGCT	TCA	CCAGT	CAG	CCCG	TTAC	GGT	TACAG	TGTG	ACAC	AGTG	CGCG	GT	ACCT	TGGG	ATT	CA	GCT	CAC							
SARS-CoV-2 Reference Genome NC_045512.2	(21768)	ATGTCT	CTGGGA	CCAAT	GGTAC	TAA	GAG	GT	TTGA	---	TAAC	CC	TGTCC	TACC	ATTT	AATG	ATG	GT	GTT	T---	ATTTT	GCT	TCC							
Consensus	(25565)	ATG	CT	C	AT	G	T	A	GT	G	T	AC	T	T	A	A	TG	GT	T	ATT	GCT	C								
																			Section 310											
	(25648)	25648	25660	25670	25680	25690	25700	25710	25720	25730																				
K12 Zwischenstück 255.328 - 290.948	(25204)	AGGAG	GAGCAG	CATCA	GCTCC	AGATG	TGCG	ACAA	AAATGC	GGGA	AGGCTT	CATCC	AGTT	TGTAG	AGTCT	GCA	CCTC	ACTG	AA	TGAG										
SARS-CoV-2 Reference Genome NC_045512.2	(21845)	ACT-	GAGAA	GTCTAA	CAATA	-ATA	AAG	GCTGG	ATT	TTGG	TACTA	CTT	TAG--	ATTC	GAGA	CC	CAG	TC	CCT	-ACT	TATG	--								
Consensus	(25648)	A	GAG	AG	T	A	T	A	A	G	G	A	T	GG	A	CTT	A	A	T	G	AGA	C	G	CCT	ACT	A	TG			
																			Section 311											
	(25731)	25731	25740	25750	25760	25770	25780	25790	25800	25813																				
K12 Zwischenstück 255.328 - 290.948	(25287)	CCGG	TGAAT	CCA	GC	CCGG	TCA	GCCAG	AAATGC	AGAC	GATGA	CC	TTC	CTGC	ACCA	GT	CGT	CGT	TCC	GAA	ACAC	GGTGT	GATAT	C						
SARS-CoV-2 Reference Genome NC_045512.2	(21921)	---	TTAAT	AA	GC	TAC-	TAA	TGTT	GTT	ATT	TAA	AGT	CTG	TGA	AT	TTC	AATTTT	--GT	AA	TGA	TCC	ATTTT	TG	GGTGT	TTAT	T				
Consensus	(25731)		T	AAT	GC		T	A	G	A	T	AG	C	TGA	TTC		GT	TG	TCC		GGTGT		T							
																			Section 312											
	(25814)	25814	25820	25830	25840	25850	25860	25870	25880	25896																				
K12 Zwischenstück 255.328 - 290.948	(25370)	T	CGTTT	AAG	CCC	CAAGT	TTG	AGT	AGAGT	CTT	TATTC	CT	GT	TA-	AAG	AA	GAC	AT	GT	TC	GGCG	AAT	GAG	AA						
SARS-CoV-2 Reference Genome NC_045512.2	(21997)	C	CACAA	AA	CA	CA	AA	AG	TTG	GAT	GGA	AAG	TGAG	TTCA	GAG	TTT	-ATTC	TA	GT	GCG	AA	TAA	TTG	CACT	TTT	G---	AAT	AT	G	TC
Consensus	(25814)	C		AA	C	C	AA	TTG	T	GA	T		TTCA	A	TTT	ATTC	GT	AA	AA	CA	TT	G		AAT	G					
																			Section 313											
	(25897)	25897	25910	25920	25930	25940	25950	25960	25979																					
K12 Zwischenstück 255.328 - 290.948	(25452)	T	ATTT	GCCT	GCCG	CCGACA	ATC	AGG	TGG	TC	G	GGG	ACAT	GGT	GA	ACAC	TTT	TT	AA	ATC	CT	TT	ACCA	TGGT	GAT	CG	ACT	TTT	T	
SARS-CoV-2 Reference Genome NC_045512.2	(22076)	TC	TCA	GCCT	TTT	CTT	ATGG	AC	TT	G	AAG	--G	AAA	ACAG	GGT	AA---	TTT	CA	AAA	ATC	T	AGG	GAAT	TT	GTGT	TTA	AGA	AT	T	
Consensus	(25897)	T	T	GCCT		A	C	G	G	G	ACA	GGT	A	TTT	AA	ATC	T					T	GTG	T	A	T	T			
																			Section 314											
	(25980)	25980	25990	26000	26010	26020	26030	26040	26050	26062																				
K12 Zwischenstück 255.328 - 290.948	(25535)	C	TTCA	GGT	CGAT	CACCCCA	CT	TTG	GTGCTG	TA	CCAC	CAC	ACCT	CG	TAGC	TGCCG	TCT	TC	TGC	ATCTCC	TCAG	CCCG	ACCC							
SARS-CoV-2 Reference Genome NC_045512.2	(22153)	-	TGAT	GGT	TAT	TTTAAAAT	A	TATTC	-----	TA	AGCA	CAC	GCT	AT	TA	AT	T----	TAG	TG	CGTG	ATCTCC	TCAG	GGTTT	---						
Consensus	(25980)		T	GGT	T		A	TTC		TA		CAC	CCT	TA	T		T	T	C	ATCTCC	TCAG									
																			Section 315											
	(26063)	26063	26070	26080	26090	26100	26110	26120	26130	26145																				
K12 Zwischenstück 255.328 - 290.948	(25618)	G	TTCTC	CC	TGA	CG	CTTG	CCT	GCGT	T	CAG	ACT	TACCC	TTT	CA	CGCTC	AG	TTTC	CGCTG	A	T	CC	ACTTT	CT	TAC	CATC				
SARS-CoV-2 Reference Genome NC_045512.2	(22222)	-	TTG	GG	CTT	TGA	AAC	CA	TTG	G	TAG	ATT	TGCC	AT	TAGG	TAT	TAA	CA	T	CACT	AG	TTTC	A----	AAC	TTT	ACTTT	G	CT	TAC	ATAG
Consensus	(26063)		TTC	C	T	A	C	TTG	G	T	A	T		T	CA		AG	TTTC		A	T	ACTT	C	T	AC					

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										Section 316													
(26146)	26146	26160	26170	26180	26190	26200	26210	26228															
K12 Zwischenstück 255.328 - 290.948 (25701)	ACCCCTTCATCGTAT	TCCGGGGCGTTGTTGCCCTGTAGTGC	CGC-GCTGACGGCTGATACCGCCA																				
SARS-CoV-2 Reference Genome NC_045512.2 (22300)	AAG---TTATTGAC	TCCGGTGATCTCTTT	CAGTTGGACAGTGGT	GCTG-CAGCTTAT	TATGTGGGTTATCT	TTCAA	CC-																
Consensus (26146)	A	TAT	A	TCCGG	G	T	T	TT	G	TGACGC	G	GCTG	C	GCT	AT	G	G	G	T	C	CC		
										Section 317													
(26229)	26229	26240	26250	26260	26270	26280	26290	26300	26311														
K12 Zwischenstück 255.328 - 290.948 (25783)	TATCCAGCGCCTCGTGCGGGCGTTCAAGGTTATAGACCGTCCGCGCAGTGGTCGAAGGCGCGCTGCAGTTACCCGCTGTCTGCG																						
SARS-CoV-2 Reference Genome NC_045512.2 (22378)	--TAGGACTTTTC	TATTAAATA	TATGAAAT	ATGAAC	CATTACAGATGCT	GTAGACTG--	TGCACTTGACC	CTCTCTCAG															
Consensus (26229)	T	C	TC	T	A	G	AT	GA	C	C	TG	T	G	AG	C	TGCA	TT	ACC	CT	TCT	G		
										Section 318													
(26312)	26312	26320	26330	26340	26350	26360	26370	26380	26394														
K12 Zwischenstück 255.328 - 290.948 (25866)	AACCAATTTTCCCTGCAGCACTTCCGCCTTCAAGCTGCGGTGAAAACGC	TCAGCTTC	CCCTGCGTCTGCGATGAT	AA	GGCCG																		
SARS-CoV-2 Reference Genome NC_045512.2 (22455)	AAACAAGTGTACGTTGAAT----	CCTTCA--	CTGTAG	AAAA	GGAA	TC	TATCAA	CT--	TCTAA	CTTTA	GAGTCC	AA	CCAAC										
Consensus (26312)	AA	CA	T	G	G	A	T	CCTTCA	CTG	G	AAA	TC	A	C	C	T	CT	GA	AA	CCAAC			
										Section 319													
(26395)	26395	26400	26410	26420	26430	26440	26450	26460	26477														
K12 Zwischenstück 255.328 - 290.948 (25949)	GAGTGTGCCCCACCCGGA	TCCAGGCGCATCAGC	CACAGCTCCAGCGCCGTCCA	GGTGTGTCGCCC	CACGGTGAGC																		
SARS-CoV-2 Reference Genome NC_045512.2 (22531)	AGAATCTATTGTTA	GATTTCTTA-----	ATATTA	CAAACTT---	GTGCC	TTTTGGTG	AA	TTTTTAA	CGCC	C	CAGATTTGC												
Consensus (26395)	GA	T	G	T	CC	A	AT	CA	A	T	G	GCC	T	GGTG	G	T	T	CGCC	C	G	T	GC	
										Section 320													
(26478)	26478	26490	26500	26510	26520	26530	26540	26550	26560														
K12 Zwischenstück 255.328 - 290.948 (26032)	CGTTAT	TCCATGGTTCATCCGGT	CCGGCAGGCCGTAA	CGCTCAA	ACACGCTTGAC	CAGCTGCTGCTGCTGCA	CGGTCT	CGCG	CCGTTCA														
SARS-CoV-2 Reference Genome NC_045512.2 (22606)	ATCTGTTT	ATGCTTG---	GAA	CAGGAAGAGAA	TCAG---	CAACTGTGTG--	CTGATTATTCTGTC	TATATAATT	CCG--	CA													
Consensus (26478)	T	T	ATG	T	G	C	GG	AG	T	A	CAA	G	TG	C	G	T	T	CTG	C	T	T	CCG	CA
										Section 321													
(26561)	26561	26570	26580	26590	26600	26610	26620	26630	26643														
K12 Zwischenstück 255.328 - 290.948 (26115)	TCGGTACAGTGC	GC	CAGGC	AC	AGGGAA	AAACGGAGAGTGGTGC	TCCAGCAGGGTG	AGCGGATGGC	AGCGTCCACCGC	CAA	AAGG												
SARS-CoV-2 Reference Genome NC_045512.2 (22679)	TCAT	T-----	TTCCAC	TTTT	A	AGTGTTA	T---GGAGTG	TC	TCC	TAG	TAAATTA	AATGAT	CTCT	GCTTTA	-----	CTAA	-----						
Consensus (26561)	TC	T	T	C	C	A	AG	G	A	GGAGTG	TC	TCC	C	T	A	GAT	C	GC	T	C	AA		
										Section 322													
(26644)	26644	26650	26660	26670	26680	26690	26700	26710	26726														
K12 Zwischenstück 255.328 - 290.948 (26198)	AAAGTGGCCCTTAA	AAATCATCTGCC	AGAG	GGTTCGG	CGCGTCTGTTC	GAACCGGC	CGGTGGC	GGGAATGCC	CGGTGAAG														
SARS-CoV-2 Reference Genome NC_045512.2 (22744)	----	TGTCTATGC	AGATT	CATTGTA	ATTAG	GGTGAT	GAA-GTC	AGA--	CAAA	TCGTCC	AGGGC	A--	AA----	CTGGA	AAG								
Consensus (26644)		TG	C	T	A	AT	CAT	TG	A	G	GGT	G	GTC		C	AA	CG	CC	GGC	AA	C	G	AAG

