

Supplemental Figure S9

		20	40	60	80	100	
MutsuDr1	CAGGTGCTGTAAGCTTTTCAAAGTCCTTCATTTGGCAGCTGATAGACTTCCCCGTGTACAGCTTCGCTGCCATTATTTTTCTCGCCTTCAAGGGCATTGTTTCTGTCGAT						111
1.1	-----						-
1.2	-----						96
1.3	-----						-
1.4	-----						-
1.5	-----						-
1.6	-----						-
1.7	-----						-
1.8	-----						-
1.9	-----						-
1.10	-----						-
1.11	-----						-
		120	140	160	180	200	220
MutsuDr1	GCTGTGTCGATGCCAGCTGAGCTGCGTCCTTCCCTGGTGCTGCGCCTGTTTTAAATAGCCAACCTCTTGACAGCCTCTTTTCGCTTACGGCCACACCACCCTGTGCATGTGTG						222
1.1	-----						-
1.2	-----						207
1.3	-----						-
1.4	-----						12
1.5	-----						12
1.6	-----						12
1.7	-----						12
1.8	-----						12
1.9	-----						12
1.10	-----						12
1.11	-----						12
		240	260	280	300	320	
MutsuDr1	ATAGTGGTACATTCAGGAAGTGTTGGCTGCAGTTGGTGAGAGAGGCTCACCAGATTTTCTTTGTTATTTTTGTTTTGTCTTAAATACATTTTGTAAACTTTTTTT						333
1.1	-----						-
1.2	-----						318
1.3	-----						-
1.4	-----						123
1.5	-----						123
1.6	-----						123
1.7	-----						123
1.8	-----						123
1.9	-----						123
1.10	-----						123
1.11	-----						118
		340	360	380	400	420	440
MutsuDr1	T-GTTTGTTTAGTTTGTCC-TCCCAGCAGCGTGAGCTGTTCCGGAGGAGTGTTTTTATTTATTTATTTTTTTTTGCAATGGACGGATCTACGGTGACAGACCTGGCAATG						442
1.1	-----						104
1.2	-----						427
1.3	-----						-
1.4	-----						230
1.5	-----						228
1.6	-----						234
1.7	-----						228
1.8	-----						230
1.9	-----						230
1.10	-----						228
1.11	-----						224

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		460		480		500		520		540		
MutsuDr1	GCGGACGGAGTTGAGAAGGCAAATGACAATGGACTGGACAGACGACAACAAGAAACAAACCAATCGGAGAAGGAAGCAAGGAAAAGGATTTATCTAAAAGAAGCAACTGTA											553
1.1	.....A.....G.....											215
1.2	.....											538
1.3	-----											-
1.4	.....G.....											341
1.5	.....G.....											339
1.6	.....G.C.....											345
1.7	.....G.....											339
1.8	.....G.....											341
1.9	.....G.....											341
1.10	.....G.....											339
1.11	.....G.....											335
		560		580		600		620		640		660
MutsuDr1	ACAGTGGACATAGGACAAGCAACAGAGGTGAGAGCAATAGATGTAATTAAGCAGAGACGGAGAGGATTGGGGATGGAAAGATTTTGGCCGTAAGACCAAAACACAACAAG											664
1.1	.....G.....T.....T.....											326
1.2	.....											649
1.3	-----											-
1.4	.....G.....T.....T.....											452
1.5	.....TT.....G.....T.....T.....											450
1.6	.....A.....TT.....G.....T.....T.....											456
1.7	.....G.....T.....T.....											450
1.8	.....G.....T.....T.....											452
1.9	.....G.....T.....T.....											452
1.10	.....TT.....G.....T.....T.....											450
1.11	.....G.....T.....T.....											446
		680		700		720		740		760		
MutsuDr1	GAATATGAAGTAACACTTGAAAGAGAGGAAGATGCTGATGAGTTAATGGACGAATTGACTATTAAGGGATAAACTGTGCAGTTAAGAGGCTACAAAACCGTGATTATGTT											775
1.1	.....C.....											437
1.2	.....											760
1.3	.....C.....T.....C.....T.....											85
1.4	.....C.....											563
1.5	.....C.....											561
1.6	.....C.....											567
1.7	.....C.....											561
1.8	.....C.....											563
1.9	.....C.....											563
1.10	.....C.....											561
1.11	.....A.....C.....											557
		780		800		820		840		860		880
MutsuDr1	GTCTCCTTCATGCATCTGCCTGTCTATGTTGCTGATAAAGATATTTTAGACAAATTGGATCATTGGGGAGTTTTGCCATTTCAAAATTAAAAGAAGGTTTTATCCGGGC											886
1.1											548
1.2											871
1.3A.....A.....											196
1.4T.....											674
1.5											672
1.6T.....											678
1.7											672
1.8T.....											674
1.9T.....											674
1.10											672
1.11											668

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		900		920		940		960		980			
MutsuDr1	ACAAATATTGAAGATGGGACGAGGTTTGTGAAAACCAGATTCCCCAAAGA	ACTGGCGTCCCTCCCGTACAGCACAAAGAATAGAGACAGCAGAGGGTCCACAATACTTTAGG										997	
1.1	.....					G	.....			A	.....	659
1.2	.....						.....				.....	982
1.3	.....					G	.....		T	A	.....	307
1.4	.....					G	.....			A	.....	785
1.5	.....					G	.....			A	.....	783
1.6	.....					G	.....			A	.....	789
1.7	.....					G	C	.....		A	.....	783
1.8	.....					G	.....			A	.....	785
1.9	.....					G	.....			A	.....	785
1.10	.....					G	.....			A	.....	783
1.11	.....					G	.....			A	.....	779
		1,000		1,020		1,040		1,060		1,080		1,100	
MutsuDr1	GTGATGCACAGTCATCAGGTGAAAACATGCAGGCTGTGCTTGAGCCCAGATCATGTGGTAAAAGACTGTCCTGATTTTAGGTGCTATAAGTGCGAGGAAAGGGGGCACTTT											1108	
1.1	.....			G	.....	A	.....			G	.....	770
1.2	.....		T		.....		.....				.....	1093
1.3	.....		T		G	.....	A	.....			.....	418
1.4	.....				G	.....	A	.....			.....	896
1.5	.....				G	.....	A	.....			.....	894
1.6	.....				G	.....	A	.....			.....	900
1.7	.....				G	.....	A	.....			.....	894
1.8	.....				G	.....	A	.....			.....	896
1.9	.....				G	.....	A	.....			.....	896
1.10	.....				G	.....	A	.....			.....	894
1.11	.....				G	.....	A	.....			.....	890
		1,120		1,140		1,160		1,180		1,200		1,220	
MutsuDr1	GCAAAGTTTTGCACTGCTGTAAGGTGCCCGATTGTAATAAGGTTTTGAATAAATGTGAATGTTGGATTGGGGAAGAGGAGGAGGAGGTAGAGCAGCAGGTGGGCAGGCAG											1219	
1.1			G	A			G	A	881
1.2	.....				.....		.....				.....	1204
1.3	.....					A	.....				.....	529
1.4			G	A			G	A	1007
1.5			G	A			G	A	1005
1.6			G	A			G	A	1011
1.7			G	A			G	A	1005
1.8			G	A			G	A	1007
1.9			G	A			G	A	1007
1.10			G	A			G	A	1005
1.11			G	A			G	A	1001
		1,240		1,260		1,280		1,300		1,320			
MutsuDr1	ATGTATGAAGGAGACAATATCCAGTCGGAGGACAAAACAACAACAAGAAAAAAGTACAGAATCTGAAAGTGAAAACTACAAGAGAATGAGACTAATGGAATAGACAGA											1330	
1.1	.....			A	.....					A	.....	992
1.2	.....				.....		.....				.....	1315
1.3	.....			A	.....	A	.....				.....	640
1.4	.....			A	.....	A	.....				.....	1118
1.5			A	A	A	1116	
1.6			A	A	1122	
1.7			A	A	1116	
1.8			A	A	1118	
1.9			A	A	1118	
1.10			A	A	A	1116	
1.11			A	A				C	1112	

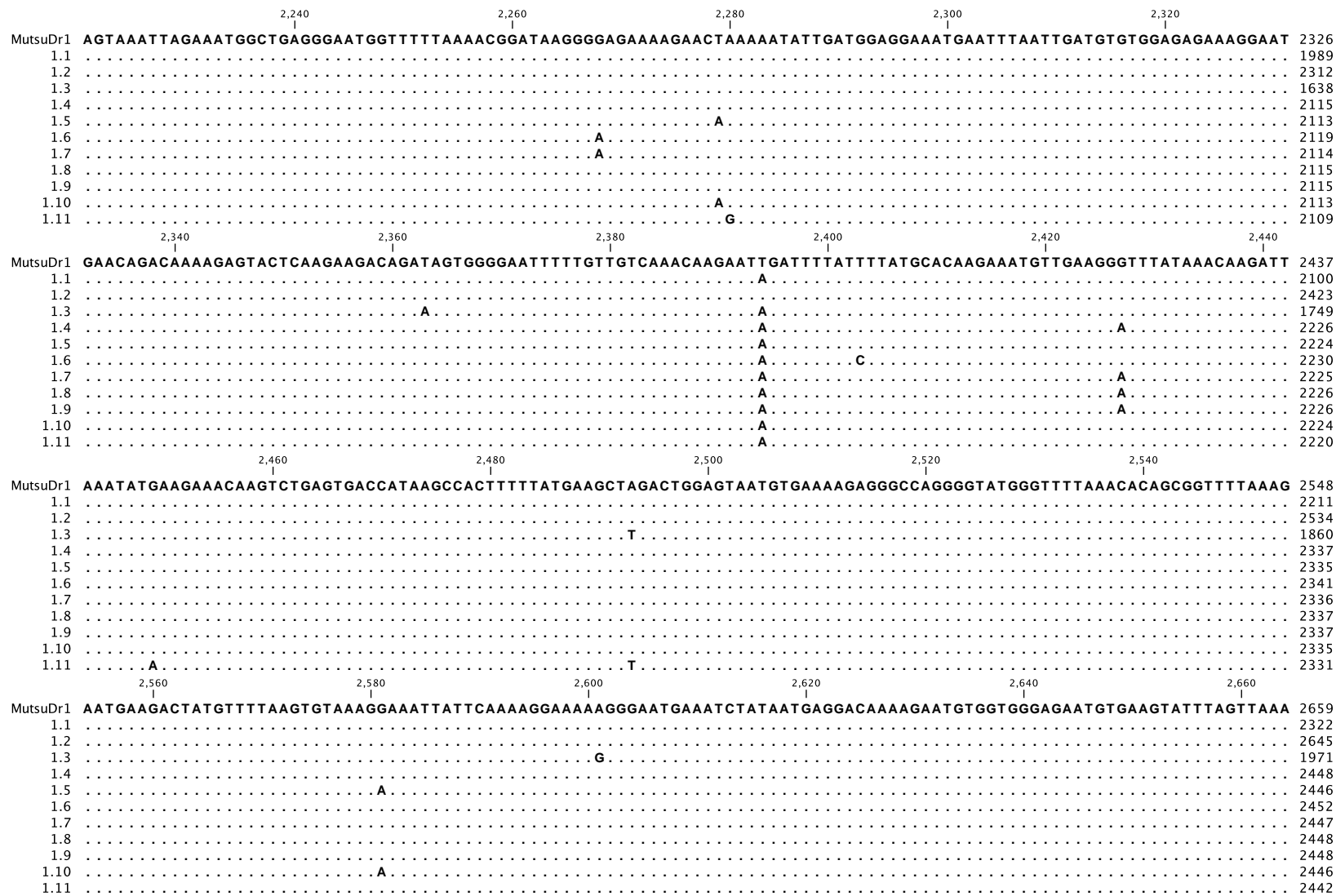
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		1,340		1,360		1,380		1,400		1,420		1,440		
MutsuDr1	GTCACGGAACAGGAAGGGACAACATGGACACAAATGGATATGACTGACAGTTTTAAAGAGTTTTTGGAAGCAGCAGAATTGAGCGATTCGAATAATAAAGACTTGAATCAA												1441	
1.1	.....												A.....	1103
1.2	.....												.....	1426
1.3	.....T.....												.....A	751
1.4	.....												.....A	1229
1.5	.....												.....A	1227
1.6	.....												.....A	1233
1.7	.....A.....												.....A	1227
1.8	.....												.....A	1229
1.9	.....												.....A	1229
1.10	.....												.....A	1227
1.11	.....												.....A	1223
		1,460		1,480		1,500		1,520		1,540				
MutsuDr1	GGACAACAGGAAGACACATTTTGGACACAAATGGACATCACAGACAGTTTTCAAAGGCATTGGACACAGAGGAGACAAAAGGCCAAAGTAATGACGAGCAAGCCGATTTA												1552	
1.1	.....												G..... T G	1214
1.2	.....												.....	1537
1.3	.....A.....												.....	862
1.4	.....												G..... T	1340
1.5	.....												G..... T	1338
1.6	.....												G..... T A	1344
1.7	.....												G..... T	1338
1.8	.....												G..... T	1340
1.9	.....												G..... T	1340
1.10	.....												G..... T	1338
1.11	.....												G..... T	1334
		1,560		1,580		1,600		1,620		1,640		1,660		
MutsuDr1	GAGGGACATTTACAAAAGGATGGAAACAAAGAGACACAGGGGAAATCAGCAAAAAGAAAGATCGTTAAAGATAAA-CCTAATTTAGAGACTGTAAGAAAAAACTGCTA												1662	
1.1	.....												.....A C	1325
1.2	.....												.....	1647
1.3	.....												.....A C	973
1.4	.....												.....A C	1451
1.5	.....												G..... A C	1449
1.6	.....												.....A C	1455
1.7	.....												.....A C	1449
1.8	.....												.....A C	1451
1.9	.....												.....A C	1451
1.10	.....												G..... A C	1449
1.11	.....A.....												.....A T C	1445
		1,680		1,700		1,720		1,740		1,760				
MutsuDr1	AAAGATGAAGAAATGAATGCGCAAATAAGTATGAGTTGCTAAAGGGCTTGAAGACATGGACTGAGATGATGTTTTT-ATGAATGTTTTTATGTCTTTTATGAATGTTT												1772	
1.1	.....												.....C T	1435
1.2	.....												.....	1757
1.3	.....A.....												.....C A T	1083
1.4 C	1561
1.5 C T A	1559
1.6	1565
1.7 A T	1560
1.8 C	1561
1.9 C	1561
1.10 C T A	1559
1.11 C T	1555

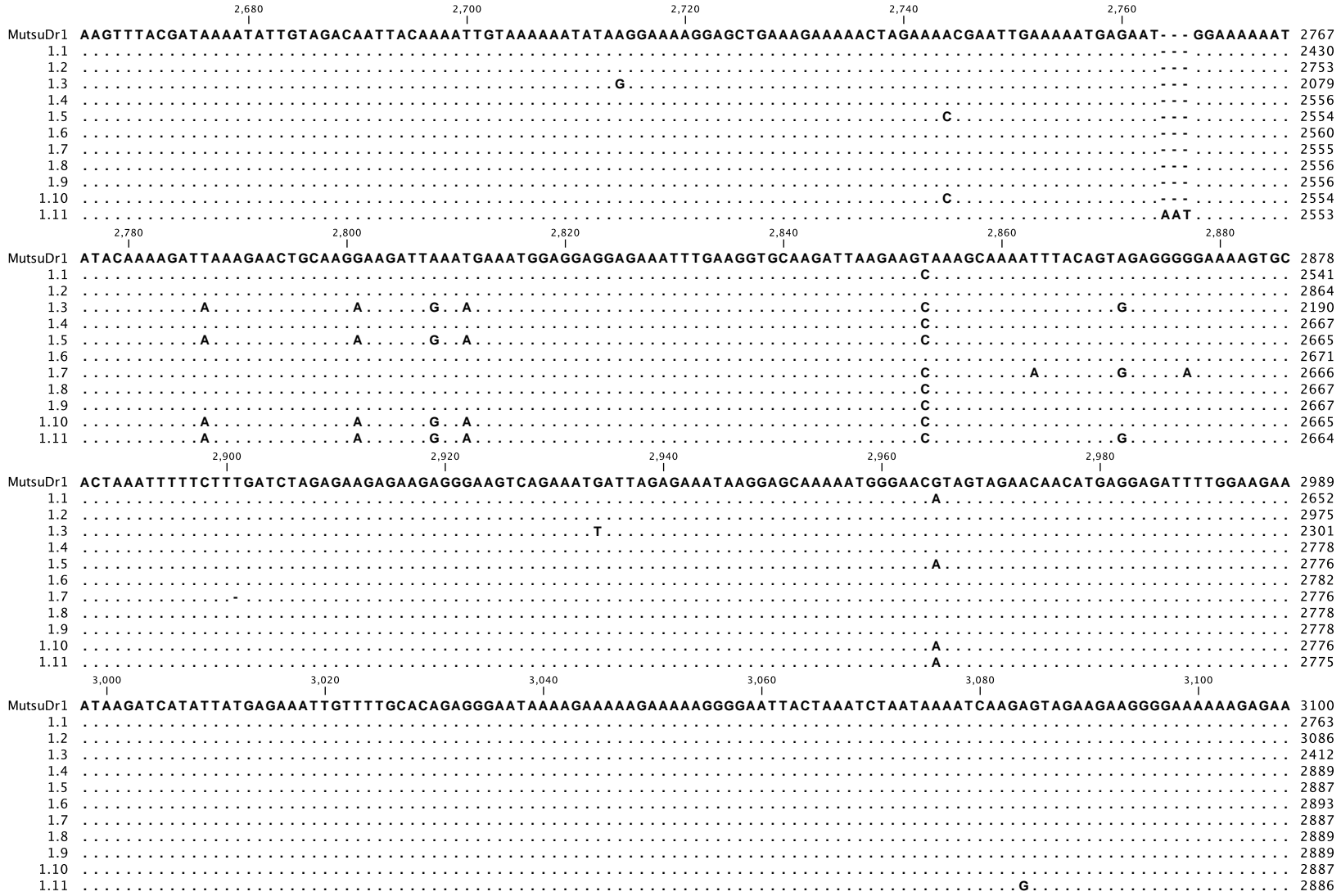
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	1,780	1,800	1,820	1,840	1,860	1,880	
MutsuDr1	TTATATTTTTATGGTTTTAGGAATTGTGTCTTTAATGCAAGAGGGCTTTAGACATCAGGAAATTTGAAAAAGTGAAAGAAATGTGTA AACGAGAAGATGTGATTTTAC						1883
1.1	.....						1546
1.2	.....						1868
1.3	.....						1194
1.4	.....						1672
1.5	.G.....						1670
1.6	.....						1676
1.7	.....						1671
1.8	.....						1672
1.9	.....						1672
1.10	.G.....						1670
1.11	.....						1666
	1,900	1,920	1,940	1,960	1,980		
MutsuDr1	TTCAAGAGACAAACTGGAGGGAAGAATGCATGAAGGAAATAAGAAAAAGTGGAGTGGGGAAATGTTATACAATAATGGGGATGGGAGGCTAGGGAGAGGAGTTGCAATTT						1994
1.1	.A.....						1657
1.2	.....						1979
1.3	.A.....						1305
1.4	.A.....						1783
1.5	.....						1781
1.6	.....						1787
1.7	.....						1782
1.8	.....						1783
1.9	.....						1783
1.10	.....						1781
1.11	.....						1777
	2,000	2,020	2,040	2,060	2,080	2,100	
MutsuDr1	TATTAAGAAAACAGTGGGGTTTTATGTAAACAATCTATAATGACAAAGAGGGAAAGTGTATGATATGTGAAATGGAGTATGTAAGAAAAA- GTAATTATGGTGAAT						2104
1.1	.C.....						1767
1.2	.....						2090
1.3	.....						1416
1.4	.C.....						1893
1.5	.....						1891
1.6	.....						1897
1.7	.....						1892
1.8	.C.....						1893
1.9	.C.....						1893
1.10	.....						1891
1.11	.....						1887
	2,120	2,140	2,160	2,180	2,200	2,220	
MutsuDr1	GTTACAGCCCAACAGAGGAGAACA AAAAGAAAGATTATAATGTACTTAGAGATTATTTAAAGAAACACGAAAGAGTTATTATCATGGGTGATTTTAACACTGTTTTT						2215
1.1	.....						1878
1.2						2201
1.3						1527
1.4						2004
1.5						2002
1.6						2008
1.7						2003
1.8						2004
1.9						2004
1.10						2002
1.11						1998

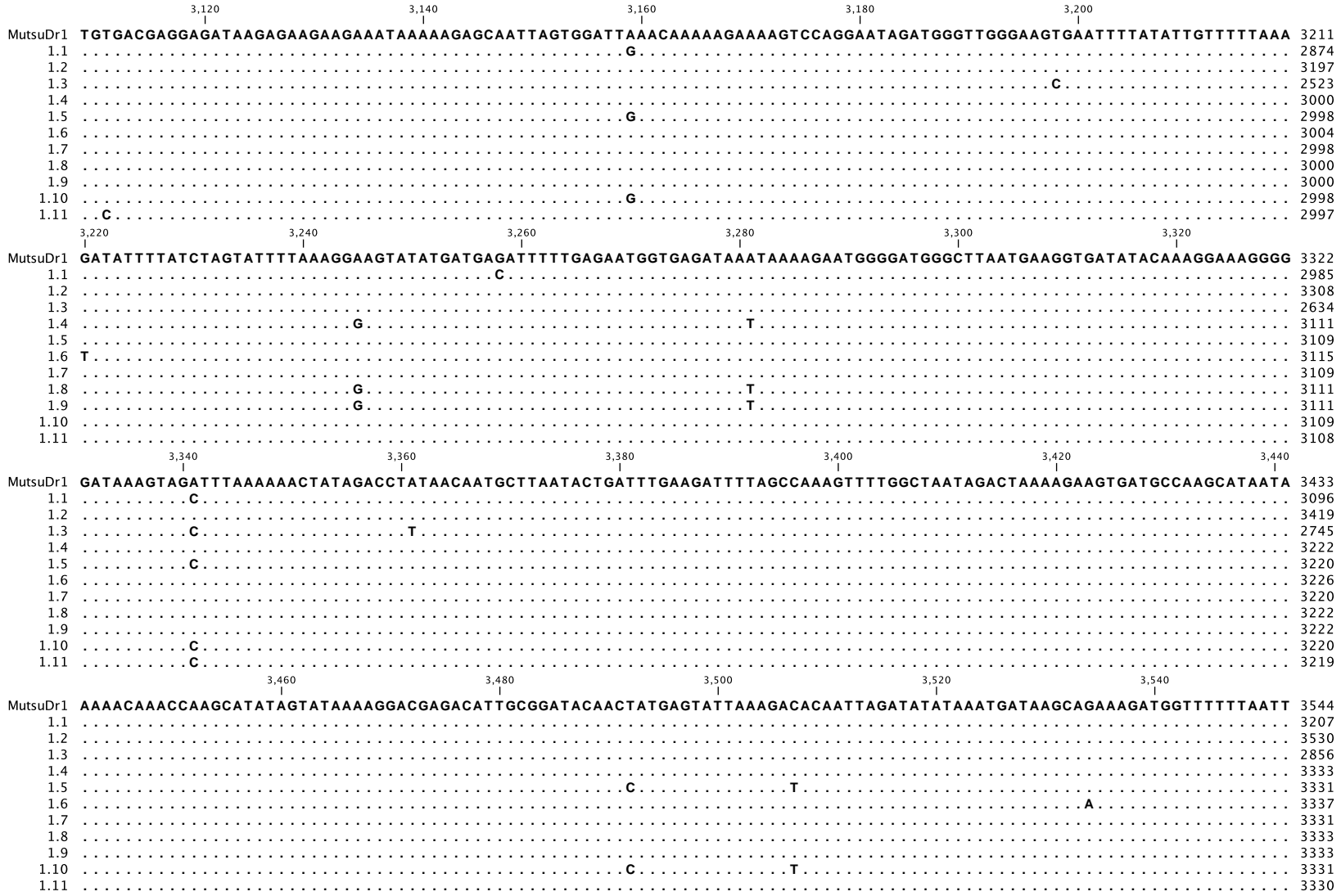
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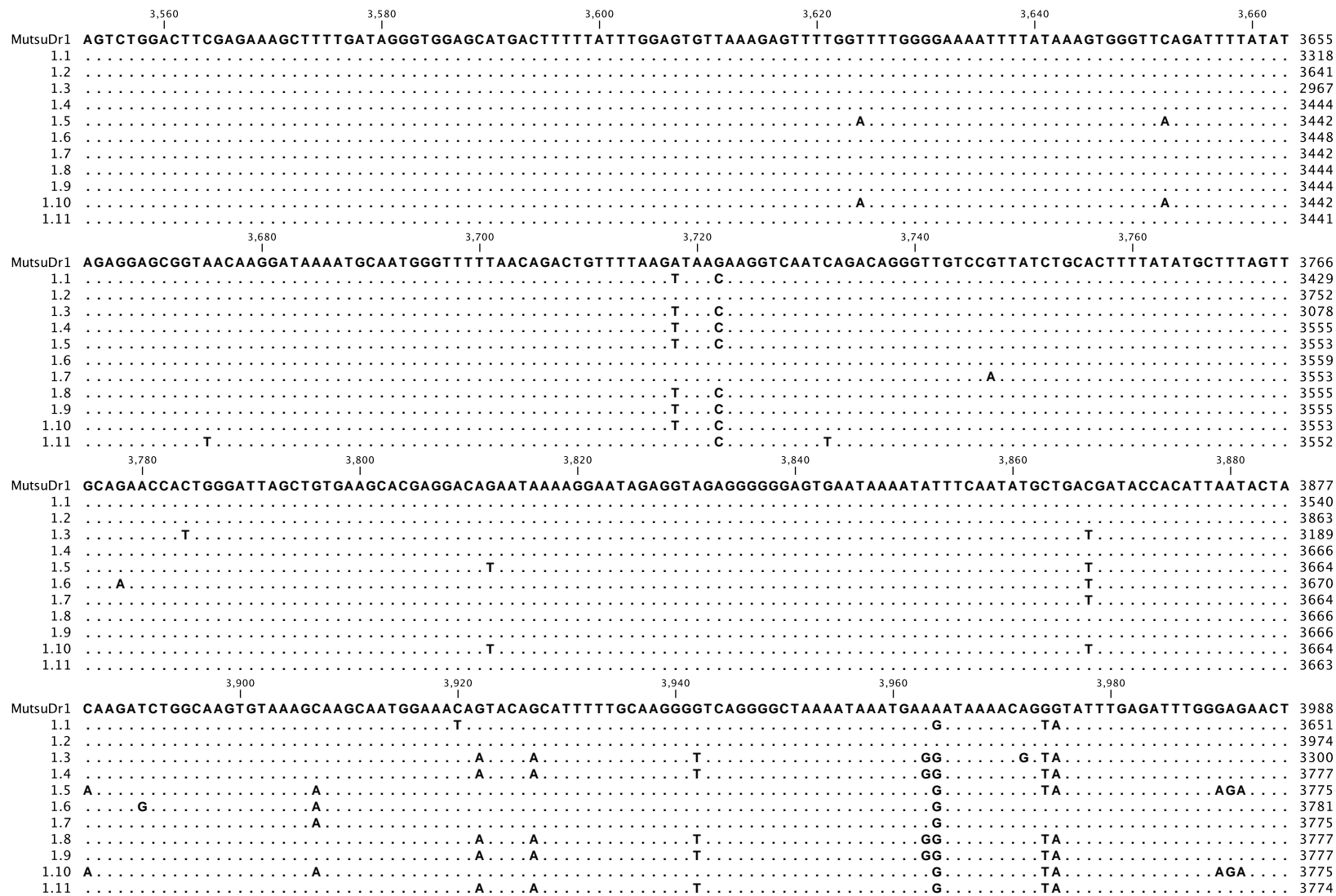
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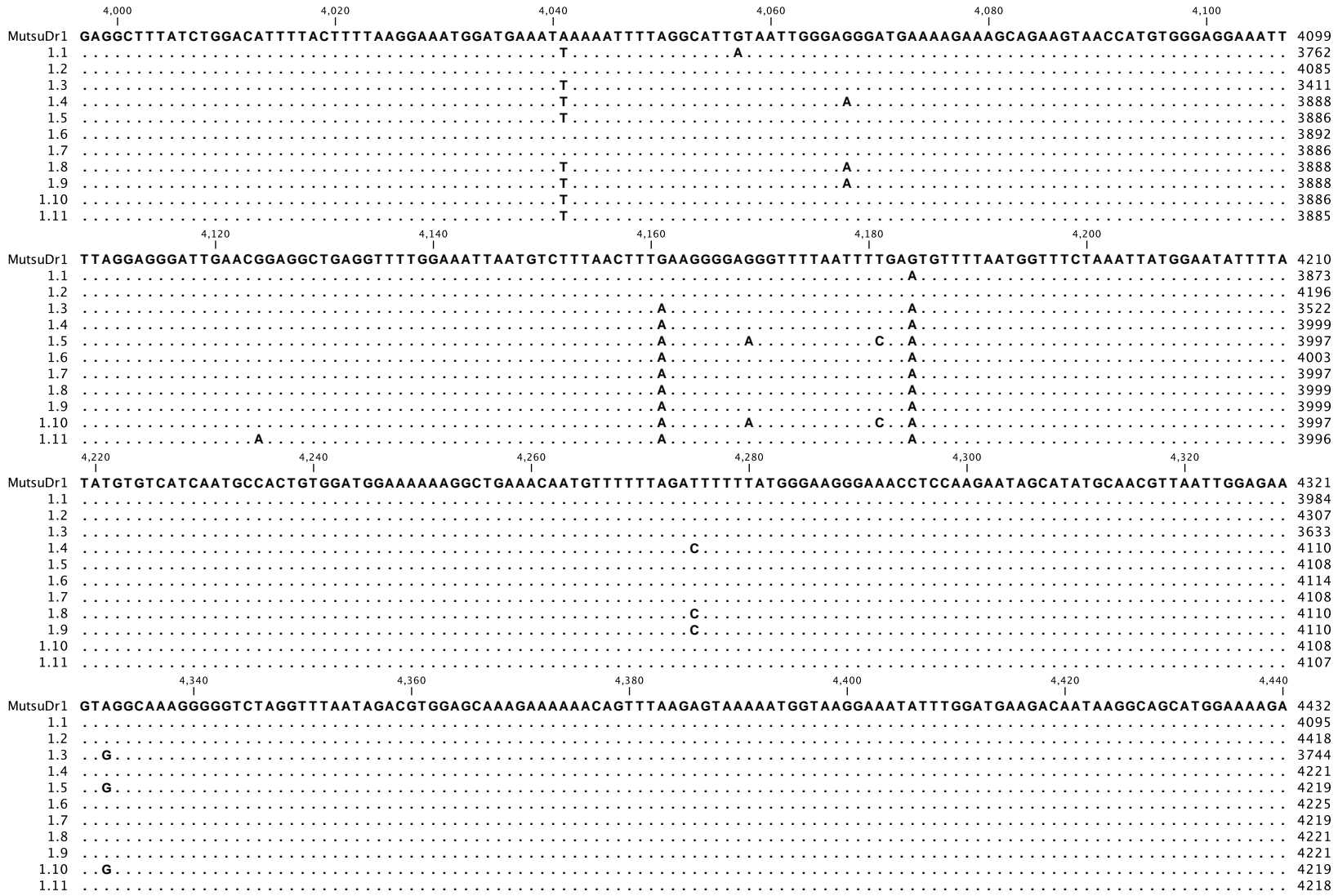
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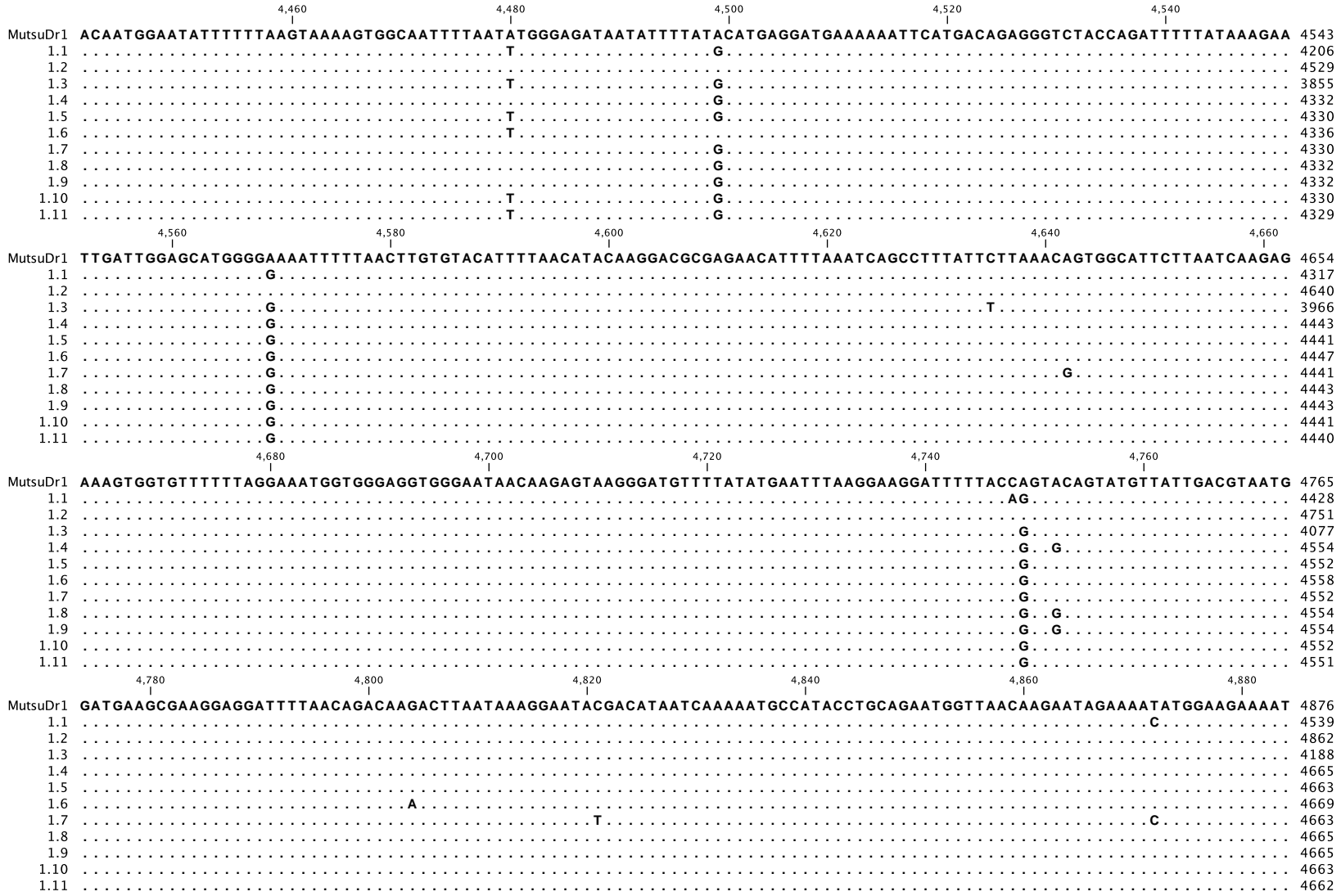
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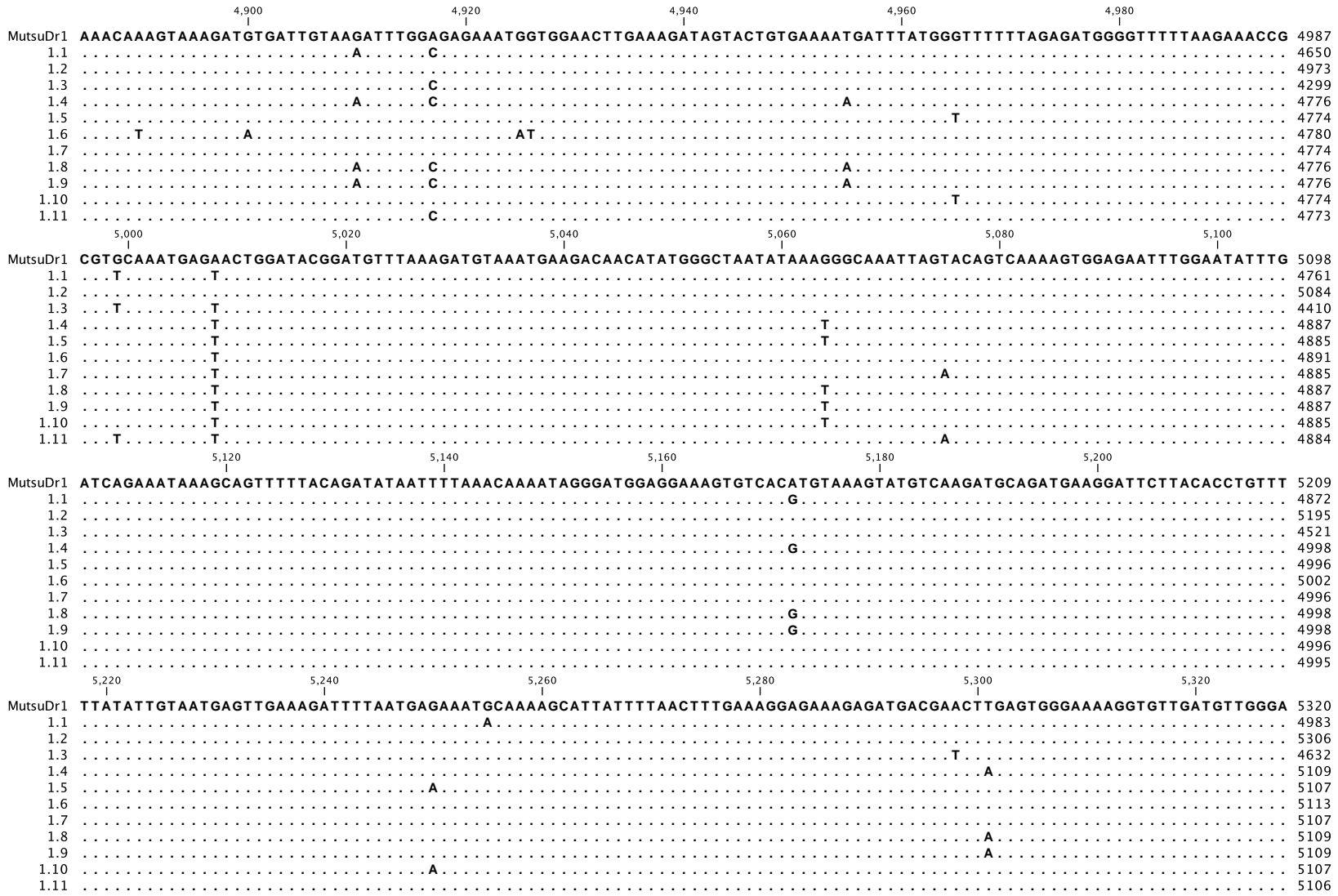
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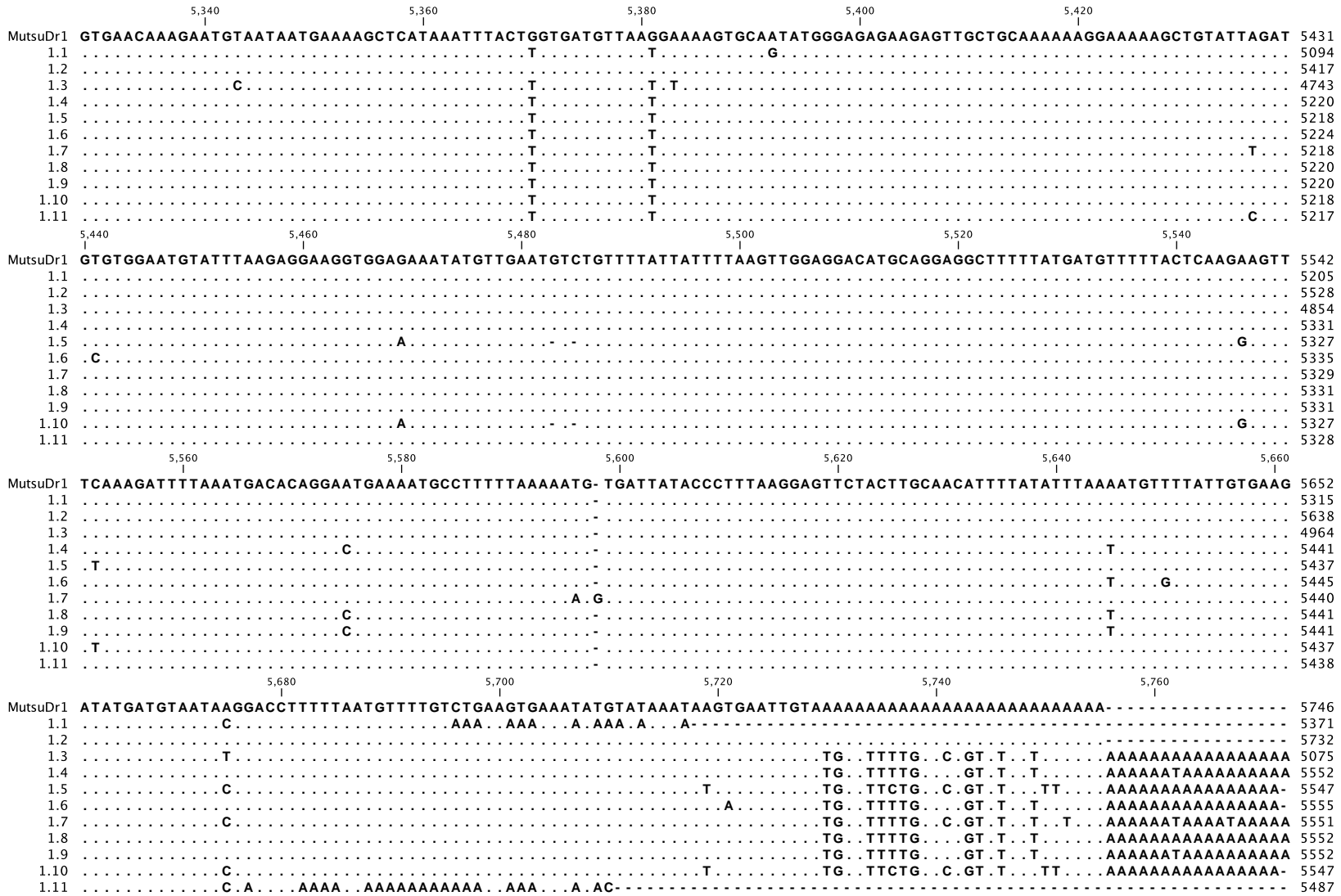
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Supplemental Figure S9



