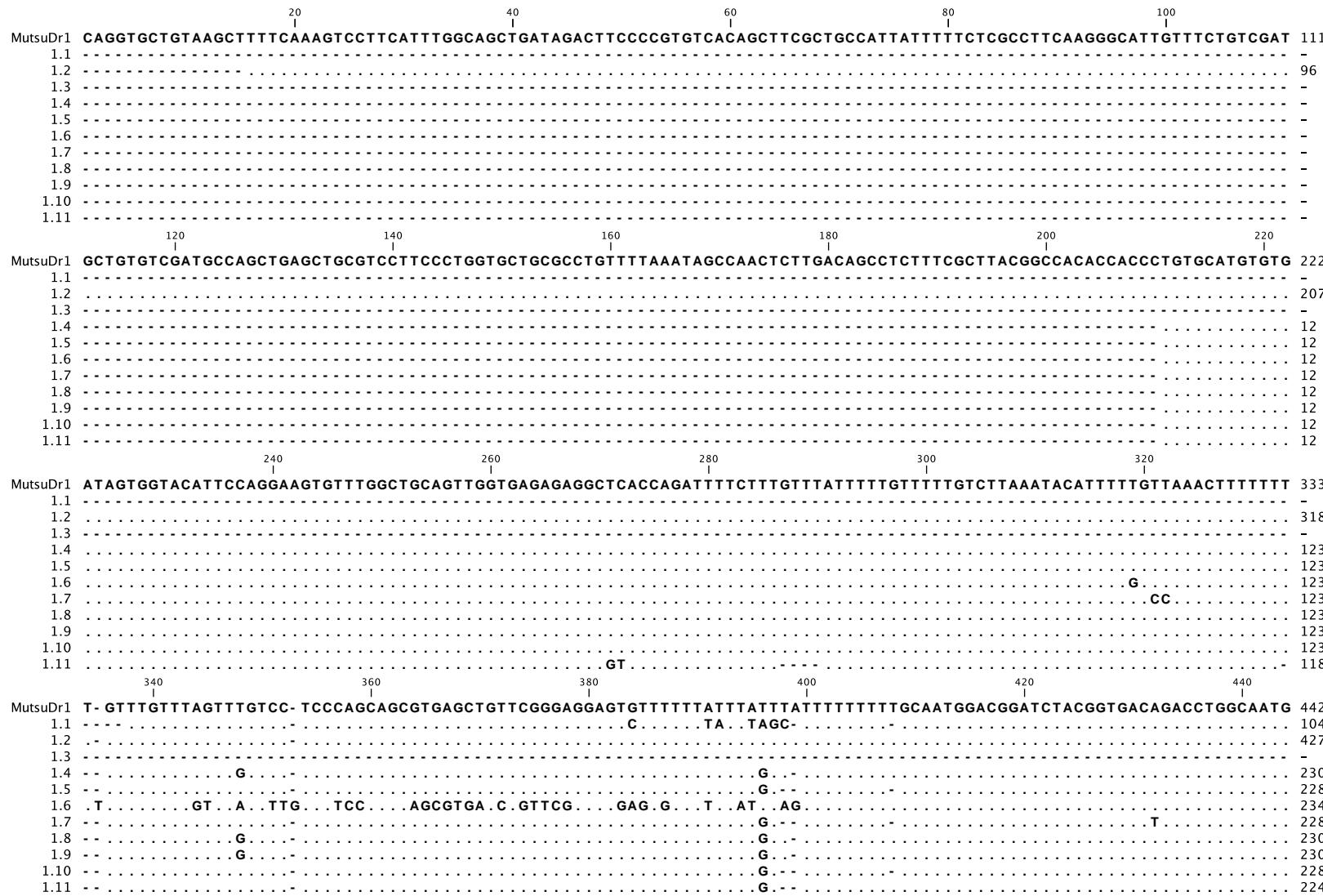


Supplemental Figure S9



Supplemental Figure S9

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

Supplemental Figure S9

	900	920	940	960	980	
MutsuDr1	ACAAATATTGAAGATGGGACGAGGTTGTGAAAACCAGATTCCCCAAGAACACTGGCGTCCCTCCCGTACAGACAAGAATAGAGACAGCAGAGGGTCACAATACTTAGG					997
1.1	.		G.		A.	659
1.2	.			T.		982
1.3	.		G.		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	GTGATGCACAGTCATCAGGTGAAAACATGCAGGCTGTGCTTGAGCCAGATCATGTGGAAAAGACTGTCCCTGATTTAGGTGCTATAAGTGCAGGAAAGGGGCACTTT					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	GCAAAGTTTGCACTGCTGAAAGTGCCGGATTGTAATAAGGTTTGAAATAAGGTTTGAAATGTTGGATTGGGAAGAGGAGGAGGTAGAGCAGCAGGTGGCAGGCAG					1219
1.1	.	G.	A.	G.		881
1.2	.					1204
1.3	.		A.			529
1.4	.	G.	A.	G.		1007
1.5	.	G.	A.	G.		1005
1.6	.	G.	A.	G.		1011
1.7	.	G.	A.	G.		1005
1.8	.	G.	A.	G.		1007
1.9	.	G.	A.	G.		1007
1.10	.	G.	A.	G.		1005
1.11	.	G.	A.	G.		1001
	1,240	1,260	1,280	1,300	1,320	
MutsuDr1	ATGATGAAGGAGACAATATCCAGTCGGAGGACAAACAAACAACACAAGAAAAAGTACAGAACATGAAAGTAAAAACTACAAGAGAAATGAGACTAATGAAATAGACAGA					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

Supplemental Figure S9

	1,340	1,360	1,380	1,400	1,420	1,440	
MutsuDr1	GTCACGGAACAGGAAGGGACAACATGGACACAAATGGATATGACTGACAGTTAAGAGTGTGGAAGCAGCAGATTGAGCGATTGAAATAAAAGACTTGAAATCAA	1441					
1.1	.					A.	1103
1.2	.					A.	1426
1.3	T.					A.	751
1.4	.				A.	A.	1229
1.5	.				A.	A.	1227
1.6	.				A.	A.	1233
1.7	.		A.		A.	A.	1227
1.8	.				A.	A.	1229
1.9	.				A.	A.	1229
1.10	.				A.	A.	1227
1.11	.			A.		A.	1223
	1,460	1,480	1,500	1,520	1,540		
MutsuDr1	GGACAAACAGGAAGACACATTTGGACACAAATGGACATCACAGACAGTTTCAAAAGGCATTGGACACAGAGGGACAAAAGGCCAAGTAATGACGAGCAAGCCGATTTA	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.		G.	T.		1334
	1,560	1,580	1,600	1,620	1,640	1,660	
MutsuDr1	GAGGGACATTTACAAAAGGATGGAAACAAAGAGACACAGGGGAAATCAGCAAAAGAAGAAGATCGTTAAAGATAAA-CCTAATTAGAGACTGTAAGAAAAAAACTGCTA	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	AAAGATGAAGAAATTGAATGCGCAAATAAGTATGAGTTGCTAAAGGGCTTGGAAAGACATGGACTGAGATGATGTTTTT-ATGAATGTTTATGTCTTTATGAATGTT	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	.			A.	-		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

Supplemental Figure S9

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

Supplemental Figure S9

	2,240	2,260	2,280	2,300	2,320	
MutsuDr1	AGTAAATTAGAAATGGCTGAGGGAATGGTTTAAAACGGATAAGGGGAGAAAGAACTAAAAAATTGATGGAGGAATGAATTAAATTGATGTGTGGAGAGAAAGGAAT					2326
1.1	.					1989
1.2	.					2312
1.3	.					1638
1.4	.					2115
1.5	.		A			2113
1.6	.	A				2119
1.7	.	A				2114
1.8	.					2115
1.9	.					2115
1.10	.		A			2113
1.11	.			G		2109
	2,340	2,360	2,380	2,400	2,420	2,440
MutsuDr1	GAACAGACAAAAGAGTACTCAAGAACAGATAGTGGGAATTTTGTTGTCAAACAAGAATTGATTTATTTATGCACAAGAAATGTTGAAGGGTTATAAACAGATT					2437
1.1	.		A			2100
1.2	.		A			2423
1.3	A		A			1749
1.4	.		A		A	2226
1.5	.		A			2224
1.6	.	A	C			2230
1.7	.	A			A	2225
1.8	.	A			A	2226
1.9	.	A			A	2226
1.10	.	A			A	2224
1.11	.		A			2220
	2,460	2,480	2,500	2,520	2,540	
MutsuDr1	AAATATGAAGAACAAAGTCTGAGTGACCATAAGCCACTTTTATGAAGCTAGACTGGAGTAATGTGAAAAGAGGGCCAGGGGTATGGTTTAAACACAGCGGTTAAAG					2548
1.1	.					2211
1.2	.					2534
1.3	.	T				1860
1.4	.					2337
1.5	.					2335
1.6	.					2341
1.7	.					2336
1.8	.					2337
1.9	.					2337
1.10	.					2335
1.11	A		T			2331
	2,560	2,580	2,600	2,620	2,640	2,660
MutsuDr1	AATGAAGACTATTTAAGTAAAGGAAATTATTCAAAGGAAAAGGAATGAAATCTATAATGAGGACAAAAGAATGTGGTGGAGAATGTGAAGTATTAGTTAAA					2659
1.1	.					2322
1.2	.					2645
1.3	.	G				1971
1.4	.					2448
1.5	.	A				2446
1.6	.					2452
1.7	.					2447
1.8	.					2448
1.9	.					2448
1.10	.	A				2446
1.11	.					2442