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										Section 323																			
	(26727)	26727	26740	26750	26760	26770	26780	26790	26809																				
K12 Zwischenstück 255.328 - 290.948	(26281)	CGCC	CGGCAGCAGGCC	ATGGCGGG	CCA	TCA	GGTTATGG	ACGGTGC	TGAAGGCG	GGCATGGTGTGCC	CTGGTCC	TCGAGCCAG																	
SARS-CoV-2 Reference Genome NC_045512.2	(22814)	ATTG	CTGATTATAATT	ATAAATTA	CCA	GAT	GATT	TACAGGCTGC	-----	GTTATAG	-----	CTTGGAAAT	TCTAACAA																
Consensus	(26727)		C G	AT	CCA	G T T T	A G TGC			G AT G	C TGG	TC A C A																	
										Section 324																			
	(26810)	26810	26820	26830	26840	26850	26860	26870	26880	26892																			
K12 Zwischenstück 255.328 - 290.948	(26364)	CGCT	TTAATCT	TGC	GGGCTCCCCAG	CGCT	TATGACGG	T	CAT	GGG	CA	TACGC	AGCAG	GGCCGT	GAT	GTC	GT	C	AGAT	TG	AGCGG	TT							
SARS-CoV-2 Reference Genome NC_045512.2	(22883)	C	--TTGATTC	TAA	GGTTG----	GTGGT	AAATA	---	TAAT	TAC	CTG	TAT--	AGATT	GTTTAG	GA	AGTC	-TAATC	TCAAACC	TT										
Consensus	(26810)	C	TT AT T	GG		G G T AT A	T AT	C TA	AG	G	GA GTC	T A	T A	TT															
										Section 325																			
	(26893)	26893	26900	26910	26920	26930	26940	26950	26960	26975																			
K12 Zwischenstück 255.328 - 290.948	(26447)	CG	GGGAATGG	TGCGG	AATGC	GCGG	GCGG	TC	CTGA	AGA	CCGG	CG	GCAC	CTT	CCT	GAGCCCAG	GC	GC	TGGAG	CCAC	TTGTAG	CCGG							
SARS-CoV-2 Reference Genome NC_045512.2	(22953)	TT	GAGAGAT	----	ATT	CAACT	GAAA	TC	TATC	AG	G	CCGG	TA	GCAC	A--	CCT	TGTAATG	GT	GT	TGAAG	GTTTT	TAA	TTG	TTAC					
Consensus	(26893)		G GA G T		A T C	G	TC		AG	CCGG	GCAC	CCT				G G TG AG		T	T	G									
										Section 326																			
	(26976)	26976	26990	27000	27010	27020	27030	27040	27058																				
K12 Zwischenstück 255.328 - 290.948	(26530)	TGG	CAGGTGA	AATGC	GAA	GC	ACGG	CA	GAGGGA	ACGG	ATG	TTCGCCCC	GTCC	TGC	GAGG	CG	AACAAACA	AACT	C	AGTAC	GT								
SARS-CoV-2 Reference Genome NC_045512.2	(23030)	TTT	CCTTTAC	AAT--	CATA	TG	TTTC	CA	ACCC--	ACTA	ATG	-----	GTGT	TG	-GTTA	CA	AAC	CAT	ACAG	AGT	-AGTA	-GT							
Consensus	(26976)	T	C	T AAT	C A G	CA		AC	ATG				GT	TG	G	C	AAC	A	ACA	A	T	AGTA	GT						
										Section 327																			
	(27059)	27059	27070	27080	27090	27100	27110	27120	27130	27141																			
K12 Zwischenstück 255.328 - 290.948	(26613)	AAT	GACAT	TGGTAT	CTCTCG	CAT	CCCAGG	GCA	TA	AGC	GACT	CCATAAACGG	GTT	CT	TATG	CCT	TAGTTGT	AAGT	GT	-CTA	CCAT								
SARS-CoV-2 Reference Genome NC_045512.2	(23098)	AC	TTTCTTTTGA	AACTTCTA	CAT	-----	GCA	CC	AGCA	ACT	-----	GTT	TG	TGGA	CCT	AAA	----	AAGT	C	TACTA	ATTT								
Consensus	(27059)	A	T C T	A CT	CAT			GCA	AGC	ACT			GTT	T	CCT	A	AAGT	T	CTA	T									
										Section 328																			
	(27142)	27142	27150	27160	27170	27180	27190	27200	27210	27224																			
K12 Zwischenstück 255.328 - 290.948	(26695)	GT	CCCCG	AACAA	GTGT	-TCA	CTAT	GTG	CCGG	A	CG	TAC	AC	CCAA	AGG	GG	AG	AGGGG	ACTG	CAC	CGAGC	ATCT	-TTTC	CCC					
SARS-CoV-2 Reference Genome NC_045512.2	(23161)	GG	TTAAA	AACAA	TGT	G	TCA	ATT	CA	ATT	CA	ATG	GT	TT	A	C	AGGC	AC	AGG	T	TTCTT	ACTG	AGT	CTA	AC	AAA	AG	TTTC	TGC
Consensus	(27142)	G		AACAA	TGT	TCA	T T	C	A	GT	A C	A	GG	G	ACTG	C	A	C	A	TTTC	C								
										Section 329																			
	(27225)	27225	27230	27240	27250	27260	27270	27280	27290	27307																			
K12 Zwischenstück 255.328 - 290.948	(26776)	CT	CG	CC--	CCT	TTGGG	AGAG	GG	CGG	GG	TGA	GGGG	CA	ATA	TG	TGAT	C	AG	CTTAAATTT	CCG	CAC	TCC	CTCTT	CC	CTT	CCG			
SARS-CoV-2 Reference Genome NC_045512.2	(23244)	CT	TT	CCAA	CAA	TTT	GG	CAGAG	A	-CATT	G	CTGA	----	CA	CTA	C	TGAT	G	CTG	T	-----	CCG	TGA	TCC	ACAGA	CA	CTT	GAG	
Consensus	(27225)	CT	CC	C	TT	GG	AGAG	C	G	TGA	CA	TA	TGAT	C	G	CCG	TCC					CCG	TCC	C	CTT	G			

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										Section 330
(27308)	27308	27320	27330	27340	27350	27360	27370	27380	27390	
K12 Zwischenstück 255.328 - 290.948 (26857)	ATT TACCTCTC	CTTG TTCTG	GGT CATAGT	ATG ATCGTT	AAA TAAACGA	ACGC TGTTCT	TATAATGTA	GAACAAAA	TGATTCAGC	
SARS-CoV-2 Reference Genome NC_045512.2 (23312)	ATT -----	CTTG A---	CATTAACA	CCATGTTCT	TTTGGTGGT	GTCAG--	TGTTATAACA	CCAGGAACAAA	TACTTC--	
Consensus (27308)	ATT	CTTG	C T A A	ATG TC TT	T	A	TGTT TA	A	GAACAAA T TTC	
										Section 331
(27391)	27391	27400	27410	27420	27430	27440	27450	27460	27473	
K12 Zwischenstück 255.328 - 290.948 (26940)	AA GGAGATCT	CATGCC	GCAGTC	CGCGT	TGTT CACGGGA	-ATCAT	TCCCCT	TGTCTCCACC	ATT TTTACCGC	-CGACGGCCAGC
SARS-CoV-2 Reference Genome NC_045512.2 (23378)	AA CCAGGTTG	CTGTTCTTTA	TCAG-GAT	GTTAAC	TGCACAGAAG	TCCC	TGTTGCT	-----	ATTCATGCAGAT	CAACTTACTCC
Consensus (27391)	AA	AG T C	C	TC G G	TGTT AC G A A	A TCCC	T CT		ATT T C G C AC	C C
										Section 332
(27474)	27474	27480	27490	27500	27510	27520	27530	27540	27556	
K12 Zwischenstück 255.328 - 290.948 (27021)	TCGATTAAGC	CGGCACCCGC	GCGCTGAT	CGACGATCT	GATCAAGCAG	GGCGTTGA	CGGCTGT	TCTTCT	GGGCAGCGG	TGGC
SARS-CoV-2 Reference Genome NC_045512.2 (23455)	TACTT--GG	CGTGTTTATT	CTACAGGT	CTTA--AT	GTTT TTC	AAACAGTG	-----	CAGGCTGTT	TAATAG	GGGC-----TGAA
Consensus (27474)	T T G CG G	C	G TC A	AT T T	AA CA G G	C G CTGTT		GGGC		TG
										Section 333
(27557)	27557	27570	27580	27590	27600	27610	27620		27639	
K12 Zwischenstück 255.328 - 290.948 (27104)	GAGTTCCTCA	AGTCGGCG	CGAAGAGC	GTAAAGC	CAT TGC	CCCGCT	TTGCTATC	GATCATGT	CGATCGTCGCGT	GCCGGTG-C
SARS-CoV-2 Reference Genome NC_045512.2 (23525)	CA TGTCACAA	-----	CTCATATGAG	TGTGA--	CATAC	CCA--	TTGGTGCAG	GTATATG	CGTAGTTATCA	GACTCAGAC
Consensus (27557)	A TC C A		C C A GAG GT A	CAT CC	TTG T	G T	CG T GT		G C G C	
										Section 334
(27640)	27640	27650	27660	27670	27680	27690	27700	27710	27722	
K12 Zwischenstück 255.328 - 290.948 (27186)	TGATCGGCAC	CGGCGG-	CAGCAA	CGCCCGGGA	AAACATC	GAACTCA	GCCAGCAC	GCGCAG	CAGGCGGGCG	GGA CGGCATCGT
SARS-CoV-2 Reference Genome NC_045512.2 (23596)	TAATCTCTCT	CGGCGGG	CAGGTAGTGTA	GCTAGTCA	ATCCATCATT	GCCTA	CAC	TAT--	GTCACCTTGGTGC	AGAA--ATTCA
Consensus (27640)	T AT C	CGGCGG	CAC A	G A C ATC A C	GCC	CAC	G	GG GC GA	AT	
										Section 335
(27723)	27723	27730	27740	27750	27760	27770	27780	27790	27805	
K12 Zwischenstück 255.328 - 290.948 (27268)	GGTGATCA	ACCCCTAC	TACTGGAA	AGTGTCT	GGAAAGCA	ACCTGAT	CCGCTATTT	CGAGCAG	GTGGCCGACAG	CGTCA
SARS-CoV-2 Reference Genome NC_045512.2 (23675)	GT TGC T	-----	TACTCTAA	TAAC TC	TATTGC	CATACCA	-CAAA	TTT TACT	ATTAGTGT	TACACAGAA--ATTCTAC
Consensus (27723)	G TG T		TACT AA	TC	GC A C	A C	T TT C A	AG	C ACAG	A CT C
										Section 336
(27806)	27806	27820	27830	27840	27850	27860	27870		27888	
K12 Zwischenstück 255.328 - 290.948 (27351)	CGGTGATGC	TCTATAAC	TT--CC	CGGCCTGA	CCGGGCA	GGATCTGAC	TCCGGCGCT	TGGTGAAA	ACCCTCGCCGA	CTCGCGCA
SARS-CoV-2 Reference Genome NC_045512.2 (23745)	CAGTG----	TCTATGAC	CAAGATCA	GATGATT	GTA	CAATGT	TACATT	TGTGGTGAT	TCAACTGA	ATGCA GCAATCTTTTGT
Consensus (27806)	C GTG	TCTAT AC	C	G GA G CA	T	T	GG G T	A	GC CT	G