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	5,780	
MutsuDr1	-----	5746
1.1	-----	5371
1.2	-----	5732
1.3	-----	5075
1.4	AAAAAAAAAAAAAAAAAAAAA- - -	5574
1.5	-----	5547
1.6	-----	5555
1.7	AATAAAAAAAAAATAAAAAATAAAAAA	5577
1.8	AAAAAAAAAAAAAAAAAAAAA- -	5576
1.9	AAAAAAAAAAAAAAAAAAAAA- - -	5574
1.10	-----	5547
1.11	-----	5487

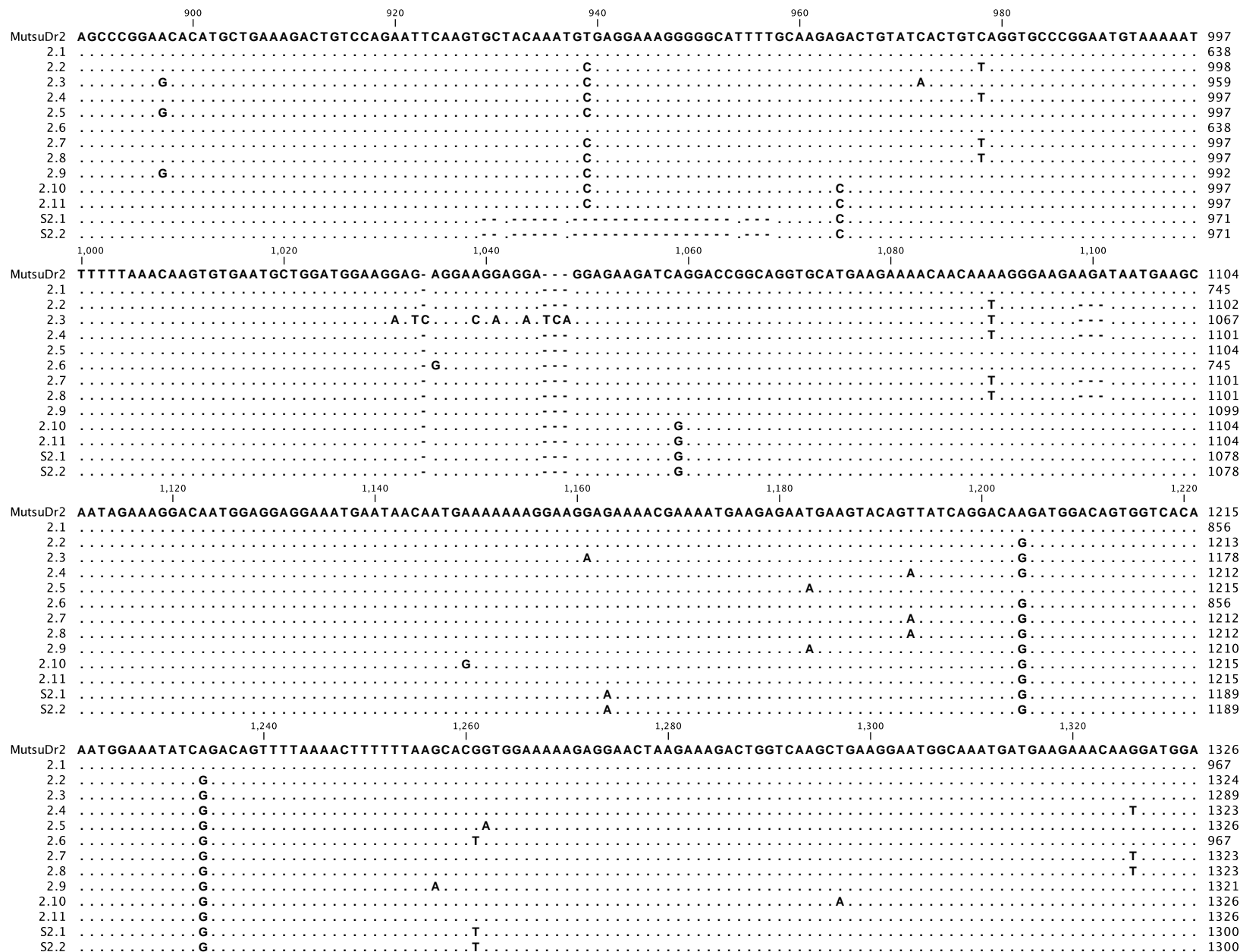
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		20	40	60	80	100		
MutsuDr2	AGCACGCTAGAGGGAGCTAGAGTGC	AAACAGGAAGT	GACTGGCAGCAGT	CAGGAGAGGAAGGCTCTCTCCATTTTTCTGTTTATT	-TTTTTGTGTTTTACACTTTTTGT		110	
2.1	-----						-	
2.2	.....						T	110
2.3	.....						A	109
2.4	.....						T	110
2.5	.....							110
2.6	-----						-	
2.7	.....						T	110
2.8	.....						T	110
2.9	.....						C	106
2.10	.....						A	110
2.11	.....						A	110
S2.1	.....						A	110
S2.2	.....						A	110
	120	140	160	180	200	220		
MutsuDr2	GGACTGATATAGTTTTTTT	-GTTTTGATTTTTGTTTTTAACCACCTGACAGCAGCATT	TTTGCTGGCTGGAGGGTGGTTTTTTGCGTGTGTTTTTTGCTATGGAGCAA				220	
2.1	-----						-	
2.2	.....						T	
2.3	.....						G	221
2.4	.....						G	182
2.5	.....							220
2.6	-----						-	
2.7	.....						G	220
2.8	.....						G	220
2.9	.....						C	216
2.10	.....						T	220
2.11	.....						C	220
S2.1	.....						A	220
S2.2	.....						A	220
	240	260	280	300	320			
MutsuDr2	ACAAAGGACGGATTGATGGCAAACGACCCTGGACTGGATGCAGAGACACGAAAGGAATATGAAACAGGACTGGATGACGAGACAAGAATGGTTAAAGACAACGGACTGGAA						331	
2.1	-----						-	
2.2	.....							332
2.3	.....						A	293
2.4	.....							331
2.5	.....							331
2.6	-----						-	
2.7	.....							331
2.8	.....							331
2.9	.....						T	327
2.10	.....						T	331
2.11	.....						T	331
S2.1	.....						T	331
S2.2	.....						T	331
	340	360	380	400	420	440		
MutsuDr2	AATGGACAACGAGCTGGACAACGGAAAAGCCAAAGTAGGTGGAAGAAAGTATTTAAAGGAGGCAACAGTTATCATTAAATGTGGAAGATGTACAGGAAGTGAGAGCAGAAGAT						442	
2.1	-----							83
2.2	.....							443
2.3	.....							404
2.4						A	442
2.5						A	442
2.6						A	83
2.7						A	442
2.8						A	442
2.9						T	437
2.10						A	442
2.11							442
S2.1							442
S2.2							442

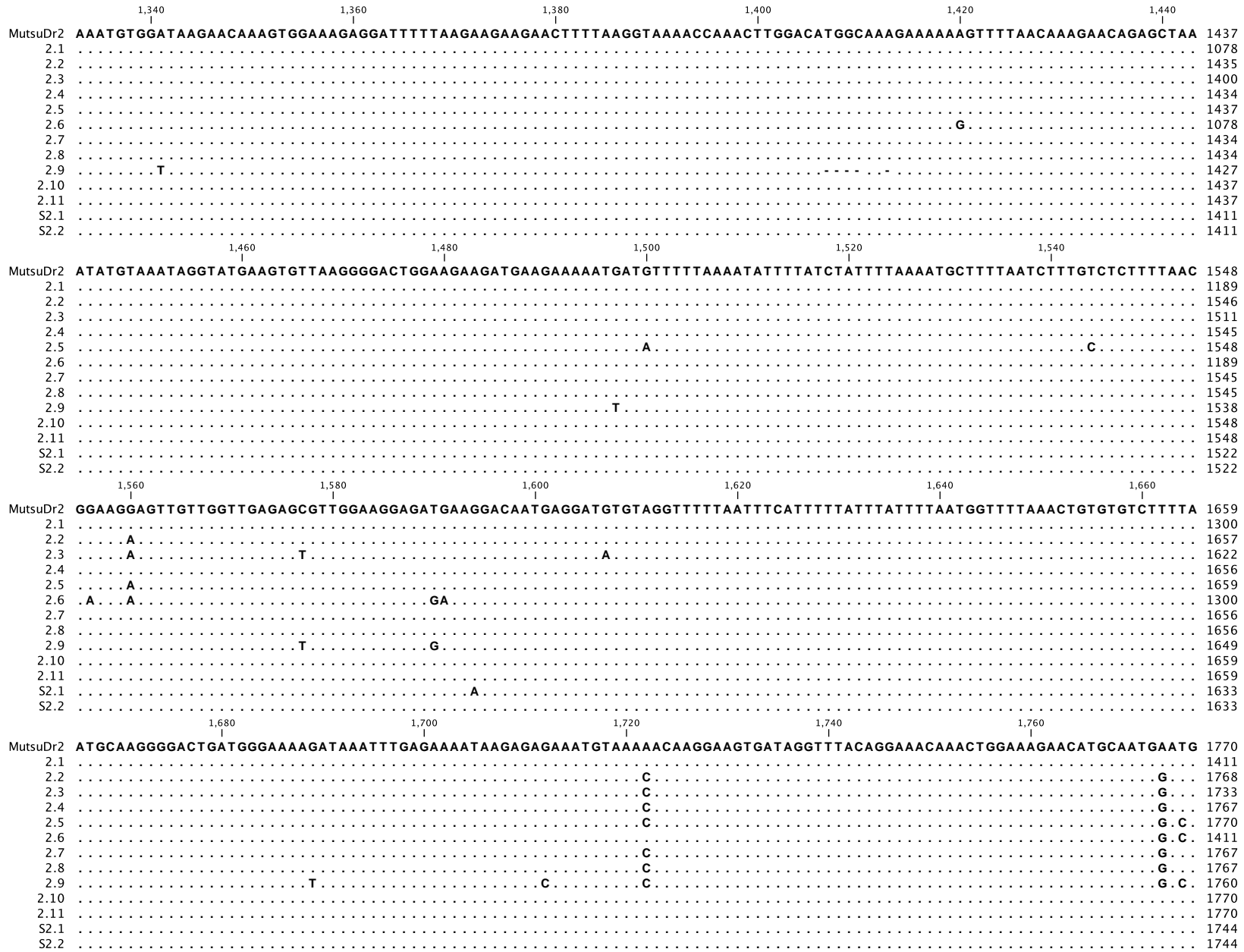
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		460		480		500		520		540		
MutsuDr2	ATTATTAAGCGGTGATTGAAAAGTGTGGACATGGAAAAATTCTGGCTTTAAGACCAAGACAAGGGAAGGAGTACGAACTAACAAATGGAACAGAGAATTATGTGAACAA										553	
2.1	.....										194	
2.2	.....										554	
2.3	.....									G	515	
2.4	.....										553	
2.5	.....		A							G	553	
2.6	.....										194	
2.7	.....										553	
2.8	.....										553	
2.9	.....						A				548	
2.10	.....	A									553	
2.11	.....	A									553	
S2.1	.....	A									553	
S2.2	.....	A									553	
		560		580		600		620		640		660
MutsuDr2	TTGACTGACAACTGATGATAAATGGGGTGAAGTGTGAAATTAAGGCTTCATAATAGGGATTTGTTGTTTCCTTCATGCACCTGCCGGTCTATCTTGAAGATAAGGAA											664
2.1	.....											305
2.2	.....		C									665
2.3	.....											626
2.4	.....		C									664
2.5	.....											664
2.6	.....											305
2.7	.....		C									664
2.8	.....		C									664
2.9	.....		C							A		659
2.10	.....										G	664
2.11	.....										G	664
S2.1	.....										G	664
S2.2	.....										G	664
		680		700		720		740		760		
MutsuDr2	ATTCTGGAAAATTAGATACTTGGGGAGTTTGTCCCATATCTAAAATTAACGAAGGTTTTATCCGGGTACCGACATAGAAGACGGAACAAGTTTCCTTAAAGTGAGGTTTC											775
2.1	.....											416
2.2	.....	G										776
2.3	.....	G										737
2.4	.....	G										775
2.5	.....	G										775
2.6	.....											416
2.7	.....	G										775
2.8	.....	G										775
2.9	.....											770
2.10	.....											775
2.11	.....											775
S2.1	.....											775
S2.2	.....											775
		780		800		820		840		860		880
MutsuDr2	CCTAAGAGGTGGCATCCTTGCCATACAGCACAAAAATAGAGACAGCAGAGAAGGAACGCAGTACTTCAGGGTGATGCACAGCCATCAGGTGAAGACCTGTAGGCTGTGCATG											886
2.1	.....											527
2.2	.....		T		G							887
2.3	.....		T		G			T				848
2.4	.....		T		G							886
2.5	A		T	G							886
2.6				G			T				527
2.7		T		G							886
2.8		T		G							886
2.9		T							A		881
2.10				G							886
2.11				G							886
S2.1				G							886
S2.2				G							886