Supplemental Figure S9

	2,680	2,700	2,720	2,740	2,760	
MutsuDr1	AAGTTTACGATAAAATATTGTAGACAATTACAAAATTGTAAAAAATAAGGAAAGGAGCTGAAAGAAAAACTAGAAAACGAATTGAAAAATGAGAAT	-	-	GGAAAAAAT	2767	
1.1	.	.	.	.	.	2430
1.2	.	.	.	.	.	2753
1.3	.	.	G.	.	.	2079
1.4	.	.	.	.	.	2556
1.5	.	.	.	C.	.	2554
1.6	.	.	.	.	.	2560
1.7	.	.	.	.	.	2555
1.8	.	.	.	.	.	2556
1.9	.	.	.	.	.	2556
1.10	.	.	.	C.	.	2554
1.11	.	.	.	.	AAT.	2553
	2,780	2,800	2,820	2,840	2,860	2,880
MutsuDr1	ATACAAAAGATTAAAGAACTGCAAGGAAGATTAAATGAAATGGAGGAGGAGAATTGAGGTGCAAGATTAAAGTAAGTAAAGCAAATTACAGTAGAGGGGAAAGTGC	2878				
1.1	.	.	.	C.	.	2541
1.2	.	A.	A.	G.	A.	2864
1.3	.	A.	A.	G.	A.	2190
1.4	.	.	.	C.	.	2667
1.5	.	A.	A.	G.	A.	2665
1.6	.	.	.	C.	.	2671
1.7	.	.	.	C.	A.	2666
1.8	.	.	.	C.	G.	2667
1.9	.	.	.	C.	A.	2667
1.10	.	A.	A.	G.	A.	2665
1.11	.	A.	A.	G.	A.	2664
	2,900	2,920	2,940	2,960	2,980	
MutsuDr1	ACTAAATTTTCTTGATCTAGAGAAGAGAGAGGGAAAGTCAGAAATGATTAGAGAAATAAGGAGCAAAATGGAACGTAGTAGAACACATGAGGAGATTTGGAAGAA	2989				
1.1	.	.	.	A.	.	2652
1.2	.	.	.	.	.	2975
1.3	.	.	T.	.	.	2301
1.4	.	.	.	.	.	2778
1.5	.	.	.	A.	.	2776
1.6	.	.	.	.	.	2782
1.7	.	.	.	.	.	2776
1.8	.	.	.	.	.	2778
1.9	.	.	.	.	.	2778
1.10	.	.	.	A.	.	2776
1.11	.	.	.	A.	.	2775
	3,000	3,020	3,040	3,060	3,080	3,100
MutsuDr1	ATAAGATCATATTATGAGAAATTGTTGCACAGAGGGATAAAAGAAAAAGAAAAAGGGATTACTAAATCTAATAAAATCAAGAGTAGAAGAAGGGAAAAAGAGAA	3100				
1.1	.	.	.	.	.	2763
1.2	.	.	.	.	.	3086
1.3	.	.	.	.	.	2412
1.4	.	.	.	.	.	2889
1.5	.	.	.	.	.	2887
1.6	.	.	.	.	.	2893
1.7	.	.	.	.	.	2887
1.8	.	.	.	.	.	2889
1.9	.	.	.	.	.	2889
1.10	.	.	.	.	.	2887
1.11	.	.	.	G.	.	2886

Supplemental Figure S9

	3,120	3,140	3,160	3,180	3,200	
MutsuDr1	TGTGACGAGGGATAAGAGAAGAAGAAATAAAAGAGCAATTAGTGATTAACAAAAAGAAAAGTCCAGGAATAGATGGGTTGGGAAGTGAATTATATTGTTTAA					3211
1.1	.		G.			2874
1.2	.		.			3197
1.3	.		.			2523
1.4	.		G.			3000
1.5	.		.			2998
1.6	.		.			3004
1.7	.		.			2998
1.8	.		.			3000
1.9	.		G.			3000
1.10	.		.			2998
1.11	C.		.			2997
	3,220	3,240	3,260	3,280	3,300	3,320
MutsuDr1	GATATTTATCTAGTATTTAAGGAAGTATATGATGAGATTTGAGAATGGTGAGATAAATAAAAGAATGGGATGGGCTTAATGAAGGTGATATACAAGGAAAGGGG					3322
1.1	.		C.			2985
1.2	.		.			3308
1.3	.		.			2634
1.4	.	G.	.	T.		3111
1.5	.	.	.	.		3109
1.6	T.	.	.	.		3115
1.7	.	.	.	.		3109
1.8	.	G.	.	T.		3111
1.9	.	G.	.	T.		3111
1.10	.	.	.	.		3109
1.11	.	.	.	.		3108
	3,340	3,360	3,380	3,400	3,420	3,440
MutsuDr1	GATAAAGTAGATTAAAAAAACTATAGACCTATAACAATGCTTAATACTGATTTGAAAGATTTAGCCAAAGTTGGCTAATAGACTAAAAGAAGTGTGATGCCAAGCATAATA					3433
1.1	.	C.	.	.		3096
1.2	.	.	.	.		3419
1.3	C.	.	T.	.		2745
1.4	.	.	.	.		3222
1.5	C.	.	.	.		3220
1.6	.	.	.	.		3226
1.7	.	.	.	.		3220
1.8	.	.	.	.		3222
1.9	.	.	.	.		3222
1.10	C.	.	.	.		3220
1.11	C.	.	.	.		3219
	3,460	3,480	3,500	3,520	3,540	
MutsuDr1	AAAACAAACCAAGCATATAGTATAAAGGACGAGACATTGCGGATACAACATAGAGTATTAAGACACAATTAGATATATAATGATAAGCAGAAAGATGGTTTTAATT					3544
1.1	.	.	.	.		3207
1.2	.	.	.	.		3530
1.3	.	.	.	.		2856
1.4	.	.	.	.		3333
1.5	.	C.	.	T.		3331
1.6	.	.	.	.	A.	3337
1.7	.	.	.	.	.	3331
1.8	.	.	.	.	.	3333
1.9	.	.	.	.	.	3333
1.10	.	C.	.	T.	.	3331
1.11	.	.	.	.	.	3330

Supplemental Figure S9

	3,560	3,580	3,600	3,620	3,640	3,660	
MutsuDr1	AGTCTGGACTTCGAGAAAGCTTTGATAGGGTGAGCATGACTTTTATTGGAGTGTAAAGAGTTGGGGAAAATTTATAAAGTGGTCAGATTTATAT						3655
1.1	3318
1.2	3641
1.3	2967
1.4	3444
1.5	.	.	.	A.	.	A.	3442
1.6	3448
1.7	3442
1.8	3444
1.9	3444
1.10	.	.	.	A.	.	A.	3442
1.11	3441
	3,680	3,700	3,720	3,740	3,760		
MutsuDr1	AGAGGAGCGGTAACAAGGATAAAATGCAATGGTTTTAACAGACTGTTTAAGATAAGAAGGTCAATCAGACAGGGTTGCCGTATCTGCACTTTATATGCTTAGTT						3766
1.1	.	.	T..C	.	.	.	3429
1.2	.	.	T..C	.	.	.	3752
1.3	.	.	T..C	.	.	.	3078
1.4	.	.	T..C	.	.	.	3555
1.5	.	.	T..C	.	.	.	3553
1.6	3559
1.7	A.	.	3553
1.8	.	.	T..C	.	.	.	3555
1.9	.	.	T..C	.	.	.	3555
1.10	.	.	T..C	.	.	.	3553
1.11	.	T..	C..T	.	.	.	3552
	3,780	3,800	3,820	3,840	3,860	3,880	
MutsuDr1	GCAGAACCACTGGGATTAGCTGTGAAGCACGAGGACAGAATAAAAGGAATAGAGGTAGAGGGGGGAGTGAATAAAATATTCAATATGCTGACGATACCACATTAACATA						3877
1.1	3540
1.2	3863
1.3	.	T..	.	.	T..	.	3189
1.4	.	.	T..	.	.	.	3666
1.5	.	A..	T..	.	T..	.	3664
1.6	.	A..	.	.	T..	.	3670
1.7	T..	.	3664
1.8	3666
1.9	3666
1.10	.	.	T..	.	T..	.	3664
1.11	3663
	3,900	3,920	3,940	3,960	3,980		
MutsuDr1	CAAGATCTGGCAAGTAAAGCAAGCAATGGAAACAGTACAGCATTTTCAAGGGGTCAAGGGCTAAATAATGAAAATAACAGGGTATTGAGATTGGGAACT						3988
1.1	.	.	T..	.	G..TA..	.	3651
1.2	3974
1.3	.	A..A..	.	T..	GG..G..TA..	.	3300
1.4	.	A..A..	.	T..	GG..TA..	.	3777
1.5	A..A..	.	.	.	G..TA..AGA..	.	3775
1.6	G..A..	A..	.	.	G..	.	3781
1.7	.	A..	.	.	G..	.	3775
1.8	.	A..A..	.	T..	GG..TA..	.	3777
1.9	.	A..A..	.	T..	GG..TA..	.	3777
1.10	A..A..	.	.	T..	G..TA..AGA..	.	3775
1.11	.	.	A..A..	T..	G..TA..	.	3774

Supplemental Figure S9

	4,000	4,020	4,040	4,060	4,080	4,100	
MutsuDr1	GAGGCTTATCTGGACATTTACTTTAAGGAAATGGATGAAATAAAAATTTAGGCATTGTATTGGGAGGGATGAAAAGAAAGCAGAAGTAACCATGTGGGAGGAATT						4099
1.1	.	T.	A.				3762
1.2	.	.					4085
1.3	.	T.					3411
1.4	.	T.					3888
1.5	.	T.		A.			3886
1.6	.						3892
1.7	.						3886
1.8	.	T.		A.			3888
1.9	.	T.		A.			3888
1.10	.	T.					3886
1.11	.	T.					3885
	4,120	4,140	4,160	4,180	4,200		
MutsuDr1	TTAGGAGGGATTGAAACGGAGGCTGAGGTTTGAAATTAAATGTCTTAACTTGAAGGGAGGGTTTAAATTGAGTGTAAATGGTTCTAAATTATGGAATATTTA						4210
1.1	.			A.			3873
1.2	.			A.			4196
1.3	.		A.	A.			3522
1.4	.		A.	A.			3999
1.5	.		A.	A.	C.	A.	3997
1.6	.		A.		A.		4003
1.7	.		A.		A.		3997
1.8	.		A.		A.		3999
1.9	.		A.		A.		3999
1.10	.		A.	A.	C.	A.	3997
1.11	.	A.		A.		A.	3996
	4,220	4,240	4,260	4,280	4,300	4,320	
MutsuDr1	TATGTGTCATCAATGCCACTGTGGATGGAAAAAGGCTGAAACAATGTTTTAGATTTTATGGGAAGGGAAACCTCCAAGAACATAGCATATGCAACGTTAATTGGAGAA						4321
1.1	.						3984
1.2	.						4307
1.3	.						3633
1.4	.		C.				4110
1.5	.						4108
1.6	.						4114
1.7	.						4108
1.8	.		C.				4110
1.9	.		C.				4110
1.10	.						4108
1.11	.						4107
	4,340	4,360	4,380	4,400	4,420	4,440	
MutsuDr1	GTAGGCAAAGGGGTCTAGGTTAATAGACGTGGAGCAAAGAAAAACAGTTAAGAGTAAAAATGGTAAGGAAATATGGATGAAGACAATAAGGCAGCATGAAAAGA						4432
1.1	.						4095
1.2	.						4418
1.3	G.						3744
1.4	.						4221
1.5	G.						4219
1.6	.						4225
1.7	.						4219
1.8	.						4221
1.9	.						4221
1.10	G.						4219
1.11	.						4218