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										Section 337
(27889)	27889	27900	27910	27920	27930	27940	27950	27960	27971	
K12 Zwischenstück 255.328 - 290.948 (27432)	GCAATA	-----TTATCGGCATCAAAGACACCATCGAC	TCGGTTCGCCCACCTGCGCAGCATGATCCATACC	CGTCAAAGGTGCC						
SARS-CoV-2 Reference Genome NC_045512.2 (23824)	GCAATA	TGGCAGTTTGTGTACAACTTAACCTGCTTAACTGGAAATAGCTGTTGAACAAGA-CAAAACAC	CCAAGAGTT							
Consensus (27889)	GCAATA	TT T G	CAA A ACC T	T T G	A CTG	A CA GA C A A C	C AAG G			
										Section 338
(27977)	27972	27980	27990	28000	28010	28020	28030	28040	28054	
K12 Zwischenstück 255.328 - 290.948 (27509)	CATCGGCACTTCA	CCGTGCTCTGGGGCTACGACGATCATCTGTTCAATACCC	TGCTGCTCGGCGGCGACGGGGCG	ATATCGGC						
SARS-CoV-2 Reference Genome NC_045512.2 (23906)	TTTGCAAGTCA	AACAAATTAC-----AAAC-ACCA	CAATTAAGATTTTGGTGGT	TTTAATTTTTCACAA-ATAT	TAC					
Consensus (27972)	T C CA	TCA	T T C	A AC A CA C	TT AA A	TG TG T		ATAT	C	
										Section 339
(28055)	28055	28060	28070	28080	28090	28100	28110	28120	28137	
K12 Zwischenstück 255.328 - 290.948 (27592)	GAGCGGCAACTTTG	CCGCAAGGTGTCGTGAATCTTCTGAAAGC	CTGGCGCGACGGGGACGTGGCGAAAGCGG	--CGGGTA						
SARS-CoV-2 Reference Genome NC_045512.2 (23983)	-AGATCCATCAAAA	CCAAAGCAAGAG---GTCA	TTAT-TGAA	GATCTA-CTTTT	CAACAAGTGACACTT	GCAGATGCTGG	CT			
Consensus (28055)	AG CA C	CC GCA G G	GT A T T TGAA	CT C	C A GTG C	GC G	C GG			
										Section 340
(28138)	28138	28150	28160	28170	28180	28190	28200	28210	28220	
K12 Zwischenstück 255.328 - 290.948 (27673)	TCATCAGACCTT	GCTGCAAAATTC	--GCAGATGTATCAGCTGGATACGC	CGTTTGTGAACGTGATTAAAGAGGC	GATCGTGCT					
SARS-CoV-2 Reference Genome NC_045512.2 (24060)	TCATCAAA	AAATATGTTGATTTGCC	TTGTGATATTGCTGCTAGAACCTCA	TTTGTGACAAAAAGTTTAAC	GGCCTTAC	TGTT				
Consensus (28138)	TCATCA AC	T G A T CC G	GAT T C GCT GA AC	C TTTGTG AC	A T A GGC	T TG T				
										Section 341
(28221)	28221	28230	28240	28250	28260	28270	28280	28290	28303	
K12 Zwischenstück 255.328 - 290.948 (27754)	CTGGGGTTCGT	CCTGTCTC	CACGACGTGTC	CC-GCCGCCTCGCG	CTGGACGAGCC	GCGCAAGGCGCA	GCTGA	AAACCTG		
SARS-CoV-2 Reference Genome NC_045512.2 (24143)	TTCGCA----	CCTTTGCT	CACAGATGAAATGATTGCT	CAATAACATTCTGC	ACTGTTA	GCG-----	GTACAA	CACTT		
Consensus (28221)	TGC	CCT T	CAC A G	TG GC C	C C CTG AC	GCG		G T AA C CT		
										Section 342
(28304)	28304	28310	28320	28330	28340	28350	28360	28370	28386	
K12 Zwischenstück 255.328 - 290.948 (27836)	CTGCAACA	GCTCAAGCTTTGCTG	-AGCCGGACGATACGATG	ACCATTGAGAA	AAATTTTCAC	CCCGCAGG	ACGACGC	GTTTT		
SARS-CoV-2 Reference Genome NC_045512.2 (24213)	CTG-----	GTGGACCTTTG	TGTCAGGTGCTGC	ATACAAATACCATT	TGCTATGCA	AATGG	CTTATAGG	TTTAATG	GTATTG	
Consensus (28304)	CTG	G T A CTTTG	TG AG G	AT AC A ACCATT	A	C AGG	A	GT TT		
										Section 343
(28387)	28387	28400	28410	28420	28430	28440	28450		28469	
K12 Zwischenstück 255.328 - 290.948 (27917)	-ATGCGGTGATCA	CCCAAGCGGGGGGGCGCA	AGGGCGCTCTGCC	GCTGA	ACCCG	CAGATGCTG	AAATCTCC	AGCGG	CA	
SARS-CoV-2 Reference Genome NC_045512.2 (24291)	GAGTTACACA	GAATGTTCTATAGAA	CAAAATTGAT	TGCCAACC	AATTTAATAG	TGCTAT	TGGCAA	AATCA	AGACTCA	
Consensus (28387)	A	A A C C	G G C A	TGCC	A	TGCT	TGG AA	T C AG	CA	

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										Section 344
(28470)	28470	28480	28490	28500	28510	28520	28530	28540	28552	
K12 Zwischenstück 255.328 - 290.948 (27998)	ACC	TG	TTC	GG	CA	TG	AC	G	CA	---
SARS-CoV-2 Reference Genome NC_045512.2 (24374)	CTT	TC	TTC	CA	CA	GA	AG	TG	CA	CTT
Consensus (28470)	T	TTC	CA	A	G	CA	G	A	C	A
										Section 345
(28553)	28553	28560	28570	28580	28590	28600	28610	28620	28635	
K12 Zwischenstück 255.328 - 290.948 (28070)	--	TTA	T	CGG	CA	CT	CAG	GG	CG	G
SARS-CoV-2 Reference Genome NC_045512.2 (24457)	AC	TTA	G	CTC	CA	AT	TTT	GG	TG	CA
Consensus (28553)		TTA	C	CA	T		GG	G	AT	C
										Section 346
(28636)	28636	28650	28660	28670	28680	28690	28700	28718		
K12 Zwischenstück 255.328 - 290.948 (28148)	TC	GG	CA	TG	CA	GAT	G	CAGGC	GG	CGGCG
SARS-CoV-2 Reference Genome NC_045512.2 (24540)	TT	GAT	AG	TT	GAT	CA	CAGGC	AG	ACTTC	AA
Consensus (28636)	T	G	A	G	GAT		CAGGC	G		AA
										Section 347
(28719)	28719	28730	28740	28750	28760	28770	28780	28790	28801	
K12 Zwischenstück 255.328 - 290.948 (28230)	CGA	CG	GGCG	--	CTC	CG	AG	GGC	CAC	GC
SARS-CoV-2 Reference Genome NC_045512.2 (24621)	CTT	CT	G	CTAAT	CT	TGG	CT	ACTA	AA	AT
Consensus (28719)	C	C	G		CT	GC	G		A	GT
										Section 348
(28802)	28802	28810	28820	28830	28840	28850	28860	28870	28884	
K12 Zwischenstück 255.328 - 290.948 (28311)	GATC	CGC	TC	--	CCT	G	CG	GA	GC	GG
SARS-CoV-2 Reference Genome NC_045512.2 (24704)	CATC	TTA	TGT	CCT	TC	CT	CA	GT	AG	CACCT
Consensus (28802)	ATC	T	CCT	CC	C	G	C	G	T	AT
										Section 349
(28885)	28885	28890	28900	28910	28920	28930	28940	28950	28967	
K12 Zwischenstück 255.328 - 290.948 (28393)	GC	CGC	GA	TGC	AC	GA	CT	GC	GG	ACT
SARS-CoV-2 Reference Genome NC_045512.2 (24771)	CA	CAA	GA	AA	GA	AG	TT	CA	GA	ACT
Consensus (28885)	C	GA	A	AC	T	C	ACT	TC	TGCC	G
										Section 350
(28968)	28968	28980	28990	29000	29010	29020	29030	29040	29050	
K12 Zwischenstück 255.328 - 290.948 (28476)	G	C	A	CCAT	CGG	C	G	G	TTTT	CGCCA
SARS-CoV-2 Reference Genome NC_045512.2 (24851)	T	CAA	TGG	CACA	CA	TG	TTTT	GTAAC	AC	AA
Consensus (28968)	CA	A		C	C	G	TTTT	AC	A	G