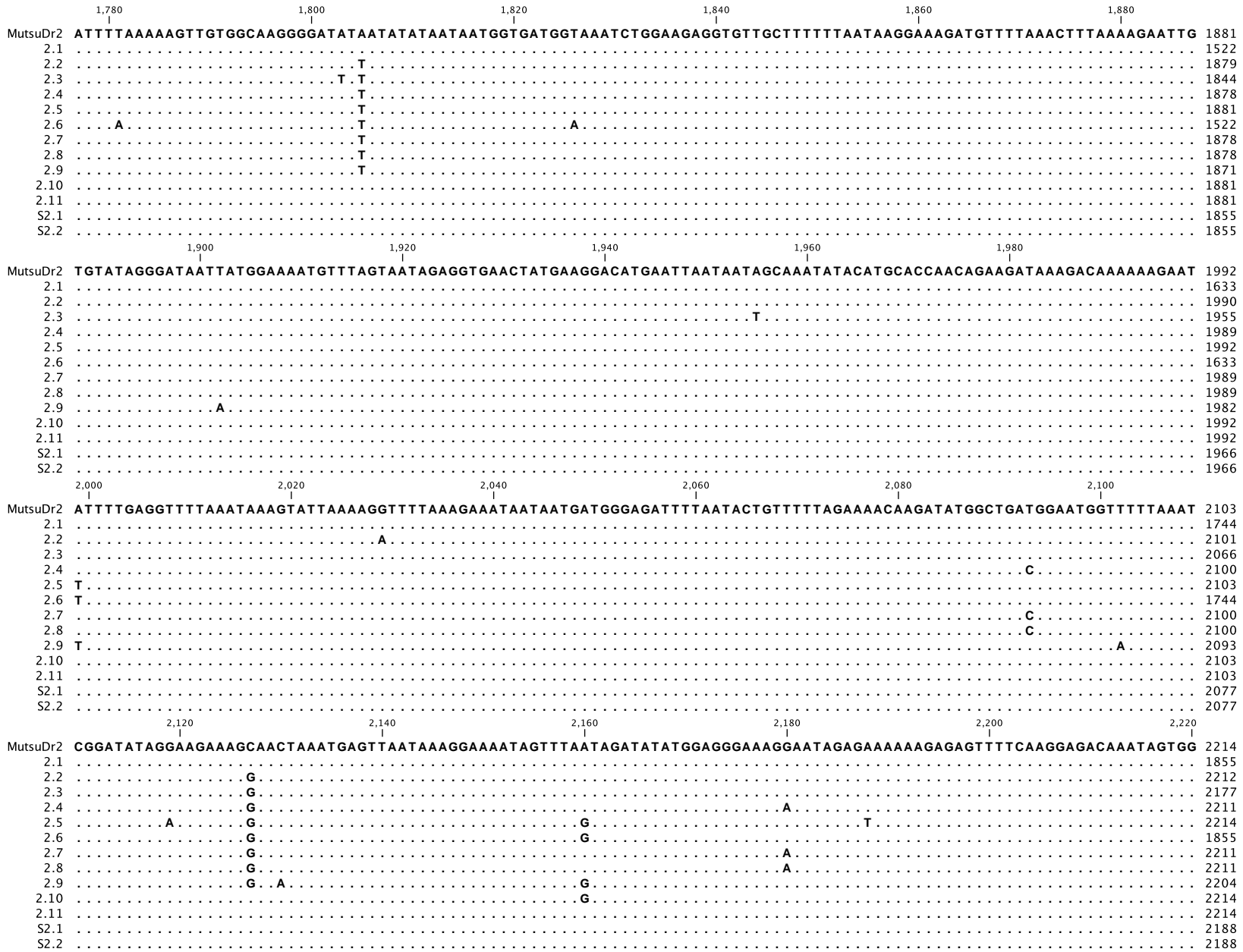
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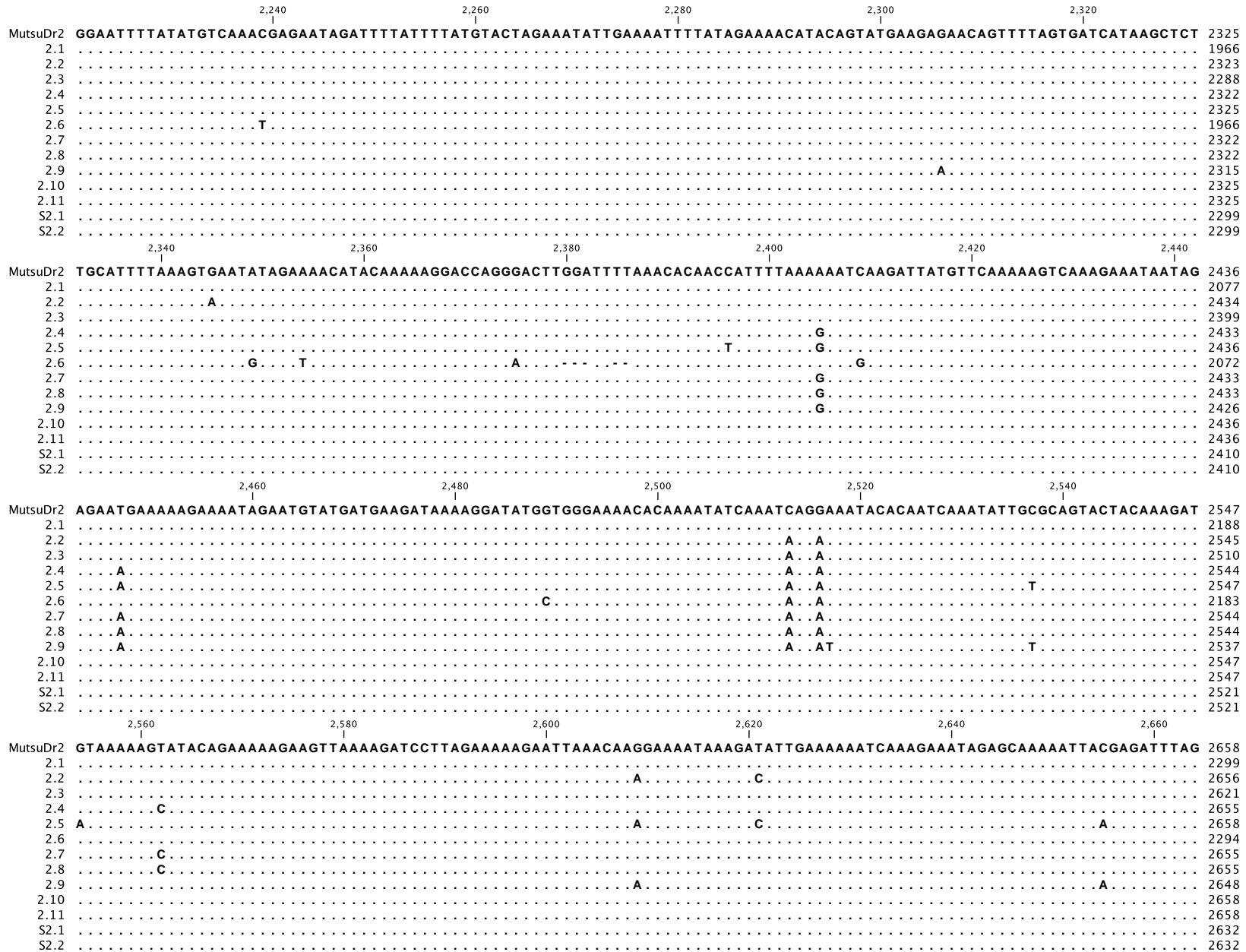
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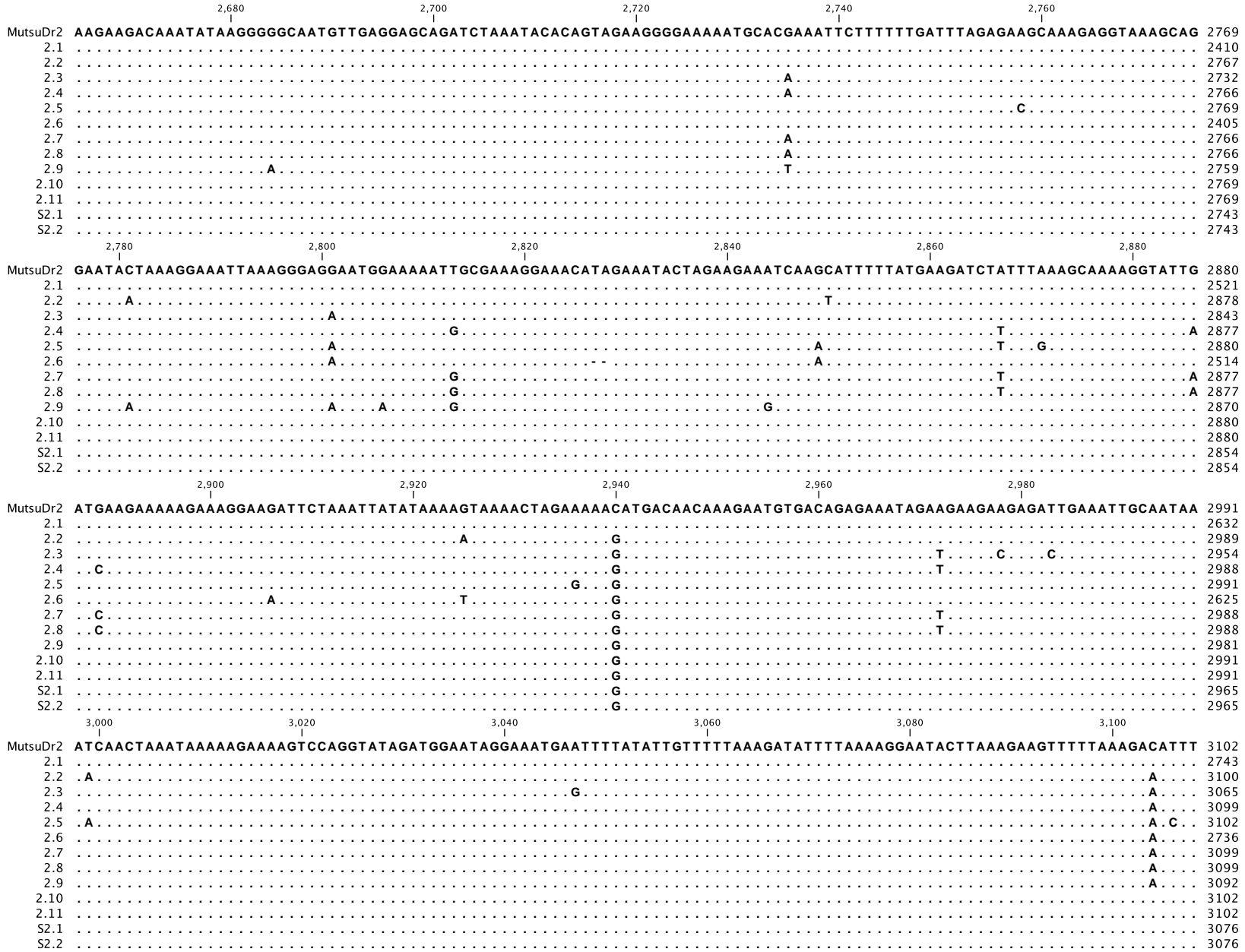
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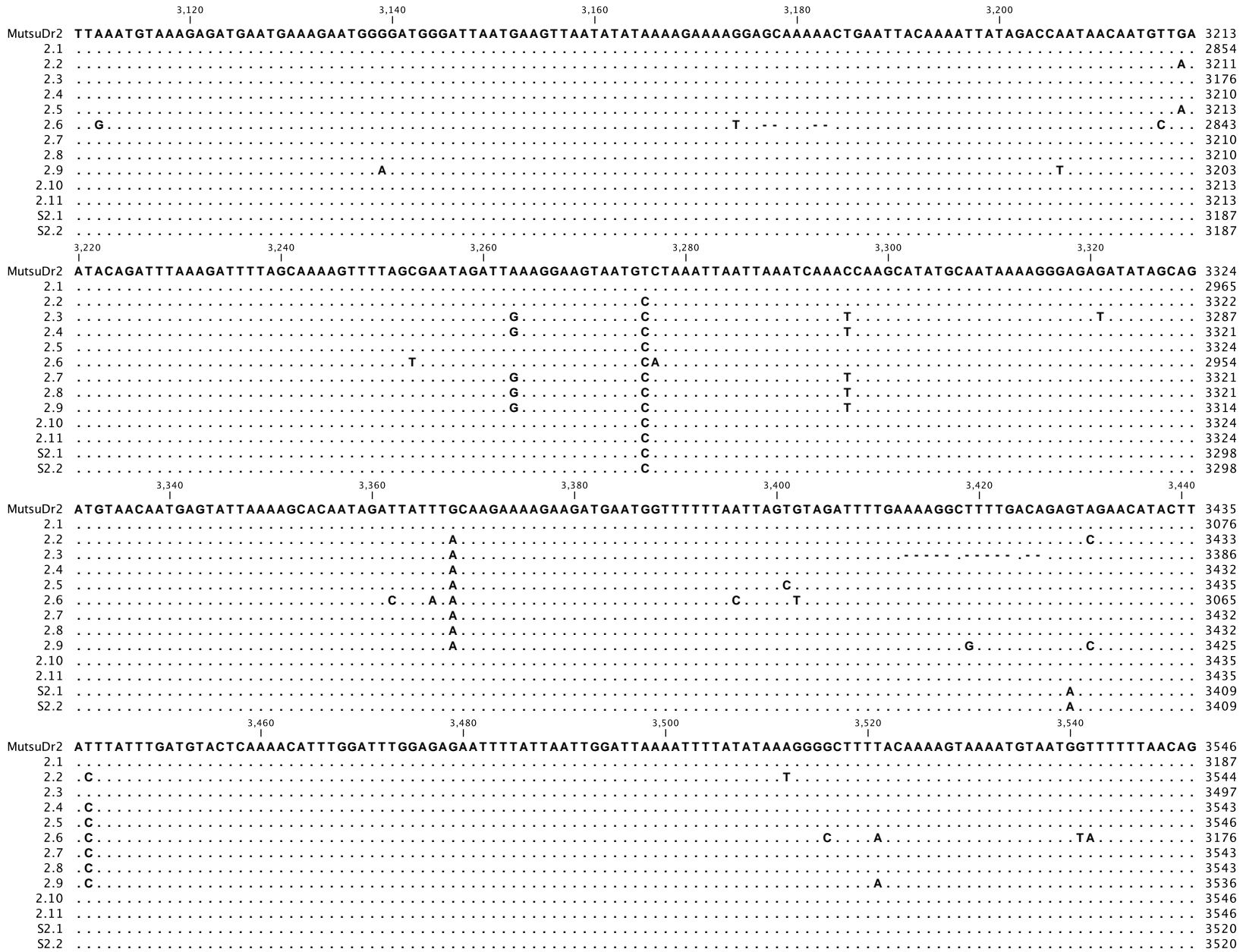
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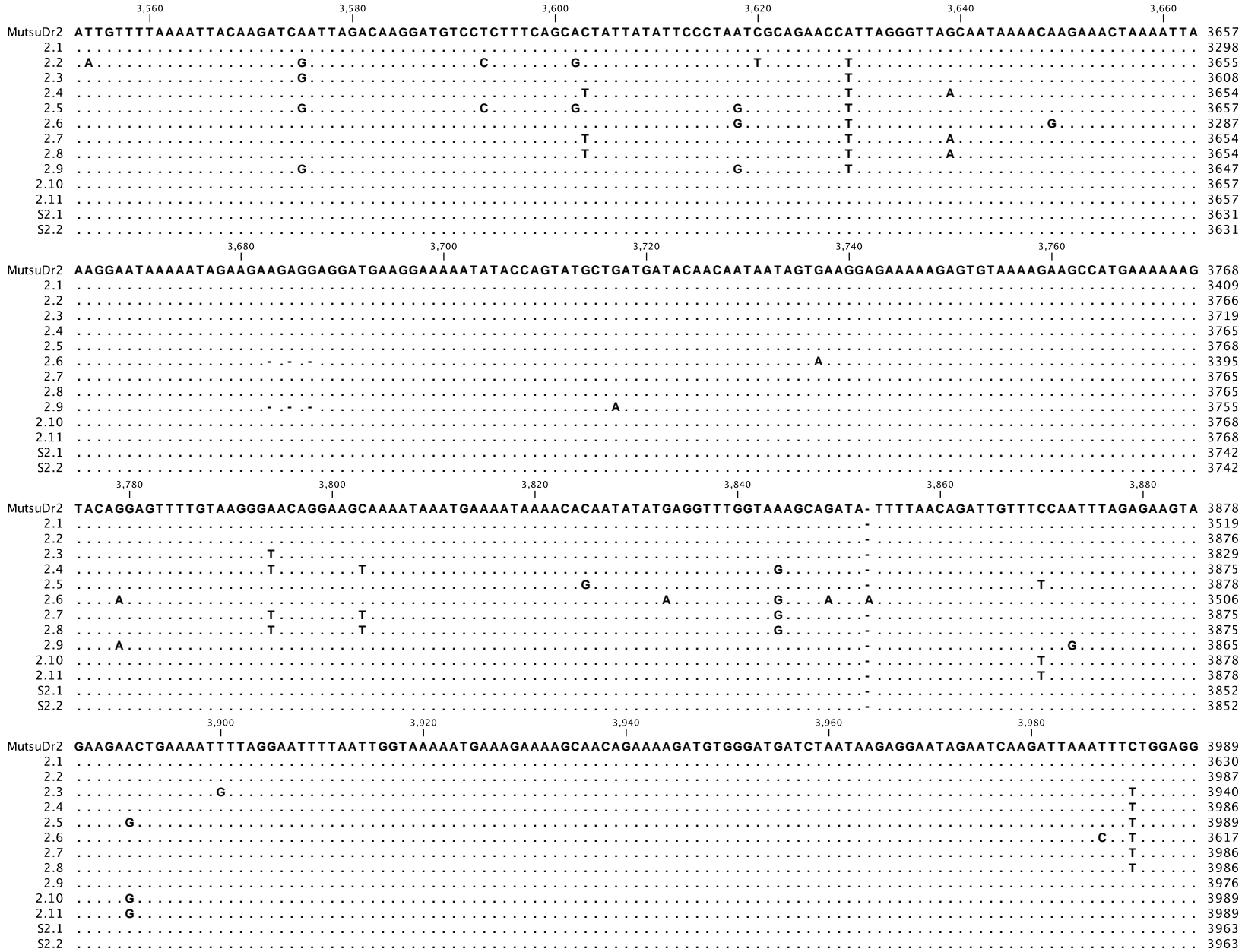
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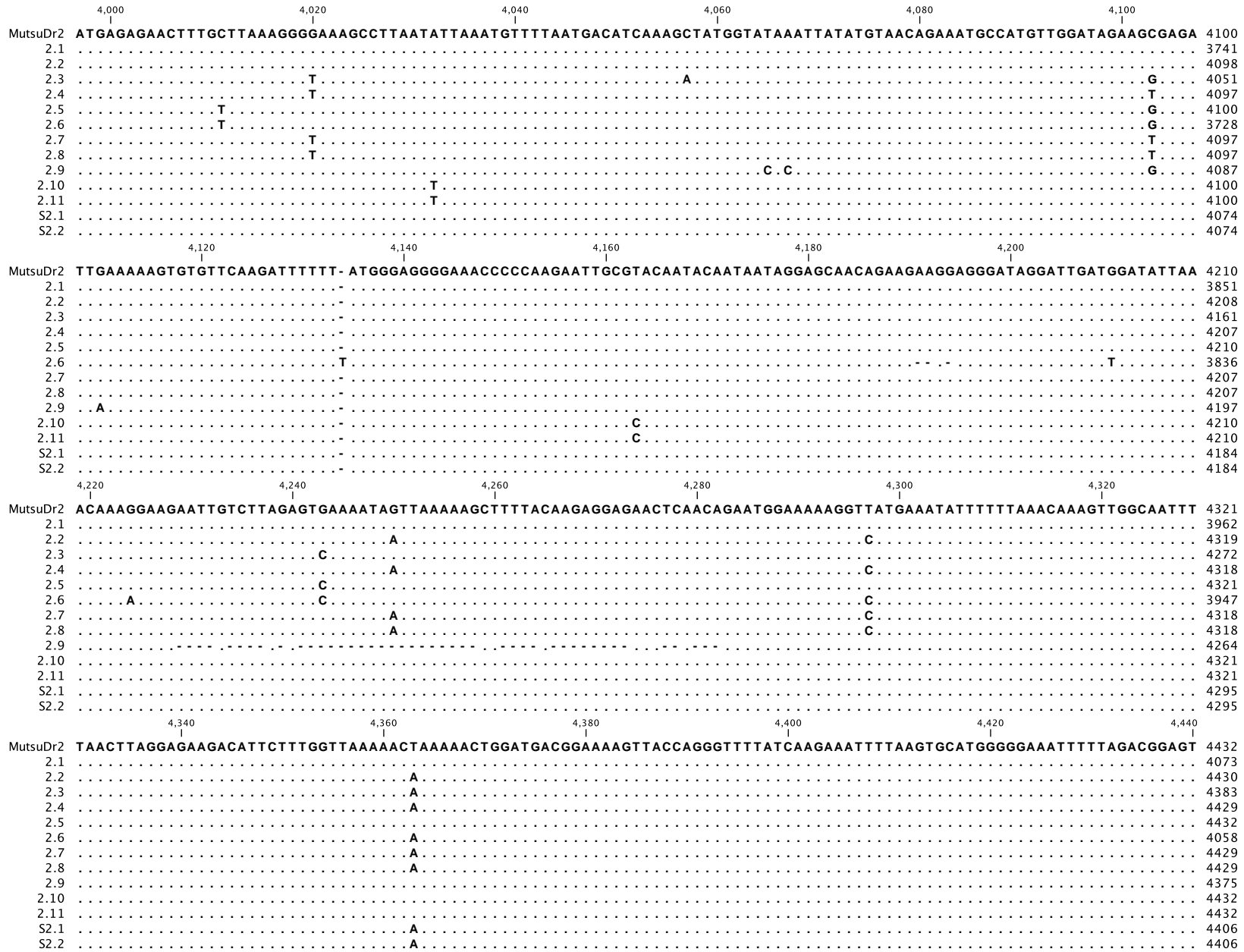
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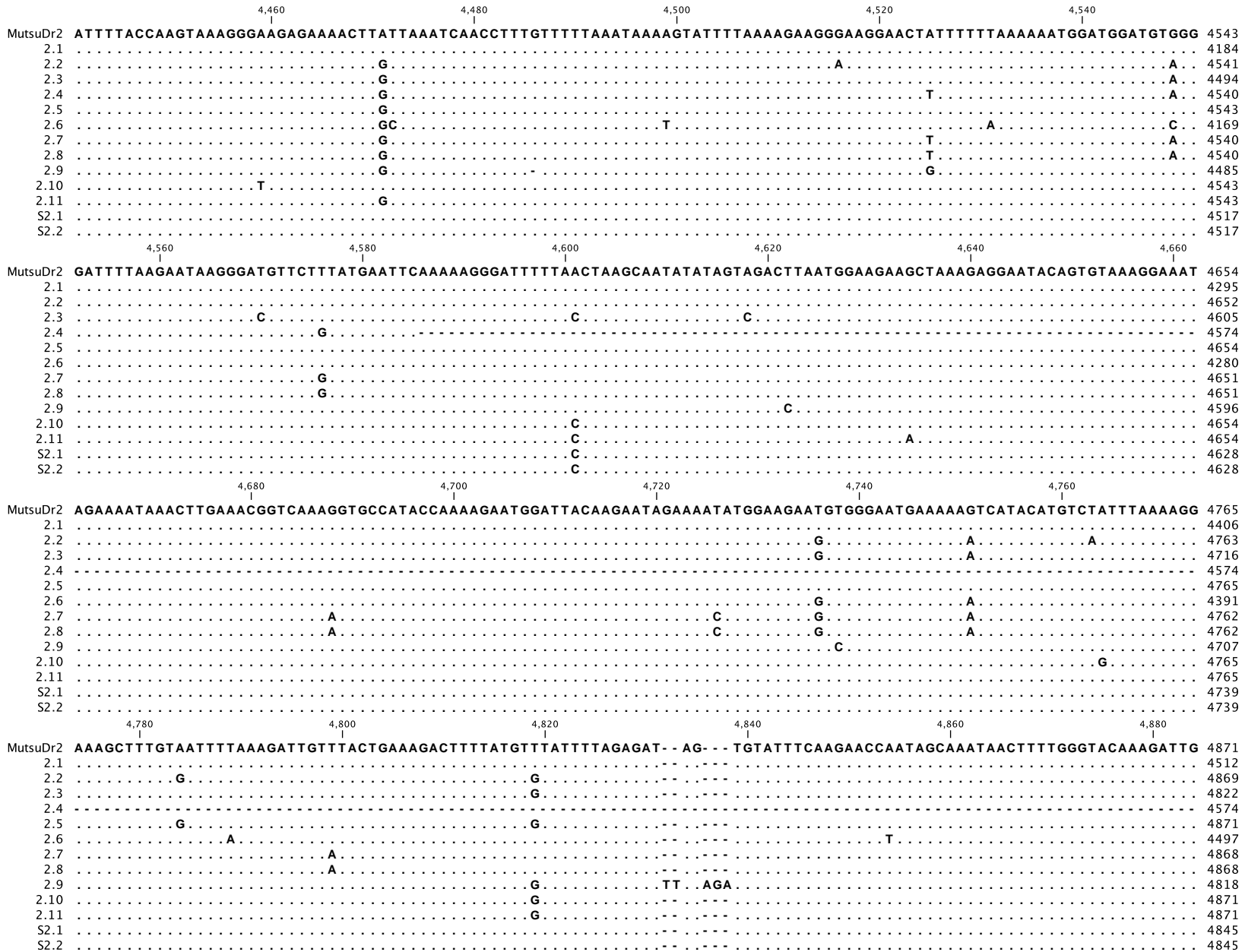
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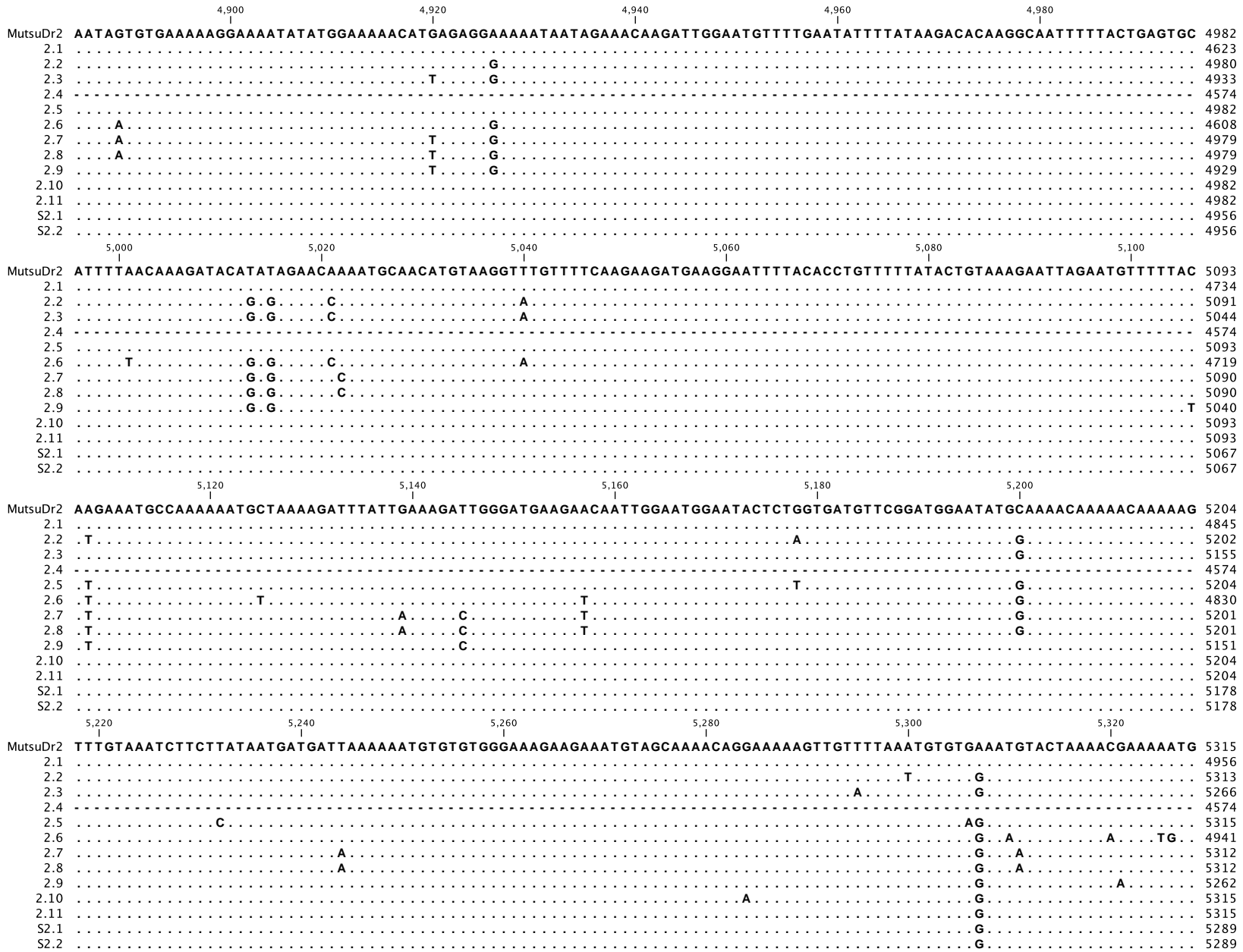
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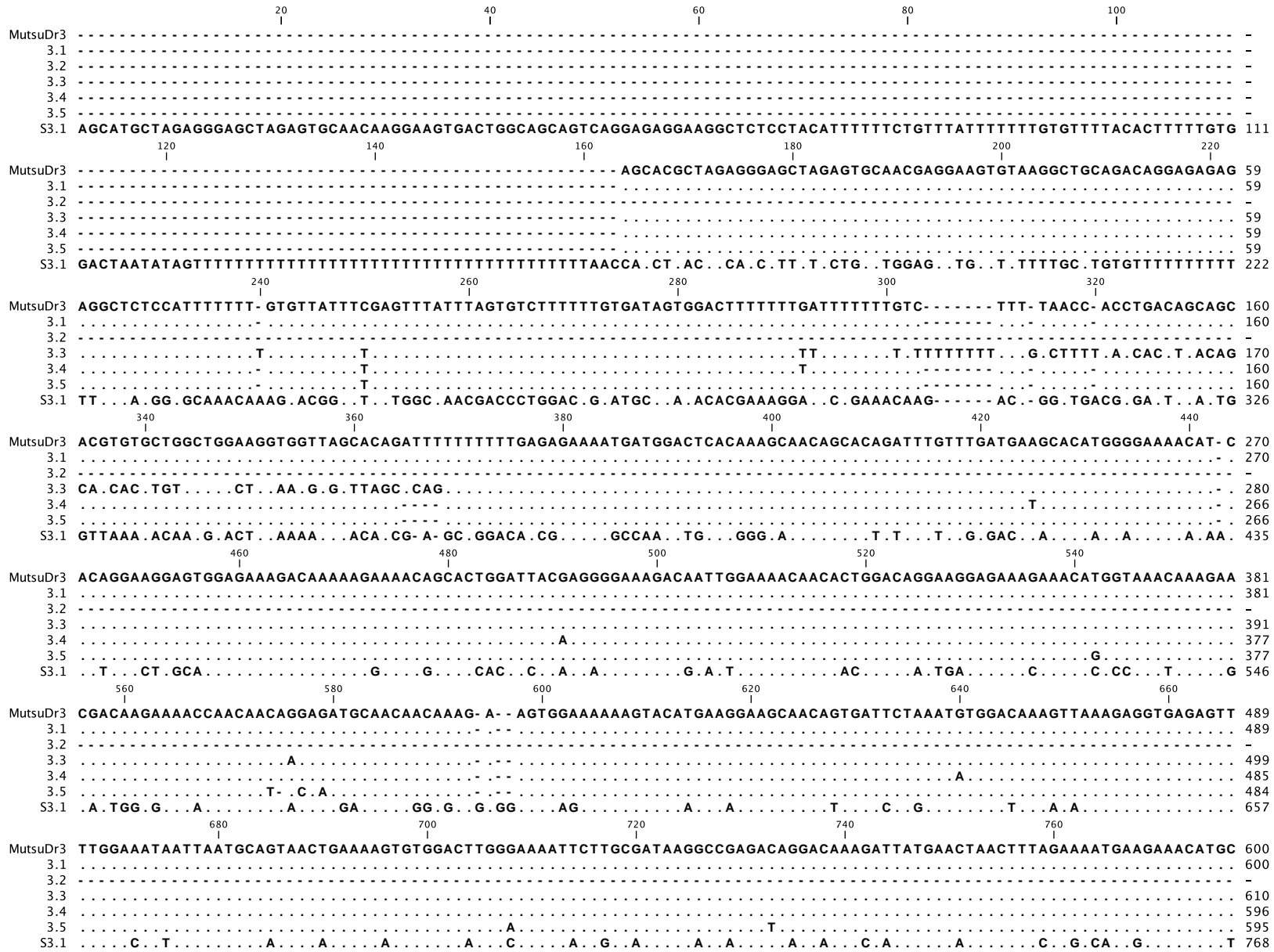
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		5,340		5,360		5,380		5,400		5,420						
MutsuDr2	GAAAGATACATAGAAAGACTGTA	CTGCTATTTTAAAGGAGAAGATATGTTACCAAGCTTTTATGATGTGTTTAAATGATGAAGTGTATAATGTTTTAAATGGTTTAAAGTGG									5426					
2.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5067	
2.2	.....	T.....	.....	G.....	.....	C.....	.....	A.....	.....	A	T	5424
2.3	.....	.....	.....	G.....	.....	.....	.....	A.....	.....	.....	.....	5377
2.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4574
2.5	.....	.....	G.....	.....	.....	C.....	.....	.....	.....	G.....	.....	5426
2.6	.....	A	A	T	G	C.....	.....	.....	.....	.....	G	5052
2.7	.....	A	A	T	G.....	.....	T.....	.....	A.....	.....	.....	5423
2.8	.....	A	T	G.....	.....	T.....	.....	A.....	.....	.....	.....	5423
2.9	.....	.....	.....	G.....	.....	.....	.....	.....	.....	.....	.....	5373
2.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5426
2.11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5426
S2.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5400
S2.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5400
	5,440		5,460		5,480		5,500		5,520		5,540					
MutsuDr2	AAATGCCCAAAGAGGATGTTATGTTATGAAGAATGTTGATTTAATGTAATTGTTTTGTGAAATTTCTTGAAGTATTTAAATGTTAATGTAATGTGATTAATTTTAATA										5537					
2.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5178
2.2	T	GT	T	T	G	TT	G	AT	5535		
2.3	T	T	T	T	G	TT	G	T	5488	
2.4	4574		
2.5	CT	T	T	T	A	TT	G	5537		
2.6	T	C	T	T	A	G	G	TT	G	AT	5163	
2.7	T	T	GT	G	G	G	G	AA	T	TTGAA	A	G	5533
2.8	T	T	GT	G	G	G	G	AA	T	TTGAA	A	G	5533
2.9	TT	5479
2.10	TT	AA	A	5537
2.11	TT	5537
S2.1	CAA	AAAAAAAAA	AAAAAAAAA	AA	AA	5478
S2.2	CAA	AAAAAAAAA	AAAAAAAAA	AA	AA	5478
	5,560		5,580													
MutsuDr2	AAAAATAAAAAA										5551					
2.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5192
2.2	.....	A.....	.....	AAAA.....	.....	.....	.....	.....	.....	.....	.....	5553
2.3	.....	A.....	.....	AAAAAAAAAAAA.....	.....	.....	.....	.....	.....	.....	.....	5514
2.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4574
2.5	.....	A.....	.....	AAA.....	.....	.....	.....	.....	.....	.....	.....	5554
2.6	.....	CA.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5175
2.7	.....	A.....	.....	GAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA.....	.....	.....	.....	.....	.....	.....	.....	5578
2.8	.....	A.....	.....	GAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA.....	.....	.....	.....	.....	.....	.....	.....	5578
2.9	.....	A.....	.....	AAAAAA.....	.....	.....	.....	.....	.....	.....	.....	5499
2.10	.....	A.....	.....	AAAA.....	.....	.....	.....	.....	.....	.....	.....	5555
2.11	.....	A.....	.....	AAAAAA.....	.....	.....	.....	.....	.....	.....	.....	5557
S2.1	.....	.....	.....	AAAAAA.....	.....	.....	.....	.....	.....	.....	.....	5478
S2.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5478

Supplemental Figure S9



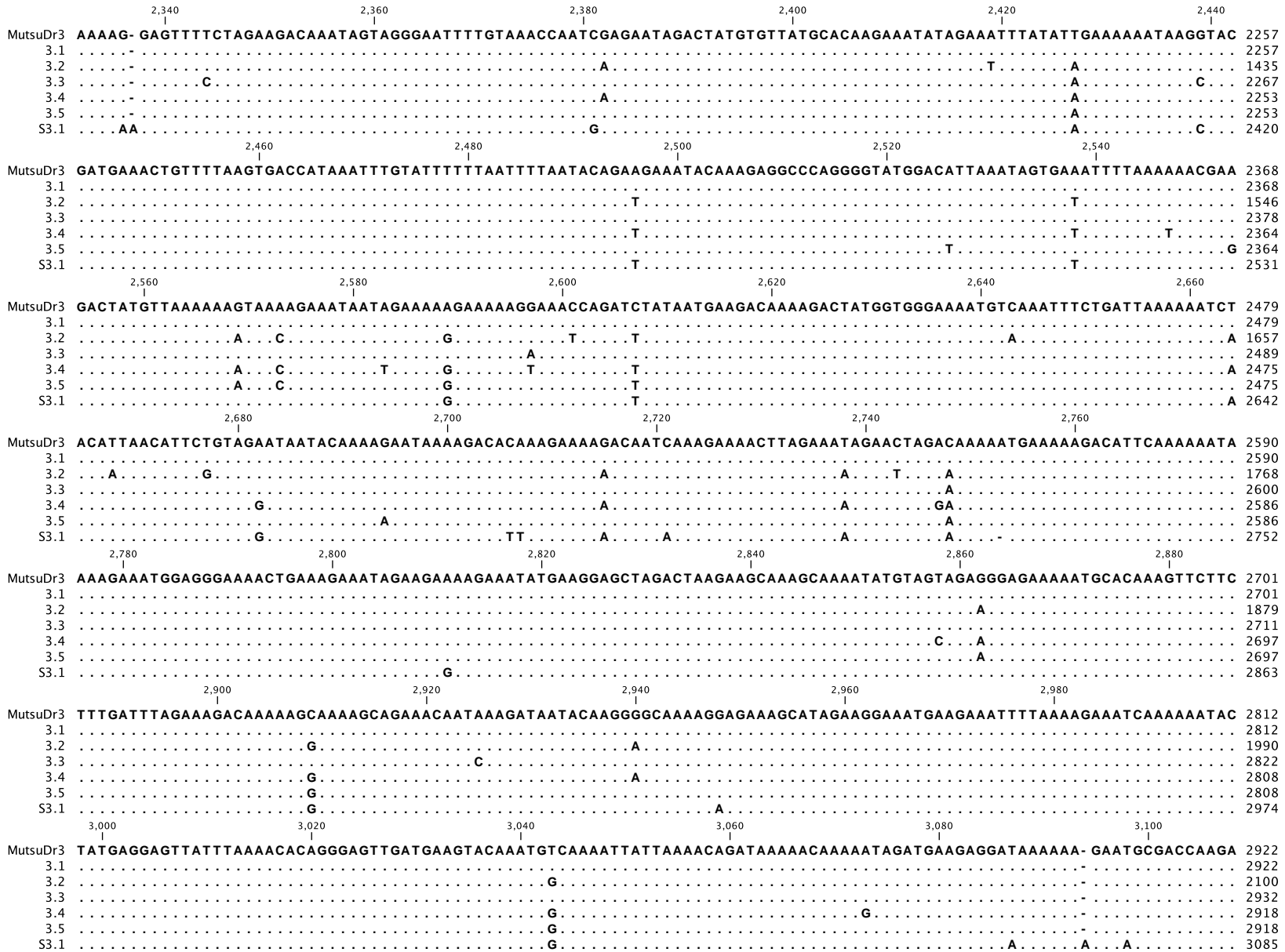
Supplemental Figure S9

	780	800	820	840	860	880	
MutsuDr3	GATAAAGCTGATGGATGGACTAATAATAAAAGGAGAAACCTGTGAAGTGAAAATGCTACAAAATAGAGACTACGTGGTTTCCTTCATGCATTGCCCCGTTACCTGGATGAT						711
3.1	.....						711
3.2	.....						-
3.3	.....						721
3.4	.....T.....						707
3.5	.....						706
S3.1	AC	A	T	A	T	GTT	T T A 879
	900	920	940	960	980		
MutsuDr3	CAATTAATATTAGATAAATTAGAAGGCTGGGGAGTATTTCCCATAAACAAAATTTAAAAGAAGGGTATATCCGGGCACAGAAATAGAAGATGGAACCTCGATATCTCAAAGTG						822
3.1	.....						822
3.2	.....CA						6
3.3	.....						832
3.4	.....						818
3.5	.....						817
S3.1	A	T	T	C	G	T	C A T G TT C T G T G C A A C T A T CA 990
	1,000	1,020	1,040	1,060	1,080	1,100	
MutsuDr3	AGATTCCCCAGAGAAGTGATATCTCTCCCTTACAGCACAAAGACTGGAACGGCAGAAAGTTCAGCAATATTTTAGGGTGATGCACAGCCACCAGGTTAAGACTTGTAGGCTG						933
3.1	.....						933
3.2	G T A AG T C A T G AG A GAT G AT A G C						117
3.3	.....						943
3.4	.....						929
3.5	.....						928
S3.1	G	T	A	AG	T	C	A T G AG T A AT A G C 1101
	1,120	1,140	1,160	1,180	1,200	1,220	
MutsuDr3	TGCATGAGCCCTGACCATATGGTCAAAGATTGCCAGACTTTAAATGCCATAAATGTGAGGAAAGGGGACATTTTGCCAGAGACTGCGATGCTATTAAGTCCCCGGACTGC						1044
3.1	.....						1044
3.2	A C C T T T C G G A A G A C A C G A T						228
3.3	.....						1054
3.4	.....						1040
3.5	.....						1039
S3.1	A	C	C	T	T	C	G G A A G A C A C G A T T 1212
	1,240	1,260	1,280	1,300	1,320		
MutsuDr3	CAGAACTATTTAAGTAAGTGTGAATGTTGGATGGAGGAAGAGGAGGAGGAGGA - T - GAGATCCAGGTGAGTGGGCAAAATGCATGAAGGAAACAGTGAAAAGGAAAGTAAAT						1152
3.1	.....						1152
3.2	TA A A T A C GG T A C G G T						339
3.3	.....						1162
3.4	.....						1148
3.5	.....						1147
S3.1	TA	A	A	T	A	C	GG T A C G G T G 1323
	1,340	1,360	1,380	1,400	1,420	1,440	
MutsuDr3	GAAGAGGAACAAACAACGACACAAACAATACAAACTACAACAGAGGAAATAACATTGAAGGAGGAGAATGCAAAAAAGAAAAGGAAAAAGAAAACAGAAACAGACAGTCAA						1263
3.1	.....						1263
3.2	GA A AG T GT CA C T G C GG G T						441
3.3	.....						1273
3.4	.....						1259
3.5	.....						1258
S3.1	TA	A	AG	TG	GT	CA	C T G C GG G T G 1425
	1,460	1,480	1,500	1,520	1,540		
MutsuDr3	CAAATAGAGCATGAAGAGGAGGTAGCATGGACACCAATGGACATAACTTCTAGCTTCAAAAACGTTTTGGATGTAATTGAAAAAGAGGATCTTAAAGAACAAGCAAGGGA						1374
3.1	.....						1374
3.2	C G CT T C C AC C T T G A C CA T T T A CT A A						552
3.3	.....						1384
3.4	.....						1370
3.5	.....						1369
S3.1	C	G	CT	T	C	C	AC C T T G A C CA T T A T T A CT A A 1536