Supplemental Figure S9

	4,460	4,480	4,500	4,520	4,540	
MutsuDr1	ACAATGGAATATTTAAGTAAAAGTGGCAATTAAATGGGAGATAATTTTACATGAGGATGAAAAAATT CATGACAGAGGTCTACCAGATTAAAGAA					4543
1.1	.	T.	G.			4206
1.2	.	.				4529
1.3	.	T.	G.			3855
1.4	.	.	G.			4332
1.5	.	T.	G.			4330
1.6	.	T.	.			4336
1.7	.	.	G.			4330
1.8	.	.	G.			4332
1.9	.	.	G.			4332
1.10	.	T.	G.			4330
1.11	.	T.	G.			4329
	4,560	4,580	4,600	4,620	4,640	4,660
	4,680	4,700	4,720	4,740	4,760	
MutsuDr1	TTGATTGGAGCATGGGAAATTTTAACTTGTGTACATTAAACATACAAGGACGCGAGAACATTAAATCAGCCTTATTCTAACAGTGGCATTCTAACAGAG					4654
1.1	.	G.				4317
1.2	.	.				4640
1.3	.	G.		T.		3966
1.4	.	G.				4443
1.5	.	G.				4441
1.6	.	G.				4447
1.7	.	G.		G.		4441
1.8	.	G.				4443
1.9	.	G.				4443
1.10	.	G.				4441
1.11	.	G.				4440
	4,780	4,800	4,820	4,840	4,860	4,880
MutsuDr1	AAAGTGGTGTAGGAAATGGTGGGAGGTGGAAATAACAAGAGTAAGGGATGTTTATATGAATTAAAGGAAGGATTTTACCAAGTACAGTATGTTATTGACGTAATG					4765
1.1	.	.	.	AG.		4428
1.2	.	.	.			4751
1.3	.	.	.	G.		4077
1.4	.	.	G.	G.		4554
1.5	.	.	G.			4552
1.6	.	.	G.			4558
1.7	.	.	G.			4552
1.8	.	.	G.	G.		4554
1.9	.	.	G.	G.		4554
1.10	.	.	G.			4552
1.11	.	.	G.			4551
	4,780	4,800	4,820	4,840	4,860	4,880
MutsuDr1	GATGAAGCGAAGGAGGATTTAACAGACAAGACTAATAAGGAATACGACATAATCAAAATGCCATACCTGCAGAATGTTAACAGAACATGAAAGAAAATGAAAGAAAAT					4876
1.1	C.	4539
1.2		4862
1.3		4188
1.4		4665
1.5		4663
1.6	.	A.	.	.		4669
1.7	.	.	T.	.	C.	4663
1.8		4665
1.9		4665
1.10		4663
1.11		4662

Supplemental Figure S9

	4,900	4,920	4,940	4,960	4,980	
MutsuDr1	AAACAAAGTAAAGATGTGATTGTAAGATTTGGAGAGAAATGGTGGACTTGAAAGATAGTACTGTAAAATGATTATGGTTTTAGAGATGGGTTTTAAGAACCG					4987
1.1	.	A.....C				4650
1.2	.	C				4973
1.3	.	C				4299
1.4	.	A.....C				4776
1.5	.	C				4774
1.6	T	A	AT			4780
1.7	.					4774
1.8	.	A.....C				4776
1.9	.	C				4776
1.10	.	A.....C				4774
1.11	.	C				4773
	5,000	5,020	5,040	5,060	5,080	5,100
MutsuDr1	CGTGC AAATGAGAACTGGATACGGATGTTAAAGATGTAATGAAGACAAACATATGGCTAATATAAAGGGCAAATTAGTACAGTC AAAGTGGAGAATTGGAATATTTG					5098
1.1	T	T				4761
1.2	.					5084
1.3	T	T				4410
1.4	T		T			4887
1.5	T		T			4885
1.6	T					4891
1.7	T					4885
1.8	T		T			4887
1.9	T		T			4887
1.10	T		T			4885
1.11	T					4884
	5,120	5,140	5,160	5,180	5,200	
MutsuDr1	ATCAGAAATAAACG AGTTTACAGATATAATTAAACAAAAATAGGGATGGAGGAAAGTGTACATGTAAAGTATGTCAAGATGCAGATGAAGGGATTCTTACACCTGTT					5209
1.1	.		G			4872
1.2	.					5195
1.3	.					4521
1.4	.		G			4998
1.5	.					4996
1.6	.					5002
1.7	.					4996
1.8	.		G			4998
1.9	.		G			4998
1.10	.					4996
1.11	.					4995
	5,220	5,240	5,260	5,280	5,300	5,320
MutsuDr1	TTATATTGTAATGAGTTGAAAGATTTAATGAGAAATGCAAAGCATTATTTACTTGAAAGGAGAAAGAGATGACGA CTTGACTGGAAAAGGTGTTGATGTTGGGA					5320
1.1	.		A			4983
1.2	.					5306
1.3	.				T	4632
1.4	.				A	5109
1.5	.	A				5107
1.6	.					5113
1.7	.					5107
1.8	.				A	5109
1.9	.				A	5109
1.10	.					5107
1.11	.					5106

Supplemental Figure S9

	5,340	5,360	5,380	5,400	5,420	
MutsuDr1	GTGAACAAAGAATGATAATAATGAAAAGCTCATAAATTACTGGTATGTTAAGGAAAAGTCATATGGGAGAGAAGAGTTGCTGC AAAAAGAAAAAGCTGTATTAGAT					5431
1.1	.	T.	T.	G.		5094
1.2	.	.	.	.	.	5417
1.3	C.	T.	T.T	.	.	4743
1.4	.	T.	T.	.	.	5220
1.5	.	T.	T.	.	.	5218
1.6	.	T.	T.	.	.	5224
1.7	.	T.	T.	.	T.	5218
1.8	.	T.	T.	.	.	5220
1.9	.	T.	T.	.	.	5220
1.10	.	T.	T.	.	.	5218
1.11	.	T.	T.	.	C.	5217
	5,440	5,460	5,480	5,500	5,520	5,540
MutsuDr1	GTGTGGAATGTATTAAGAGGAAGGTGGAGAAATATGTTGAATGTCGTTTATTATTTAAGTTGGAGGACATGCAGGAGGCTTTATGATGTTTACTCAAGAACGTT					5542
1.1	.	.	.	.	.	5205
1.2	.	.	.	.	.	5528
1.3	.	.	.	.	.	4854
1.4	.	.	.	.	.	5331
1.5	.	A.	.	.	.	5327
1.6	C.	.	.	.	.	5335
1.7	.	.	.	.	.	5329
1.8	.	.	.	.	.	5331
1.9	.	.	.	.	.	5331
1.10	.	A.	.	.	.	5327
1.11	.	.	.	.	.	5328
	5,560	5,580	5,600	5,620	5,640	5,660
MutsuDr1	TCAAAGATTAAATGACACAGGAATGAAAATGCCTTTAAAGATG-TGATTATACCCCTTAAGGAGTTCTACTTGCAACATTTTATATTTAAAATGTTTATTGTGAAG					5652
1.1	.	-	-	-	-	5315
1.2	.	-	-	-	-	5638
1.3	.	-	-	-	-	4964
1.4	C.	-	-	-	T.	5441
1.5	T.	-	-	-	-	5437
1.6	.	-	-	-	T.G.	5445
1.7	.	A.G.	-	-	-	5440
1.8	C.	-	-	-	T.	5441
1.9	C.	-	-	-	T.	5441
1.10	T.	-	-	-	-	5437
1.11	.	-	-	-	-	5438
	5,680	5,700	5,720	5,740	5,760	
MutsuDr1	ATATGATGTAATAAGGACCTTTAATGTTTGTCTGAAGTGAATATGATAATAAGTGAATTGAAAAAAAAAAAAAAAAAAAAA-----					5746
1.1	C.	AAA...AAA...A.AAA.A..A-				5371
1.2	.					5732
1.3	T.		TG..TTTG.C.GT.T..T...		AAAAAAAAAAAAA-----	5075
1.4	.		TG..TTTG..GT.T..T...		AAAAAATAAAAAA-----	5552
1.5	C.		TG..TTCTG.C.GT.T..TT...		AAAAAAAAAAAAA-----	5547
1.6	.	A.	TG..TTTG..GT.T..T...		AAAAAAAAAAAAA-----	5555
1.7	C.		TG..TTTG..C.GT.T..T...		AAAAAATAAAAATAAAA	5551
1.8	.		TG..TTTG..GT.T..T...		AAAAAAAAAAAAA-----	5552
1.9	.		TG..TTTG..GT.T..T...		AAAAAATAAAAAA-----	5552
1.10	C.		TG..TTCTG.C.GT.T..TT...		AAAAAAAAAAAAA-----	5547
1.11	C.A....AAA..AAAAAAA...AAA..A.AC-					5487

Supplemental Figure S9

MutsuDr1	- - - - -	5746
1.1	- - - - -	5371
1.2	- - - - -	5732
1.3	- - - - -	5075
1.4	AAAAAAAAAAAAA - - -	5574
1.5	- - - - -	5547
1.6	- - - - -	5555
1.7	AATAAA - - - - -	5577
1.8	AAAAAAA - - - - -	5576
1.9	AAAAAAA - - - - -	5574
1.10	- - - - -	5547
1.11	- - - - -	5487