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										Section 351
(29051)	29051	29060	29070	29080	29090	29100	29110	29120	29133	
K12 Zwischenstück 255.328 - 290.948 (28559)	CGGGGGGGGGTGTCAAGTTCCTCGGCACGGCGGGCACC	TGCGAGGTGGTTCGCGGAGGCGCTGGGTCTGGCGCTGCCGCACTCC								
SARS-CoV-2 Reference Genome NC_045512.2 (24912)	CAGACAAACACATTGTGT--CTGGTAACGTGTATGTTGTAAATAGGAATTGTCAACAAACACAGTTTATGATCTTT--GCAACCT									
Consensus (29051)	C G C C T T GT CT G AC G G T AGG T C C C G T TG CT GCA C									
										Section 352
(29134)	29134	29140	29150	29160	29170	29180	29190	29200	29216	
K12 Zwischenstück 255.328 - 290.948 (28642)	GCGCTGCGCGCTCCGGGCAGGCGGTGTGGCTGGAGATCGCCCCGCCAGTCGGCGCGCGCGGTGAGCGAGCTGGATAGCCGCGG									
SARS-CoV-2 Reference Genome NC_045512.2 (24992)	GAATTAGACTCATTCAGGAGGAGTTA--GATAAATATTTTAAG--AATCATAACATCAC---CAG--ATGTTGATTTAGGTGA									
Consensus (29134)	G T G C T C G AGG G T G T A AT G A TC C C CAG A T GAT G G									
										Section 353
(29217)	29217	29230	29240	29250	29260	29270	29280	29299		
K12 Zwischenstück 255.328 - 290.948 (28725)	CATCACACGCGGGATATCTCTCCGATAAAGCCATCGAAAAACCGATGGTGATCCACGCGGCGGTTCGGCGGCTCCACC AATT									
SARS-CoV-2 Reference Genome NC_045512.2 (25066)	CATCTCTG--GCATTA--ATGCT--TCAGTTGTAAAACATTCAAAAAGAAATTGACCGCCCAATGAGGTTG-----CCAAG AATT									
Consensus (29217)	CATC C GC A AT CT TC G T A CAT AAAA G AT G CC C G G T G CCA AATT									
										Section 354
(29300)	29300	29310	29320	29330	29340	29350	29360	29370	29382	
K12 Zwischenstück 255.328 - 290.948 (28808)	TACTGCTGCAACATTCGGGCATCGGCCACGCGGCGGGGCTGCACGATCCCGGACGTTGAGCACTGGACGCGCATCAACC GTAAA									
SARS-CoV-2 Reference Genome NC_045512.2 (25140)	TAAA--TGAACTCTCATCGATCTCCAAGAACTTGGAAAGTATGAGC---AGTATATAAAATGGCCATGTGTAATTTGCTA									
Consensus (29300)	TA TG A T C C ATC CC A GG G A GA C A T A TGG C G CA G A									
										Section 355
(29383)	29383	29390	29400	29410	29420	29430	29440	29450	29465	
K12 Zwischenstück 255.328 - 290.948 (28891)	GTGCCGCGTCTGGTGAAGGTGCTGCACACGGGCCGGACTATCACCCGACCGTGGCGGCCTTCTCGCGGCGGGCGGTGCGGA									
SARS-CoV-2 Reference Genome NC_045512.2 (25217)	GGTTT---TATAGCTGGCTTGATTGCCATAGTAATGGT-----GACAAATTAT--GCTTTGCTGTATGACCAAGTTGCTGTA									
Consensus (29383)	G T T G GC TG T CCA G GG GAC T GC TT CT G C TGC G A									
										Section 356
(29466)	29466	29480	29490	29500	29510	29520	29530	29548		
K12 Zwischenstück 255.328 - 290.948 (28974)	GGTGATGCTCCACCTGCGCGACCTCGGCGTGTGTCATCTGGACGCCATGACCGTGACCGGCAGACGGTGGCGAGAACCTTG									
SARS-CoV-2 Reference Genome NC_045512.2 (25287)	GTGT--CTCAA-----GGGCTGTGTTCTTGTGTGATCTGCTGCAAAATTTGATGAA--GAC--GACTCTGAGCAGTGC--TC									
Consensus (29466)	G TG CTC A G G T G CT TG ATC G GC A TGA G C GAC TG GC AG C T									
										Section 357
(29549)	29549	29560	29570	29580	29590	29600	29610	29620	29631	
K12 Zwischenstück 255.328 - 290.948 (29057)	AATGGTGGCAGGCGTCCGAGCGCGGG--CGCGCTTCCGCCAGTGGCTTGCAGAGCAGGACGGCGTAGAGCCGGATGACGTGAT									
SARS-CoV-2 Reference Genome NC_045512.2 (25358)	AAAGGAGTCAAAATTAATTAAGATAAAAGAACTTATGATTGTTTATGAGAAATCTTACAAATTGGAACGTGAACCTTTGAA									
Consensus (29549)	AA GG G CA C C C CG CTT G TG T G GA T GA C G A A									

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										Section 358
(29632)	29632	29640	29650	29660	29670	29680	29690	29700	29714	
K12 Zwischenstück 255.328 - 290.948 (29139)	CCTGCCGCGG--AGAAAGGCAAAAGGAAAGGGCTGACCTCGACGGTCTGCTTCCCGACGGGCAACATCGCTCCGGAAGGTTC									
SARS-CoV-2 Reference Genome NC_045512.2 (25441)	CAAGGTGAAATCAAGGATGCTACTCTTTCAGATTGTGT-TCGCGCTACTGCAACGATACGATACAAGC-CTCCTACTCCCTTTC									
Consensus (29632)	C G G	AG A GC A	C AG T	TCG	CTGC	C	AC G A A C	CTC	TTC	
										Section 359
(29715)	29715	29720	29730	29740	29750	29760	29770	29780	29797	
K12 Zwischenstück 255.328 - 290.948 (29139)	GGTGATCAAGGCCACGGCGATCGACCGGTCTGGTGGTGGGCGAGAAGTGGCTATACCAACACACCGGCCGGGTGCGGGTGTGTTTG									
SARS-CoV-2 Reference Genome NC_045512.2 (25522)	GGATGGCTTATTGTGGCGTTGCACCTTCTGCTGTTTTTC--AGAGCGCTTCCAAAATCATAACCCCTCAAAAAGAGATGCGCAA									
Consensus (29715)	GG C	GGCG T	AC T G TG T	C AGA GC T	A A CA A C	C	G TG	TTTG		
										Section 360
(29798)	29798	29810	29820	29830	29840	29850	29860	29870	29880	
K12 Zwischenstück 255.328 - 290.948 (29303)	TCTCGAAGCGG---AGGCGATCAAGGCGATCAAGCGGGAAGAGATTGTGCAGGCGGATATCATGGTGGTGTATCGGCGGCGGG									
SARS-CoV-2 Reference Genome NC_045512.2 (25603)	-CTAGCACTCTCAAGGGTGTTCACCTTTGTTT-----GCAACTTGCTGTGTGTTGTTTGTACAGTTTACTCA-CACCTTTTTC									
Consensus (29798)	CT G A C C	GG G TCA	G T	G AA	TGT	G	TA CA T T A C C	G		
										Section 361
(29881)	29881	29890	29900	29910	29920	29930	29940	29950	29963	
K12 Zwischenstück 255.328 - 290.948 (29383)	CCGTCCGCAACGGGATGGAAGAGACCTACAGCTCACCCTCCGCGCTAAAGCATATCTCTGTGGGCA-AGACGGTGTCT-GCTC									
SARS-CoV-2 Reference Genome NC_045512.2 (25679)	TGGTT-GCTGCTGGGCTTGAAGCCCTTTCTCTATCTTTATGCTTTAGTCTACTTCTTGCAGAGTATAAACCTTGTAAAGAAAT									
Consensus (29881)	CGT G C GGC T GAAG C T C				T GC TA	A TCT G G G A A AC	TGT G			
										Section 362
(29964)	29964	29970	29980	29990	30000	30010	30020	30030	30046	
K12 Zwischenstück 255.328 - 290.948 (29464)	ATCACCGATGCG--CGCTTCTG-GGCGGTGCTG--ACGGGCGCTGCTTCCGCCACGTGTGCGCGGAGGCGCTGGCGGGCGGG									
SARS-CoV-2 Reference Genome NC_045512.2 (25761)	AATAATGAGGCTTTGGCTTGTGGAAATGCGGTTCAAAAAACCATTACTTTATGATGCGCAACTATTTTCTTTGCTGGCATA									
Consensus (29964)	A A GA GC	GCTT C GG	TG CG C	CC	T C	TG C C		T GC GGC		
										Section 363
(30047)	30047	30060	30070	30080	30090	30100	30110	30129		
K12 Zwischenstück 255.328 - 290.948 (29542)	CCGATTGGAAG-CTGCGCGATAAG-ACAATCATCGAGATTGCGGTGGATCGTCTGACGTTAACTGG-----CAGCGTGAAC									
SARS-CoV-2 Reference Genome NC_045512.2 (25844)	CTAATTGTTACGACTATTGTATACCTTACAATAGTGTAACCTCT-TCAATTGTCATTACTTCAGGTGATGGCAACAAGTCC									
Consensus (30047)	C ATTG A G CT	ATA C ACA A G A T C	T AT GTC T AC T A TG	CA C G C						
										Section 364
(30130)	30130	30140	30150	30160	30170	30180	30190	30200	30212	
K12 Zwischenstück 255.328 - 290.948 (29617)	TTCACTCGGCACCGCGGACAAACC-----CGCTGACGCGGGAAGAGGGCGCGCGCAGAGCTGGCG-CGGCGGCAGACGCACCCG									
SARS-CoV-2 Reference Genome NC_045512.2 (25926)	TATTCTGAAACAT--GACTACAGATTGGTGGTTATACCTGAAAATGGGAATCTGAGAGTAAAGACTGTGTTGTATTACACAG									
Consensus (30130)	T TC G AC	GAC ACC	G T A C G AA A GG	C GAG	G C G G	A	C G			