Supplemental Figure S9

	1,560	1,580	1,600	1,620	1,640	1,660	
MutsuDr3	ACAGACAGAGAGACTGGAAAAATGAGGAGGAAGTAGAAAAAGACAACTTGAGAAAAGACAACAAGACGATCGGCCAAAAGTTTTATCAAAATTAGAACTGCAAGAAAA						1485
3.1	.....						1485
3.2	. . . . . A A AG A T ACT G TT TA G G A CG T A G A C G						663
3.3	. . . . . G						1495
3.4	. . . . . G						1481
3.5	. . . . . G						1480
S3.1	. . . . . A A AG A T ACT G TT A G G A CG T A G A C G						1647
	1,680	1,700	1,720	1,740	1,760		
MutsuDr3	AAGGGTTTGAAAAAAGGACAACACTGAAAAGCCACAACAGATATGATTCTTTGAGAGGTTTGGGAGAAGAAGAGGACTAAGATGACGGTTTTTATTTCTTTTCTTTCTTTT						1596
3.1	.....						1596
3.2	. . . . . A T T T TC T G T GA CC A CT AGG T						774
3.3	.....						1606
3.4	.....						1592
3.5	.....						1591
S3.1	. . . . . A T T T TC T G T GA CC A CT AGG T						1755
	1,780	1,800	1,820	1,840	1,860	1,880	
MutsuDr3	AATGGTTTTAAATTGCGTGTCTTTAATGCAAGAGGTTAATGGACTTAAGAAAATTTAAGAATGTAAGGAAAAATGTAAAAGAGAAGAAATAATTATTTTACAAGAAAC						1707
3.1	.....						1707
3.2	. . . . . T T CC A						885
3.3	.....						1717
3.4	. . . . . T						1703
3.5	.....						1702
S3.1	. . . . . T T CC A						1866
	1,900	1,920	1,940	1,960	1,980		
MutsuDr3	AAATTGGAAAAATGAGGTGATGGACATATATAAAAAA- GAATGGGATGGGGACTTTTATTATAGTAATGGAGATACGAAAGCTGGGAGAGGAGTAGCAATTTTATAAAGA						1817
3.1	.....						1817
3.2	. . . . . T A G						995
3.3	.....						1827
3.4	.....						1813
3.5	. . . . . T						1812
S3.1	. . . . . T G A						1977
	2,000	2,020	2,040	2,060	2,080	2,100	
MutsuDr3	AGAATGCACTGCAAATGAGTAAAGTAATATATAAAGACAAACAAGGAAAATGTATGATATTAGAAATAAAATATGAAGGGAAAGATATTATTTTAGTTAATGTGCATGCAC						1928
3.1	.....						1928
3.2	. . . . . G C A A C						1106
3.3	. . . . . C						1938
3.4	. . . . . C						1924
3.5	. . . . . C						1923
S3.1	. . . . . C A A C						2088
	2,120	2,140	2,160	2,180	2,200	2,220	
MutsuDr3	CAAAATGAAGAGAGTGAAAAGAAAAGCTTTTTT- - AACATATTAAGAAGGTTTTTAAAAAA- CTATAAACAAATAATAGTATGTGGGGATTTTAACTGTTTTTAGCAGAC						2036
3.1	.....						2036
3.2	. . . . . C T C						1214
3.3	.....						2046
3.4	. . . . . T						2032
3.5	. . . . . C T A A C						2032
S3.1	. . . . . C T TT A C						2198
	2,240	2,260	2,280	2,300	2,320		
MutsuDr3	AGGACATAACAGAAGGTATGGTTTTTAAATCAGACACGGGAAGGAAAGAACTAAAATCACTAATAGAGGAAAAAGGAATGATAGACATTTGGAGAGAAAGAAATGGGAAGA						2147
3.1	.....						2147
3.2	. . . . . A						1325
3.3	.....						2157
3.4	.....						2143
3.5	.....						2143
S3.1	. . . . . A						2309

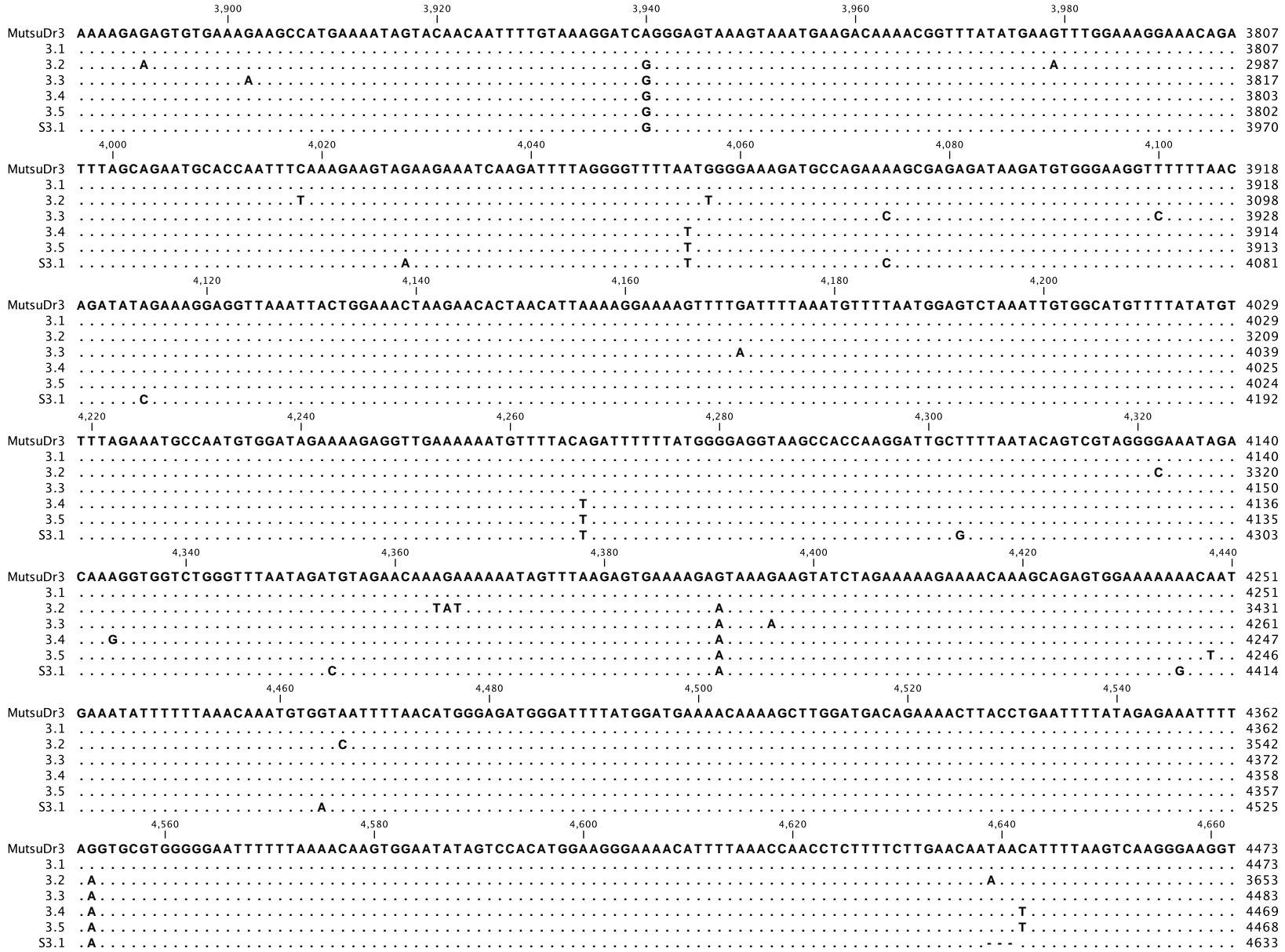
Supplemental Figure S9



Supplemental Figure S9

		3,120		3,140		3,160		3,180		3,200			
MutsuDr3	AATAGGGGAAGAAGAAATAAGAAAAGCAATAGAAAGCTTGAACAAAAAGAAAAGTCCAGGAATCGATGGTTTAAATAGTGAATTTTATGTATGTTTTAAAGAAATTTTAAAT											3033	
3.1	.....											3033
3.2	.....							A				2211
3.3	.....							A				3043
3.4	.....							A				3029
3.5	.....											3029
S3.1	.....	A		A				A			C	3196
		3,220		3,240		3,260		3,280		3,300		3,320	
MutsuDr3	TCCGATTTTAACTGACGTTTTTAAAGAAATACTGCAAAAAGAAAGAACTAAATGAAAGAATGGGAATGGGATTAATGAAATTAATACACAAAAAA-GGAGAAAAGACATTGT											3143	
3.1	.....											3143
3.2	.....	A		T				G				2321
3.3	.....			G			G					3153
3.4	.....	A		T			G					3139
3.5	.....	A		T			G					3139
S3.1	.....	A									A	3307
		3,340		3,360		3,380		3,400		3,420		3,440	
MutsuDr3	TAAAAAATTACAGACCAATCACAATGTTAAACACAGATTTAAAGATTTTAAACAAAAATTTTAGCAAATAGATTTAAAGAAGTGATGCCAAAAATAATTAACAACACACAGG											3254	
3.1	.....											3254
3.2	.....					G						2432
3.3	.....					G						3264
3.4	.....					G						3250
3.5	.....	A				G						3250
S3.1	.....					G						3418
		3,460		3,480		3,500		3,520		3,540			
MutsuDr3	CCTATGCGATAAAAAGGAGAGACATAGCAGACATAACAATGAGCATAAAAAGACATCATAGAATATATGAAGGAGAAAAAAGAGGAAGGATATATAATAAGTCTGGATTTTG											3365	
3.1	.....											3365
3.2	.....											2543
3.3	.....											3375
3.4	.....											3361
3.5	.....											3361
S3.1	.....			T								3529
		3,560		3,580		3,600		3,620		3,640		3,660	
MutsuDr3	AAAAAGCTTTTGATAGAGTTGAACACCAGTTTTTATTCAAAGTACTCAAAAAGTTTGGTTTTGGAGAAGTTTTTAGAAAATGGATAAAGA-T-TTGATAAGGGTATTTT												3474
3.1	.....											3474
3.2	.....									GG	A	2654
3.3	.....											3484
3.4	.....											3470
3.5	.....					G						3470
S3.1	.....										T	3638
		3,680		3,700		3,720		3,740		3,760			
MutsuDr3	AACAAAAATTAATGTAATGGCTTTTTAACAGAATGTTTTAAATAACAAGATCGATAAGGCAAGGATGTCCTCTGTCAGCACTTTTATATTCACCTTGTGGCAGAACCCT												3585
3.1	.....											3585
3.2	.....		A									2765
3.3	.....		A				A		C			3595
3.4	.....		G									3581
3.5	.....											3581
S3.1	.....					A						3749
		3,780		3,800		3,820		3,840		3,860		3,880	
MutsuDr3	GGGCTTAGCTATCAACGAAGAAGAAAAATAAAAGGAATTGAGATTGAAGAAAATAAAGTAAATAAAAAAATGTTTCAATATGCAGATGACACCACATTAATAGTAAAAGG												3696
3.1	.....											3696
3.2	.....										T	2876
3.3	.....										T	3706
3.4	.....										T	3692
3.5	.....										T	3691
S3.1	.....										T	3859

Supplemental Figure S9



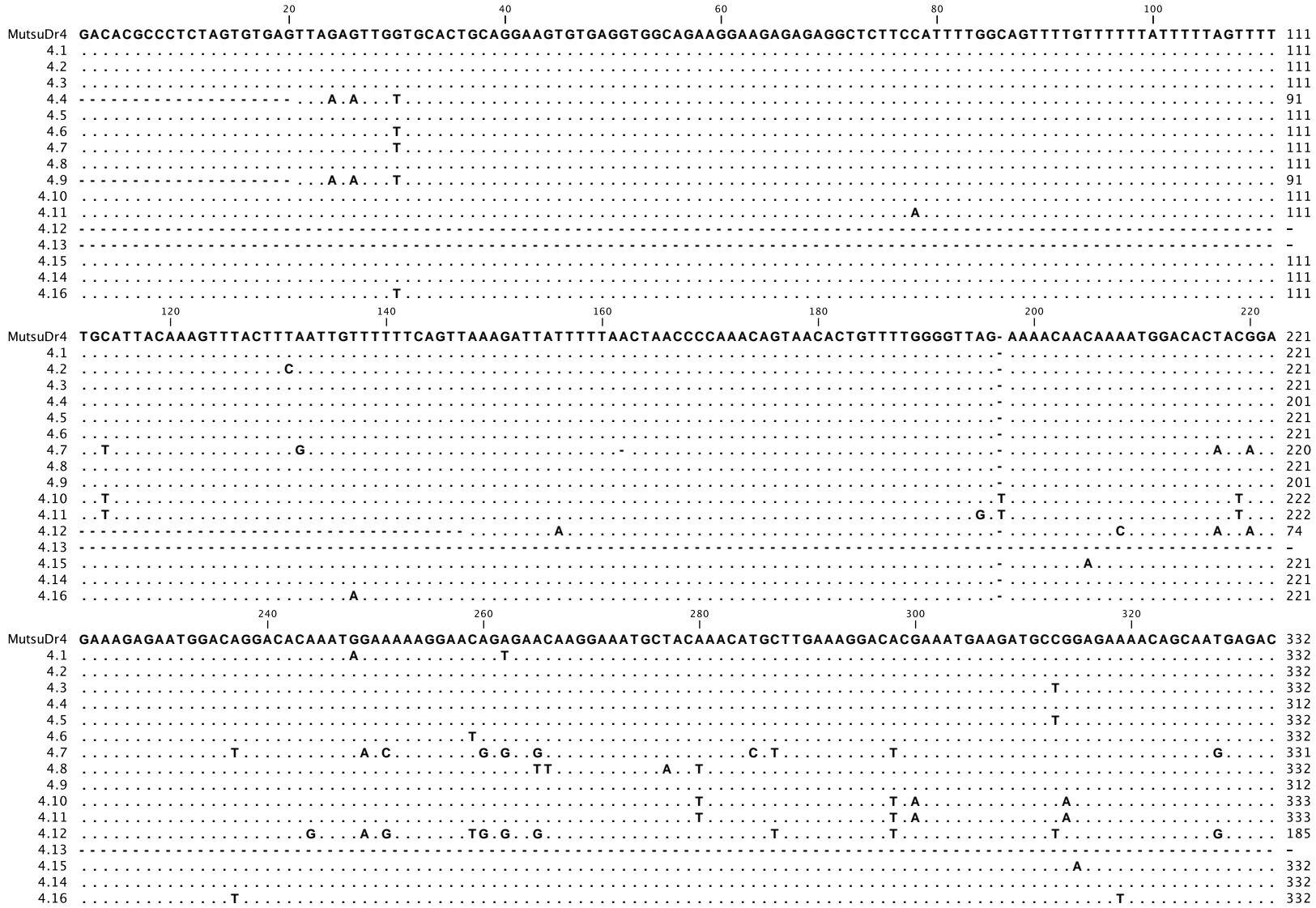
Supplemental Figure S9

		4,680	4,700	4,720	4,740	4,760	
MutsuDr3	TTTATACTATAAGAAATGGATAGAAAGTTGGGATTTTAAAAGT						4584
3.1	.....						4584
3.2	.....				T		3764
3.3	.....					G	4594
3.4	.....						4580
3.5	.....						4579
S3.1	.....					A	4744
		4,780	4,800	4,820	4,840	4,860	4,880
MutsuDr3	GGCGAAAGAGGAATACAACAGAAAGGAAATTGAGAAAAATCTTGACATAATTAACAGGCAATTC						4695
3.1	.....						4695
3.2	.....			G		A	3875
3.3	.....					C	4705
3.4	.....			G		A	4691
3.5	.....			G		A	4690
S3.1	A.....			G		A	4855
		4,900	4,920	4,940	4,960	4,980	
MutsuDr3	AACAAAAGAAAGTGTATGTGAAACAGGTGAAAAAATATGCAATTTTAATGAATGTACTGTGAAAAATATTTATTGTTTTTTT-AGAGAGAATGTTTTTAAAGAACCAACAG						4805
3.1	.....						4805
3.2	.....						3985
3.3	.....		G				4815
3.4	.....						4801
3.5	.....						4800
S3.1	.....		G.T		T		4966
		5,000	5,020	5,040	5,060	5,080	5,100
MutsuDr3	CAACAATACTGGATAGAGAAATACAAAATGTAAGAACAATGAAATATGGGGAACATGAAAGGAAGGTATGTGGAACAAAAGTCGAATGTCTAGAATTTTTAATAA						4916
3.1	.....						4916
3.2	.....				C		4096
3.3	.....					T	4926
3.4	.....					A	4912
3.5	.....					A	4911
S3.1	.....			A		A	5076
		5,120	5,140	5,160	5,180	5,200	
MutsuDr3	GGCACAAGCAATCTTTTCTGATGTCATTTTAAACAAGATAGGAATGGAACAAAGTGGAATGTGTAAGTATGTCAAAAAGAAGAGGGTTTTTACACATGTTTTTAT						5027
3.1	.....						5027
3.2	.....					G	4207
3.3	.....			G			5037
3.4	.....			G			5023
3.5	.....			G			5022
S3.1	.....			G		A	5187
		5,220	5,240	5,260	5,280	5,300	5,320
MutsuDr3	ATTGTCAAAAATTGGAAGGTTTTTAAAAGATTGTAAGTTTTAATTAAGGACTACTTGGAGACTGGGATGAAAATGAAACAGAATGGAACAGAGTAGTGATGTTGGGAT						5138
3.1	.....						5138
3.2	.....						4318
3.3	G.....			A			5148
3.4	G.....						5134
3.5	C.G.....						5133
S3.1	G.....						5298
		5,340	5,360	5,380	5,400	5,420	
MutsuDr3	GGAATAAGAACAATGAAAATAA-GAAAATAGTAAACCTATGTATAATGCTGATGAAAAATGCAATGTGGGAAAGGAGAATTGTGGCAAAAAGAGAAAATGGTGATGGAT						5248
3.1	.....						5248
3.2	.....				A		4428
3.3	.....					G	5258
3.4	.....						5244
3.5	.....						5243
S3.1	.....		G.T				5409

Supplemental Figure S9

	5,440	5,460	5,480	5,500	5,520	5,540	
MutsuDr3	GTATGGGGAATTTTAAAGAGGAAAATGGAGAGATATGTGGAAAACTGTATGTATATCATAAAAATGAGAACATTTTGAGTGAGCTGCACAAAATTCTGACGGACAAAGCA						5359
3.1	.....						5359
3.2	.....A.....						4539
3.3	.....G.....						5369
3.4	.....A.....						5355
3.5	.....A.....						5354
S3.1	.....A.....T.....T.....G.....A.....						5520
	5,560	5,580	5,600	5,620	5,640	5,660	
MutsuDr3	TGTCAAGTTTTTAAAGAAATGAACTGGAACTACCACATTTTAAATGTTTTGAATATGAAATGATCTTTTAAATGTCTGTTTTATTATGATTTACTGTAAAAGATTGTAAT						5470
3.1	.....						5470
3.2	A.....G.....						4650
3.3	.....A.....						5480
3.4	.....T.....						5466
3.5	.....AAA.AA.AA.AAA.AAAA.....A.AAAA.A						5465
S3.1	.....G.G.....						5631
	5,680	5,700					
MutsuDr3	TGAAATTGGTTCAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA--						5520
3.1	.....						5520
3.2	.....AAA						4703
3.3	C.....						5523
3.4	.....						5509
3.5	AAG.....						5468
S3.1	.....G.....						5667

Supplemental Figure S9



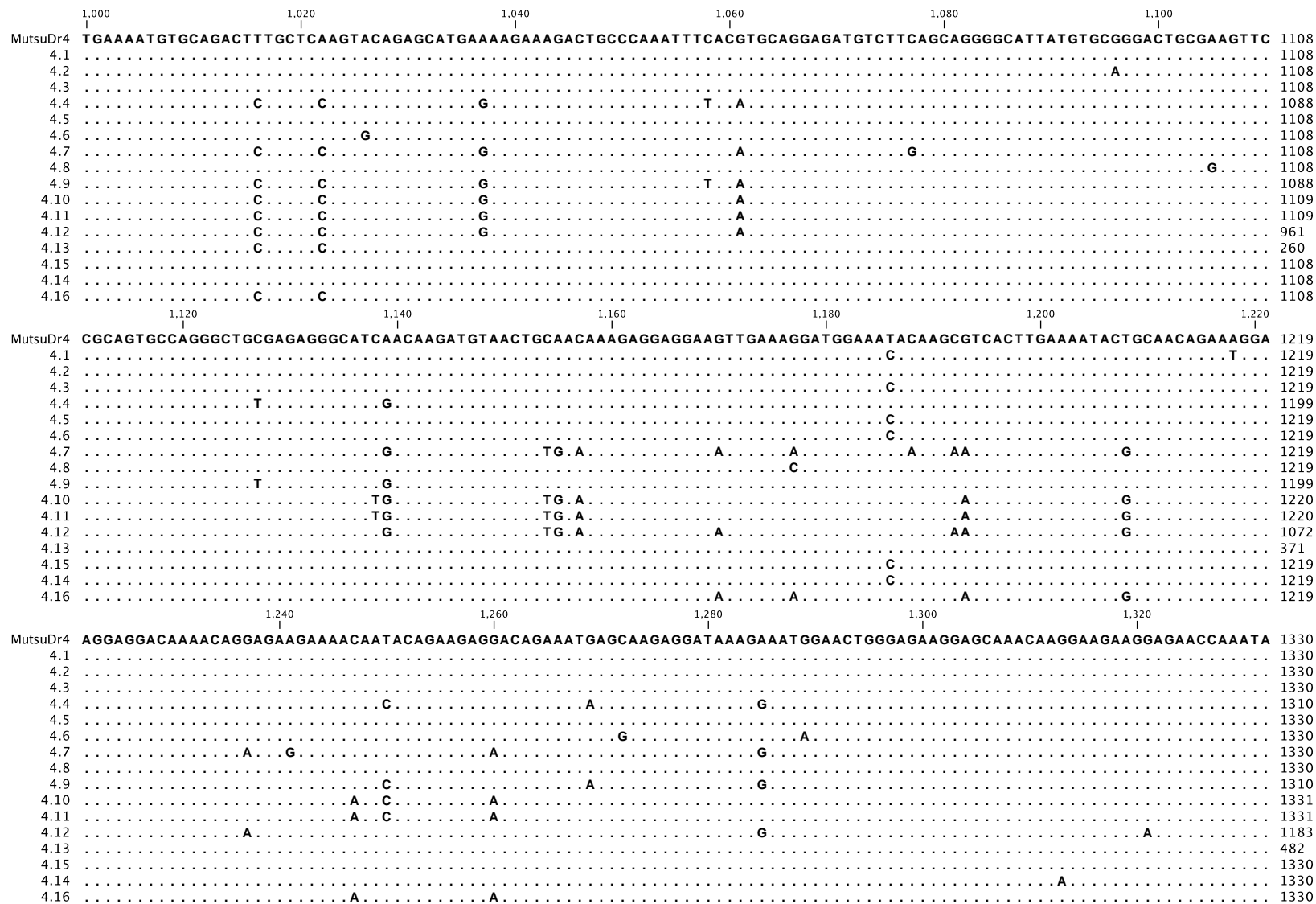
Supplemental Figure S9

	340	360	380	400	420	440	
MutsuDr4	ATGGGCAACAGTTGTCTCAAAGAAAAAGAAAGGAAAAGGAGGTGGTCAAGAAAAGAAAGGGGATCTACAATCAATTGCAAGTATTGAAAAGTGAAAAGAATACTGAAGGACA						443
4.1	.....G.....TA.....						443
4.2	.....G.....TA.....						443
4.3	.....G.....TA.....						443
4.4	.....G.....TA.....T.....						423
4.5	.....G.....TA.....						443
4.6	.....G.....TA.....						443
4.7	.....T.....A.....A.....T.....						442
4.8	.....A.....A.....A.....T.....						443
4.9	.....T.....C.A.....C.....T.....T.....						423
4.10	.....T.....C.A.....C.....T.....T.....						444
4.11	.....T.....C.A.....C.....T.....						444
4.12	.....T.....G.....T.C.A.....A.....T.....						296
4.13	-----						-
4.15	.....G.....TA.....						443
4.14	.....G.....TA.....A.....						443
4.16	.....A.....T.....						443
	460	480	500	520	540		
MutsuDr4	AAGGAATGCTTTAAGTCAAAAACAACAAATGCTGAACAAACTAAAGAAGCAAGCAAGATATCAAAGAGAATATAAGAAGGAA- GCCACACTGACAATGATGATAAAGGATG						553
4.1	.....T.....A.....						553
4.2	.....T.....A.....						553
4.3	.....T.....A.....						553
4.4	.....G.C.....G.C.....A.....G..GA..CA						533
4.5	.....T.....A.....						553
4.6	.....T.....A.....						553
4.7	.....G.....G.....G.C.....A.A.....A.....G..GA..CA						553
4.8	.....G.....G.....G.C.....A.A.....A.....G..GA..CA						553
4.9	.....G.....G.....G.C.....A.....G..GA..CA						533
4.10	.....G.....A.....G.C.....A.....G..GA..CA						554
4.11	.....G.....A.....G.C.....A.....G..GA..CA						554
4.12	.....G.....A.....G.C.....A.....G..GA..CA						406
4.13	-----						-
4.15	.....T.....A.A.A.....G..GA..CA						553
4.14	.....T.....A.A.A.....G..GA..CA						553
4.16	.....T.....A.A.A.....G..GA..CA						553
	560	580	600	620	640	660	
MutsuDr4	TTGAAAACACTCAACTATAAACAACATAATCAAAGCAGTTGAAGACAAAGTGGGGATTGGCAAATTAATTGGACTGAGAAGGAAAAACAACAATGAATTTGAACTGACAATGG						664
4.1	.....C.....C.....						664
4.2	.....C.....C.....						664
4.3	.....G.....T.....A.....C.....C.C.....A.....						644
4.4	.....G.....T.....A.....C.....C.C.....A.....						664
4.5	.....G.....T.....A.....C.....C.C.....A.....						664
4.6	.....G.....T.....A.....C.....C.C.....A.....						664
4.7	.....T.....T.....A.....C.....C.C.....A.....						664
4.8	.....T.....T.....A.....C.....C.....C.....						664
4.9	.....G.....T.....A.....C.....C.....A.....						644
4.10T.....G.....C.....C.....A.....						665
4.11T.....G.....C.....C.....A.....						665
4.12G.....T.....A.....C.....C.....A.....						517
4.13	-----						-
4.15G.....C.....C.....A.....						664
4.14T.....G.....C.....C.....A.....						664
4.16T.....G.....C.....C.....A.....						664

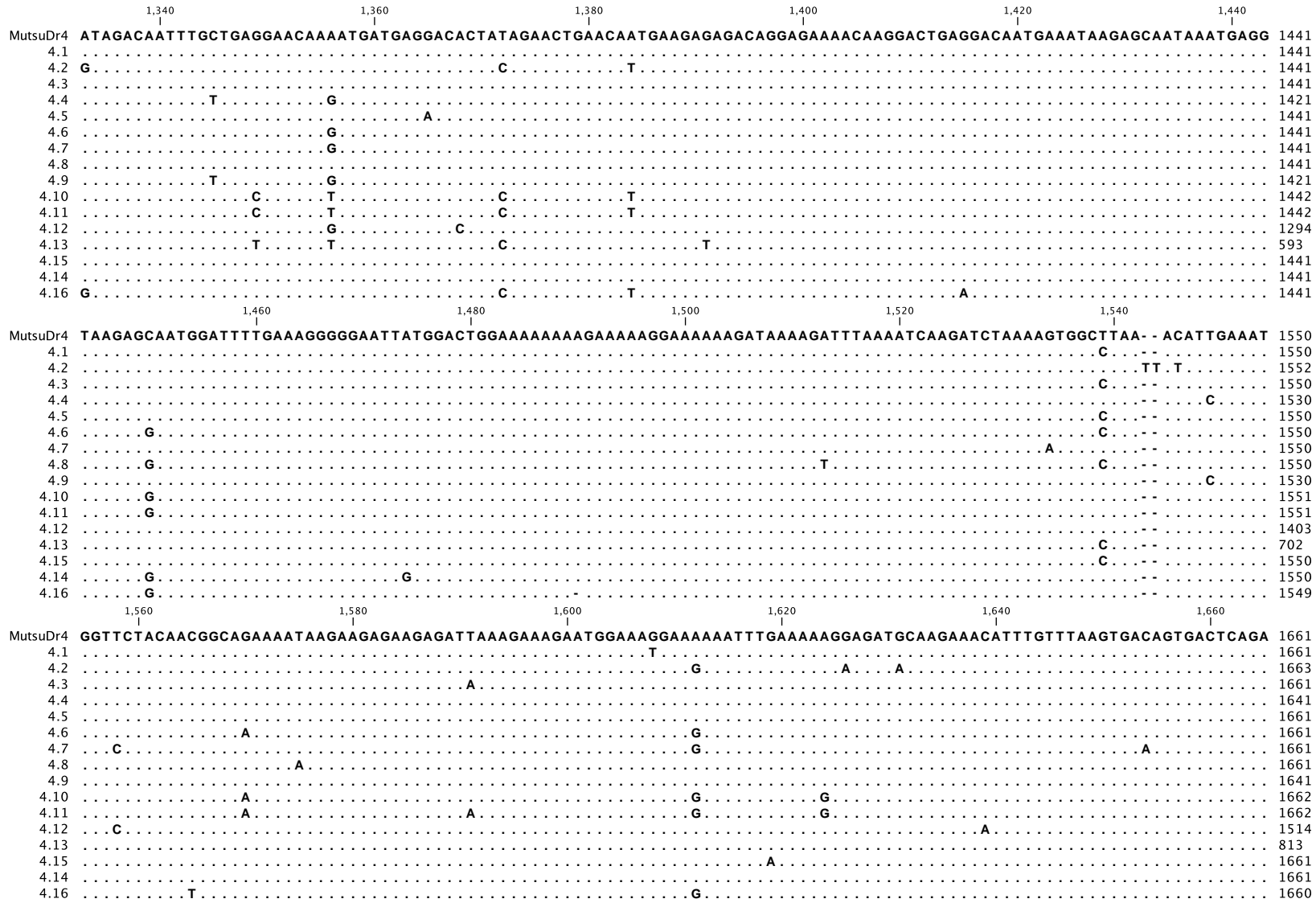
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		680		700		720		740		760		
MutsuDr4	AAAGTGAAAAGAATGCGAGATATTGATAAACGGACTGATGATTAATGGAGAAGAATGTGAAGTGAAAAGCTGTGTGCAACAGAAAAATGGTATCTTTCCTGAACTTGC										775	
4.1	.....T.....T.....										775	
4.2	.....										775	
4.3	.....T.....										775	
4.4	.....T.....GA.....										755	
4.5	.....T.....										775	
4.6	.....T.....										775	
4.7	.....T.....GA.....A.T.....										775	
4.8	.....T.....										775	
4.9	.....T.....GA.....										755	
4.10	.....T.....GA.....										776	
4.11	.....T.....GA.....										776	
4.12	.....T.....GA.....A.T.....										628	
4.13	-----										-	
4.15	.....T.....G.....										775	
4.14	.....G.....T.....										775	
4.16	.....T.....GA.....										775	
		780		800		820		840		860		880
MutsuDr4	CCAGTTATATACAGGATGAGGAGATACAACAGAAACTGAGTAATTGGGGAGTAACTCCTATACTGCCAATAAGAAGGAATATCATCCGGGAACAATGGTTGCAGACGGAA											886
4.1	.....G.....G.....A.....											886
4.2	.....G.....											886
4.3	.....											886
4.4	.....A.A.....G.T.A.A.....G.T.....											866
4.5	.....A.....											886
4.6	.....											886
4.7	.A.....C.....T.....A.C.....G.T.A.....T.....G.T.....											886
4.8	.....											886
4.9	.....A.A.....G.T.A.....G.T.....											866
4.10	.....A.A.....G.T.A.....G.T.....											887
4.11	.....A.A.....G.T.A.....G.T.....											887
4.12	.A.....A.....T.....A.C.....G.T.A.....G.T.....											739
4.13	-----											38
4.15	.....											886
4.14	.....											886
4.16	.....A.A.....T.A.T.....A.....											886
		900		920		940		960		980		
MutsuDr4	CACGATTTGTGAAGGTAAAGTTTCCCAAAGAAGTTAAATCTTTACCATACAATGTTGGCTTCATGACGGAAGAAGGGATGCAGTATTTTCAGAGTGATACATGACAATCAAC										997	
4.1	.....T.....											997
4.2	.....A.....T.A.....T.C.T.....T.....											997
4.3	.....											997
4.4	..C..C.G..A.....G.....A.....T.T.....											977
4.5	.....											997
4.6	.....											997
4.7	..AC..C.G..A.....G.....A.....A.....											997
4.8	.....G.....											997
4.9	..C..C.G..A.....G.....A.....T.T.....											977
4.10	..C..C.GA..A.....G.....A.....T.T.....											998
4.11	..C..C.GA..A.....G.....G.....A.....T.T.....											998
4.12	..C..C.G..A.....G.....A.....T.T.....											850
4.13G.....											149
4.15											997
4.14											997
4.16A.....G.....T.....A.....T.T.....											997