Supplemental Figure S9

MutsuDr2 AGCACGCTAGAGGGAGCTAGAGTGCAACAAGGAAGTGACTGGCAGCAGTCAGGAGAGGAAGGCTCTCCATTTCTGTTTATT- TTTTGTGTTTACACTTTGT 110
 2.1 -
 2.2 -
 2.3 -
 2.4 -
 2.5 -
 2.6 -
 2.7 -
 2.8 -
 2.9 -
 2.10 -
 2.11 -
 S2.1 -
 S2.2 -
 20 | 40 | 60 | 80 | 100 |
 120 | 140 | 160 | 180 | 200 | 220 |
 240 | 260 | 280 | 300 | 320 |
 340 | 360 | 380 | 400 | 420 | 440 |

MutsuDr2 GGACTGATATA GTTTTGATTTTGT TTTTAACCACCTGACAGCAGCAGCATTTGCTGGCTGGAGGGTGGTTTTGCGTGTGTTTTGCTATGGAGCAA 220
 2.1 -
 2.2 -
 2.3 -
 2.4 -
 2.5 -
 2.6 -
 2.7 -
 2.8 -
 2.9 -
 2.10 -
 2.11 -
 S2.1 -
 S2.2 -
 20 | 40 | 60 | 80 | 100 |
 120 | 140 | 160 | 180 | 200 | 220 |
 240 | 260 | 280 | 300 | 320 |
 340 | 360 | 380 | 400 | 420 | 440 |

MutsuDr2 ACAAAGGACGGATTGATGGCAAACGACCCCTGGACTGGATGCAGAGACACGAAAGGAATATGAAACAGGACTGGATGACGAGACAAGAATGGTTAAGACAACGGACTGGAA 331
 2.1 -
 2.2 -
 2.3 -
 2.4 -
 2.5 -
 2.6 -
 2.7 -
 2.8 -
 2.9 -
 2.10 -
 2.11 -
 S2.1 -
 S2.2 -
 20 | 40 | 60 | 80 | 100 |
 120 | 140 | 160 | 180 | 200 | 220 |
 240 | 260 | 280 | 300 | 320 |
 340 | 360 | 380 | 400 | 420 | 440 |

MutsuDr2 AATGGACAACGAGCTGGACAACGGAAAAGCCAAGTAGGTGGAAGAAAGTATTTAAGGAGGCAACAGTTATCATTAATGTGGAAGATGTACAGGAAGTGAGAGCAGAACAGAT 442
 2.1 -
 2.2 -
 2.3 -
 2.4 -
 2.5 -
 2.6 -
 2.7 -
 2.8 -
 2.9 -
 2.10 -
 2.11 -
 S2.1 -
 S2.2 -
 20 | 40 | 60 | 80 | 100 |
 120 | 140 | 160 | 180 | 200 | 220 |
 240 | 260 | 280 | 300 | 320 |
 340 | 360 | 380 | 400 | 420 | 440 |

Supplemental Figure S9

	460	480	500	520	540	
MutsuDr2	ATT ATTAAAGCGGTGATTGAAAAGTGTGGACATGGAAAAATTCTGGCTTAAGACCAAGACAAGGAAGGAGTACGAACTAACAATGGAAACAGAAGAATTATGTGAACAA					553
2.1	.	.	.	.	.	194
2.2	.	.	.	.	G	554
2.3	.	.	.	.	.	515
2.4	.	.	.	.	G	553
2.5	.	A	.	.	.	553
2.6	.	.	.	.	G	194
2.7	.	.	.	.	.	553
2.8	.	.	.	A	.	553
2.9	.	.	.	.	.	548
2.10	.	A	.	.	.	553
2.11	A	.	.	.	.	553
S2.1	A	.	.	.	.	553
S2.2	A	.	.	.	.	553
	560	580	600	620	640	660
MutsuDr2	TTGACTGACAAACTGATGATAATGGGGTGAACGTGAAATTAAAAGCTTCATAATAGGGATTTGTTGTTCCCTCATGCACCTGCCGTCTATCTTGAAGATAAGGAA					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	ATTCTGGAAAAATTAGATACTTGGGAGTTGTCCCATATCTAAAATTAAACGAAGGTTTATCGGGTACCGACATAGAACGGAACAGGTTCCCTAAAGTGAGGTT					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	CTTAAAGAGGTGGCATCCTTGCACATACAGCACAAAAAATAGAGACAGCAGAAGGAACCGCAGTACTTCAGGGTATGCACAGCCATCAGGTGAAGACCTGTAGGCTGTGCAT					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	.	T	886
2.6	.	.	G	.	.	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

Supplemental Figure S9

	900	920	940	960	980	
MutsuDr2	AGCCCGAACACATGCTGAAAGACTGTCCAGAATTCAAGTGCTACAAATGTGAGGAAGGGGGCATTTGCAAGAGACTGTATCACTGTCAGGTGCCCGAATGTAAAAAT					997
2.1	.					638
2.2	.					998
2.3	G.		C.		A.	959
2.4	.		C.		T.	997
2.5	G.		C.		T.	997
2.6	.		C.			638
2.7	.		C.		T.	997
2.8	.		C.		T.	997
2.9	G.		C.			992
2.10	.		C.			997
2.11	.		C.			997
S2.1	.		C.			971
S2.2	.		C.			971
	1,000	1,020	1,040	1,060	1,080	1,100
MutsuDr2	TTTTAAACAAGTGTGAATGCTGGATGGAAGGAG- AGGAAGGAGGA- - GGAGAAGATCAGGACCGGCAGGTGCATGAAGAAAACAACAAAAGGGAAGAAGATAATGAAGC					1104
2.1	.		-			745
2.2	.		T.			1102
2.3	.	A.TC.	C.A.	A.TCA		1067
2.4	.					1101
2.5	.					1104
2.6	.	G.				745
2.7	.					1101
2.8	.					1101
2.9	.					1099
2.10	.		G.			1104
2.11	.		G.			1104
S2.1	.		G.			1078
S2.2	.		G.			1078
	1,120	1,140	1,160	1,180	1,200	1,220
MutsuDr2	AATAGAAAGGACAATGGAGGAGGAATGAATAACATGAAAAAAAGGAAGGAGAACGAAAATGAAGAGAATGAAGTACAGTTATCAGGACAAGATGGACAGTGGTCACA					1215
2.1	.					856
2.2	.				G.	1213
2.3	.		A.		G.	1178
2.4	.				A.	1212
2.5	.					1215
2.6	.				G.	856
2.7	.			A.	G.	1212
2.8	.			A.	G.	1212
2.9	.			A.	G.	1210
2.10	.	G.				1215
2.11	.				G.	1215
S2.1	.		A.		G.	1189
S2.2	.		A.		G.	1189
	1,240	1,260	1,280	1,300	1,320	
MutsuDr2	AATGGAAATATCAGACAGTTAAAACCTTTTAAGCACGGTGGAAAAAGGAGAACATAAGAAAGACTGGTCAAGCTGAAGGAATGGCAAATGATGAAGAAACAAGGATGGA					1326
2.1	.					967
2.2	.	G.				1324
2.3	.	G.				1289
2.4	.	G.			T.	1323
2.5	.	G.	A.			1326
2.6	.	G.		T.		967
2.7	.	G.				1323
2.8	.	G.			T.	1323
2.9	.	G.	A.			1321
2.10	.	G.		A.		1326
2.11	.	G.				1326
S2.1	.	G.	T.			1300
S2.2	.	G.	T.			1300

Supplemental Figure S9

	1,340	1,360	1,380	1,400	1,420	1,440	
MutsuDr2	AAATGTGGATAAGAACAAAGTGAAAGAGGATTTAAGAAGAAGACTTTAAGTAAACCAACTTGGACATGGCAAAGAAAAAGTTAACAAAGAACAGAGCTAA	1437					
2.1	.						1078
2.2	.						1435
2.3	.						1400
2.4	.						1434
2.5	.						1437
2.6	.				G.		1078
2.7	.						1434
2.8	.						1434
2.9	T.						1427
2.10	.						1437
2.11	.						1437
S2.1	.						1411
S2.2	.						1411
	1,460	1,480	1,500	1,520	1,540		
MutsuDr2	ATATGTAATAGGTATGAAGTGTAAAGGGACTGGAAGAAGATGAAGAAAATGATGTTTAAATATTTATCTATTAAAATGCTTTAATCTTGTCCTTTAAC	1548					
2.1	.						1189
2.2	.						1546
2.3	.						1511
2.4	.						1545
2.5	.	A.				C.	
2.6	.						1189
2.7	.						1545
2.8	.			T.			1545
2.9	.						1538
2.10	.						1548
2.11	.						1548
S2.1	.						1522
S2.2	.						1522
	1,560	1,580	1,600	1,620	1,640	1,660	
MutsuDr2	GGAGGAGTTGGTTGAGAGCGTTGGAAGGAGATGAAGGACAATGAGGATGTAGGTTTAATTTCATTTTATTAAATGGTTAAACTGTGTCTTTA	1659					
2.1	.						1300
2.2	A.						1657
2.3	A.	T.		A.			1622
2.4	.						1656
2.5	A.		GA.				1659
2.6	A.						1300
2.7	.						1656
2.8	.						1656
2.9	.	T.		G.			1649
2.10	.						1659
2.11	.						1659
S2.1	.		A.				1633
S2.2	.						1633
	1,680	1,700	1,720	1,740	1,760		
MutsuDr2	ATGCAAGGGGACTGATGGGAAAGATAAATTGAGAAAATAAGAGAGAAATGTAACAAAGGAAGTGTAGGTTACAGGAAACAAACTGGAAAGAACATGCAATGAATG	1770					
2.1	.						1411
2.2	.		C.			G.	1768
2.3	.		C.			G.	1733
2.4	.		C.			G.	1767
2.5	.		C.			G.C.	1770
2.6	.		C.			G.C.	1411
2.7	.		C.			G.	1767
2.8	.		C.			G.	1767
2.9	T.		C.	C.		G.C.	1760
2.10	.						1770
2.11	.						1770
S2.1	.						1744
S2.2	.						1744