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			Section 365																																																	
			(30213)	30213	30220	30230	30240	30250	30260	30270	30280	30295																																								
K12 Zwischenstück 255.328 - 290.948 (29692)			GAC	CTG	CAC	GC	C	-	AC	G	ACT	TTTT	GC	CG	GAC	GAC	AC	C	GGC	TG	T	GGG	C	-	GG	C	ACTG	CA	GT	CG	----	GT	G	AG	CG	CG	CAC	CT														
SARS-CoV-2 Reference Genome NC_045512.2 (26007)			TTA	CTT	CAC	TT	C	AG	AC	T	T	ACCA	GC	T	G	TAC	TCA	ACT	C	AA	TG	AG	T	A	G	A	C	ACTG	GT	GT	G	A	AC	AT	GT	T	AC	CTT	CTT	CAT	CT											
Consensus (30213)				CT	CAC	C		AC	A	T		GC	G	AC		AC	C		TG	G		C	G	C	ACTG		GT	G			GT	A	C		C	CA	CT															
			Section 366																																																	
			(30296)	30296	30310	30320	30330	30340	30350	30360	30378																																									
K12 Zwischenstück 255.328 - 290.948 (29768)			GG	AA	AGG	CTG	T	AT	T	ATGA	C	A	C	G	A	T	A	T	C	G	A	GGT	A	A	T	T	A	C	G	C	G	T	A	A	A	A	A	G	C	G	C	T	A	A	T	T	A	A				
SARS-CoV-2 Reference Genome NC_045512.2 (26090)			AC	AA	T	AAAA	T	G	T	T	ATGA	G	C	T	G	A	G	A	A	C	A	T	G	T	C	A	---	A	A	T	T	C	A	C	A	A	T	C	G	A	T	T	A	A	T	T	A	A				
Consensus (30296)				AA			T	TT		ATGA		C	GA		AA		T	TC		A		A	A	T	T																											
			Section 367																																																	
			(30379)	30379	30390	30400	30410	30420	30430	30440	30450	30461																																								
K12 Zwischenstück 255.328 - 290.948 (29851)			G	A	G	A	T	A	A	A	C	C	G	T	C	G	A	T	A	T	T	T	C	C	G	A	G	G	C	T	T	G	T	T	T	T	G	A	A	T	T	A	T	A	A	T	A	A				
SARS-CoV-2 Reference Genome NC_045512.2 (26168)			T	A	-	A	T	G	G	A	A	C	C	A	A	T	T	A	T	G	A	T	G	A	T	G	A	C	C	G	A	G	A	T	T	A	A	C	A	A	T	T	A	A	T	A	A					
Consensus (30379)				A	AT		A	ACC		T		GA		A			CG		G	AC		CT		TG		TTT	G	AA						AA		T	A	A	T	G		AT										
			Section 368																																																	
			(30462)	30462	30470	30480	30490	30500	30510	30520	30530	30544																																								
K12 Zwischenstück 255.328 - 290.948 (29934)			T	A	-	T	C	G	T	T	G	C	G	T	C	A	A	A	A	G	C	A	A	A	T	A	C	G	T	A	A	T	T	G	A	A	T	A	A	A	A	A	A	A	A	A	A	A				
SARS-CoV-2 Reference Genome NC_045512.2 (26248)			T	A	-	T	C	G	T	T	G	C	G	T	C	A	A	A	A	G	C	A	A	A	T	A	C	G	T	A	A	T	T	G	A	A	T	A	A	A	A	A	A	A	A	A	A					
Consensus (30462)				TA	TC	TT	G		TC		AA	AG		A		TA	CGT		A	T	G		A	A	T	A		C	TT	CT	G		TT	T	G	AT																
			Section 369																																																	
			(30545)	30545	30550	30560	30570	30580	30590	30600	30610	30627																																								
K12 Zwischenstück 255.328 - 290.948 (30011)			T	T	A	C	A	C	T	-	-	C	C	A	T	A	A	C	A	G	A	T	T	G	T	A	A	T	T	C	T	G	A	T	G	A	C	G	A	A	T	A	A	C								
SARS-CoV-2 Reference Genome NC_045512.2 (26330)			T	T	A	C	A	C	T	A	G	C	C	A	T	A	A	C	A	G	A	T	T	G	T	A	A	T	T	C	T	G	A	T	G	A	C	G	A	A	T	A	A	C								
Consensus (30545)				TT	A	C	A	C	T			CC	A	T		AC		G	T		ATT		G		T	C	TA		G	TG	A	AT	TG	T	ACG		A	T		C	TG	AA	AC									
			Section 370																																																	
			(30628)	30628	30640	30650	30660	30670	30680	30690	30700	30710																																								
K12 Zwischenstück 255.328 - 290.948 (30092)			A	A	A	A	T	T	G	C	T	A	C	G	G	C	T	G	A	G	A	C	C	C	G	C	T	G	A	C	C	G	T	A	A	T	T	T	C	T	A	C	A	A	T	T	A	C	A			
SARS-CoV-2 Reference Genome NC_045512.2 (26405)			C	T	T	C	T	T	-	T	A	C	G	T	T	T	A	C	T	G	T	G	T	T	A	A	A	A	T	C	T	G	T	T	A	A	T	C	T	G	T	T	A	C	T	A	C	A				
Consensus (30628)				TT		T	ACG			C		T	G			A		CTG				TT		T	C	T	G		AG		C		G	AT	T	T		T	G		CTA							A				
			Section 371																																																	
			(30711)	30711	30720	30730	30740	30750	30760	30770	30780	30793																																								
K12 Zwischenstück 255.328 - 290.948 (30171)			C	C	G	A	C	G	T	C	T	T	C	G	C	C	G	G	A	T	T	A	T	G	G	C	A	C	G	C	T	G	T	C	C	C	G	C	G	T	A	C	C	G	A	C	C	G	T	G		
SARS-CoV-2 Reference Genome NC_045512.2 (26473)			A	C	G	A	C	T	A	A	A	T	A	T	T	A	T	T	T	C	T	G	T	T	G	G	A	C	T	T	A	A	T	T	A	A	T	T	A	A	T	T	A	A	T	T	A	C	C	G	T	G
Consensus (30711)				CGA		T						T	T		G				T		T	T	G	G	AC		T		TTTT	G	C																					

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										Section 372
(30794)	30794	30800	30810	30820	30830	30840	30850	30860	30876	
K12 Zwischenstück 255.328 - 290.948 (30254)	ATGGGGCTG	CTGGTAGACCGGAC	CCGACGCGG	CACGCGG	CCAGT	TCCGCCCG	TTCCT	GCTGTGGGGGGCC	ATCCGTTTGGCAT	
SARS-CoV-2 Reference Genome NC_045512.2 (26554)	AAGAG	CTTAAAGGCTC	CTTGAAAC	AATGGA	CC	TAGT	TAAATAGGT	TTCCT	ATTCCTTACAT	
Consensus (30794)	A G G	CT A A C C C	G A C	G A	CC	T	TTCCT		AT CC T C AT	
										Section 373
(30877)	30877	30890	30900	30910	30920	30930	30940	30959		
K12 Zwischenstück 255.328 - 290.948 (30337)	CGTCTGCGGTGCTGAC	CTTCTACACGCGG	GACTTCTTCGCG	ACAGG	GCAAGAT	TCACTTACGCC	TGCGTGACC	TACATTCTCCTGA		
SARS-CoV-2 Reference Genome NC_045512.2 (26614)	GGATT	GTCTTCTACAA	ATTTGCTAT	GGCAACAGG	AATAG	TTTTT	TGTATA	TAATTAAGTATATTTCCTCT		
Consensus (30877)	G T GT	CTTCTACA	G C T T C	ACAGG	AG T T T	T	T A	TA ATT TCCT		
										Section 374
(30960)	30960	30970	30980	30990	31000	31010	31020	31030	31042	
K12 Zwischenstück 255.328 - 290.948 (30420)	CCCTGGTCTA	CACTTCTGTTAAC	GTGCGGTACT	TGCGGCAT	TGCGGGCG	TATCACC	CGGACCCG	AAAGAG	CGTCACGCC	
SARS-CoV-2 Reference Genome NC_045512.2 (26686)	GGCTGTTATGGC	CAGTAAC	CTTAGGCTG	TTTGTGCT	TGCTGT	TTA	CAGAAT	AAATTG	GATCACCGGT	
Consensus (30960)	CTG T T	CA	C TTA C TG	T TG GC	TGC G	T A	C GA	AAA G	TCAC	
										Section 375
(31043)	31043	31050	31060	31070	31080	31090	31100	31110	31125	
K12 Zwischenstück 255.328 - 290.948 (30501)	TGCAGTCTCTGG	CGCTTCTTCT	GTGGCGGCG	CGGGCTCG	CTCGCTA	TCAGCGG	CATCGCGC	TGCGCTGGT	GAGCATCATCG	
SARS-CoV-2 Reference Genome NC_045512.2 (26757)	GGAATTGCTAT	CGCAATGG	CTGTCTT	GTA	GGCTTGAT	TGTTG	TCAGCTACT	TCAT	TGCTTTTGCG	
Consensus (31043)	G A T CT	CGC	C TG C	G GGCT G T	TCAGC	C TC	TGC	CT	GA T CG	
										Section 376
(31126)	31126	31140	31150	31160	31170	31180	31190	31208		
K12 Zwischenstück 255.328 - 290.948 (30583)	CAAAGGGGACGAGCA	GGTGGGCTACT	TGCGCGC	ATGTGCGT	GCTGGG	GCTGAG	CGGCTGG	TGCTGC	TCTACGTCTGCTT	
SARS-CoV-2 Reference Genome NC_045512.2 (26836)	GTACGCGTTCCATGT	GGTCATTCA	ATCCAGAACTA	ACATTCTT	CTCAAC	GTCGCACT	TCATGGCA	CTAT	TCTGACCAGACCG	
Consensus (31126)	A G G C A	GGT	A T C G	C A T C T	G	C C TGG	CT	TCT	C	
										Section 377
(31209)	31209	31220	31230	31240	31250	31260	31270	31280	31291	
K12 Zwischenstück 255.328 - 290.948 (30664)	CTTACAGACCA	AAGAGCGCTAC	ACTTTGAGGT	GACGCGGGCTCG	TGCGTGG	CGAAAG	ACCTTAAGC	TGCTGGG	CAACA	
SARS-CoV-2 Reference Genome NC_045512.2 (26919)	CTTCTAGA	AAGTG	ACTCGTAATC	GGAGCTGTGAT	CTTCTGG	ACATCTT	CGTAT	TGCTGG	CAACA	
Consensus (31209)	CTTC	GA	AAG G	A CT A	G AGC G G TC T	GTGG	A A CTT	T	TGCTGG CA CA	
										Section 378
(31292)	31292	31300	31310	31320	31330	31340	31350	31360	31374	
K12 Zwischenstück 255.328 - 290.948 (30747)	GCCAGTGGCGCATCATG	TGCGCGT	TCAAGATGA	TGGGACCTGCTC	CAACGT	GGTGCGCGG	CGGGGCG	ACGCTCTACT	TTCG	
SARS-CoV-2 Reference Genome NC_045512.2 (26987)	TCTAGGACGC	TGTGACA	TCAAG	TGCTA	AAGAAAT	CACTGTGCT	ATCA	CGA	ACGCTTCTTATTA	
Consensus (31292)	C AG G CGC	TG G	TCAAG	TG C A	CA	GT G T C	CG	ACGCT T T T		