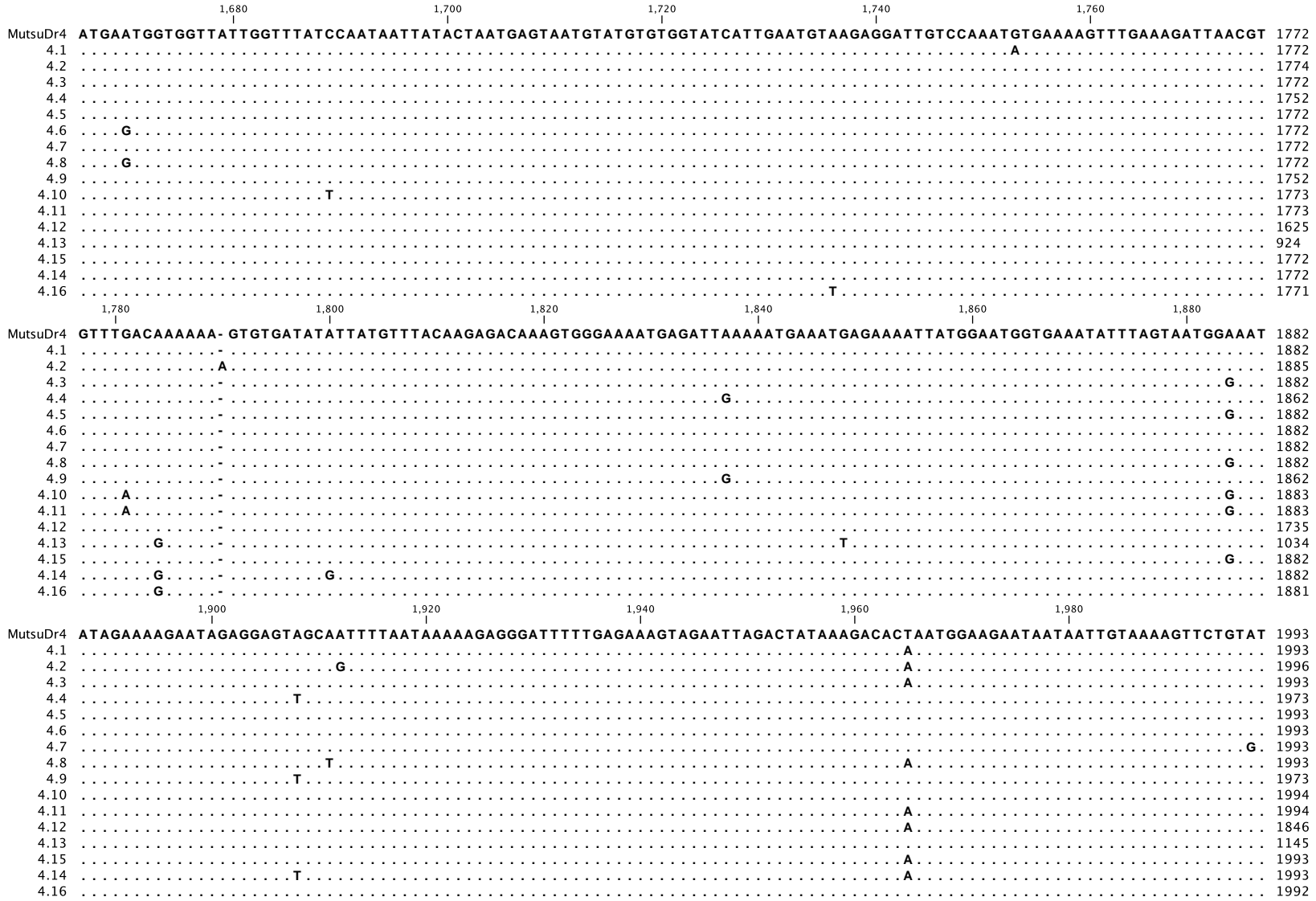
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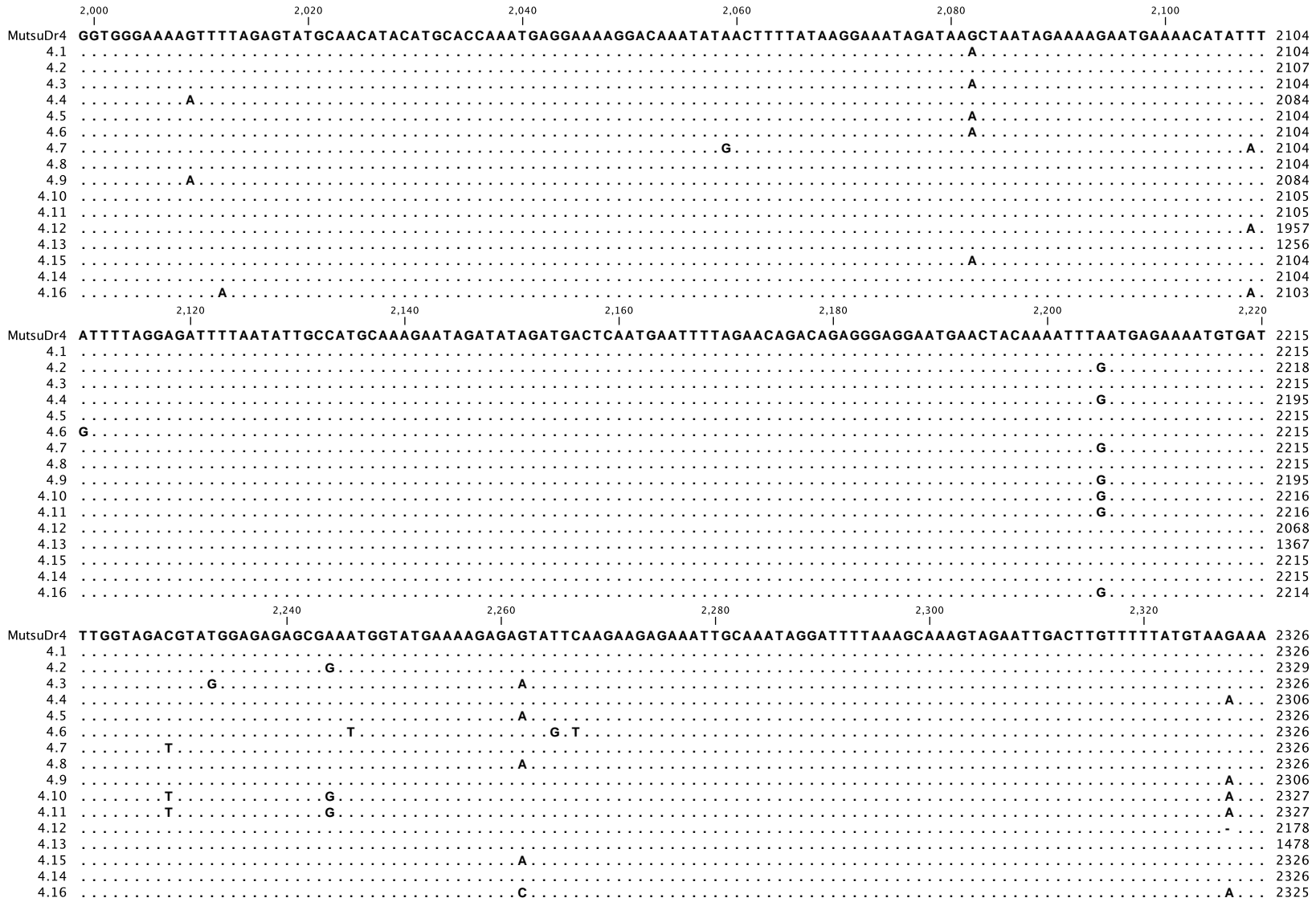
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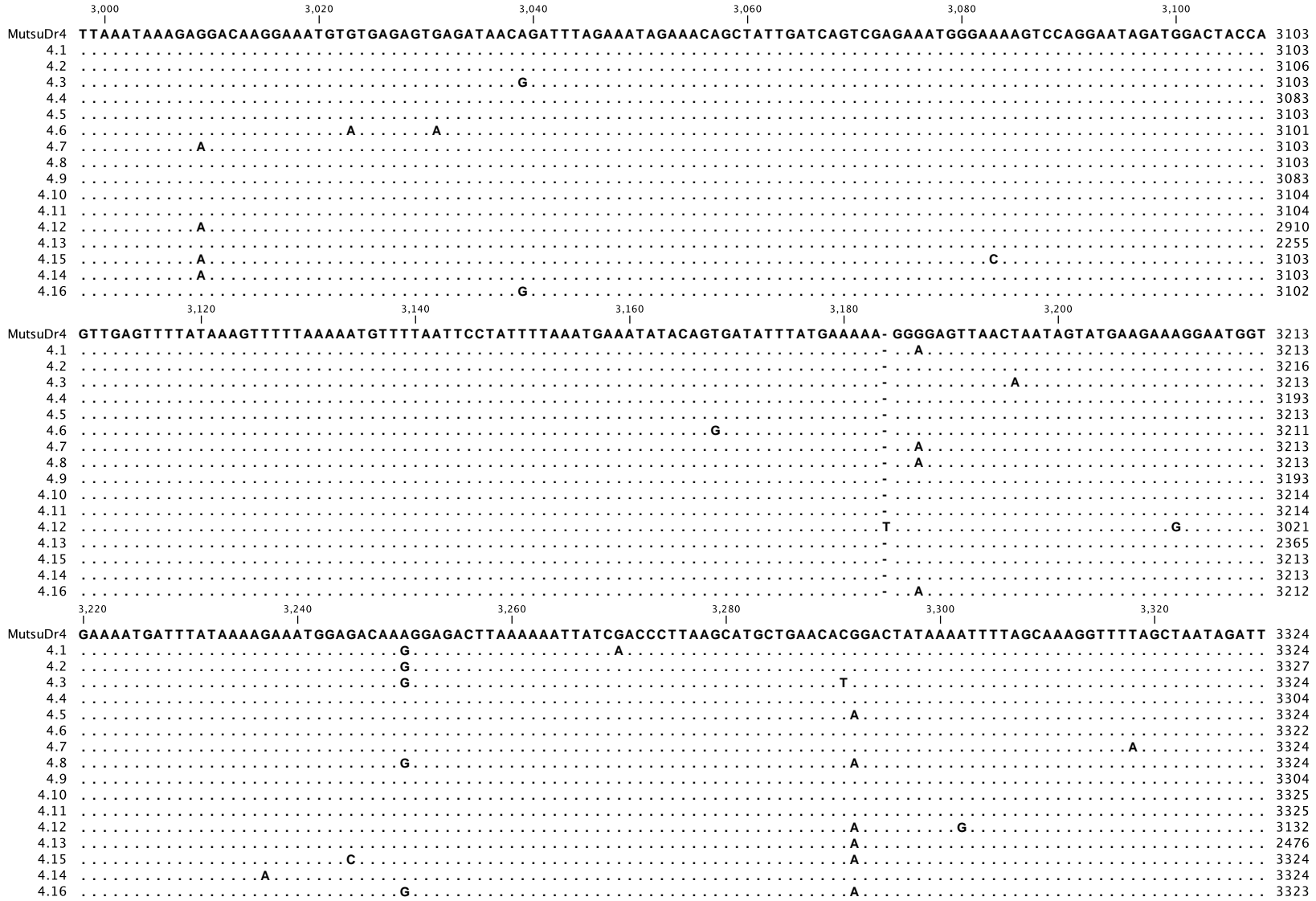
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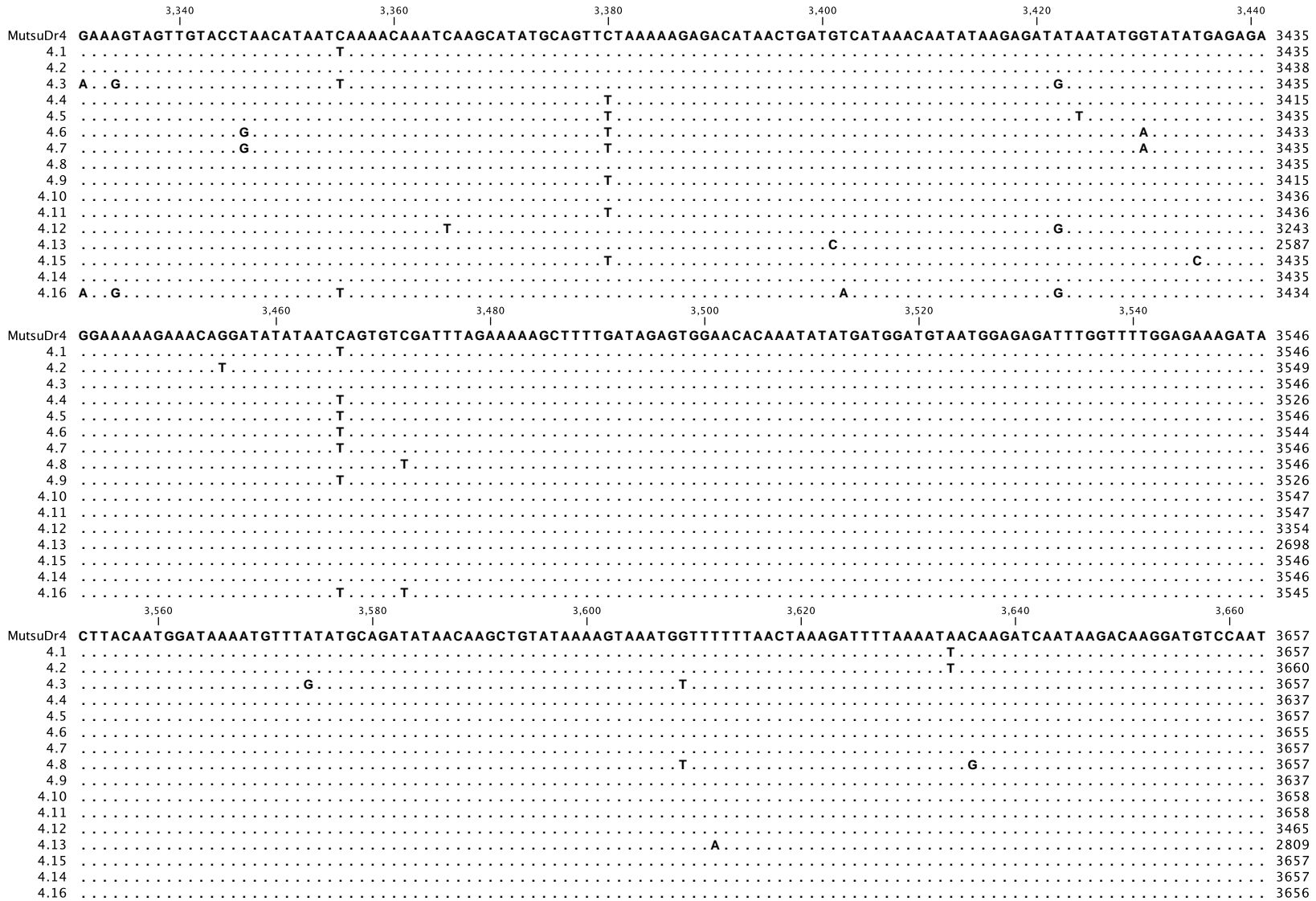
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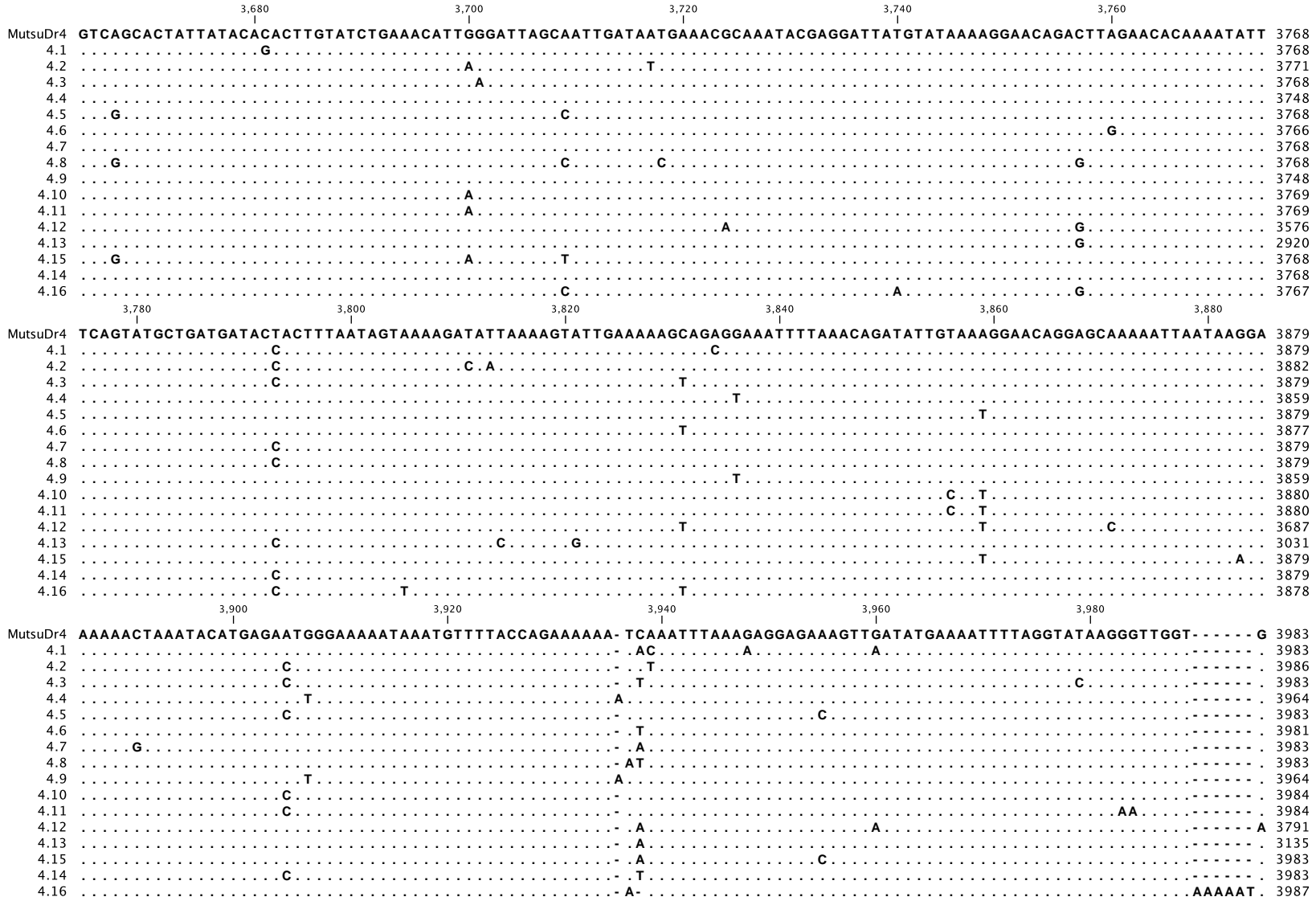
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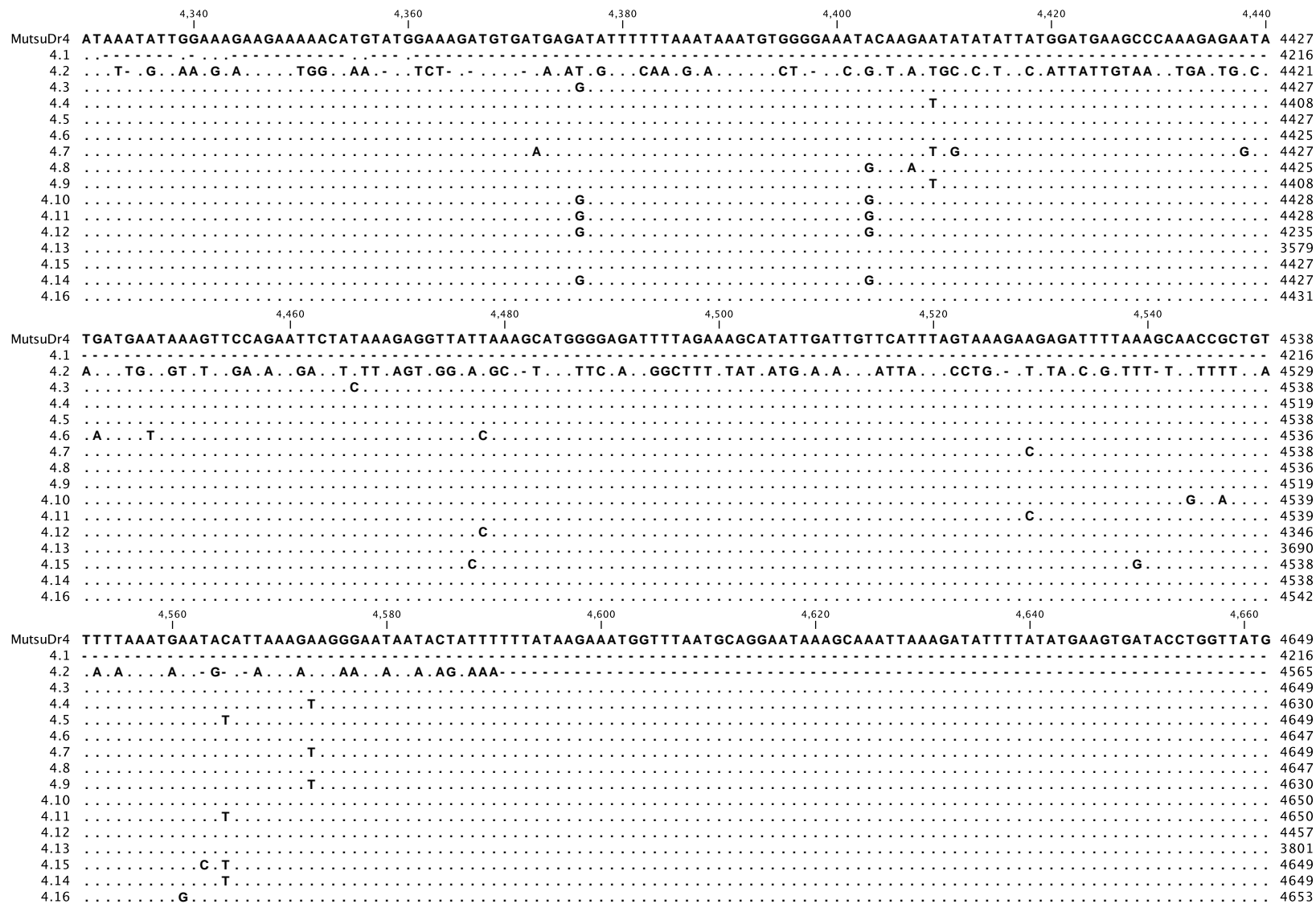
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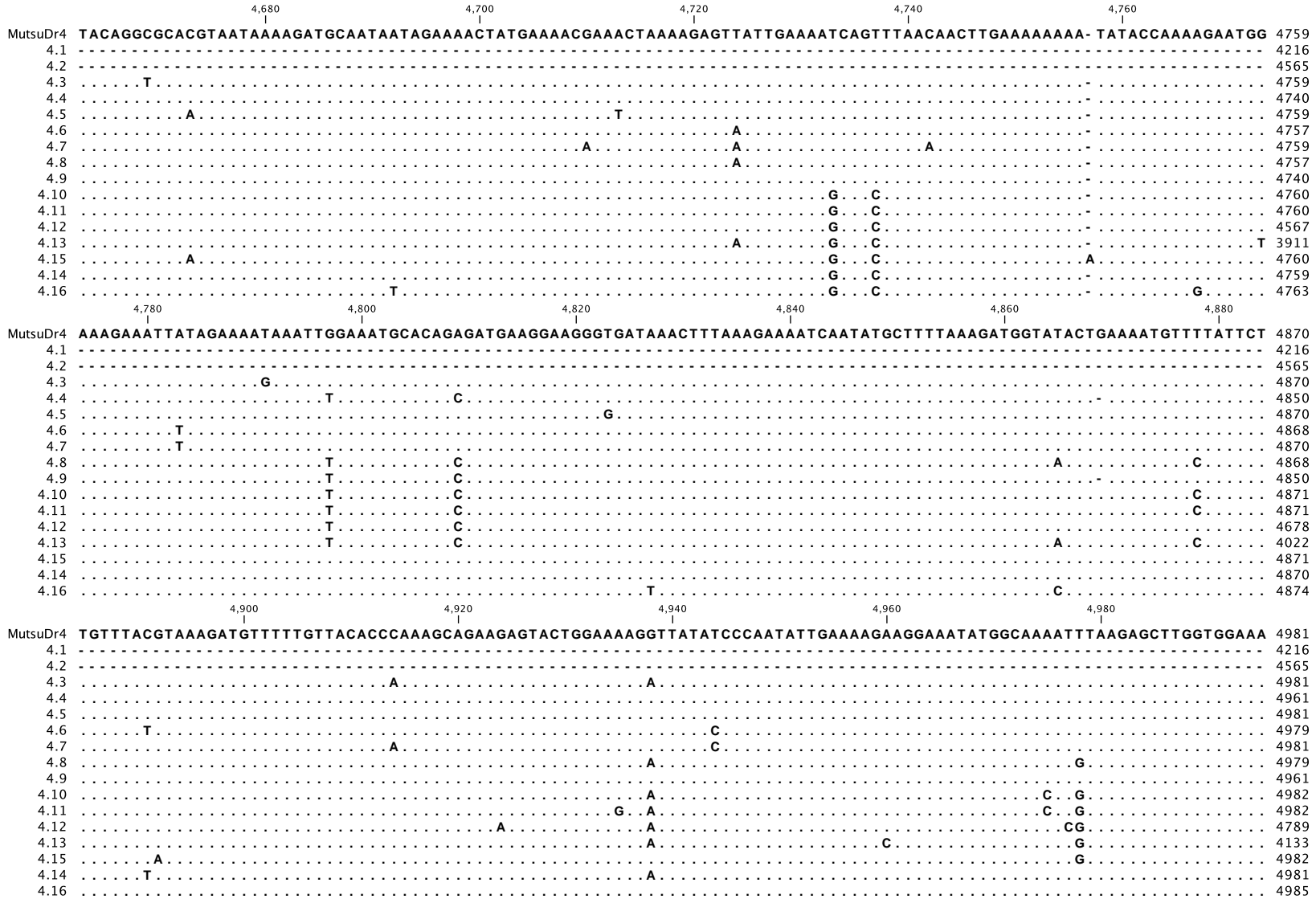
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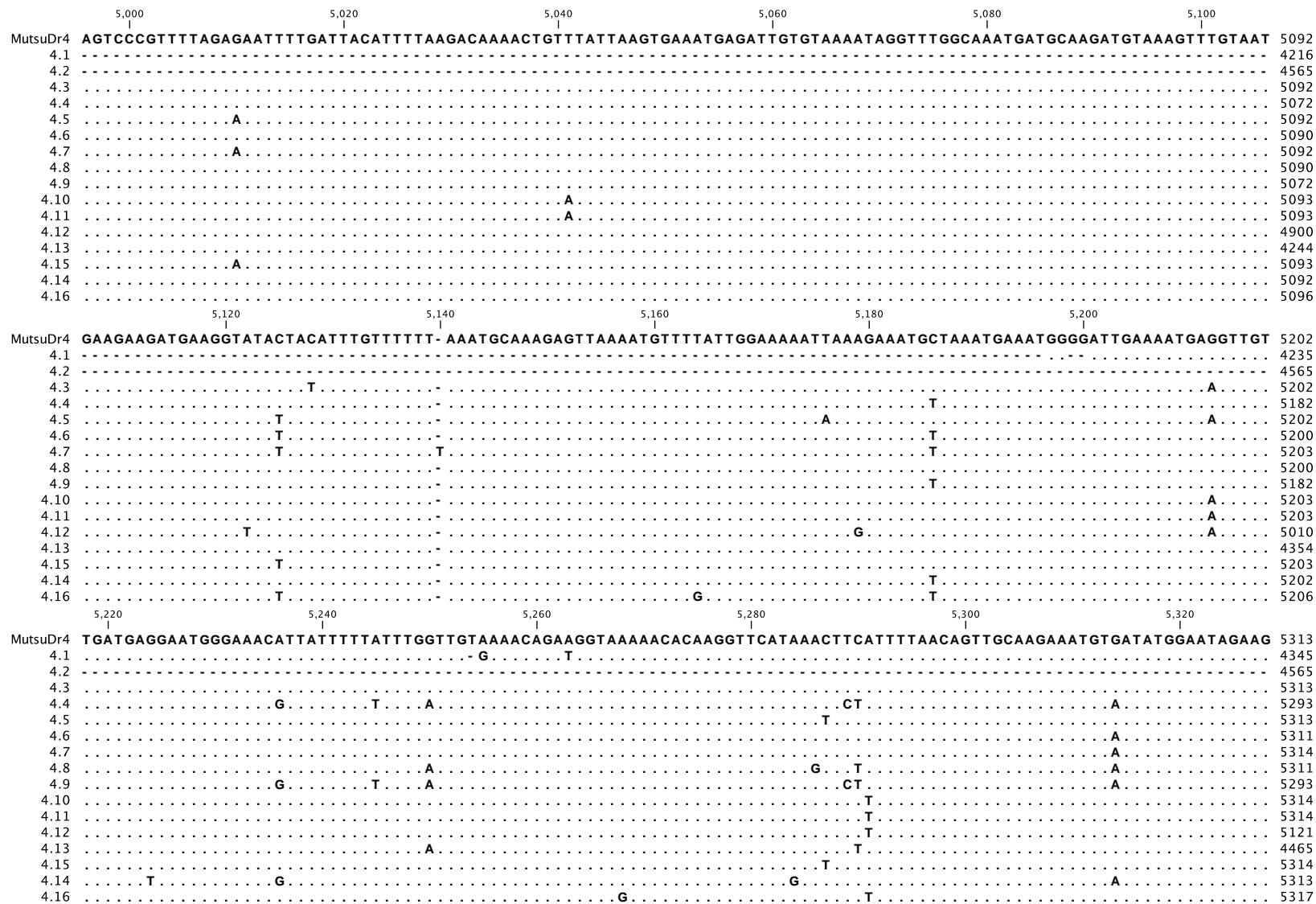
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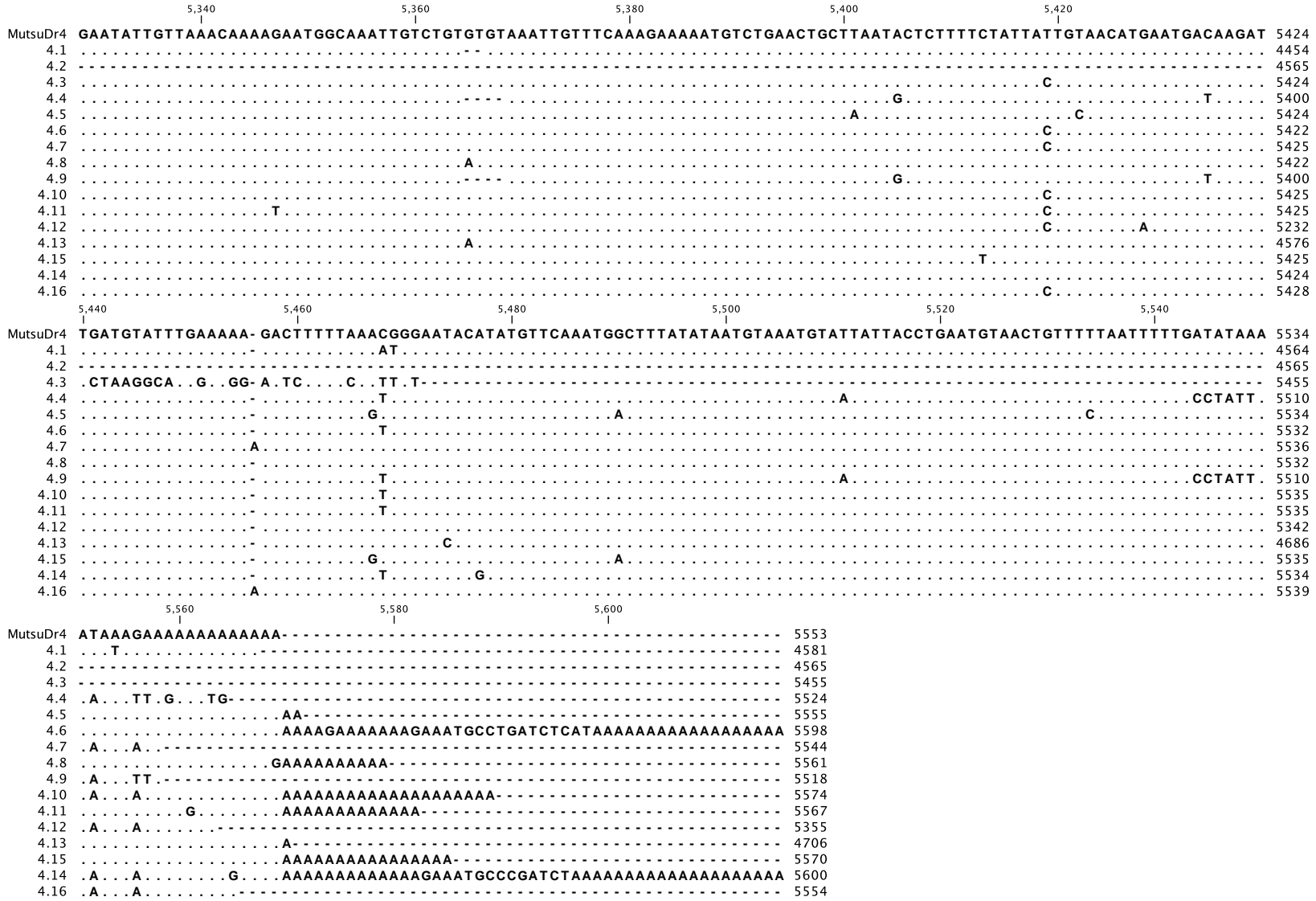
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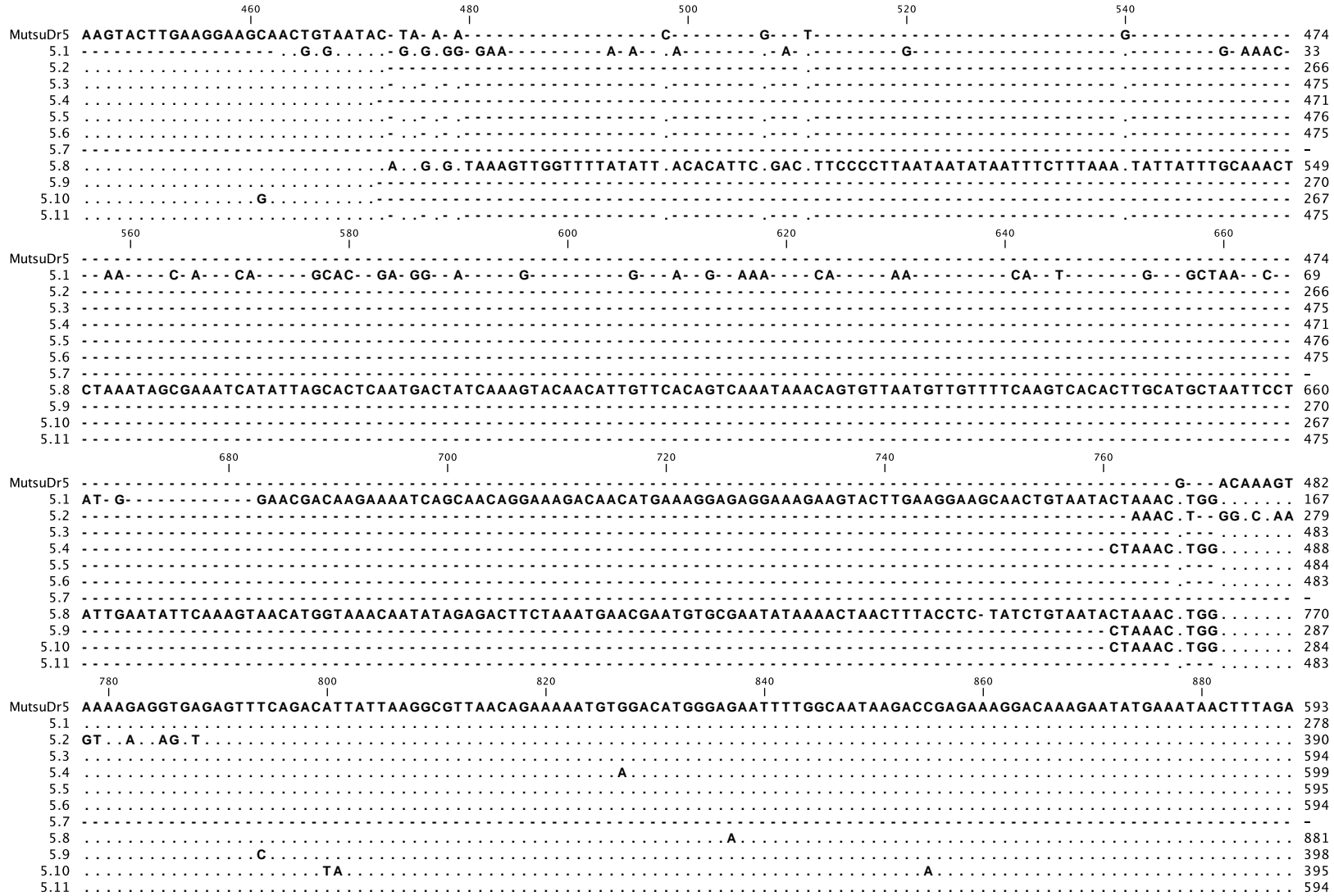
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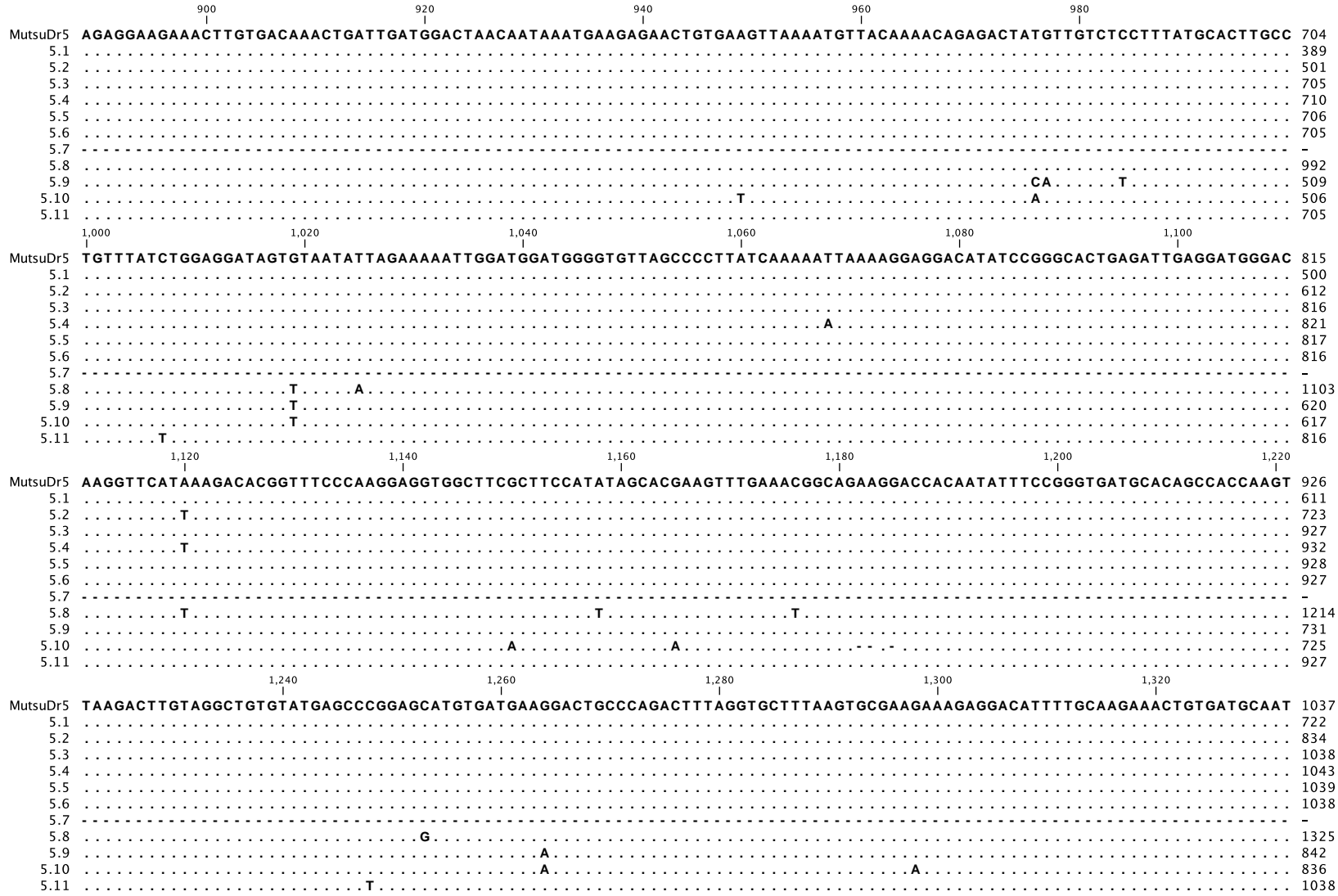