Supplemental Figure S9

	1,780	1,800	1,820	1,840	1,860	1,880	
MutsuDr2	ATTTAAAAAGTTGGCAAGGGGATATAATATAATAATGGTATGGAAATCTGGAAGAGGTGTTGCTTTAATAAGGAAAGATGTTAACCTTAAAAGAATTG	1881					
2.1	.						1522
2.2	.	T.					1879
2.3	.	T.T					1844
2.4	.	T.					1878
2.5	.	T.					1881
2.6	A.	T.	A.				1522
2.7	.	T.					1878
2.8	.	T.					1878
2.9	.	T.					1871
2.10	.						1881
2.11	.						1881
S2.1	.						1855
S2.2	.						1855
	1,900	1,920	1,940	1,960	1,980		
MutsuDr2	TGTATAGGGATAATTATGGAAAATGTTAGTAATAGAGGTGAACATGAAGGCATGAATTAATAAGCAAATATACATGCACCAACAGAAGATAAGACAAAAAGAAT	1992					
2.1	.						1633
2.2	.						1990
2.3	.			T.			1955
2.4	.						1989
2.5	.						1992
2.6	.						1633
2.7	.						1989
2.8	.						1989
2.9	A.						1982
2.10	.						1992
2.11	.						1992
S2.1	.						1966
S2.2	.						1966
	2,000	2,020	2,040	2,060	2,080	2,100	
MutsuDr2	ATTTGAGGTTAAATAAAGTATTAAAGGTTAAAGAAATAATAATGATGGAGATTTAATACTGTTTAGAAAACAAGATATGGCTGATGGAATGGTTAAAT	2103					
2.1	.						1744
2.2	.	A.					2101
2.3	.						2066
2.4	.					C.	2100
2.5	T.						2103
2.6	T.						1744
2.7	.				C.		2100
2.8	.				C.		2100
2.9	T.					A.	2093
2.10	.						2103
2.11	.						2103
S2.1	.						2077
S2.2	.						2077
	2,120	2,140	2,160	2,180	2,200	2,220	
MutsuDr2	CGGATAGGAAGAAGCAACTAAAGTGTAAATAAGAAAATGTTAATAGATATGGAGGGAAAGGAATAGAGAAAAAGAGAGTTCAAGGAGACAAATAGTGG	2214					
2.1	.						1855
2.2	.	G.					2212
2.3	.	G.					2177
2.4	.	G.					2211
2.5	A.	G.	G.		T.		2214
2.6	.	G.	G.				1855
2.7	.	G.		A.			2211
2.8	.	G.		A.			2211
2.9	G.	A	G.				2204
2.10	.		G.				2214
2.11	.						2214
S2.1	.						2188
S2.2	.						2188

Supplemental Figure S9

	2,240	2,260	2,280	2,300	2,320	
MutsuDr2	GGAATTTATATGTC AAACGAGAATAGATTTATTTATGTACTAGAAATTGAAAATTTATGAAACATACAGTATGAAGAGAACAGTTAGTGATCATAAGCTCT					2325
2.1	.	.	.	.	.	1966
2.2	.	.	.	.	.	2323
2.3	.	.	.	.	.	2288
2.4	.	.	.	.	.	2322
2.5	.	.	.	.	.	2325
2.6	.	T	.	.	.	1966
2.7	.	.	.	.	.	2322
2.8	.	.	.	.	.	2322
2.9	.	.	.	A	.	2315
2.10	.	.	.	.	.	2325
2.11	.	.	.	.	.	2325
S2.1	.	.	.	.	.	2299
S2.2	.	.	.	.	.	2299
	2,340	2,360	2,380	2,400	2,420	2,440
MutsuDr2	TGC ATTTAAAGTGAATATAGAAAACATACAAAAGGCCAGGGACTTGGATTTAACACAACCATTAAAAATCAAGATTATGTTCAAAAAGTCAAAGAAATAATAG					2436
2.1	.	.	.	.	.	2077
2.2	.	A	.	.	.	2434
2.3	.	.	.	.	.	2399
2.4	.	.	.	.	.	2433
2.5	.	.	.	T	.	2436
2.6	G	T	A	.	G	2072
2.7	.	.	.	.	G	2433
2.8	.	.	.	.	G	2433
2.9	.	.	.	.	G	2426
2.10	.	.	.	.	G	2436
2.11	.	.	.	.	G	2436
S2.1	.	.	.	.	.	2410
S2.2	.	.	.	.	.	2410
	2,460	2,480	2,500	2,520	2,540	
MutsuDr2	AGAATGAAAAGAAAATAGAATGTATGATGAAGATAAAGGATATGGTGGAAACACAAAATATCAAATCAGGAAATACACAATCAAATATTGCGCAGTACTACAAAGAT					2547
2.1	.	.	.	.	.	2188
2.2	.	.	.	A	A	2545
2.3	.	.	.	A	A	2510
2.4	A	.	.	A	A	2544
2.5	A	.	.	A	A	2547
2.6	.	C	.	A	A	2183
2.7	A	.	.	A	A	2544
2.8	A	.	.	A	A	2544
2.9	A	.	.	A	AT	2537
2.10	.	.	.	.	T	2547
2.11	.	.	.	.	T	2547
S2.1	.	.	.	.	.	2521
S2.2	.	.	.	.	.	2521
	2,560	2,580	2,600	2,620	2,640	2,660
MutsuDr2	GTAAAAAGTATACAGAAAAGAGTTAAAGATCCTTAGAAAAAGATTAAACAAGGAAAATAAGATATTGAAAAAATCAAAGAAATAGAGCAAAATTACGAGATTAG					2658
2.1	.	.	.	.	.	2299
2.2	.	.	A	.	C	2656
2.3	.	.	.	.	.	2621
2.4	C	.	.	.	.	2655
2.5	A	.	A	.	C	2658
2.6	.	.	.	.	.	2294
2.7	C	.	.	.	.	2655
2.8	C	.	A	.	.	2655
2.9	.	.	.	.	A	2648
2.10	.	.	.	.	.	2658
2.11	.	.	.	.	.	2658
S2.1	.	.	.	.	.	2632
S2.2	.	.	.	.	.	2632

Supplemental Figure S9

	2,680	2,700	2,720	2,740	2,760	
MutsuDr2	AAGAAGACAAATAAGGGGCAATGTTGAGGAGCAGATCTAACACAGTAGAAGGGAAAATGCACGAAATTCTTTTGATTTAGAGAAGCAAAGAGGTAAAGCAG	2769				
2.1	.					2410
2.2	.					2767
2.3	.					2732
2.4	.			A.		2766
2.5	.			A.		2769
2.6	.				C.	2405
2.7				A.		2766
2.8				A.		2766
2.9	A.			T.		2759
2.10	.					2769
2.11	.					2769
S2.1	.					2743
S2.2	.					2743
	2,780	2,800	2,820	2,840	2,860	2,880
MutsuDr2	GAATACTAAAGGAAATTAAAGGGAGGAATGGAAAATTGCGAAAGGAAACATAGAAATACTAGAAGAAATCAAGCATTTTATGAAGATCTATTTAAGCAAAGGTATTG	2880				
2.1	.					2521
2.2	A.				T.	2878
2.3	.	A.				2843
2.4	.		G.			A 2877
2.5	.	A.			A.	2880
2.6	.	A.		A.	T.	2514
2.7	.		G.		T.	A 2877
2.8	.		G.		T.	A 2877
2.9	A.	A.	A.	G.	T.	2870
2.10	.					2880
2.11	.					2880
S2.1	.					2854
S2.2	.					2854
	2,900	2,920	2,940	2,960	2,980	
MutsuDr2	ATGAAGAAAAAGAAGGAAAGATTCTAAATTATATAAAAGTAAACTAGAAAAACATGACAACAAAGAATGTGACAGAGAAATAGAAGAAGAGATTGAAATTGCAATAA	2991				
2.1	.					2632
2.2	.	A.		G.		2989
2.3	.			G.		2954
2.4	C.			G.	T.	2988
2.5	.			G.	C.	2991
2.6	.	A.	T.	G.	C.	2625
2.7	C.			G.	T.	2988
2.8	C.			G.	T.	2988
2.9	.			G.		2981
2.10	.			G.		2991
2.11	.			G.		2991
S2.1	.			G.		2965
S2.2	.			G.		2965
	3,000	3,020	3,040	3,060	3,080	3,100
MutsuDr2	ATCAACTAAATAAAAGAAAAGTCCAGGTATAGTGGAAATAGGAATTTATATTGTTTAAAGATATTTAAAGGAATACTTAAAGAAGTTTTAAAGACATT	3102				
2.1	.					2743
2.2	A.					A. 3100
2.3	.			G.		A. 3065
2.4	.					A. 3099
2.5	A.					A. C. 3102
2.6	.					A. 2736
2.7	.					A. 3099
2.8	.					A. 3099
2.9	.					A. 3092
2.10	.					3102
2.11	.					3102
S2.1	.					3076
S2.2	.					3076