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										Section 379
(31375)	31375	31380	31390	31400	31410	31420	31430	31440	31457	
K12 Zwischenstück 255.328 - 290.948 (30828)	TG	AAATACGTGAT	TGGATCA	CCGGAGTTGG	CAGCCAGT	TTTTACTTT	ACGGCAGCCT	CGCCACCATGTT	CGGCTCGCTT	TGC
SARS-CoV-2 Reference Genome NC_045512.2 (27059)	CA	AAATGGGAGCT	TCGCAGGT	GTAGCAGGT	GACTCAGG	TTTTCTGCT	GCATA-CAGT	CGCTACAGGAT	TGGCAA	CTATAAAATTA
Consensus (31375)		AA T G G T	C G AG	GG GAC CAG	TTTT CT	A	CAG C C	CA AT	C CT	T
										Section 380
(31458)	31458	31470	31480	31490	31500	31510	31520	31530	31540	
K12 Zwischenstück 255.328 - 290.948 (30911)	TC	CTCAGCG	CGTGCTGG	CCGGTTC	GACCGCGT	CAACGCGC	TTCAAGTG	GATCAT	TCGTCC	GCTGCTGAT
SARS-CoV-2 Reference Genome NC_045512.2 (27141)	AA	CACAGAC	CCATTCCAG	TAGCAGT	GACAAATAT	TGC-----	TTTGCTTG	TACAGT	TAAGTG	CAACAGATGTTTCA
Consensus (31458)		C CA CC	G GC	GAC	T C	TT	TG A	T	G C AC	TCA C G TGA
										Section 381
(31541)	31541	31550	31560	31570	31580	31590	31600	31610	31623	
K12 Zwischenstück 255.328 - 290.948 (30994)	TTTC	--GT	CACCCCG	GGGAGC	ACATCG	GCTCAT	TTTGTG	CCCTCA	ACATCCTG	TTCC
SARS-CoV-2 Reference Genome NC_045512.2 (27220)	TTTC	AGGT	TACTATA	GCAGAG	-ATAT	TACTAATTA	TTATG	AGGAC	TTTTAAAGT	TTCC
Consensus (31541)	TTTC	GT AC	GC GAG A	AT C	TT TG	C	TTCC	TT G	T TT AT	CA CA
										Section 382
(31624)	31624	31630	31640	31650	31660	31670	31680	31690	31706	
K12 Zwischenstück 255.328 - 290.948 (31074)	CG	CTGCAG	TGGCTG	ATGGCT	TTCTG	-ACGT	GGTGG	ACTAC	GAGGAG	AGCCG
SARS-CoV-2 Reference Genome NC_045512.2 (27302)	AC	CT-CA	-TAATTA	AAAAAT	TTATCT	AAAGT	CACATA	ACTGA	GAATAA	TATTTCAAT
Consensus (31624)		CT CA T	T A	TT T	A GT	ACT	GA A A	C	T G G	A G GC
										Section 383
(31707)	31707	31720	31730	31740	31750	31760	31770	31789		
K12 Zwischenstück 255.328 - 290.948 (31156)	C	ACCTAC	CTGTTC	AGCCT	GAAGATT	GGCCT	GGCGAT	TGGCGG	GGCGG	TGGTGGG
SARS-CoV-2 Reference Genome NC_045512.2 (27378)	G	ATTGAT	TAAACG	AACTGA	GAAGATT	ATTCT	-----	TTTCTT	GGCAC	TGATAACA
Consensus (31707)	A	A	A C	TGAA	ATT	CT	T	C	GGC	TG T
										Section 384
(31790)	31790	31800	31810	31820	31830	31840	31850	31860	31872	
K12 Zwischenstück 255.328 - 290.948 (31238)	G	CCAGCA	GCAGCG	TGCAG	CCGGTT	GAGGT	GCT-CA	CCACCAT	CAAAA	TTCTGTT
SARS-CoV-2 Reference Genome NC_045512.2 (27449)	A	CTACCA	AGAGTGT	T-----	TAGAGGT	ACAA	CAGTAC	TTT	TTAAAA	GAACCTT
Consensus (31790)		C A CA	AG GTG	T	GAGGT C	CA	AC	T AAAA	TT	C T
										Section 385
(31873)	31873	31880	31890	31900	31910	31920	31930	31940	31955	
K12 Zwischenstück 255.328 - 290.948 (31320)	GCA	TGTTCA	TGCTG	TCGCTCTA	CAAGCT	TCACCG	ATGCC	CGCGTG	GAGGC	CATCAGC
SARS-CoV-2 Reference Genome NC_045512.2 (27518)	GCA	A-TTCA	CCATTTCA	TC-CTCTA	GCTGATA	ACAAAT	TTTGAC	-TGACTTG	CTTTAGC	ACTCAAT
Consensus (31873)	GCA	TTCA	CAT	TC CTCTA	G T AC	AT	C C TG	C T AGC	CA	T G TT

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										Section 386
(31956)	31956	31970	31980	31990	32000	32010	32020			32038
K12 Zwischenstück 255.328 - 290.948 (31399)	CGCGGCGCAGGGCGAGGCGCTTCCCGACGCGGACAGCGGCATCCCATTAACCGG-----AGGCAATATGGAATACTCACTAAC									
SARS-CoV-2 Reference Genome NC_045512.2 (27598)	GA CGGCGTAAAAACAGCTCTACAGTTACGT-GCAGATCAGTTTCACCTAAACGTGTTTCATCAGACAAAGAGGAAGTTCAGAAC									
Consensus (31956)	CGGCGCA C G C T ACG GC A A C G TC C T AAC G AG CAA A G A TCA AAC									
										Section 387
(32039)	32039	32050	32060	32070	32080	32090	32100	32110	32121	
K12 Zwischenstück 255.328 - 290.948 (31477)	CCGATACTGCAACGGGCTTCAACCCGGACCGTCCCTGTGCGCAGGCGAGGACTACTACATCGCCACCTCGACCTTCGAGTG									
SARS-CoV-2 Reference Genome NC_045512.2 (27680)	TT--TACTGTCGAATTTT-----CTTATTGTTGCGCAATAGTGTTTATAAC-ACCTTGCTTC----ACACTCAAAAG									
Consensus (32039)	TACTC CC TT C T TGC GC A G G A AC AC T GC C AC TC A G									
										Section 388
(32122)	32122	32130	32140	32150	32160	32170	32180	32190	32204	
K12 Zwischenstück 255.328 - 290.948 (31560)	GTTCCCGGCGGTGCGCATCTACCACTCCCGTGACCTGAAAAAACGGTCTGCTGGTTCAGCACCCCGTTGGACCCGCGTGTTCGATG									
SARS-CoV-2 Reference Genome NC_045512.2 (27747)	AAAGACAGAAATGATTGAACCTTTCTAATAAT-TGACCTCTAT--TTGT-GCTTTTTCAGCTTTCTGCTATTCCCTTGTTCATAT									
Consensus (32122)	C G A CT CA T TGAC T A T GT GCT T AGC C G T CC GT T AT									
										Section 389
(32205)	32205	32210	32220	32230	32240	32250	32260	32270	32287	
K12 Zwischenstück 255.328 - 290.948 (31642)	CTGGACATGAAGGGCAACCCGGAAGCTCGGCGGCAATCTGGGGCGCCGTGCTGAGCTACGCCGACGGTAAATTCGGCTGCTCTA									
SARS-CoV-2 Reference Genome NC_045512.2 (27825)	ATGCTTATATAT---CTTTTGTTCTC-----ACTTGAACT---TGCAAGATC-----ATAATGAACTTGTACGCTA									
Consensus (32205)	TG AT A C G CTC A TG C TGC GA C A T AA TG C CTA									
										Section 390
(32288)	32288	32300	32310	32320	32330	32340	32350	32360	32370	
K12 Zwischenstück 255.328 - 290.948 (31725)	CACCGACGTGAAGATTGTTCGACTCGCGGTGGAAACCGGCGCAACTTCCTCGTCAACCGCGCCCTCCATCGAGGGGCAATGGA									
SARS-CoV-2 Reference Genome NC_045512.2 (27887)	AACGAAACATGAATTTCTTGTTTCTTCTAGGAATCAT---CACAACTGTAGCTGCATTTTACCAAGAATGTAGTTTACAGTCA									
Consensus (32288)	AC AC TGAA TT T G T C GGAA A C CAACT C CA C CC AT AG CA A									
										Section 391
(32371)	32371	32380	32390	32400	32410	32420	32430	32440	32453	
K12 Zwischenstück 255.328 - 290.948 (31808)	GCGAGCCAATCCGATGGGCAACGGCGGGTTTGACCCGTCCTGTTTCACGACGACGATGGCCGCAAATACATATCTACCGC									
SARS-CoV-2 Reference Genome NC_045512.2 (27966)	TGTACTCAACATCAACCAT--ATGTAGTTGATGACCCGTCCTATTTCACCTTCTATTCT-----AAATGGTATAT-----									
Consensus (32371)	A CAA C A A G G TGACCCGT C T CAC C A T AAAT TATAT									
										Section 392
(32454)	32454	32460	32470	32480	32490	32500	32510	32520	32536	
K12 Zwischenstück 255.328 - 290.948 (31891)	CCGTGGGGGCCGCGCAACCAAGCAACCGGCACAAACACCATCTGTGT-TACAGGCGTTTGACCCGCGAGACCGGCAAGCTCTCGC									
SARS-CoV-2 Reference Genome NC_045512.2 (28034)	---TAGAGTAGAGGCTAGAAATCAGGAGCTTTAAATTGATTTGTGCGTGGATGAGGCTGGTTCTAAATCACCATTTCAGTACA									
Consensus (32454)	T G G G GC A A A CA C C AA AT GTG T A G G TG C A C CA C T									