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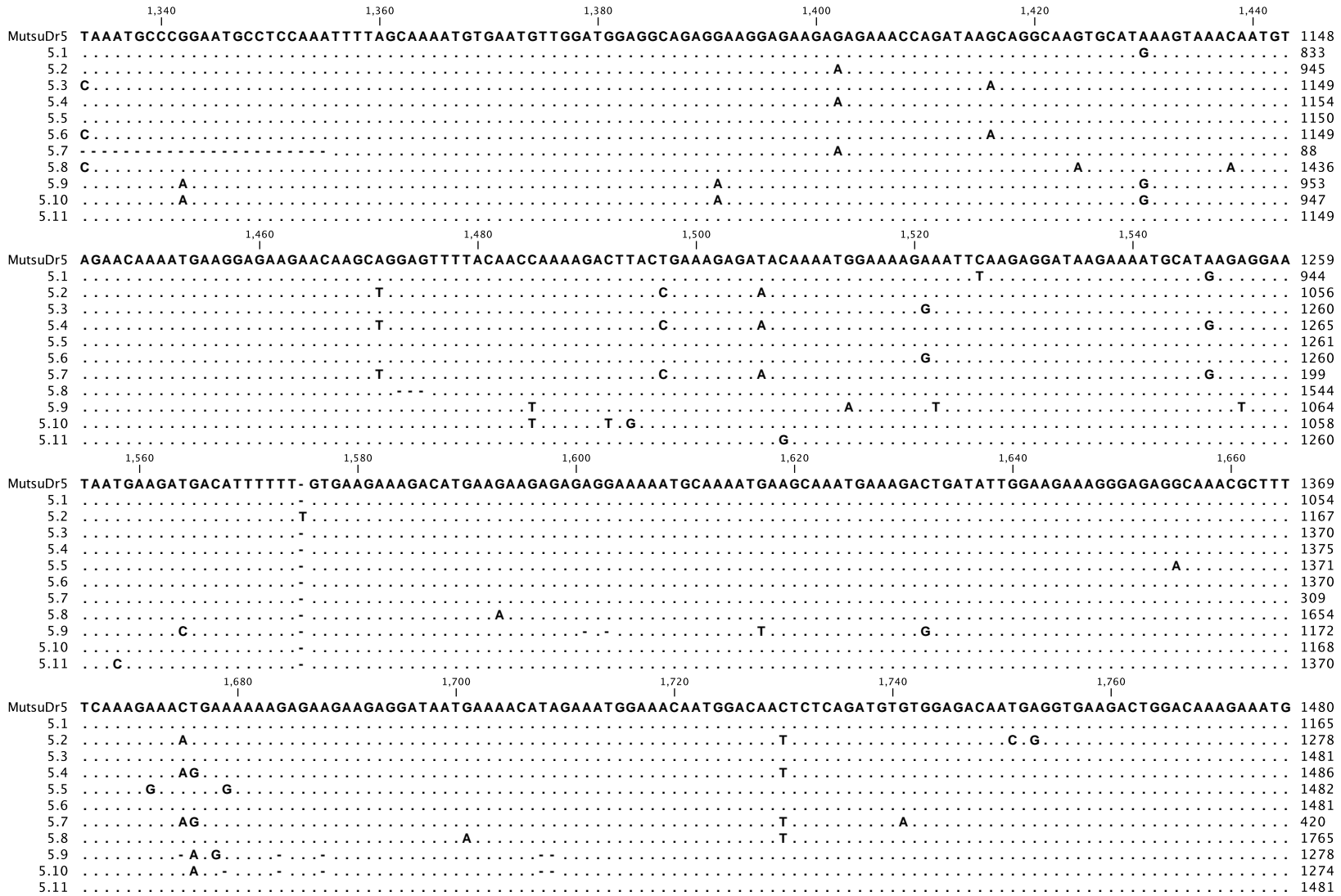
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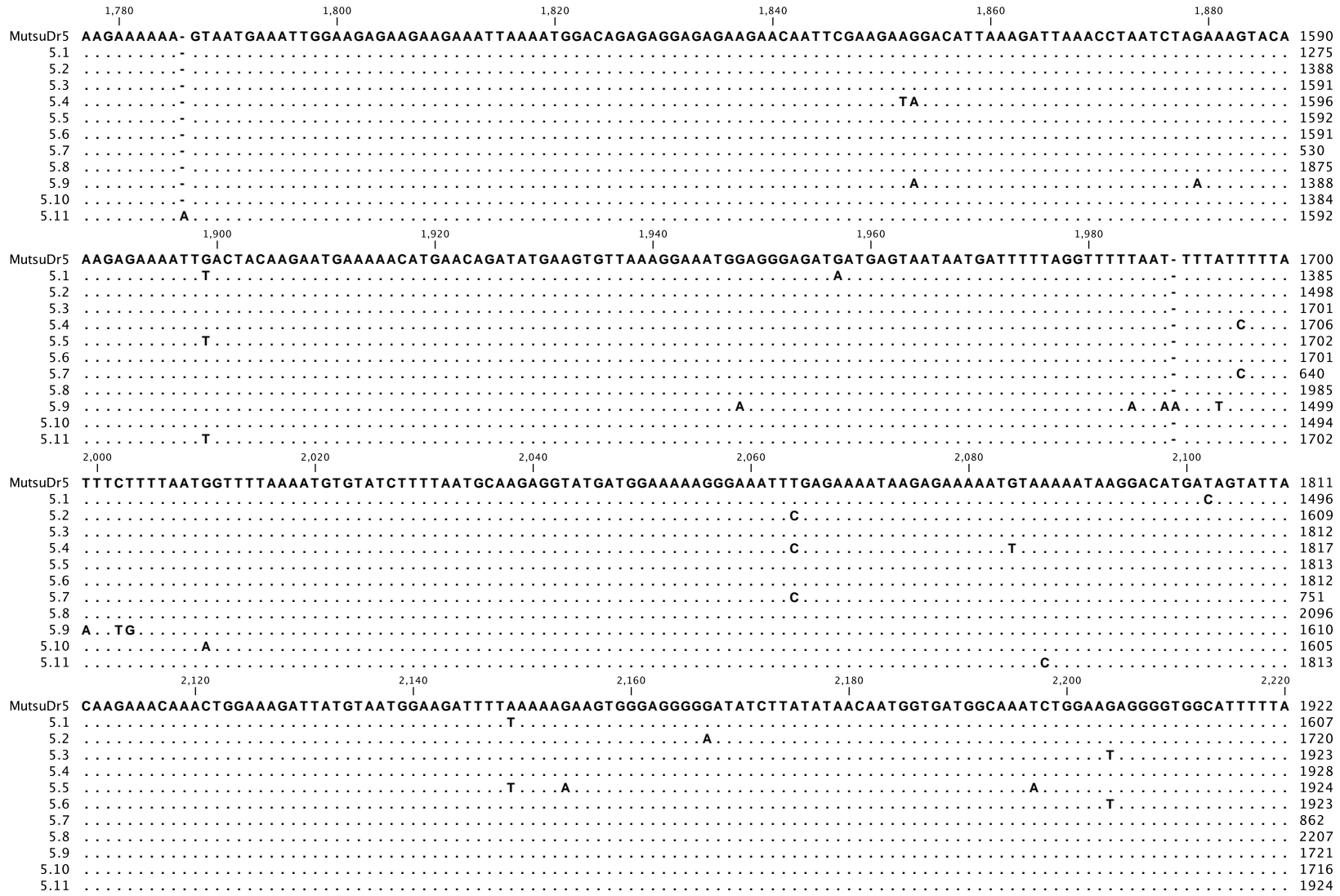
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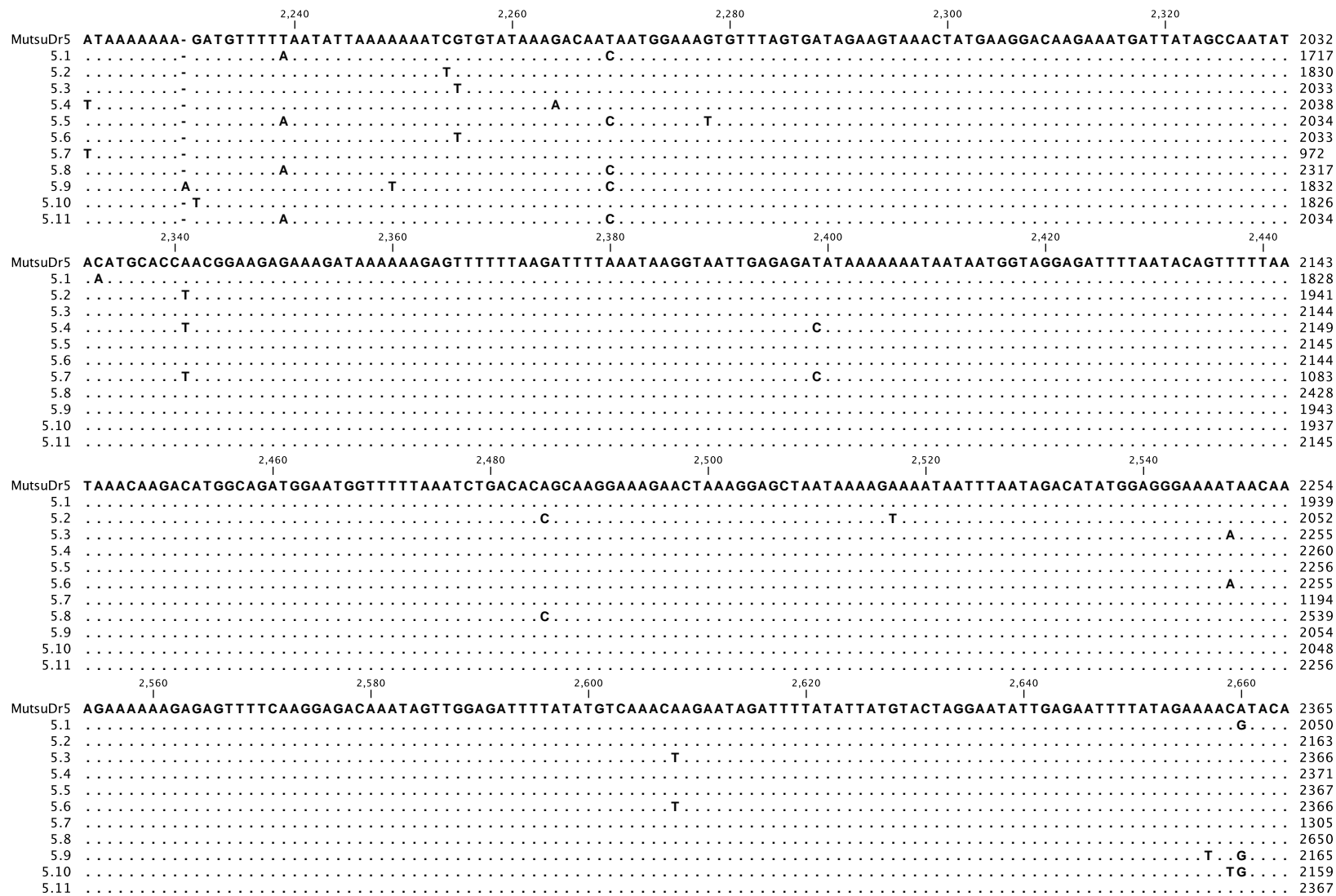
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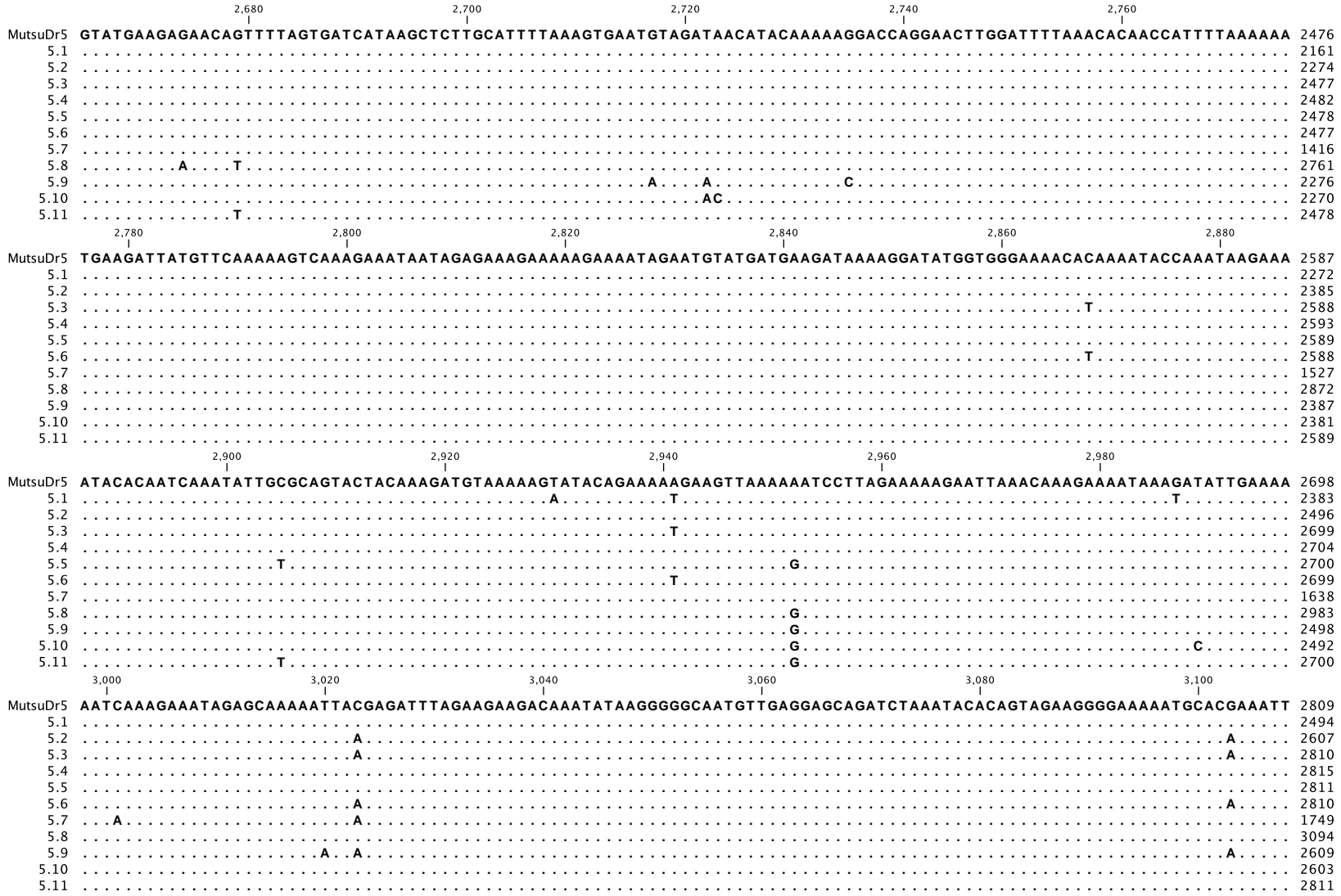
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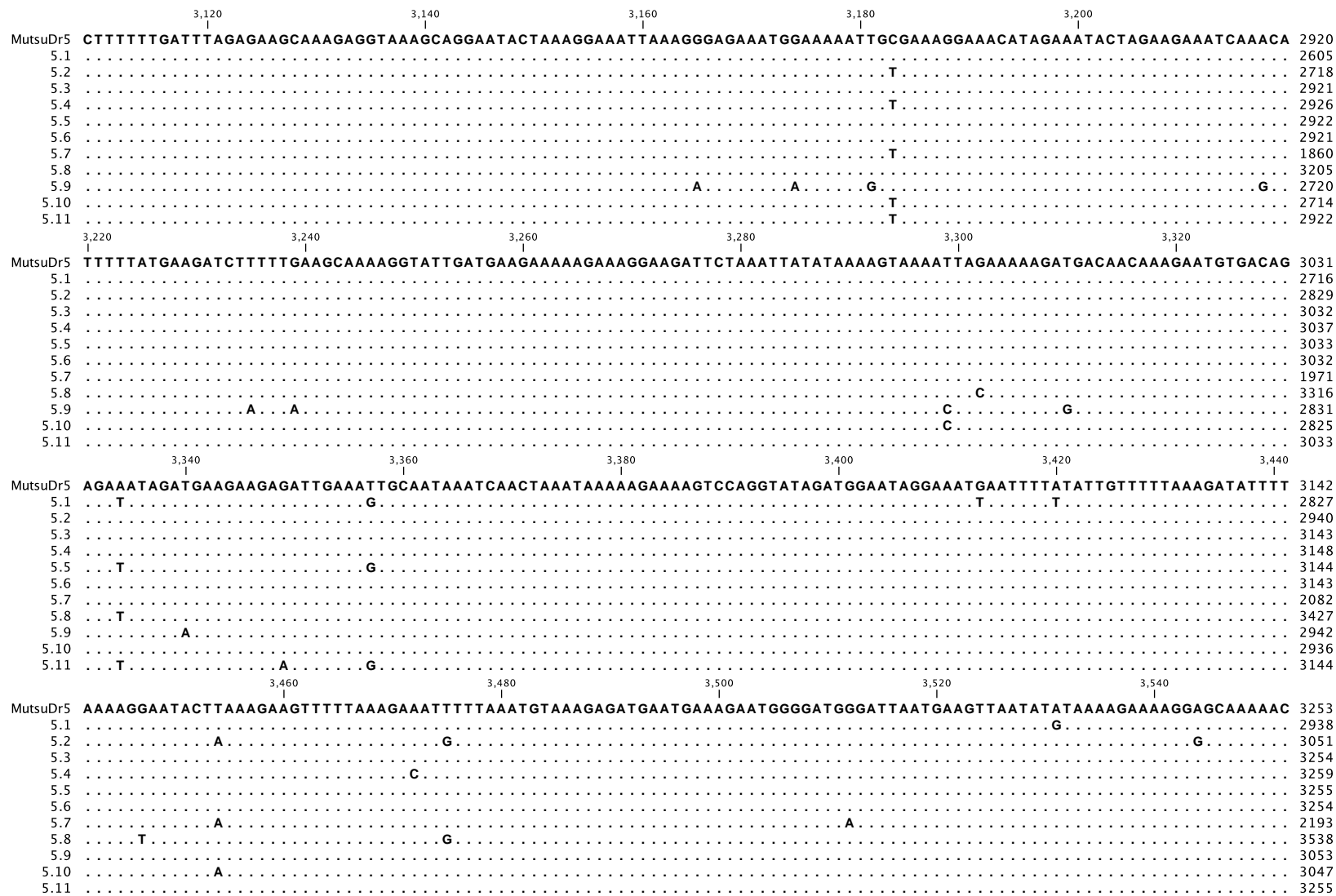
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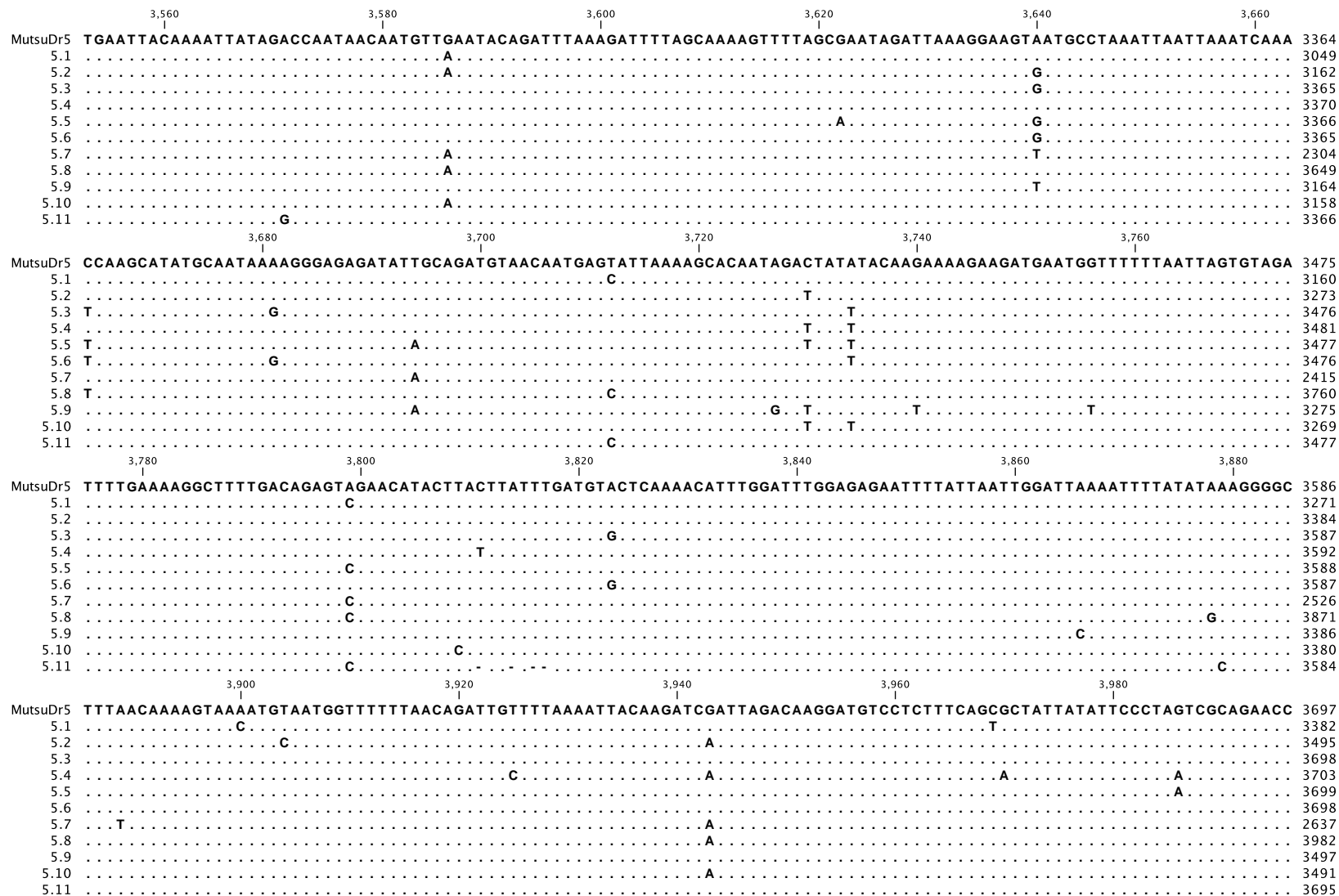
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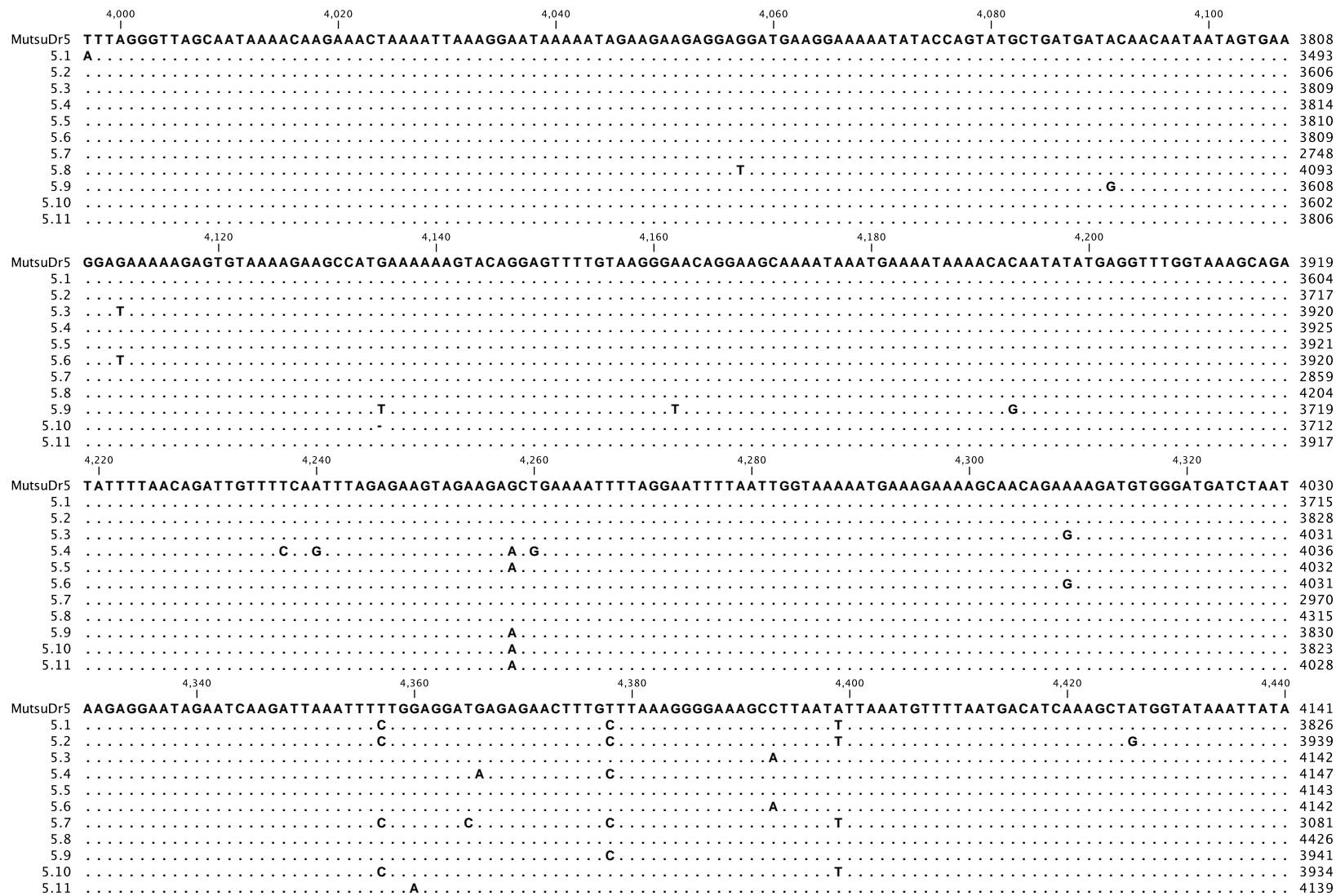
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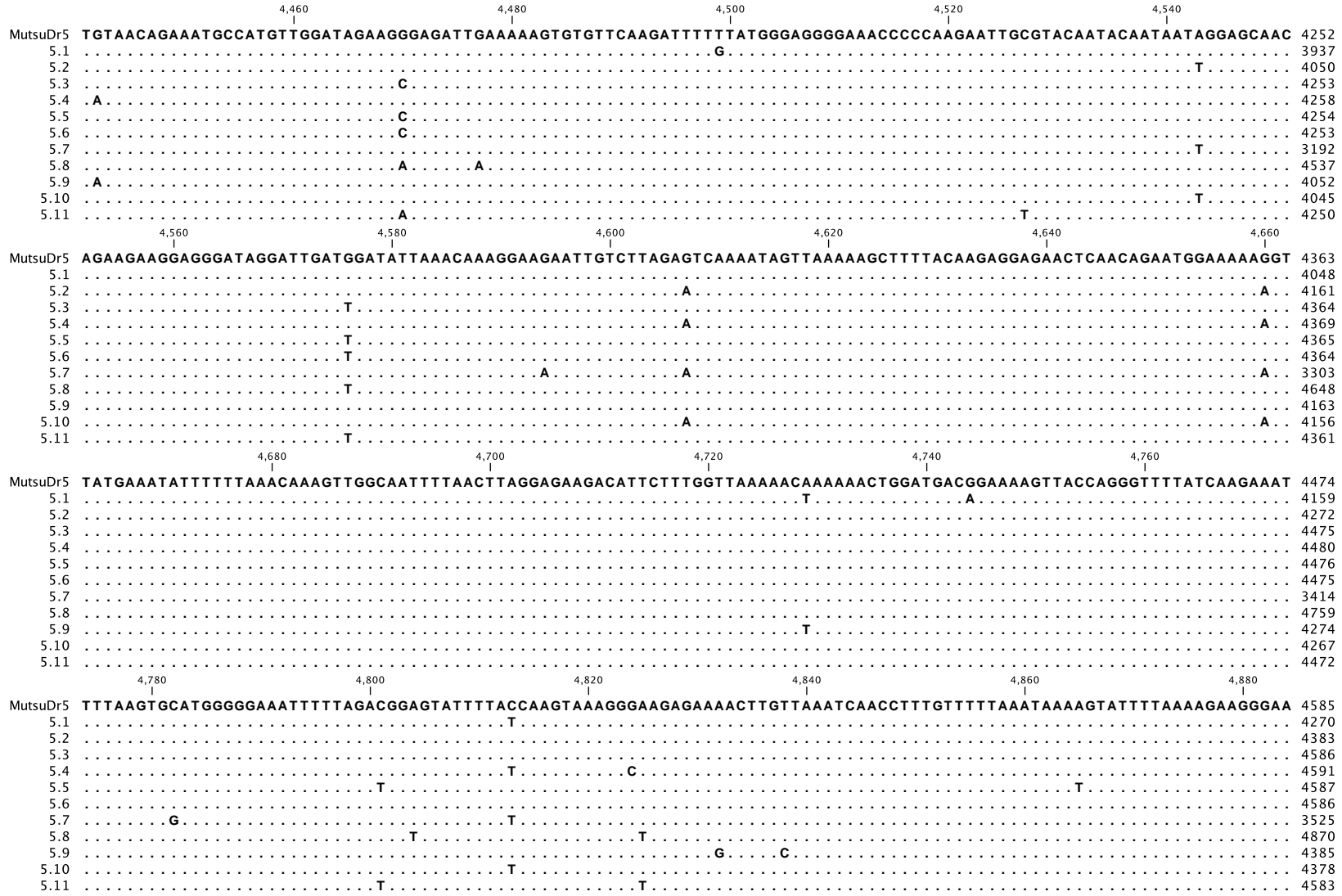
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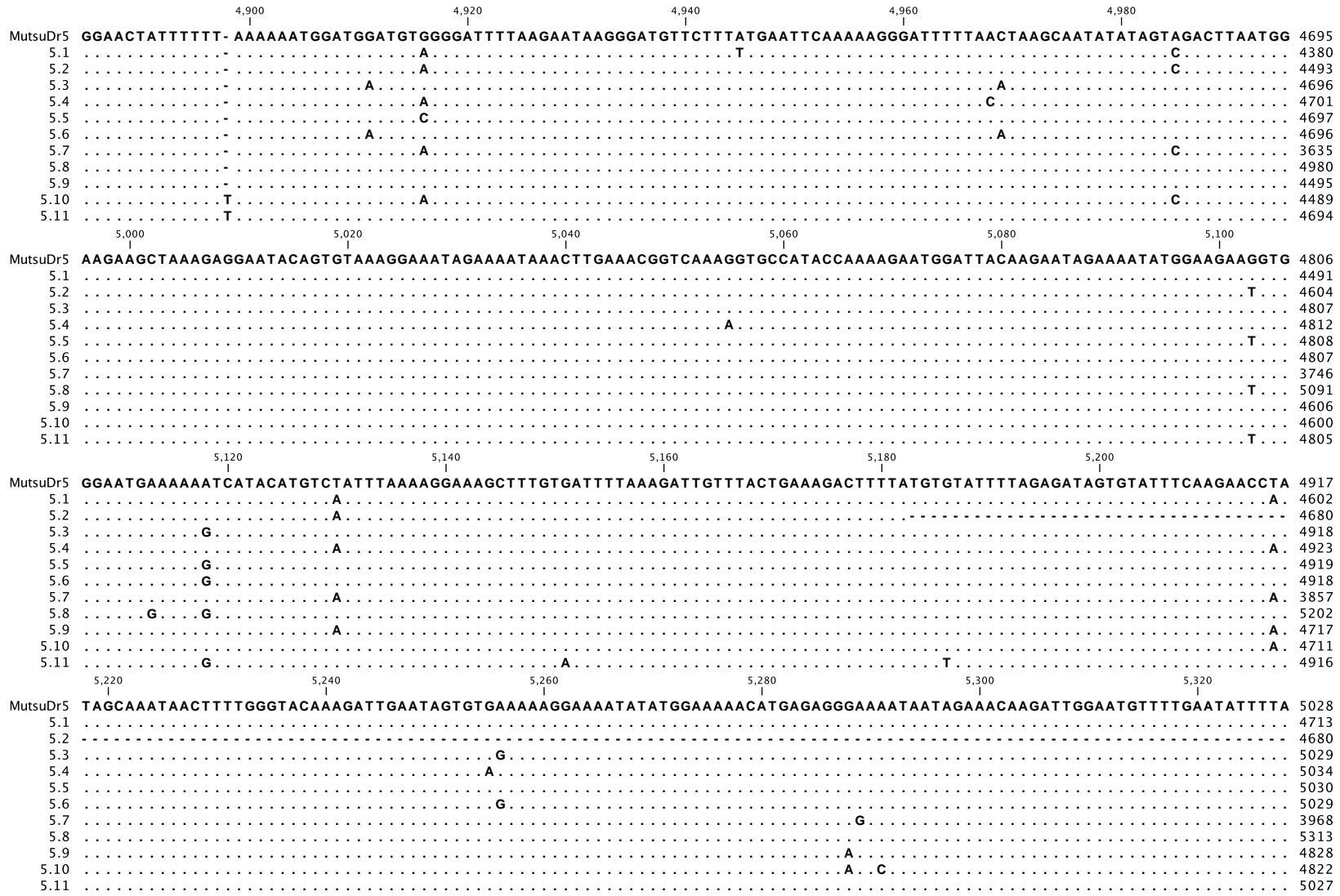
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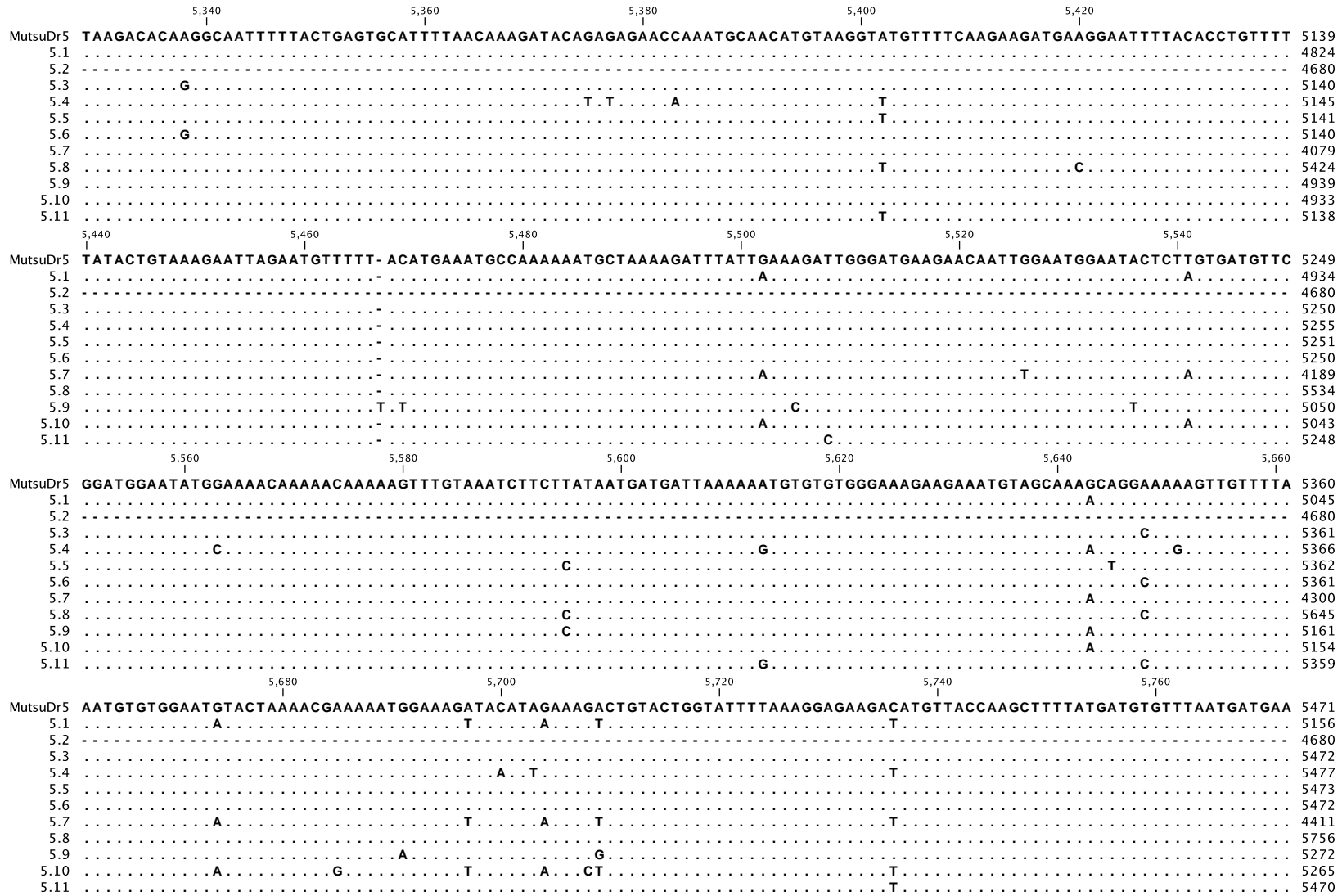
Supplemental Figure S9