Supplemental Figure S9

	3,120	3,140	3,160	3,180	3,200	
MutsuDr2	TTAATGTAAAGAGATGAATGAAAGAATGGGGATGGGATTAATGAAGTTAATATAAAAAGAAAAGGAGCAAAACTGAATTACAAAATTATAGACCAATAACAATGTTGA					3213
2.1	.	.	.	.	.	2854
2.2	.	.	.	.	A.	3211
2.3	.	.	.	.	.	3176
2.4	.	.	.	.	.	3210
2.5	.	.	.	.	.	3213
2.6	G.	.	.	T.	.	2843
2.7	.	.	.	.	.	3210
2.8	.	.	.	.	.	3210
2.9	.	A.	.	.	T.	3203
2.10	.	.	.	.	.	3213
2.11	.	.	.	.	.	3213
S2.1	.	.	.	.	.	3187
S2.2	.	.	.	.	.	3187
	3,220	3,240	3,260	3,280	3,300	3,320
MutsuDr2	ATACAGATTTAAAGATTTAGCAAAGTTAGCGAATAGATTAAGGAAGTAATGTCTAAATTAAATCAAACCAAGCATATGCAATAAAAGGGAGAGATATAGCAG					3324
2.1	.	.	.	.	.	2965
2.2	.	.	C.	.	.	3322
2.3	.	G.	C.	T.	.	3287
2.4	.	G.	C.	T.	.	3321
2.5	.	.	C.	.	.	3324
2.6	.	T.	CA.	.	.	2954
2.7	.	G.	C.	T.	.	3321
2.8	.	G.	C.	T.	.	3321
2.9	.	G.	C.	T.	.	3314
2.10	.	.	C.	.	.	3324
2.11	.	.	C.	.	.	3324
S2.1	.	.	C.	.	.	3298
S2.2	.	.	C.	.	.	3298
	3,340	3,360	3,380	3,400	3,420	3,440
MutsuDr2	ATGTAACAATGAGTATTAAAGCACAATAGATTATTGCAAGAAAAGAAGATGAATGGTTTTAATTAGTAGATTGAAAGGCTTTGACAGAGTAGAACATACTT					3435
2.1	.	.	.	.	.	3076
2.2	.	A.	.	.	C.	3433
2.3	.	A.	.	.	.	3386
2.4	.	A.	.	.	.	3432
2.5	.	A.	.	C.	.	3435
2.6	C.	A.A.	C.	T.	.	3065
2.7	.	A.	.	.	.	3432
2.8	.	A.	.	.	.	3432
2.9	.	A.	.	G.	C.	3425
2.10	.	.	.	.	.	3435
2.11	.	.	.	.	A.	3435
S2.1	.	.	.	.	A.	3409
S2.2	.	.	.	.	A.	3409
	3,460	3,480	3,500	3,520	3,540	
MutsuDr2	ATTTATTTGATGACTCAAAACATTGGATTTGGAGAGAATTTTATTAAATTGGATTAATATAAGGGGCTTTACAAAAGTAAATGTAATGGTTTTAACAG					3546
2.1	.	.	.	T.	.	3187
2.2	C.	.	.	.	.	3544
2.3	.	.	.	.	.	3497
2.4	C.	.	.	.	.	3543
2.5	C.	.	.	.	.	3546
2.6	C.	.	C.	A.	TA.	3176
2.7	C.	.	.	.	.	3543
2.8	C.	.	.	.	.	3543
2.9	C.	.	.	A.	.	3536
2.10	.	.	.	.	.	3546
2.11	.	.	.	.	.	3546
S2.1	.	.	.	.	.	3520
S2.2	.	.	.	.	.	3520

Supplemental Figure S9

	3,560	3,580	3,600	3,620	3,640	3,660	
MutsuDr2	ATTTGTTTAAATTACAAGATCAATTAGACAAGGATGTCCTTTCA GACTATTATATTCCCTAATCGCAGAACCATAGGGTTAGCAATAAAACAAGAAACTAAAATTA						3657
2.1	.	.	.	T	.	.	3298
2.2	A	.	G	.	T	.	3655
2.3	.	G	.	T	T	.	3608
2.4	.	.	C	G	T	A	3654
2.5	.	G	.	C	G	T	3657
2.6	.	.	.	.	G	.	3287
2.7	.	.	T	.	T	A	3654
2.8	.	.	T	.	T	A	3654
2.9	.	G	.	G	T	.	3647
2.10	.	.	.	.	.	.	3657
2.11	.	.	.	.	.	.	3657
S2.1	.	.	.	.	.	.	3631
S2.2	.	.	.	.	.	.	3631
	3,680	3,700	3,720	3,740	3,760		
MutsuDr2	AAGGAATAAAAATAGAAGAAGAGGAGGATGAAGGAAAAATACCA GTATGCTGATACAACAATAATAGTGAGGAGAAAAGAGTGTAAGAACGCATGAAAAAG						3768
2.1	.	.	.	.	.	.	3409
2.2	.	.	.	.	.	.	3766
2.3	.	.	.	.	.	.	3719
2.4	.	.	.	.	.	.	3765
2.5	.	.	.	.	.	.	3768
2.6	.	.	.	A	.	.	3395
2.7	.	.	.	.	.	.	3765
2.8	.	.	A	.	.	.	3765
2.9	.	.	.	.	.	.	3755
2.10	.	.	.	.	.	.	3768
2.11	.	.	.	.	.	.	3768
S2.1	.	.	.	.	.	.	3742
S2.2	.	.	.	.	.	.	3742
	3,780	3,800	3,820	3,840	3,860	3,880	
MutsuDr2	TACAGGAGTTTGTAAGGAAACAGGAAGCAAAATAATGAAAATAACACAATATGAGGTTGGTAAGCAGATA- TTTAACAGATTGTTCCAATTAGAGAAAGTA						3878
2.1	.	.	.	.	.	.	3519
2.2	.	.	.	.	.	.	3876
2.3	.	T	.	.	.	.	3829
2.4	.	T	T	.	.	.	3875
2.5	.	.	.	G	.	.	3878
2.6	A	.	.	A	G	A	3506
2.7	.	T	T	.	G	.	3875
2.8	.	T	T	.	G	.	3875
2.9	A	.	.	.	.	G	3865
2.10	.	.	.	.	.	T	3878
2.11	.	.	.	.	.	T	3878
S2.1	.	.	.	.	.	.	3852
S2.2	.	.	.	.	.	.	3852
	3,900	3,920	3,940	3,960	3,980		
MutsuDr2	GAAGAACTGAAAATTTAGGAATTAAATTGGTAAAAATGAAAGAAAAGCAACAGAAAAGATGTGGGATGATCTAATAAGAGGAATAAGATCAA TTCTGGAGG						3989
2.1	.	.	.	.	.	.	3630
2.2	.	.	.	.	.	.	3987
2.3	.	G	.	.	.	T	3940
2.4	.	.	.	.	.	T	3986
2.5	.	G	.	.	.	T	3989
2.6	.	.	.	.	C	T	3617
2.7	.	.	.	.	.	T	3986
2.8	.	.	.	.	.	T	3986
2.9	.	.	.	.	.	T	3976
2.10	G	.	.	.	.	.	3989
2.11	G	.	.	.	.	.	3989
S2.1	.	.	.	.	.	.	3963
S2.2	.	.	.	.	.	.	3963

Supplemental Figure S9

	4,000	4,020	4,040	4,060	4,080	4,100	
MutsuDr2	ATGAGAGAACTTGCTTAAGGGAAAGCCTAATATTAATGTTTAAATGACATCAAAGCTATGGTATAAATTATGTAACAGAAATGCCATGTTGGATAGAACGAGA						4100
2.1	.	.	.	A	.	.	3741
2.2	.	.	T	.	.	.	4098
2.3	.	.	T	.	.	G.	4051
2.4	.	.	T	.	.	T.	4097
2.5	.	T	.	.	.	G.	4100
2.6	.	T	.	.	.	G.	3728
2.7	.	.	T	.	.	T.	4097
2.8	.	.	T	.	C.C.	T.	4097
2.9	G.	4087
2.10	.	.	T	.	.	.	4100
2.11	.	.	T	.	.	.	4100
S2.1	4074
S2.2	4074
	4,120	4,140	4,160	4,180	4,200		
MutsuDr2	TTGAAAAAGTGTGTTCAAGATTTTT- ATGGGAGGGAAACCCCCAAGAATTGCGTACAATACAATAATAGGAGCAACAGAAGAAGGAGGGATAGGATTGATGGATTTAA						4210
2.1	T.	3836
2.2	4208
2.3	4161
2.4	4207
2.5	4210
2.6	.	T	.	.	.	.	4207
2.7	4207
2.8	4197
2.9	A.	.	.	C	.	.	4210
2.10	4210
2.11	.	.	.	C	.	.	4184
S2.1	4184
S2.2	4184
	4,220	4,240	4,260	4,280	4,300	4,320	
MutsuDr2	ACAAAGGAAGATTGCTTAGAGTGAAGATAGTTAAAAGCTTTACAAGAGGAAACTCAACAGAAATGGAAAAGGTTATGAAATTTAAACAAAGTTGGCAATT						4321
2.1	C	.	3962
2.2	.	.	A	.	.	.	4319
2.3	.	C	.	.	.	.	4272
2.4	.	.	A	.	C	.	4318
2.5	.	C	.	.	.	.	4321
2.6	A.	C	.	.	C	.	3947
2.7	.	.	A	.	C	.	4318
2.8	.	.	A	.	C	.	4318
2.9	C	.	4264
2.10	4321
2.11	4321
S2.1	4295
S2.2	4295
	4,340	4,360	4,380	4,400	4,420	4,440	
MutsuDr2	TAACCTAGGAGAACATTCTTGGTAAAAACTAAAACTGGATGACGGAAAGTTACCAGGGTTTATCAAGAAATTAAAGTGCATGGGGAAATTTTAGACGGAGT						4432
2.1	.	.	A	.	.	.	4073
2.2	.	.	A	.	.	.	4430
2.3	.	A	.	.	.	.	4383
2.4	.	A	.	.	.	.	4429
2.5	.	.	A	.	.	.	4432
2.6	.	A	.	.	.	.	4058
2.7	.	A	.	.	.	.	4429
2.8	.	A	.	.	.	.	4429
2.9	4375
2.10	4432
2.11	4432
S2.1	.	.	A	.	.	.	4406
S2.2	.	.	A	.	.	.	4406

Supplemental Figure S9

MutsuDr2 ATTTTACCAAGTAAAGGGAGAGAGAAACTTTAAATCACCTTGTAAATAAAAAGTATTTAAAAGAAGGGAGGAACATTAAAAATGGATGGATGTGGG 4543
 2.1 G A A 4184
 2.2 G T A 4541
 2.3 G T A 4494
 2.4 G T A 4540
 2.5 G T A 4543
 2.6 GC T C 4169
 2.7 G T A 4540
 2.8 G T A 4540
 2.9 G G 4485
 2.10 T 4543
 2.11 G 4543
 S2.1 4517
 S2.2 4517

MutsuDr2 GATTTAAGAATAAGGGATGTTCTTATGAATTCAAAAGGGATTTAACTAACGAAATATATAGTAGCTTAATGGAAGAAGCTAAAGAGGAATACAGTGAAAGGAAT 4654
 2.1 C C C 4295
 2.2 G 4652
 2.3 C C 4605
 2.4 G 4574
 2.5 C 4654
 2.6 C 4280
 2.7 G 4651
 2.8 G 4651
 2.9 C 4596
 2.10 C 4654
 2.11 C 4654
 S2.1 A 4628
 S2.2 C 4628

MutsuDr2 AGAAAATAAACTTGAAACGGTCAAAGGTGCCATACCAAAAAGAATGGATTACAAGAATAGAAAATGGAAGAATGTGGGAATGAAAAGTCATACATGTCTATTTAAAAGG 4765
 2.1 G A A 4406
 2.2 G A 4763
 2.3 G A 4716
 2.4 C A 4574
 2.5 G A 4765
 2.6 A G 4391
 2.7 A G 4762
 2.8 C G 4762
 2.9 C A 4707
 2.10 C G 4765
 2.11 C 4765
 S2.1 G 4739
 S2.2 C 4739