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			Section 393									
	(32537)	32537	32550	32560	32570	32580	32590	32600	32619			
K12 Zwischenstück 255.328 - 290.948 (31973)	C	CGA	GCG	CAAA	ACGCT	GT	TTA	CCGG	CAC	CCGCT	CT	GC
SARS-CoV-2 Reference Genome NC_045512.2 (28114)	T	CGA	TAT	CGGT	AAT	TAT	TAC	AGTTT	CT	GTTTAC	CT	TT
Consensus (32537)		C	G	A	T	T	A	C	G	CT	TACA	AA
			Section 394									
	(32620)	32620	32630	32640	32650	32660	32670	32680	32690	32702		
K12 Zwischenstück 255.328 - 290.948 (32054)	A	CT	GAT	TGG	CCGC	GG	AGG	GGC	GG	ACCAGCT	AC	AG
SARS-CoV-2 Reference Genome NC_045512.2 (28193)	G	CG	TTG	TT	CGTT	TAT	GAA	GAC	TTTTT	TAG	AGT	AT
Consensus (32620)		C	T	T	C	C	A	G	G	C	A	A
			Section 395									
	(32703)	32703	32710	32720	32730	32740	32750	32760	32770	32785		
K12 Zwischenstück 255.328 - 290.948 (32134)	G	AG	CTG	CACCC	GGAC	GTAA	GAT	GAT	AC	AGCTG	GC	ACC
SARS-CoV-2 Reference Genome NC_045512.2 (28275)	T	GT	CTG	ATAAT	GGAC	C---	CAAA	AT	CAG	GAAAT	GC	ACC
Consensus (32703)			CTG		GGAC	C	A	AT	A	C	GC	ACC
			Section 396									
	(32786)	32786	32800	32810	32820	32830	32840	32850	32868			
K12 Zwischenstück 255.328 - 290.948 (32217)	G	C	AGACG	CA	TAC	GGT	GAA	TGT	TACAT	GGC	CT	ACC
SARS-CoV-2 Reference Genome NC_045512.2 (28353)	A	C	---	CA	GAA	AT	GG	GAA	CG	CAGTGG	GGC	GG
Consensus (32786)		C		CA	A	GG	GAA	G		GGC	C	A
			Section 397									
	(32869)	32869	32880	32890	32900	32910	32920	32930	32940	32951		
K12 Zwischenstück 255.328 - 290.948 (32297)	CC	GG	CGGA	CGG	GGCT	ACT	GCC	GC	TGG	GGC	CG	AG
SARS-CoV-2 Reference Genome NC_045512.2 (28427)	TG	GT	TAC	CGG	TCTC	ACT	CAAC	A	TGG	CAAG	GA	AG
Consensus (32869)		G		CGC		ACT	C	TGG	G	AGACC	A	CCC
			Section 398									
	(32952)	32952	32960	32970	32980	32990	33000	33010	33020	33034		
K12 Zwischenstück 255.328 - 290.948 (32379)	A	GGC	GG	CA	AG	CACG	GC	AG	CT	GAC	CG	T
SARS-CoV-2 Reference Genome NC_045512.2 (28509)	---	GT	C	AG	AT	GAC	CA	AAT	TG	GT	TACT	ACC
Consensus (32952)			G	C	AG		C	A	TG	C	A	G
			Section 399									
	(33035)	33035	33040	33050	33060	33070	33080	33090	33100	33117		
K12 Zwischenstück 255.328 - 290.948 (32462)	A	TT	TC	GACG	CA	AG	TT	CG	CT	T	GAC	CCGG
SARS-CoV-2 Reference Genome NC_045512.2 (28581)	A	TC	TC	AGTC	CA	AG	AT	GG	TAT	TT	CT	ACT
Consensus (33035)		A	T	C	AG	T	G	T	C		A	CT

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															Section 400																					
(33118)	33118	33130	33140	33150	33160	33170	33180	33190	33200																											
K12 Zwischenstück 255.328 - 290.948 (32545)	CCG	GGCTTC	TACGGCT	CTATG	GCAAC	GACTC	GCTCAAT	TCGA	CC	TT	CACC	CAATC	GAC	CGTGGCGCGC	CGC	TGGCAG	C	ACTT																		
SARS-CoV-2 Reference Genome NC_045512.2 (28658)	---	GGCATC	ATA	TGGGT	---	GCAAC	TGAGG	GAG	CTT	---	GAA	TACACC	AAA	GAT	CA	-----	CAT	TGGCAC	C	----																
Consensus (33118)		GGC	TC	TA	GG	T		GCAAC		G	C	T	GA	T	CACC	AA	GA	C		C	TGGCA	C														
															Section 401																					
(33201)	33201	33210	33220	33230	33240	33250	33260	33270	33283																											
K12 Zwischenstück 255.328 - 290.948 (32628)	CGC	CT	TCC	GG	GGC	AGA	AA	C	GG	GATGGA	GT	CT	CGCCGG	TG	CACT	TC	CAG	CAG	AGCG	CGGG	GCT	GA	CCT	GCT	ACTAC	AACA	GCA									
SARS-CoV-2 Reference Genome NC_045512.2 (28718)	CGC	AA	TCC	T	G	CTA	ACA	AT	GCT	GCAATC	GT	GCT	ACA	ACT	T	C	---	TCA	AG	A	A	C	GC	A	GCT	CTAC	---	GCA								
Consensus (33201)	CGC		TCC	G	A	AA	GC	G		GT	CT		T	C		TC	AG	A	A	C	GC	A	GCT	CTAC		GCA										
															Section 402																					
(33284)	33284	33290	33300	33310	33320	33330	33340	33350	33366																											
K12 Zwischenstück 255.328 - 290.948 (32711)	AA	AACT	GGAGC	TACT	GC	TTTGT	GG	ACTA	CG	AG	GAGGGA	CAG	GT	TAGA	AC	CATCA	AA	GT	TATC	---	CAG	CTCGA	CC	ACA	ACGT	TGCC										
SARS-CoV-2 Reference Genome NC_045512.2 (28793)	G	AA	G	---	GGAGC	AGAG	GC	---	GG	CAGT	CA	AG	CCTCTT	CTC	GT	T	CCT	---	CATCA	C	GT	AG	TC	GCA	CAGTT	CA	AGAA	AT	TCAA							
Consensus (33284)	AA		GGAGC		GC		GG		C	AG		C	G	T		CATCA	GT	TC	CA	C		C	A	AA	T											
															Section 403																					
(33367)	33367	33380	33390	33400	33410	33420	33430	33449																												
K12 Zwischenstück 255.328 - 290.948 (32793)	G	TC	GT	GGC	GC	TG	CAC	GAG	CAG	CCCCA	TTC	CGG	TGC	CG	GAA	---	CAT	GC	GGA	GAGC	GT	CTG	GCTGC	GGG	TG	GAC	TG	GAT	TAC	GC						
SARS-CoV-2 Reference Genome NC_045512.2 (28866)	C	TC	CA	GGC	AG	AG	TA	GG	GG	AAC	---	TTC	TCC	TGC	TA	GAA	TGG	CTG	GC	AAT	GCG	GT	GAT	GCTGC	TCT	TG	---	CT	T	TGCT	---	GC				
Consensus (33367)		TC		GGC	GC	G	A	G	G	A		TTC		TGC		GAA		C	GC	G	GT		GCTGC		TG	C	T	G	T		GC					
															Section 404																					
(33450)	33450	33460	33470	33480	33490	33500	33510	33520	33532																											
K12 Zwischenstück 255.328 - 290.948 (32873)	TG	G	T	CT	AC	CG	CT	AC	AG	TA	CTC	GT	TTGA	TG	GC	GAG	AC	GT	GGC	AC	ACC	GT	GCC	GGT	AC	GT	ATG	AGGC	GT	GG	AA	CTGTC	GG	AC		
SARS-CoV-2 Reference Genome NC_045512.2 (28941)	TG	C	T	TG	AC	AG	AT	TG	AA	CCA	---	G	CTTGA	GAG	CA	AA	AT	GT	CTGGT	AA	AG	---	GCC	AACA	ACA	---	ACA	AGGC	---	AA	CTGTC	---	AC			
Consensus (33450)	TG	T		AC	G	T		A	C	A		G	TTGA	GC	A	A	GT		A	G	GCC		AC	A	AGGC		AA	CTGTC		AC						
															Section 405																					
(33533)	33533	33540	33550	33560	33570	33580	33590	33600	33615																											
K12 Zwischenstück 255.328 - 290.948 (32956)	G	ACT	AC	ATC	GG	CG	GG	CG	CG	GGCTTCT	TC	ACC	GG	GG	CG	TTTGTG	---	GGC	CTGC	ACTGCG	AG	GAC	ATC	AG	CGGCG	AC	GGCTGC	T	AC							
SARS-CoV-2 Reference Genome NC_045512.2 (29014)	T	A	AG	AA	ATC	T	GC	T	CT	GAG	GGCTTCT	AAG	AG	CG	T	CG	GCA	AA	AC	GTA	CTGC	C	ACTAA	AG	C	AT	ACA	AT	GTAAC	AC	AAGCTT	T	CG			
Consensus (33533)	A	A		ATC	GC	G		G	GGCTTCT			G	C	CG		G		CTGC		AG	A	A	A		AC		T									
															Section 406																					
(33616)	33616	33630	33640	33650	33660	33670	33680	33698																												
K12 Zwischenstück 255.328 - 290.948 (33037)	GC	G	GAC	T	TC	G	ACT	A	CTT	CA	CCTAC	GAG	CCGG	T	CT	AAC	GG	CT	CAGG	CCGGG	TAGC	CCAG	CGC	GCG	GAG	AGCG	CG	AG	CCG	GC						
SARS-CoV-2 Reference Genome NC_045512.2 (29097)	GC	A	GAC	G	T	GG	TC	G	AA	CA	AACC	CA	AG	G	AA	TT	T	TGG	GG	AC	CAGG	AAC	---	TA	AT	CAGA	C	AA	G	AACT	GA	TTA	CA	AA	CATT	GGC
Consensus (33616)	GC		GAC	T	G	C	A		CA		C	AG		T	T		GG		CAGG		TA	C	C	G		GA	C	A	C		G	C				