Supplemental Figure S9



Supplemental Figure S9



Supplemental Figure S9

	5,780	5,800	5,820	5,840	5,860	5,880		
MutsuDr5	GTGTATAATGTTTTAAGTGGTTTAAAGTGGAAAATGCCCAAAGAGGATGTTATTTTATGAAGAATGTTTATTTTAAATGTATTTGTTTTGTGAAATTTCTTGAAGTATTTAA						5582	
5.1	.....A.....						G	5267
5.2	.....							4680
5.3	.....						C	5583
5.4	.....A.....T.G.....G.....A.....							5588
5.5	.....A.....						AAA.AAAAAAAAAA.AAAAAA	5574
5.6	.....						C	5583
5.7	.....A.....A.....G.....G.....						G	4522
5.8	.....						T	5867
5.9	.....							5383
5.10	.....A.....C.....						G	5376
5.11	.....							5581
	5,900	5,920	5,940					
MutsuDr5	ATGTTAATGTAATGTGATTATTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAA						5638	
5.1	.....G.AA.T.T.GAAA.A.....AA							5325
5.2	.....							4680
5.3	.....T.....						AAAAA	5645
5.4	.....A.T.....							5643
5.5	.....							5574
5.6	.....T.....						AAAAA	5644
5.7	.....G.AA.T.T.GAA.G.....							4578
5.8	.....G.....							5922
5.9	.....AA.AAAAA.G.G.....							5423
5.10	.....T.G.AA.T.T.GAA.G.G.....G.....						AAAAAAAAAAAAAAAAA	5449
5.11	.....A.....A.....G.....G.G.....						AAA	5640

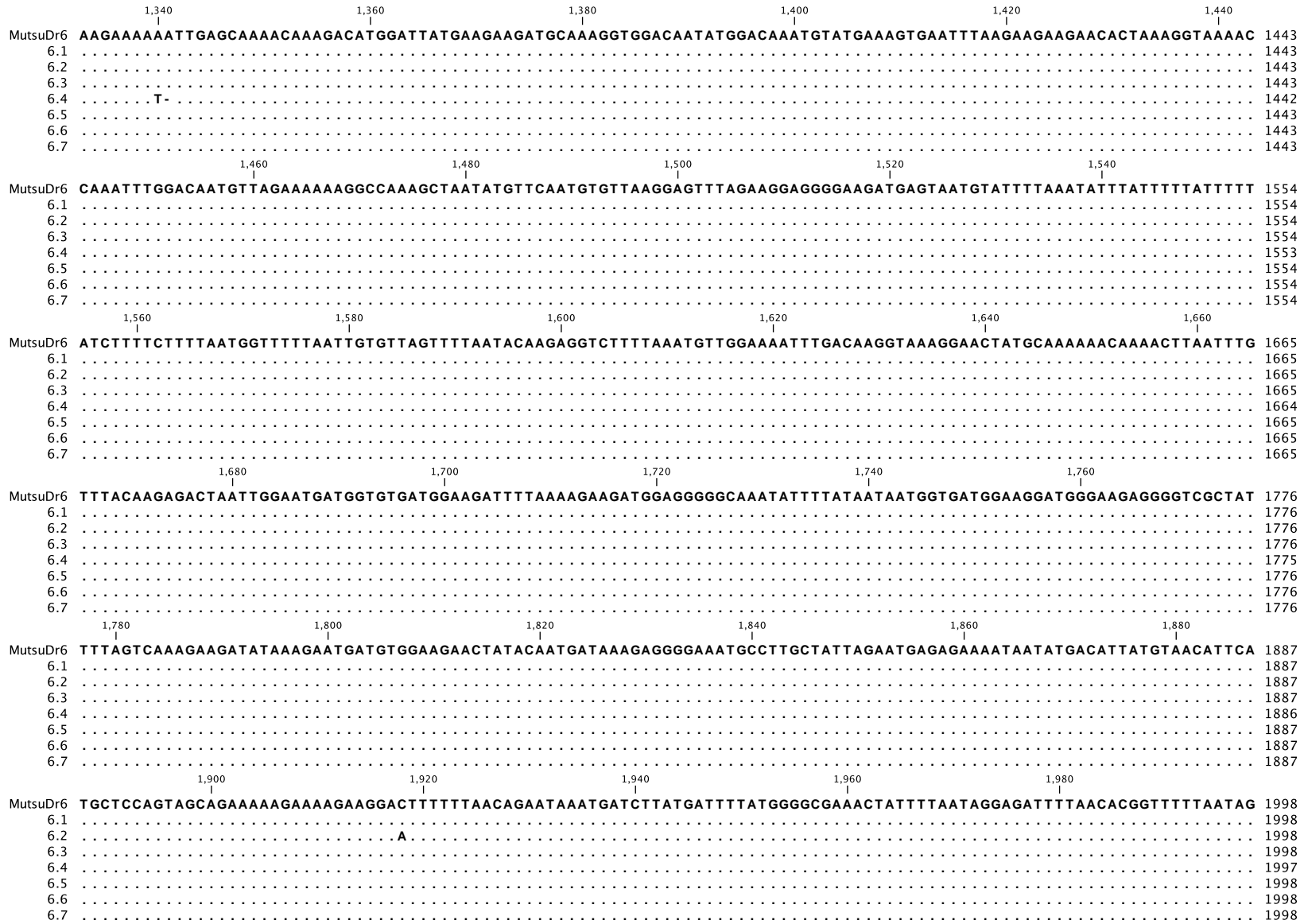
Supplemental Figure S9

		20	40	60	80	100	
MutsuDr6	GGAAATCCTCGAACTTGGTACATTCCAGGAAGTGTTTGGCTGCAGTTGGGAGAGAAAGGCTCTCCCTACTCTTTGTTTATTTCTTTTGTATTGTAAGTATTAGAGTTA						111
6.1	.....						111
6.2	.....						111
6.3	.....						111
6.4	.....						111
6.5	.....						111
6.6	.....						111
6.7	.....						111
		120	140	160	180	200	220
MutsuDr6	ATTTGTTTTTTTTGTTTTGTGAAGTTTATTTTCCTCCAACAGCATTAGCTGTTGGGAGGAACCTATTTTTTTCATTTGGAACCTTTTTTTGGAGTAAGCAATGGCGG						222
6.1	.....						222
6.2	.....						222
6.3	.....						222
6.4	.....C						222
6.5	.....						222
6.6	.....						222
6.7	.....						222
		240	260	280	300	320	
MutsuDr6	ACGGATGCACGGCAACAAACACGGACATGGCAGGAGAAACTCGACTGGTCAAAGATAATGGACTGGCAGGAGAACGCCAAAGGCTATCGACATTGGATTAGGAGGAGAAA						333
6.1	.....						333
6.2	.....						333
6.3	.....						333
6.4	.....						333
6.5	.....						333
6.6	.....A						333
6.7	.....A						333
		340	360	380	400	420	440
MutsuDr6	CAAGCACGGCAAACGACAACGGACTGGCAGGAGGAACAAGCAAGGCTAACGAAAATGGACTGGATAAACGACCAGAAATGAAACAAAACGAAAAAGTAAGTTTGC GG						444
6.1	.....						444
6.2	.....						444
6.3	.....						444
6.4	.....						444
6.5	.....						444
6.6	.....						444
6.7	.....						444
		460	480	500	520	540	
MutsuDr6	AGAGAAAATACTTGAAGGAGGCTACGGTGATTATAAATGTGGAAAACGTA CTGGAGTAAAGGCAGAAAGATGTTATTAAGCGATAATGGAAAATGTGGACAAGGAAAA						555
6.1	.....						555
6.2	.....						555
6.3	.....						555
6.4	.....G						555
6.5	.....						555
6.6	.....						555
6.7	.....						555
		560	580	600	620	640	660
MutsuDr6	TGTTGGCGCTCAGACCCAGACAAGGCAAAGAATATGAACTGACCATGGAAAAAGAAGAGGAGTGTGAAAAC TTTAGAAAGGACTAACAATTAATGGAGTGA ACTGTGAAG						666
6.1	.....						666
6.2	.....						666
6.3	.....						666
6.4	.....						666
6.5	.....						666
6.6	.....						666
6.7	.....						666

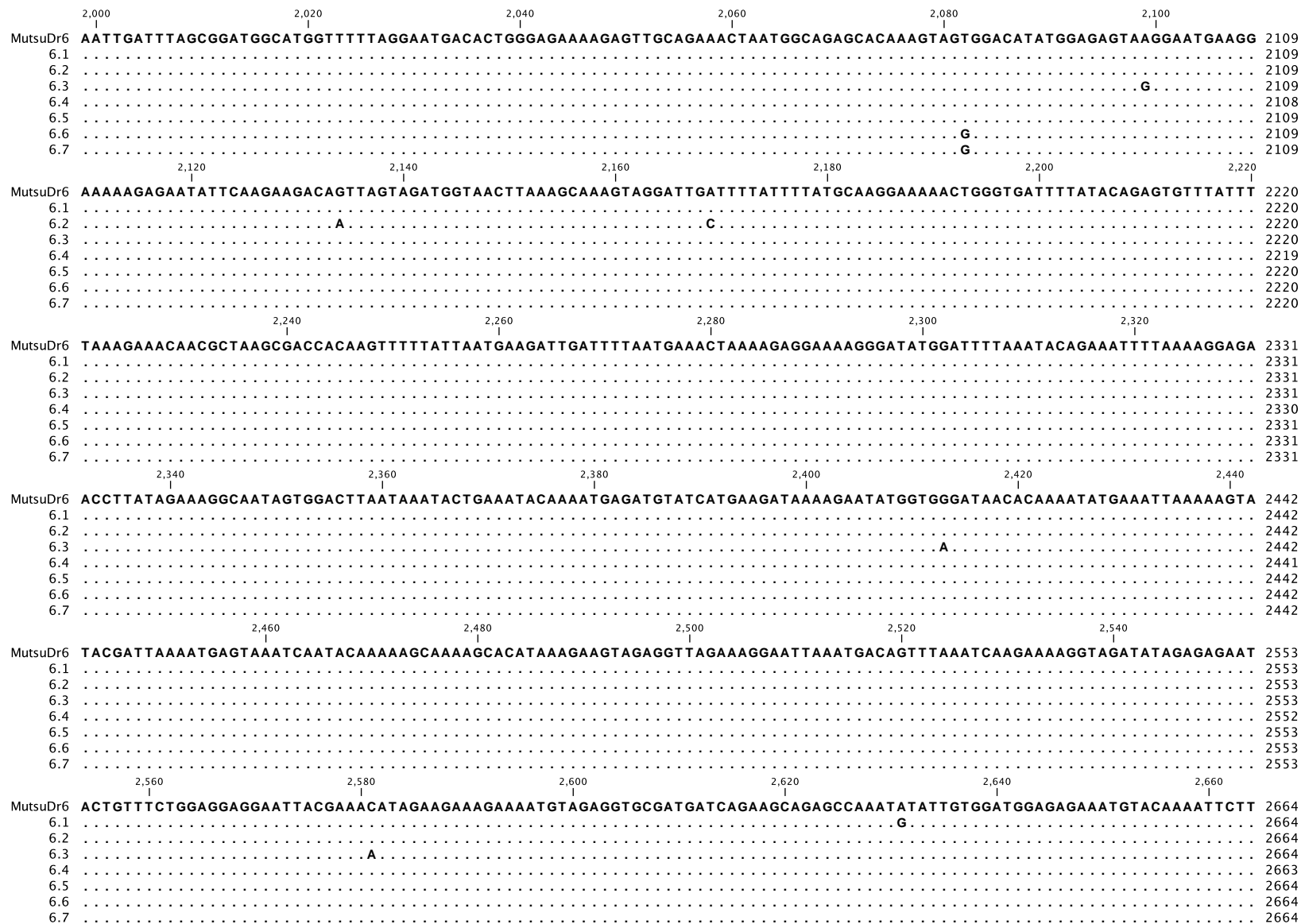
Supplemental Figure S9

		680	700	720	740	760	
MutsuDr6	TTAAAAGTTTGCACAACCGAGATTATGTAGTTTCCTTCTTGCACCTGCCTGTCTACCTGGAAAATAGTATAATTGTAGAAAAATTGGAAGGATGGGGTGTGAGCCACTAA						777
6.1	.....						777
6.2	.....						777
6.3	.....						777
6.4	.....						777
6.5	.....						777
6.6	.....						777
6.7	.....						777
		780	800	820	840	860	880
MutsuDr6	CAAAAATTAAGAAGATGCTACCCGGGCACTGACATCGAAGATGGGACGAGGTTCTGAAAGTAAGGTTCCCGAAGGAGGTGGCATCACTGCCCTATAGCACGAGGCTAG						888
6.1	.....						888
6.2	.....						888
6.3	.....						888
6.4	.....						888
6.5	.....						888
6.6	.....						888
6.7	.....						888
		900	920	940	960	980	
MutsuDr6	AAACAGCCGAAGGACCACAGCATTTCGGGTGATGCACAGTCGGCAAGTGAAAACCTGTAGGCAGTGCATGAGCCCGACCATCTGCTGAAAGACTGTCTAATTTCAAGT						999
6.1	.....						999
6.2	.....						999
6.3	.....						999
6.4	.....						999
6.5	.....						999
6.6	.....						999
6.7	.....						999
		1,000	1,020	1,040	1,060	1,080	1,100
MutsuDr6	GCTACAGATGCGGAGAATGGGGGCATTTGCACGATCGTGCACCACTGTCAGATGCTCGGAGTGTGCAAGAATCTTAGATAAATGGAATGTTGGATGGAAGGGAAGGAAG						1110
6.1	.....						1110
6.2	.....						1110
6.3	.....						1110
6.4	.....						1110
6.5	.....						1110
6.6	.....						1110
6.7	.....						1110
		1,120	1,140	1,160	1,180	1,200	1,220
MutsuDr6	GAGAAAAAGAAAAACAGGTGGACAGACAGGTGCAAGAAGGAAATAAGGAGGAAGATGCAAACTTGAAGGAGATCAGGAGGAAGCAACACAGCAAAGAGAAATAGAAC						1221
6.1	.....						1221
6.2	.....						1221
6.3	.....						1221
6.4	.....						1221
6.5	.....						1221
6.6	.....						1221
6.7	.....						1221
		1,240	1,260	1,280	1,300	1,320	
MutsuDr6	AACTAAGAATAACACTGGAGAAGTTGTGGATTTAATGAAGATGGAGAAACGAAGGAGGGAGGAAATCAAATGATGGAATTGAGTTTTCAGACATGGAGGAAAATGGAC						1332
6.1						1332
6.2						1332
6.3						1332
6.4						1332
6.5						1332
6.6						1332
6.7						1332