MutsuDr2 AAAGCTTTGTAATTTAAAGATTGTTACTGAAAGACTTTATGTTATTTAGAGAT--AG--TGTATTTCAAGAACCAATAGCAAATAACTTTGGGTACAAAGATTG 4871
 2.1 G G T 4512
 2.2 A G 4869
 2.3 A G 4822
 2.4 G G 4574
 2.5 G G 4871
 2.6 A G T 4497
 2.7 A G 4868
 2.8 A TT . AGA 4868
 2.9 G G 4818
 2.10 G 4871
 2.11 G 4871
 S2.1 G 4845
 S2.2 G 4845

Supplemental Figure S9

	4,900	4,920	4,940	4,960	4,980	
MutsuDr2	AATAGTGTAAAAAGGAAAATATGGAAAACATGAGAGGAAAATAATAGAAACAAGATTGGAATGTTTGAATTTATAAGACACAAGGCAATTTACTGAGTGC	4982				
2.1	.					4623
2.2	.	G				4980
2.3	.	T	G			4933
2.4	.					4574
2.5	.					4982
2.6	A		G			4608
2.7	A		G			4979
2.8	A		G			4979
2.9		T	G			4929
2.10						4982
2.11						4982
S2.1						4956
S2.2						4956
	5,000	5,020	5,040	5,060	5,080	5,100
MutsuDr2	ATTTAACAAAGATAACATATAGAACAAATGCAACATGTAAGGTTGTTCAAGAAGATGAAGGAATTTACACCTGTTTATACTGTAAGAATTAGAATGTTTAC	5093				
2.1	.					4734
2.2	.	G.G.	C	A		5091
2.3	.	G.G.	C	A		5044
2.4	.					4574
2.5	.					5093
2.6	T	G.G.	C	A		4719
2.7		G.G.	C			5090
2.8		G.G.	C			5090
2.9		G.G.			T	5040
2.10						5093
2.11						5093
S2.1						5067
S2.2						5067
	5,120	5,140	5,160	5,180	5,200	
MutsuDr2	AAGAAATGCCAAAAAATGCTAAAGATTATTGAAAGATTGGATGAAGAACAAATTGGAATGAAACTCTGGTATGTTGGATGGAATATGCAAACAAAAACAAAAG	5204				
2.1	.					4845
2.2	T			A	G	5202
2.3					G	5155
2.4						4574
2.5	T			T	G	5204
2.6	T		A	T	G	4830
2.7	T		C	T	G	5201
2.8	T		A	T	G	5201
2.9	T		C			5151
2.10						5204
2.11						5204
S2.1						5178
S2.2						5178
	5,220	5,240	5,260	5,280	5,300	5,320
MutsuDr2	TTTGAAATCTCTTATAATGATGATTTAAAAATGTGTGGAAAGAAGAAATGTAGCAAAACAGGAAAAAGTTGTTAAATGTTGAAATGTACTAAACGAAAAATG	5315				
2.1	.					4956
2.2	.			T	G	5313
2.3	.			A	G	5266
2.4	.					4574
2.5	C				AG	5315
2.6		A			G.A.	4941
2.7		A			G.A.	5312
2.8					G.A.	5312
2.9				A	G.	5262
2.10				A	G.	5315
2.11					G.	5315
S2.1					G.	5289
S2.2					G.	5289

Supplemental Figure S9

MutsuDr2 GAAAGATACATAGAAAGACTGTA
CTTTAAAGGAGAAGATATGTTACCAAGCTT
TATGATGTGTTAATGATGAAGTGATAATGTT
AAATGGTTAAAGTGG 5426

2.1 5,340
2.2 T G C 5,360
2.3 G 5,380
2.4 A G G C 5,400
2.5 A T G C 5,420
2.6 A T G C 5,426
2.7 A T G T A 5,424
2.8 A T G T A 5,377
2.9 G 5,423
2.10 5,423
2.11 5,426
S2.1 5,426
S2.2 5,426
5,440 5,460 5,480 5,500 5,520 5,540
MutsuDr2 AAAATGCCAAAGAGGATGTTATGTTATGAA
AGAATGTTATTAAATGTAATTGTTTGTGAA
ATTCTTGAAGTATTTAAATGTTAATGTAATGTGAT
TAATTTAATA 5537

2.1 5,440
2.2 T GT T 5,460
2.3 T T T T 5,480
2.4 T CT T T 5,500
2.5 T C T T 5,520
2.6 T T GT A G 5,540
2.7 T T T G G
2.8 T GT -G G G
2.9 T T GT -G G
2.10 5,540
2.11 5,540
S2.1 5,540
S2.2 5,540
5,560 5,580
MutsuDr2 AAAAATAAAAAAAA- 5551

2.1 5,560
2.2 A AAAA- 5192
2.3 A AAAAAAAA 5553
2.4 A AAAAAAAA 5514
2.5 A AAA- 4574
2.6 CA- 5554
2.7 A GAAAAAAAAAAAAAAAAAAAAAAAA 5578
2.8 A GAAAAAAAAAAAAAAAAAAAAAAA 5578
2.9 A AAAAAA- 5499
2.10 A AAAA- 5555
2.11 A AAAAAA- 5557
S2.1 5478
S2.2 5478

Supplemental Figure S9

MutsuDr3 - - - - -
 3.1 - - - - -
 3.2 - - - - -
 3.3 - - - - -
 3.4 - - - - -
 3.5 - - - - -
 S3.1 AGCAGTCTAGAGGGAGCTAGAGTGCAACAAGGAAGTGA
 20 | 40 | 60 | 80 | 100 |
 120 | 140 | 160 | 180 | 200 | 220 |
 MutsuDr3 - - - - -
 3.1 - - - - -
 3.2 - - - - -
 3.3 - - - - -
 3.4 - - - - -
 3.5 - - - - -
 S3.1 GACTAATATA
 240 | 260 | 280 | 300 | 320 |
 MutsuDr3 AGGCTCTCCATT
 340 | 360 | 380 | 400 | 420 | 440 |
 3.1 - - - - -
 3.2 - - - - -
 3.3 . . . T . . . T . . . TT . . . TTTTTT . . . G.CTTTT.A.CAC.T.ACAG
 3.4 . . . T . . . T . . . T . . . T
 3.5 . . . T . . . T . . . T . . . T
 S3.1 TT . . A.GG . GCAAACAAAG . ACGG . . T . TGGC . AACGACCTGGAC . G.ATGC . . A . ACACGAAAGGA . C.GAAACAAG - - - - -
 460 | 480 | 500 | 520 | 540 |
 MutsuDr3 ACGTGTGCTGGCTGGAAAGGTGGTAGCACAGATT
 560 | 580 | 600 | 620 | 640 | 660 |
 3.1 - - - - -
 3.2 - - - - -
 3.3 CA.CAC.TGT . . . CT . AA.G.G.TTAGC.CAG
 3.4 . . . T . . . T . . . T
 3.5 . . . T . . . T . . . T
 S3.1 GTTAAA.AC
 460 | 480 | 500 | 520 | 540 |
 MutsuDr3 ACAGGAAGGAGTGGAGAAAGACAAAAAGAAA
 560 | 580 | 600 | 620 | 640 | 660 |
 3.1 - - - - -
 3.2 - - - - -
 3.3 - - - - -
 3.4 - - - - -
 3.5 - - - - -
 S3.1 .T .CT.GCA . . . G . . . G . . . CAC . C . A . A . . . G . A . T . . . AC . . . A.TGA . . . C . . . C.CC . . . T . . . G
 680 | 700 | 720 | 740 | 760 |
 MutsuDr3 CGACAAGAAA
 680 | 700 | 720 | 740 | 760 |
 3.1 - - - - -
 3.2 - - - - -
 3.3 - - - - -
 3.4 - - - - -
 3.5 - - - - -
 S3.1 .A.TGG.G . . . A . . . GA . . . GG.G . . . GG . . . AG . . . A . . . A . . . T . . . C . . . G . . . T . . . A.A . . .
 980 | 1000 | 1020 | 1040 | 1060 |
 MutsuDr3 TTGGAAATAATT
 980 | 1000 | 1020 | 1040 | 1060 |
 3.1 - - - - -
 3.2 - - - - -
 3.3 - - - - -
 3.4 - - - - -
 3.5 - - - - -
 S3.1 .C .T . . . A . . . A . . . A . . . A . . . A . . . A . . . A . . . A . . . A . . . C . . . G . . . C . . . A . . . G . . . T
 1080 | 1100 | 1120 | 1140 | 1160 |

Supplemental Figure S9

MutsuDr3 GATAAACTGATGGATGGACTAATAATAAAAAGGAGAACCTGTGAAGTGAAATGCTACAAAATAGAGACTACGTGGTTCTTCATGCATTGCCGCTTACCTGGATGAT 711
 3.1
 3.2
 3.3
 3.4
 3.5
 S3.1AC.....A..T.....A.....T.....GTT.....T..T.....A.....879
 780 800 820 840 860 880
 900 920 940 960 980

MutsuDr3 CAATTAATTTAGATAAATTAGAAGGCTGGGAGTATTCCTCATAACAAAAATTAAAGAAGGGTATCCGGGCACAGAAATAGAAGATGGAACCTCGATATCTCAAAGTG 822
 3.1
 3.2
 3.3
 3.4
 3.5
 S3.1 ...A.T..T...C...G.....T..C..A..T..G..TT.....C..T.....T..G..T..G.....C..A.AC.T.A.T...CA 990
 1,000 1,020 1,040 1,060 1,080 1,100
 1,120 1,140 1,160 1,180 1,200 1,220

MutsuDr3 AGATCCCCAGAGAAGTGTATCTCTCCCTACAGCACAAAGACTGGAAACGGCAGAAGGTCAAGCAATATTTAGGGTGTGACAGCCACCAGGTTAAGACTTGTAGGCTG 933
 3.1
 3.2 ...G..T..A..AG...T..C...A..T..G..AG...A..GAT..G.....AT.....A..G..C.....933
 3.3
 3.4
 3.5
 S3.1 ...G..T..A..AG...T..C...A..T..G..AG...A..GAT..G.....AT.....A..G..C.....1101
 1,240 1,260 1,280 1,300 1,320
 1,340 1,360 1,380 1,400 1,420 1,440