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										Section 407
(33699)	33699	33710	33720	33730	33740	33750	33760	33770	33781	
K12 Zwischenstück 255.328 - 290.948 (33120)	TGC	TGAA	GC	TG	CT	CG	GA	AA	TT	AG
SARS-CoV-2 Reference Genome NC_045512.2 (29178)	CG	GC	AA	AT	TG	CA	-----	AA	TT	TG
Consensus (33699)	GC	AA	TGC	C	AATT	GCC	C	CGC	TC	C
										Section 408
(33787)	33782	33790	33800	33810	33820	33830	33840	33850	33864	
K12 Zwischenstück 255.328 - 290.948 (33201)	AC	CG	CG	GG	ACT	CG	TGG	TT	CG	CA
SARS-CoV-2 Reference Genome NC_045512.2 (29249)	CT	TC	GG	GAA	CG	TGG	TT	CG	CA	-----
Consensus (33782)	C	GG	CGTGGTT	CC	ACAC	GG	CC	CA	G	G
										Section 409
(33865)	33865	33870	33880	33890	33900	33910	33920	33930	33947	
K12 Zwischenstück 255.328 - 290.948 (33281)	TTG	CT	CG	CG	CG	CG	CG	CG	CG	CG
SARS-CoV-2 Reference Genome NC_045512.2 (29327)	TTG	CT	CG	CG	CG	CG	CG	CG	CG	CG
Consensus (33865)	TTGCT	G	T	GC	G	CGC	A	AA	TTC	C
										Section 410
(33948)	33948	33960	33970	33980	33990	34000	34010	34020	34030	
K12 Zwischenstück 255.328 - 290.948 (33363)	CC	CTC	AGC	AGG	GG	CTC	AGC	TCC	AGC	AGC
SARS-CoV-2 Reference Genome NC_045512.2 (29407)	AA	CTC	AGC	-----	CT	AGC	AGC	AGC	AGC	AGC
Consensus (33948)	CTC	AGC	C	T	C	GC	G	C	G	A
										Section 411
(34031)	34031	34040	34050	34060	34070	34080	34090	34100	34113	
K12 Zwischenstück 255.328 - 290.948 (33446)	G	CGG	CGA	TG	CG	TG	AA	TA	GG	CG
SARS-CoV-2 Reference Genome NC_045512.2 (29481)	T	CTC	CAA	CAAT	TG	CA	CAAT	CG	ATG	AG
Consensus (34031)	C	C	A	TG	AA	A	C	ATG	CAG	TGC
										Section 412
(34114)	34114	34120	34130	34140	34150	34160	34170	34180	34196	
K12 Zwischenstück 255.328 - 290.948 (33527)	CCC	CAG	ATG	GGG	TGG	CT	GCC	CG	GT	CG
SARS-CoV-2 Reference Genome NC_045512.2 (29555)	---	CAG	ATG	GGG	CTA	TAT	AAA	CG	TT	CG
Consensus (34114)	CAGATGGG	T	T	CG	T	CGC	C	T	CG	A
										Section 413
(34197)	34197	34210	34220	34230	34240	34250	34260	34279		
K12 Zwischenstück 255.328 - 290.948 (33609)	ACG	ACA	AA	AT	GC	CG	CG	CT	CG	CG
SARS-CoV-2 Reference Genome NC_045512.2 (29628)	GTA	ACT	ACAT	AG	-----	ACA	AG	TAG	ATG	-----
Consensus (34197)	AC	A	AT	GC	AC	AG	T	ATG	TA	TT

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										Section 421
	(34861)	34861	34870	34880	34890	34900	34910	34920	34930	34943
K12 Zwischenstück 255.328 - 290.948 (34270)		TCGACACCCACACGTCGGTATAGATAAAAGTCCGCGCCCTTAACGCCTGCCGCCACGTCTTCCGTCAGAGTAATTTTCCCGCCG								
SARS-CoV-2 Reference Genome NC 045512.2 (29904)		-----								
Consensus (34861)										
										Section 422
	(34944)	34944	34950	34960	34970	34980	34990	35000	35010	35026
K12 Zwischenstück 255.328 - 290.948 (34353)		TGCTTCTCCGCCAGCGCGCTGCACTCCGCCACCAGGCTCTCTTCCGGCCAGCAGGCTTTCCGGGGCCAACAGGCGCAGATCCAG								
SARS-CoV-2 Reference Genome NC 045512.2 (29904)		-----								
Consensus (34944)										
										Section 423
	(35027)	35027	35040	35050	35060	35070	35080	35090		35109
K12 Zwischenstück 255.328 - 290.948 (34436)		CCCGGTCAGCGCCCGCGCTTCCAGCATCGAGTTGCCCATGTTGTTGCGCGCATCGCCCGCTAGACCAGCGTCATCTCGTTAA								
SARS-CoV-2 Reference Genome NC 045512.2 (29904)		-----								
Consensus (35027)										
										Section 424
	(35110)	35110	35120	35130	35140	35150	35160	35170	35180	35192
K12 Zwischenstück 255.328 - 290.948 (34519)		ACGCCTTGCCCGGCAGGTGCTCCTGCATGGTCATCAGGTCCGCCAGCAGCTGGGTGCGGTGGAACCTCGTTGGTCAGCCCGTTC								
SARS-CoV-2 Reference Genome NC 045512.2 (29904)		-----								
Consensus (35110)										
										Section 425
	(35193)	35193	35200	35210	35220	35230	35240	35250	35260	35275
K12 Zwischenstück 255.328 - 290.948 (34602)		CACACCGGCACGCCCCGATACCTGCGCCAGCGTTTCGACCACTTCTGGCCGTGACCGCGATACTGAATGCCGTATACATCCG								
SARS-CoV-2 Reference Genome NC 045512.2 (29904)		-----								
Consensus (35193)										
										Section 426
	(35276)	35276	35290	35300	35310	35320	35330	35340		35358
K12 Zwischenstück 255.328 - 290.948 (34685)		CCCGAGAACCCGCGCGGTGTCCTTAATTGACTCTTTATGCCCAATCTGGCTGCCGCTCGGCCCTAAATAGGTAACGCGCGCGC								
SARS-CoV-2 Reference Genome NC 045512.2 (29904)		-----								
Consensus (35276)										
										Section 427
	(35359)	35359	35370	35380	35390	35400	35410	35420	35430	35441
K12 Zwischenstück 255.328 - 290.948 (34768)		CCTGGTCAAATGCGGCAACTTCGAAAGAGCAACGGGTACGAGTCGAGTCTTTTTCGAAGATGAGCGCGATGTTTTTACCGGTA								
SARS-CoV-2 Reference Genome NC 045512.2 (29904)		-----								
Consensus (35359)										

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										Section 428
	(35442)	35442	35450	35460	35470	35480	35490	35500	35510	35524
K12 Zwischenstück 255.328 - 290.948 (34851)		AGCTTCTGTACTTCCTTGCCATTTTTTTTATCGGCTTTGAGCTGTGCGGCAAGGGTCAGCAGAGAAGTGAAGTGTGCAGGGGT								
SARS-CoV-2 Reference Genome NC_045512.2 (29904)		-----								
Consensus (35442)										
										Section 429
	(35525)	35525	35530	35540	35550	35560	35570	35580	35590	35607
K12 Zwischenstück 255.328 - 290.948 (34934)		AAAGTCGAGCAGTTTCAGAAAGTGTTTTTGTATAAATCGGACATTTTATCCTCGCATGGCGAACGCCACTTATTGAATTTAA								
SARS-CoV-2 Reference Genome NC_045512.2 (29904)		-----								
Consensus (35525)										
										Section 430
	(35608)	35608	35620	35630	35640	35650	35660	35670	35680	35690
K12 Zwischenstück 255.328 - 290.948 (35017)		ATTCACTTTATATGTGTAATTATTCATTTGCAACCCCATTTTACAATTCTTTCTTACAAAGGTGGAGGCAAACCCGTCCTGT								
SARS-CoV-2 Reference Genome NC_045512.2 (29904)		-----								
Consensus (35608)										
										Section 431
	(35691)	35691	35700	35710	35720	35730	35740	35750	35760	35773
K12 Zwischenstück 255.328 - 290.948 (35100)		GTGAAAATAATCGTATCTGCCTCCGATTCTCTGCAGAAGCAGAAAGACATTGGATCGAATTCTACAACCAGGTCGAGTCAGAA								
SARS-CoV-2 Reference Genome NC_045512.2 (29904)		-----								
Consensus (35691)										
										Section 432
	(35774)	35774	35780	35790	35800	35810	35820	35830	35840	35856
K12 Zwischenstück 255.328 - 290.948 (35183)		ATGAGAATGATTGGCCTTCTTTATGATTTTAAGGATTATGCTTCTAAAATGGCGGAGAACATGGCGAGGCTTGCTGCCTTACT								
SARS-CoV-2 Reference Genome NC_045512.2 (29904)		-----								
Consensus (35774)										
										Section 433
	(35857)	35857	35870	35880	35890	35900	35910	35920		35939
K12 Zwischenstück 255.328 - 290.948 (35266)		TCATTACTTCAGCGGTGATGGAGGCGATATATCTGTTACCGGGTAATGACTCCAACCTTATTGATAGTGTTTTATGTTTCAGATA								
SARS-CoV-2 Reference Genome NC_045512.2 (29904)		-----								
Consensus (35857)										
										Section 434
	(35940)	35940	35950	35960	35970	35980	35990	36000	36010	36022
K12 Zwischenstück 255.328 - 290.948 (35349)		ATGCCCCGATGACTTTGTCATGCTGCTCCACCGATTTTGAGAACGACAGCGACTTCCGTCCCAGCCGTGCCAGGTGCTGCCTCA								
SARS-CoV-2 Reference Genome NC_045512.2 (29904)		-----								
Consensus (35940)										

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										Section 435
	(36023)	<u>36023</u>	<u>36030</u>	<u>36040</u>	<u>36050</u>	<u>36060</u>	<u>36070</u>	<u>36080</u>	<u>36090</u>	<u>36105</u>
K12 Zwischenstück 255.328 - 290.948	(35432)	GATTCAGGTTATGCCGCTCAATTTCGCTGCGTATATCGCTTGCTGATTACGTGCAGCTTTCCCTTCAGGCGGGATTTCATACAGC								
SARS-CoV-2 Reference Genome NC_045512.2	(29904)	-----								
Consensus	(36023)									
										Section 436
	(36106)	<u>36106</u>	<u>36120</u>	<u>36130</u>	<u>36140</u>	<u>36150</u>	<u>36160</u>	<u>36170</u>	<u>36188</u>	
K12 Zwischenstück 255.328 - 290.948	(35515)	GGCCAGCCATCCGTCATCCATATCACCACGTCAAAGGGTGACAGCAGGCTCATAAGACGCCCCAGCGTCGCCATAGTGCGTTC								
SARS-CoV-2 Reference Genome NC_045512.2	(29904)	-----								
Consensus	(36106)									
										Section 437
	(36189)	<u>36189</u>	<u>36200</u>	<u>36212</u>						
K12 Zwischenstück 255.328 - 290.948	(35598)	ACCGAATACGTGCGCAACAACCGT								
SARS-CoV-2 Reference Genome NC_045512.2	(29904)	-----								
Consensus	(36189)									