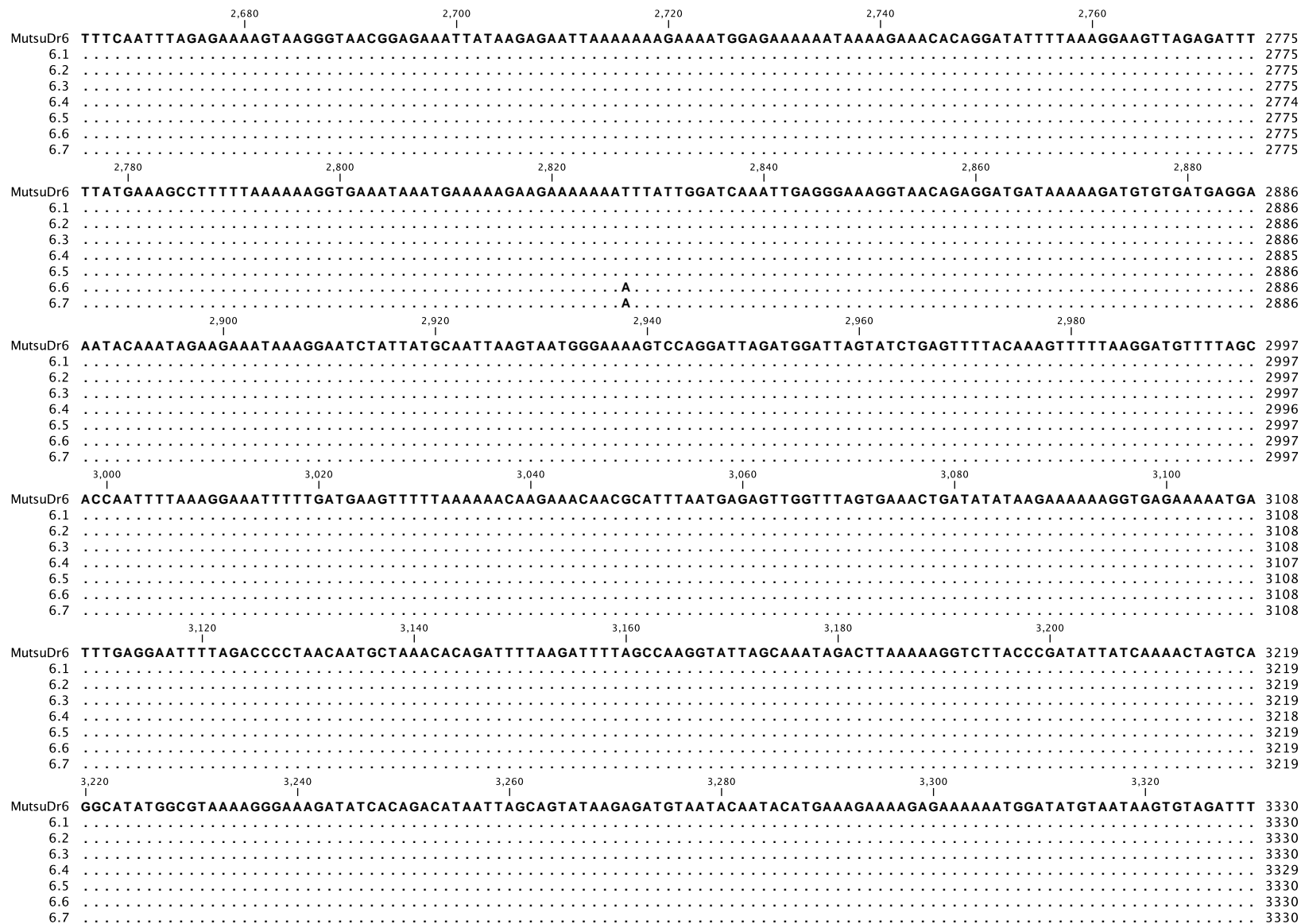
Supplemental Figure S9



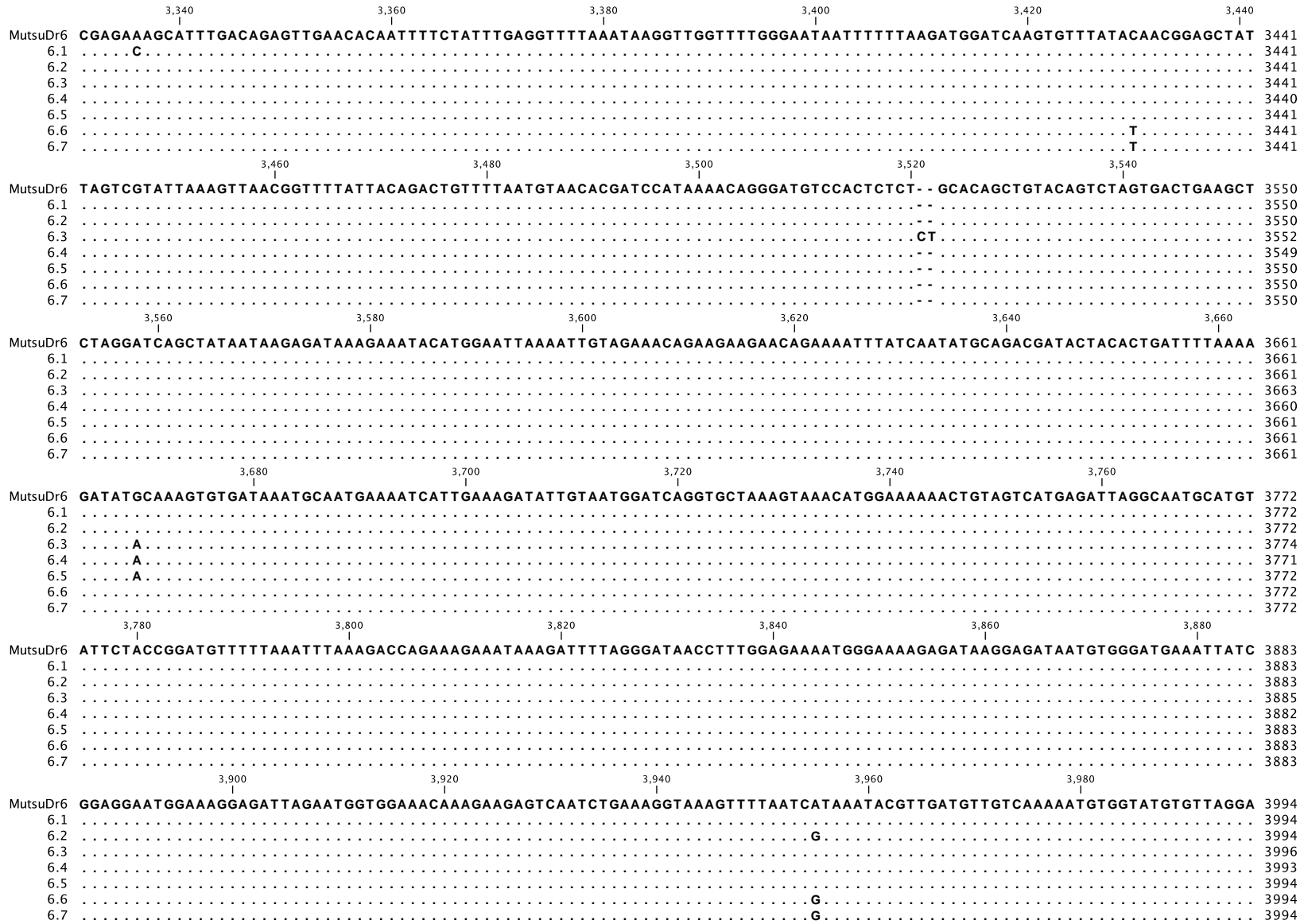
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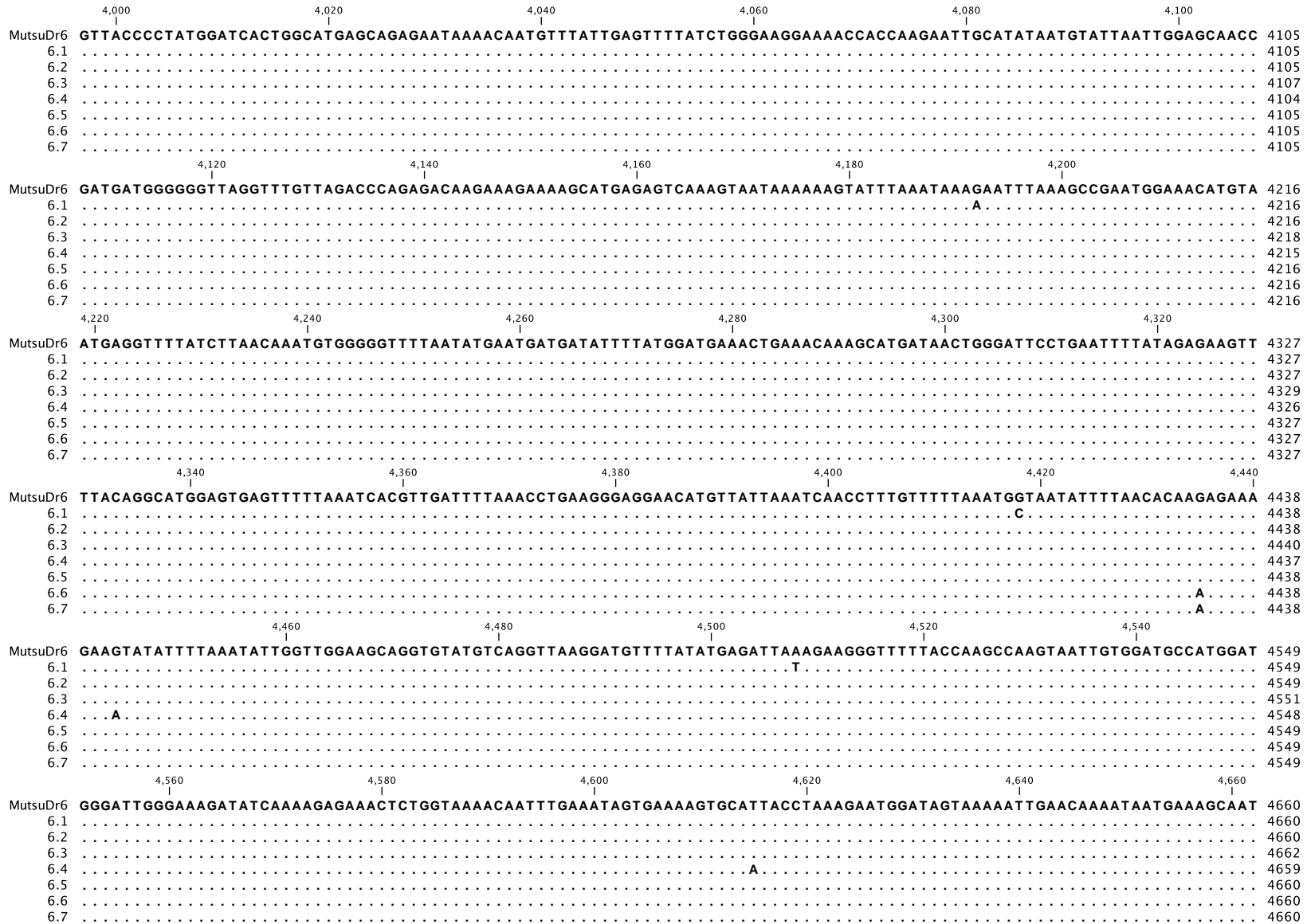
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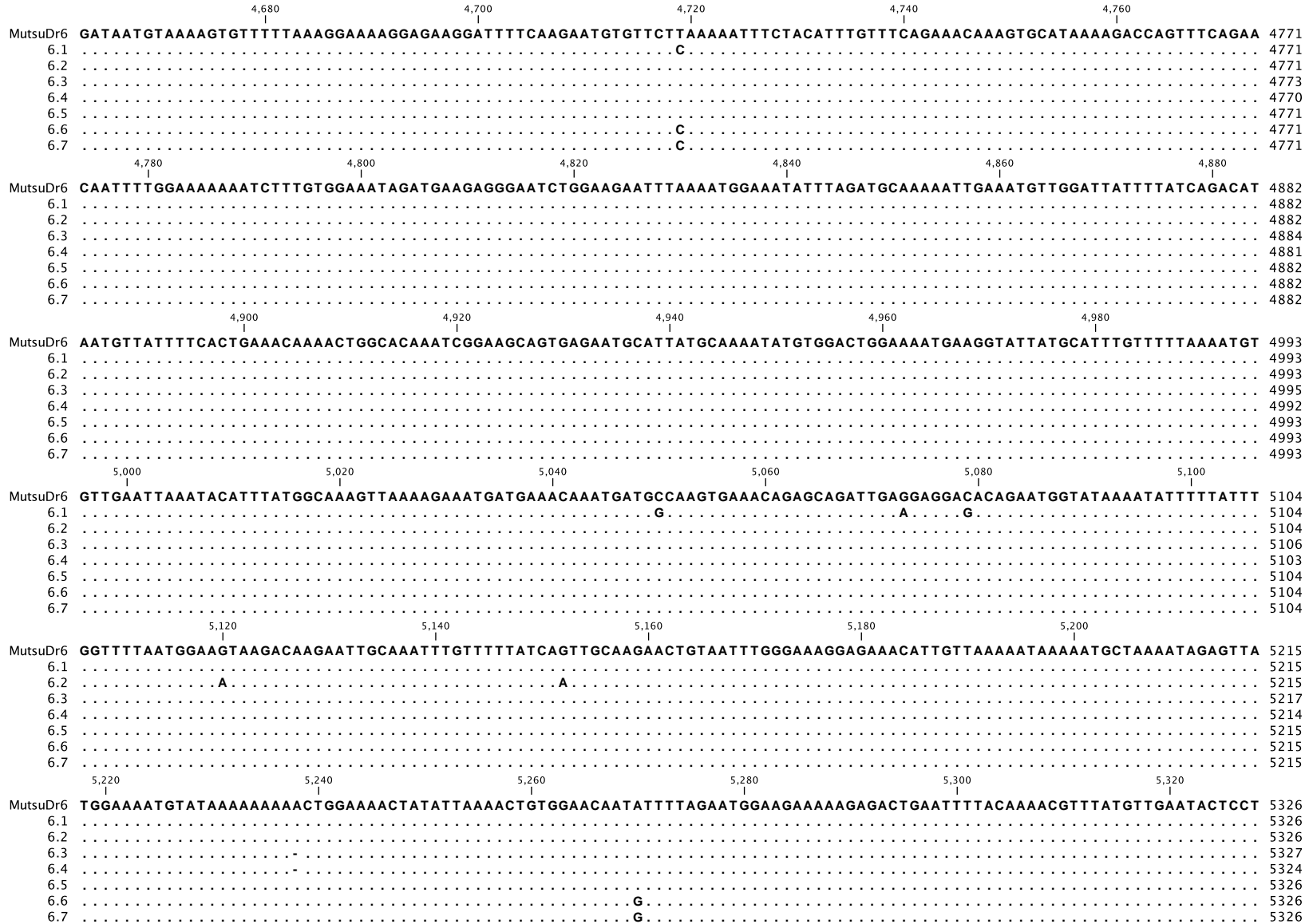
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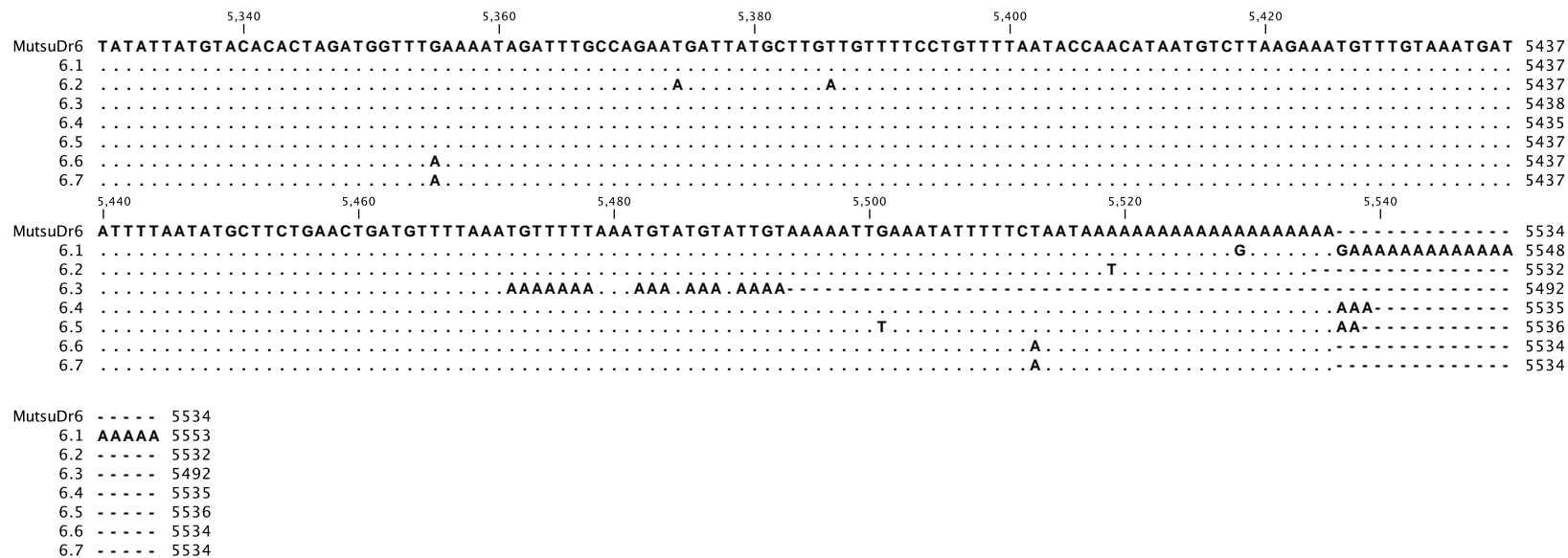
Supplemental Figure S9



Supplemental Figure S9



Supplemental Figure S9



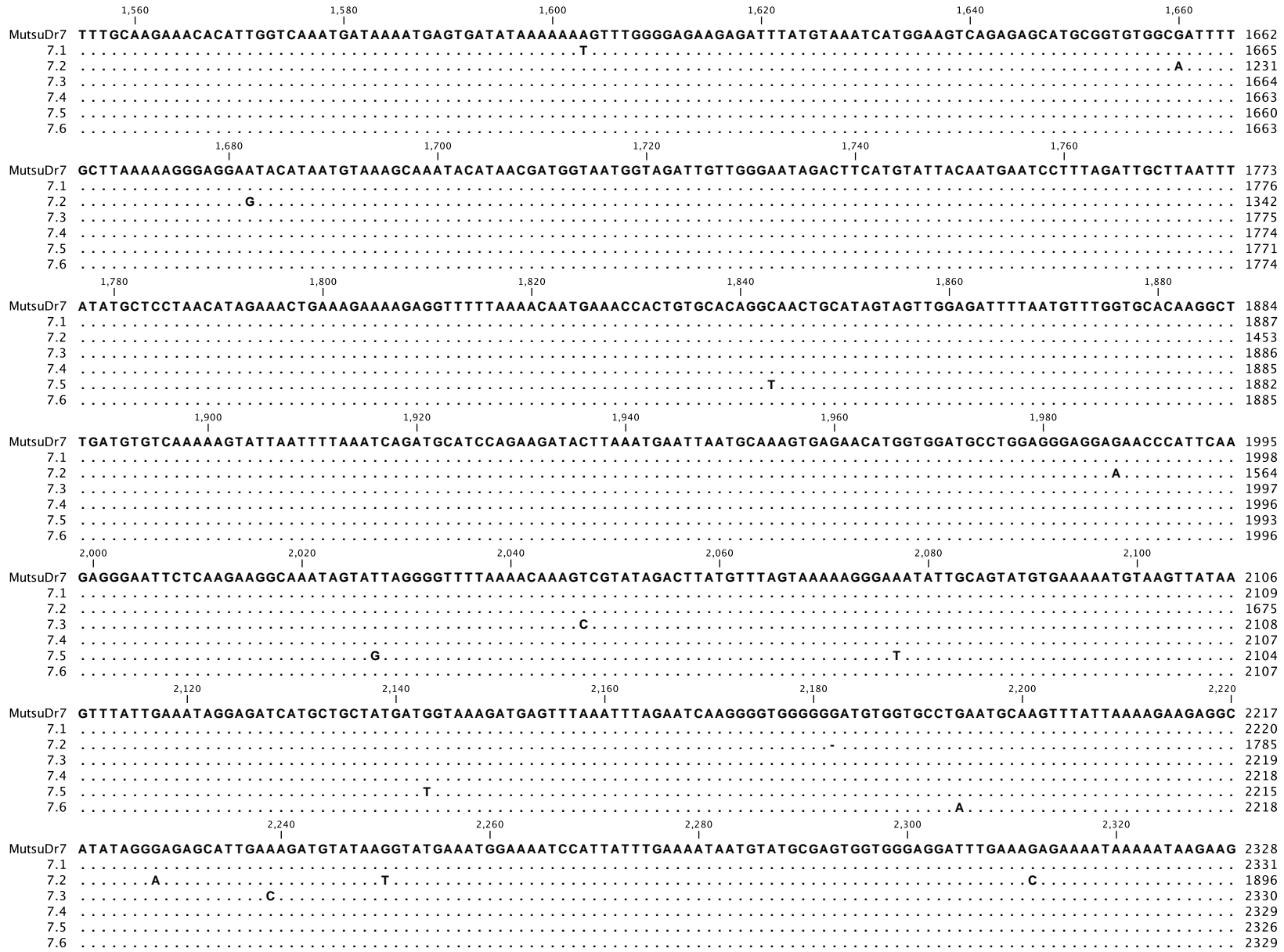
Supplemental Figure S9

		20	40	60	80	100	
MutsuDr7	GAAATGCCTGAGGCGCTATTGAGCAAGGAAGGAAGTGTGAAGATTGGTAGAAGAAGTAGTGTGAGAACACTTTTTGTTTTGAAAGCTTTTTTTT-CTTTCTAGTTTTTGG						110
7.1	.....T.....						111
7.2	.....						-
7.3	.....						110
7.4	.....C.....A.....T.....						111
7.5	.....						109
7.6	.....A..CT..CTAGT.....						111
		120	140	160	180	200	220
MutsuDr7	TTGTTTTTTT-TT-AAGAAGACCAAAAGAGGATCAAGAAGGTTTTTAGTTGGAGTTTATCACTCCCCTCAGCATTGCTGTTTGGGGAATCTTTATTTTTGTTTGT						219
7.1	.....C..T.....						222
7.2	.....						-
7.3	.....C..T.....						221
7.4	.....C.....						220
7.5	.....						217
7.6	.....C.....T.....A.....						220
		240	260	280	300	320	
MutsuDr7	CTACTGGACTGCTAAAGACAACGGCTAAACAGCATTAAAGATGGAAAAACAAGAGGTGAGCAGATTGTAAGCATGGATGGAGATGATGGCCAAGGAAGACGTGTTTTTCAG						330
7.1	.....						333
7.2	.....						-
7.3	.....						332
7.4	.....T.....						331
7.5	.....G.....						328
7.6	.....						331
		340	360	380	400	420	440
MutsuDr7	AAAAAGCTAACAGTATTGGTTGAAATTGTGGGAGAAGATAAAATTACAATGATGGAGCTTTTGAAGAAAGTGAGAGAAGATTGGTGTGTAATTGGCTGCAGATATAAG						441
7.1	.....						444
7.2	.....						A 10
7.3	.....						443
7.4	.....A.....						442
7.5	.....						439
7.6	.....						442
		460	480	500	520	540	
MutsuDr7	AACCCAAAAGAGTATGAATTAACATGAATGAAGAGGAAGGGAAAGAAAAATACTGGATGGGCTGAAGATAAAAAACGCCGATAATGGTAAAGGAAATAACAACAAT						552
7.1	.....						555
7.2	.....						121
7.3	.....T.....						554
7.4	.....G.....						553
7.5	.....						550
7.6	.....						553
		560	580	600	620	640	660
MutsuDr7	GAGATGGTGGTCTCTTTTCTGAATCTGCCAACATACATTGAAGATGAGGAAATAATTGGAAAATACTGAATGGGGAGTGAAAGCAGCTTACCTGTCAAAAGGAGAATG						663
7.1	.....						666
7.2	.....A.....						232
7.3	.....						665
7.4	.....						664
7.5	.....G.....						661
7.6	.....						664
		680	700	720	740	760	
MutsuDr7	TGGCCAGGAACGGATATTGCAGATGGAACACGATTTCTAAAAGTTAAGTTCACAGATACTGTGAAATCGCTACCATACTCAACAAAGTTTGAGACGCTGACAGGAACAGAA						774
7.1	.....						777
7.2	.....						343
7.3	.....T.....						776
7.4	.....T.....A.....G.....						775
7.5	.....A.....						772
7.6	.....						775

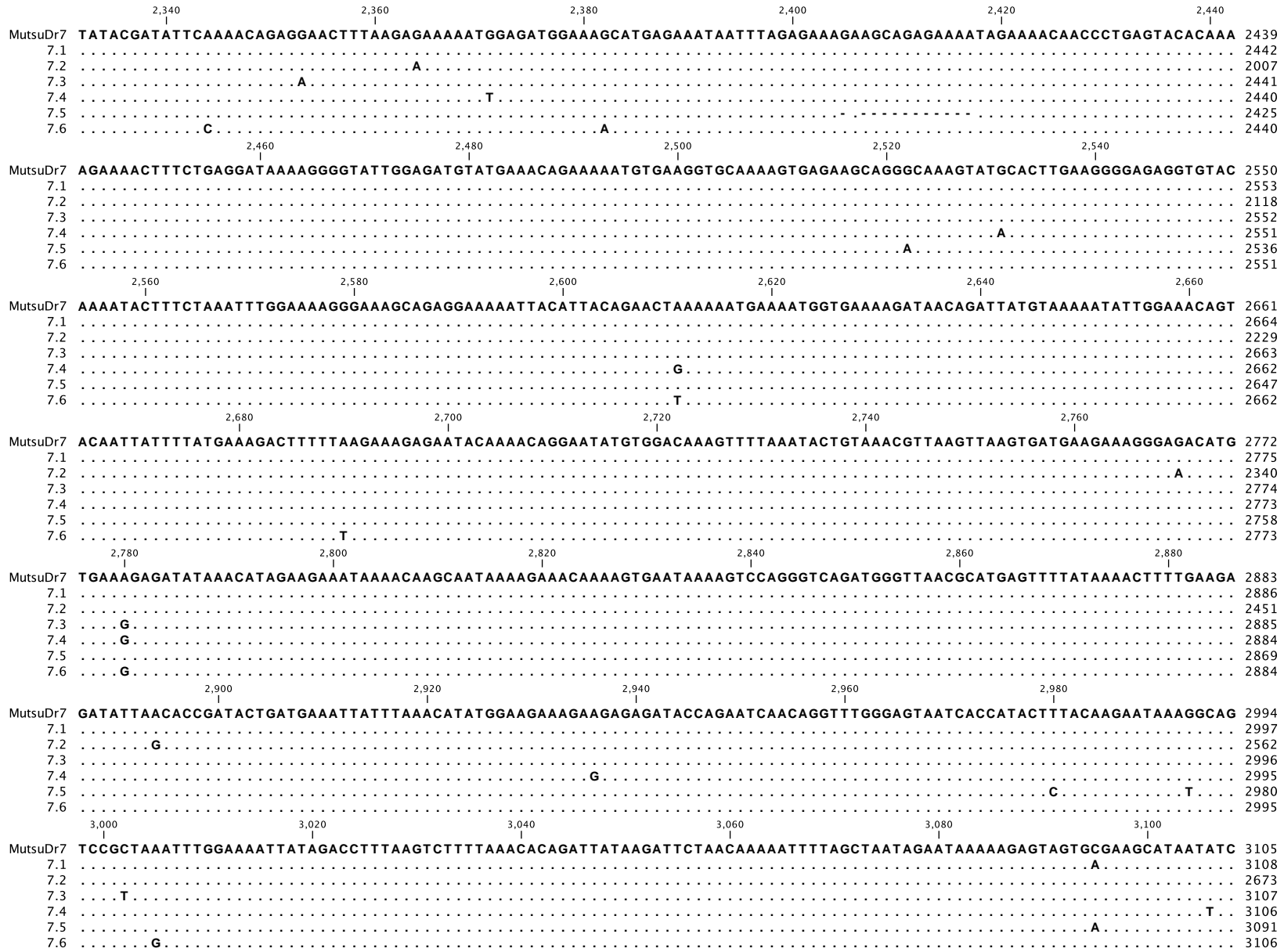
Supplemental Figure S9

		780		800		820		840		860		880		
MutsuDr7		C A T T T T A G G G T C A T A C A T G A C A G A C A G G T G A A A G T C T G C A G A G T C T G T A T C C A A C C A G G A C A C A T T G T A A G A G A C T G C C C T A A C T T T A A G T G T T A T A A A T G T G G C A T T C A G												885
7.1		..... T												888
7.2		.....												454
7.3		.....												887
7.4		.....												886
7.5		.....												883
7.6		.....												886
		900		920		940		960		980				
MutsuDr7		G G T C A T T A T G T G C G C G A A T G T G A C A A A G G A A A A T G C A A G T T G T G T A A G A T G G T C A C T G C A A T G T G T G T A T G C A G A A T T C C A G A G G A A G A A A T C A T G G G A A G C T C T C T G G A T												996
7.1		.....												999
7.2		.....												565
7.3		.....												998
7.4		..... G												997
7.5		.....												994
7.6		.....												997
		1,000		1,020		1,040		1,060		1,080		1,100		
MutsuDr7		C T A T A T G A A A G T G T G G A G G A G G C A A T A A C A G G A A A G G A A A A A G A T G A A G A A G A T G A A C A G A A T G A A G A A G A T A T A A T G G T A G A A C G A A G G G C T G G A G A A G A A G T A C A A G A G												1107
7.1		..... C												1110
7.2		..... A												676
7.3		..... C												1109
7.4		.....												1108
7.5		.....												1105
7.6		.....												1108
		1,120		1,140		1,160		1,180		1,200		1,220		
MutsuDr7		C C G A T G G A T G A C T C A C A A G A T G C C A T G G G A A A A T T C C C G C A G A A G C A A G T G G T T C A A G A G G A A G A G G A A T T A T T A T T T G A A G G A G G A G G G A A T G G T A A G A A G G A G G T C A A												1218
7.1		..... A												1221
7.2		..... T												787
7.3		..... A												1220
7.4		..... A												1219
7.5		..... A												1216
7.6		..... A												1219
		1,240		1,260		1,280		1,300		1,320				
MutsuDr7		G A A A A G C G A C C A A G A T G G G A A G G A G C A C A A G G A A A T C A A G G G G A A G A G A C T T C A T G A C A A G A A T T T A G A G A C A C C A C T G A T A C A A C T G G A G G A G G A A A T G G A C A T G												1329
7.1		..... G												1332
7.2		.....												898
7.3		.....												1331
7.4		..... T												1330
7.5		..... A												1327
7.6		..... T												1330
		1,340		1,360		1,380		1,400		1,420		1,440		
MutsuDr7		A G T G C C G G A A A T A T C A A G A T G C T G A A A A G G A A A A T G A A A G G C A C T G A A G A A G A G A C T A C A A A A A A G T A A G A T C T G A A G A C A T T T T C A A A T G T G G G T T C T C C T C T T T T T A T												1440
7.1		..... C												1443
7.2		.....												1009
7.3		.....												1442
7.4		..... G												1441
7.5		..... G												1438
7.6		..... G												1441
		1,460		1,480		1,500		1,520		1,540				
MutsuDr7		A C T A T A T G C A A T G T G T G A C T T G C T G A A A A T T G C C T G T T T G A A C T G C A A T G G A C T A A G A G A A A T G G A A A A G T T T G A G A G G G T G A T T A G A A A G T T C A A A A C A G A T G T A A T T T G												1551
7.1													1554
7.2													1120
7.3													1553
7.4													1552
7.5													1549
7.6													1552

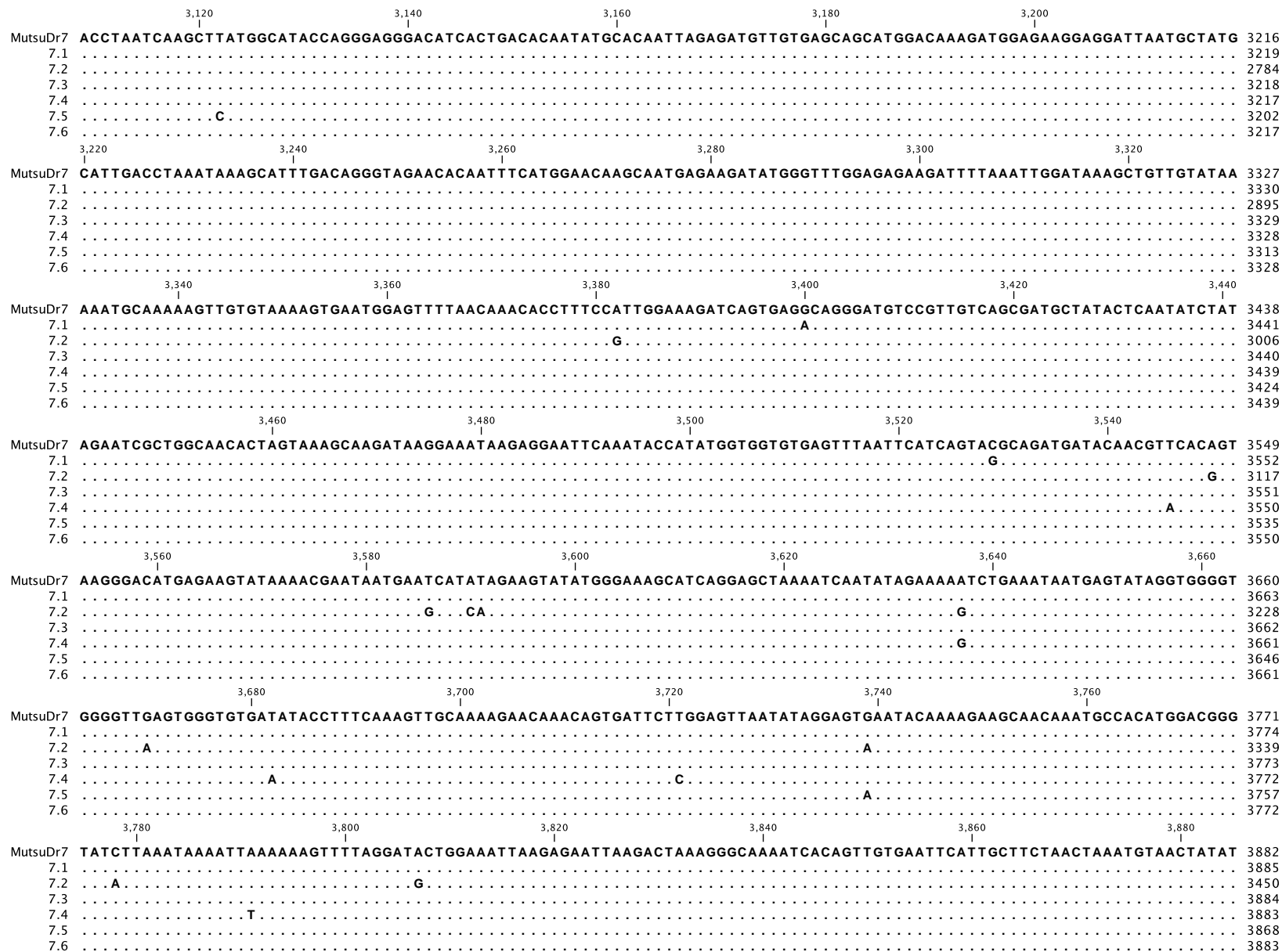
Supplemental Figure S9



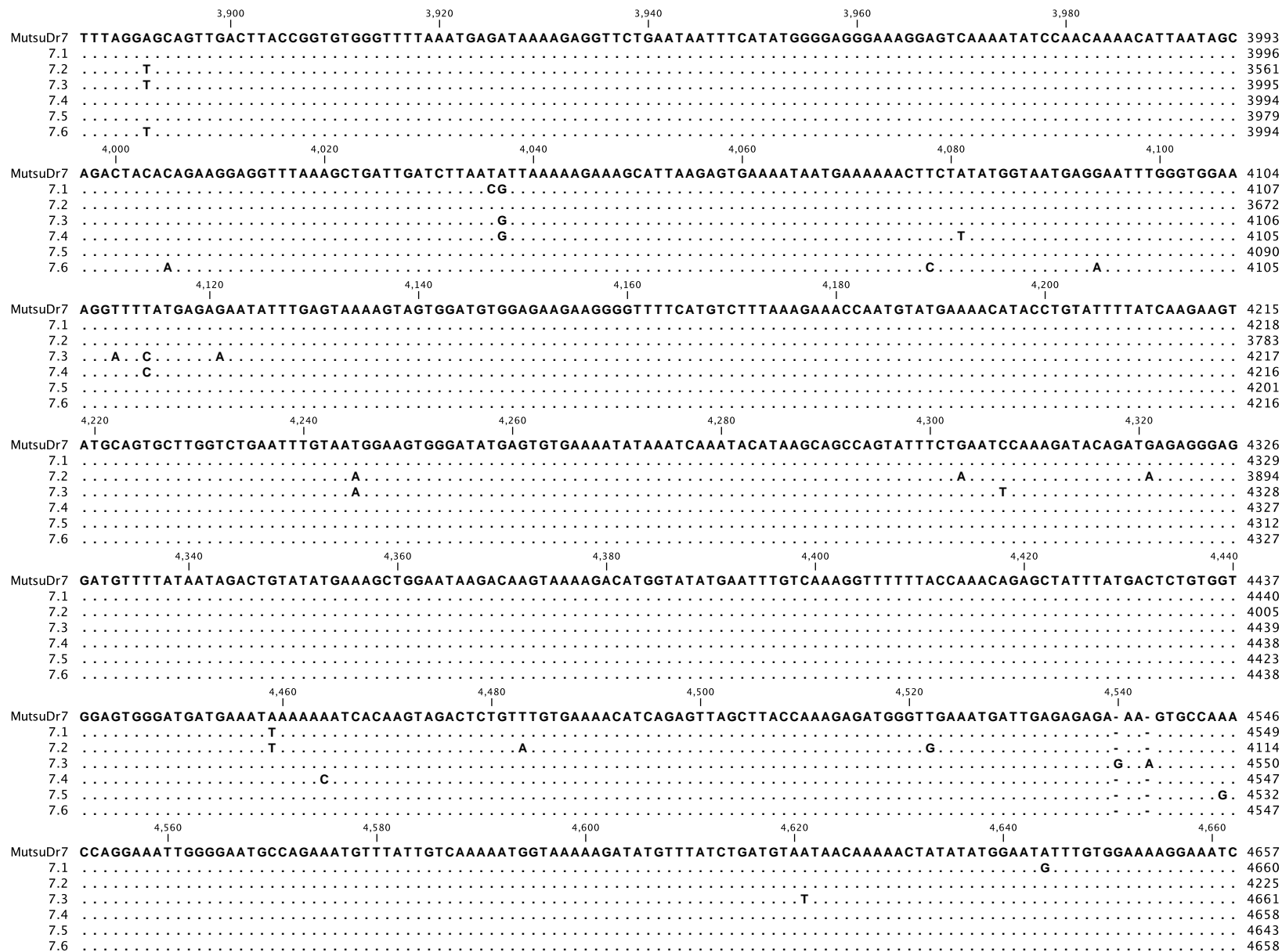
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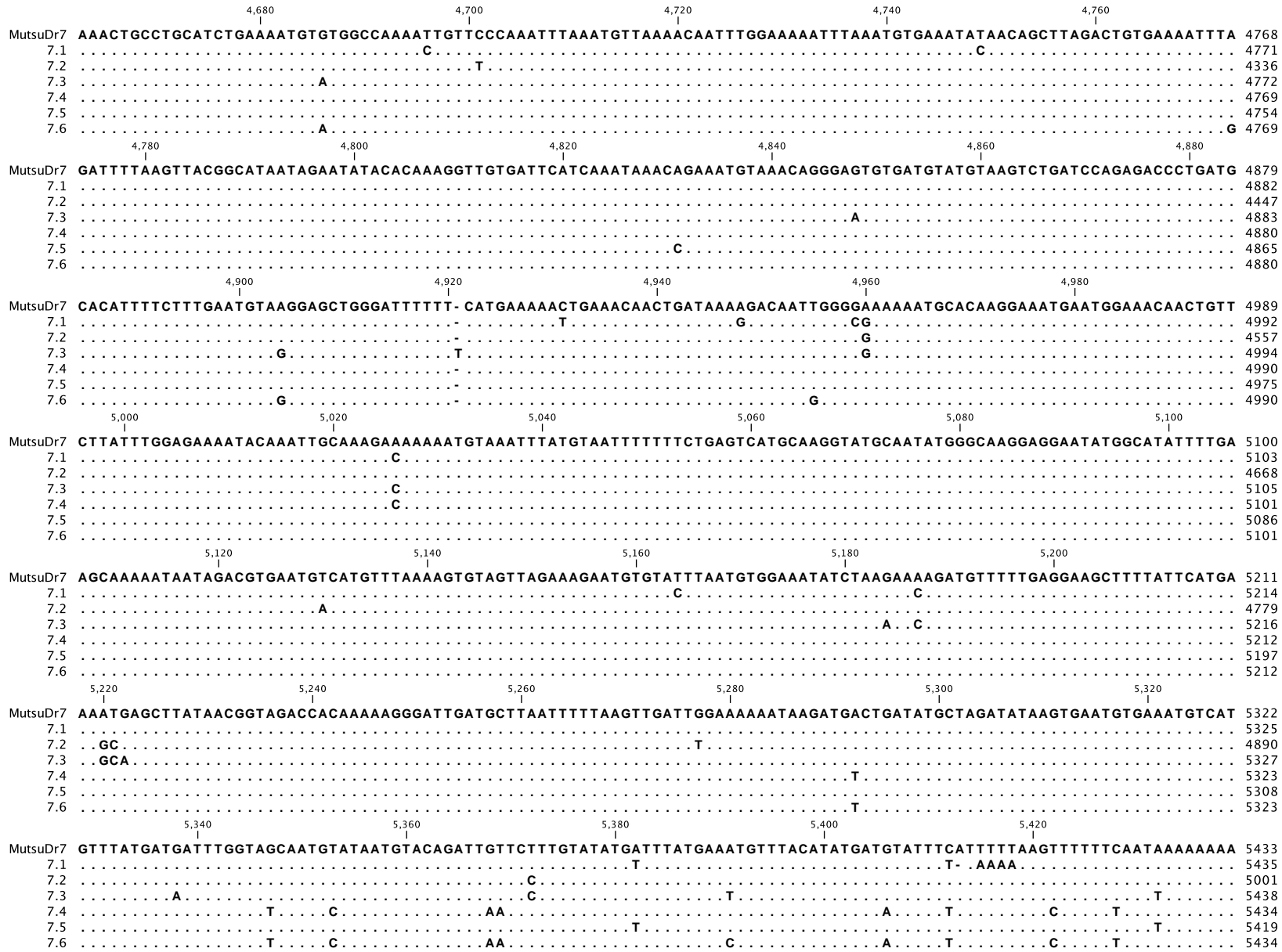
Supplemental Figure S9



Supplemental Figure S9



Supplemental Figure S9



Supplemental Figure S9

	5,440		5,460	
MutsuDr7	AAAAAAAAAAAAAAAAAAAA	-----		5453
7.1	.....	AAAAAAA		5463
7.2	.....	AAAAAAA		5029
7.3	.....	-----		5454
7.4	.....	-----		5443
7.5	.....	-----		5439
7.6	.....	-----		5443