MutsuDr3 TGCATGAGCCCTGACCATATGGTCAAAGATTGCCAGACTTTAAATGCCATAATGTGAGGAAAGGGGACATTTGCCAGAGACTGCGATGCTATTAAGTGCCCCGACTGC 1044
 3.1
 3.2A.....C...C..T.....TT..C..G.....G..A.....AGA.....CA..CG..A.....T.....1044
 3.3
 3.4
 3.5
 S3.1A.....C...C..T.....TT..C..G.....G..A.....AGA.....CA..CG..A.....T.....1212
 1,460 1,480 1,500 1,520 1,540
 1,480 1,500 1,520 1,540

MutsuDr3 CAGAACTATTTAAGTAAGTGTGAATGTTGGATGGAGGAAGAGGGAGGAGGA--T-GAGATCCAGGTGAGTGGCAAATGCATGAAGGAAACAGTGAAGGAAAGTAAT 1152
 3.1
 3.2 ...TA..A..A..T..A.....C.....GG..T..A.....C.....G..G..T.....339
 3.3
 3.4
 3.5
 S3.1 ...TA..A..A..T..A.....C.....A.....GG..T..A.....C.....G..G..T.....1323
 1,340 1,360 1,380 1,400 1,420 1,440

MutsuDr3 GAAGAGGAACAAACAACGACACAAACAATACAAACTACAACAGAGGAAATAACATTGAAGGAGGAGAATGCAAAAAAGAAAAGGAAACAGAAACAGACAGTCAA 1263
 3.1
 3.2 ...GA..A.....AG..T..GT..CA.....C.....T.....G..C..GG.....G..G..T.....441
 3.3
 3.4
 3.5
 S3.1 ...TA..A.....AG..TG..GT..CA.....C.....T.....G..C..GG.....G..G..T.....1425
 1,460 1,480 1,500 1,520 1,540

MutsuDr3 CAAATAGAGCATGAAGAGGAGGAGTAGCATGGACACCAATGGACATAACTCTAGCTTCAAAAAGTTGGATGTAATTGAAAAAGAGGATCTTAAAGAACAAAGCAAGGGA 1374
 3.1
 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
 3.4
 3.5
 S3.1 ...C.....G.....CT..T.....C.....C..AC..C..T..T..G..A.....C..CA.....T..A..T..T..A.....CT..A..A.....1536
 1,480 1,500 1,520 1,540

Supplemental Figure S9

	1,560	1,580	1,600	1,620	1,640	1,660	
MutsuDr3	ACAGACAGAGAGACTGGAAAACATGAGGGAGAAGTAGAAAAAGACAACATTGAGAAAAGACAACAGACGATCGGCAAAGTTTATCAAAATTAGAAACTGCAAGAAAA	1485					
3.1	.	A.	A.	G.	A.	C.G.	1485
3.2	..	A.	A.	AG.	A.T.	CT.	663
3.3	..	G.	.	.	T.	CG.	1495
3.4	..	G.	.	.	A.	T.	1481
3.5	..	G.	.	G.	G.	A.G.	1480
S3.1	.....	A.	A.	AG.	A.T.	ACT.	1647
	1,680	1,700	1,720	1,740	1,760		
MutsuDr3	AAGGGTTGAAAAAGGACAACGTAAAAGGCCACAACAGATATGATTCTTGAGAGGTTGGGAGAAGAGGGACTAAGATGACGGTTTATTCCTTTCTTCTTT	1596					
3.1	.	.	.	.	.	.	1596
3.2	..	A.T.	T.	TC.T.	G.T.	GA.CC.A.	774
3.3	..	.	.	.	.	.	1606
3.4	..	.	.	.	.	.	1592
3.5	..	.	.	.	.	.	1591
S3.1	..	A.T.	T.	T.	TC.T.	G.T.	GA.CC.A.
	1,780	1,800	1,820	1,840	1,860	1,880	
MutsuDr3	AATGTTTAAATTGCGTGTCTTTAATGCAAGAGGTTAATGGACTTAAGAAATTAGAATGTAAGGAAAATGTAAAGAGAAATAATTATTTACAAGAAC	1707					
3.1	..	.	.	.	.	.	1707
3.2	..	.	.	T.	T.	CC.A.	885
3.3	..	.	.	.	.	A.	1717
3.4	..	.	.	.	T.	.	1703
3.5	..	.	.	.	.	.	1702
S3.1	....	.	.	T.T.	CC.A.	A.	1866
	1,900	1,920	1,940	1,960	1,980		
MutsuDr3	AAATTGGAAAAATGAGGTGATGGACATATATAAAAAA-GAATGGGATGGGACTTTATTATAGTAATGGAGATACGAAAGCTGGGAGAGGGATAGCAATTAAAGA	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	AGAATGCACTGCAAATGAGTAAGTAATATATAAGACAACAAAGGGAAATGTATGATATTAGAAATAAAATATGAAGGGAAAGATATTATTTAGTTAATGTGCATGCAC	1928					
3.1	..	.	.	.	.	.	1928
3.2	..	.	.	G.	C.	A.	1106
3.3	..	.	.	C.	C.	A.C.	1938
3.4	..	.	.	C.	C.	A.C.	1924
3.5	..	C.	T.	-	-	A.C.	1923
S3.1	....	C.	T.	TT.	A.	A.C.	2088
	2,120	2,140	2,160	2,180	2,200	2,220	
MutsuDr3	CAAATGAAGAGAGTGAAGAGAAAGCTTTTAAACATATTAAGAAGGTTTAAAAAA-CTATAAACAAATAATAGTATGTGGGATTTAACACTGTTTAGCAGAC	2036					
3.1	..	.	.	.	.	.	2036
3.2	..	C.	T.	-	-	C.	1214
3.3	..	.	.	-	-	.	2046
3.4	..	.	T.	-	-	.	2032
3.5	..	C.	T.	TT.	A.	C.	2032
S3.1	....	C.	T.	TT.	A.	C.	2198
	2,240	2,260	2,280	2,300	2,320		
MutsuDr3	AGGACATAACAGAAGGTATGGTTTAAATCAGACACGGAGGAAAGAACTAAATCACTAATAGAGGAAAAGGAATGATAGACATTGGAGAGAAAGAAATGGAAGA	2147					
3.1	..	.	.	.	.	.	2147
3.2	..	.	.	A.	.	.	1325
3.3	..	.	.	.	.	.	2157
3.4	..	.	.	-	-	.	2143
3.5	..	.	.	-	-	.	2143
S3.1	....	.	.	A.	.	.	2309

Supplemental Figure S9

	2,340	2,360	2,380	2,400	2,420	2,440	
MutsuDr3	AAAAG- GAGTTTCTAGAAGACAAATAGTAGGAATTTGTAACCAATCGAGAATAGACTATGTGTTATGCACAAGAAATATAGAAATTATATTGAAAAATAAGGTAC	2257					
3.1	.						2257
3.2	.						1435
3.3	C.		A.		T.	A.	2267
3.4	.		A.		A.	A.	2253
3.5	.				A.	A.	2253
S3.1	AA.		G.		A.	C.	2420
	2,460	2,480	2,500	2,520	2,540		
MutsuDr3	GATGAAACTGTTAACGTGACCATAATTGTATTTTAATTAAACAGAAGAAATACAAGAGGCCAGGGGTATGGACATTAAATAGTGAATTTAAAAACGAA	2368					
3.1	.						2368
3.2	.		T.		T.	T.	1546
3.3	.		T.		T.	T.	2378
3.4	.		T.		T.	T.	2364
3.5	.			T.	T.	G.	2364
S3.1		T.			T.		2531
	2,560	2,580	2,600	2,620	2,640	2,660	
MutsuDr3	GACTATGTTAAAAAGTAAAGAAATAATAGAAAAAGAAAAGGAAACAGATCTATAATGAAGACAAAAGACTATGGTGGAAAATGTCAAATTCTGATTAAAAATCT	2479					
3.1	.						2479
3.2	A. C.	G.	T. T.			A.	1657
3.3	.		A.			A.	2489
3.4	A. C.	T. G.	T. T.			A.	2475
3.5	A. C.	G.	T.			A.	2475
S3.1	G.	T.				A.	2642
	2,680	2,700	2,720	2,740	2,760		
MutsuDr3	ACATTAACATTCTGTAGAATAATACAAAAGAATAAAAGACACAAAGAAAAGACAATCAAAGAAAACTTAGAAATAGAACTAGACAAAATGAAAAGACATTCAAAAATA	2590					
3.1	.						2590
3.2	A.	G.	A.	A.	T.	A.	1768
3.3	.					A.	2600
3.4	G.		A.	A.	A.	GA.	2586
3.5	.	A.				A.	2586
S3.1	G.	TT.	A. A.	A.	A.	-	2752
	2,780	2,800	2,820	2,840	2,860	2,880	
MutsuDr3	AAAGAAATGGAGGGAAACTGAAAGAAATAGAAGAAAATATGAAGGGAGCTAGACTAAGAAGCAAAGCAAATATGAGTAGAGGGAGAAAATGCAAAAGTTCTTC	2701					
3.1	.						2701
3.2	.				A.		1879
3.3	.				C. A.		2711
3.4	.				A.		2697
3.5	.				A.		2697
S3.1		G.					2863
	2,900	2,920	2,940	2,960	2,980		
MutsuDr3	TTTGATTTAGAACAAAAAGCAAAGCAGAACATAAGATAATACAAGGGCAAAGGAGAAAGCATAGAAGGAATGAAGAAATTAAAGAAATCAAAAATAC	2812					
3.1	.						2812
3.2	.	G.	A.				1990
3.3	.	C.					2822
3.4	.	G.	A.				2808
3.5	.	G.					2808
S3.1	G.		A.				2974
	3,000	3,020	3,040	3,060	3,080	3,100	
MutsuDr3	TATGAGGAGTTTTAAACACAGGGAGTTGAGTACAATGTCAAATTATAAACAGATAAAAACAAAAATAGATGAAGAGGATAAAAAA- GAATGCGACCAAGA	2922					
3.1	.						2922
3.2	.	G.					2100
3.3	.	G.		G.			2932
3.4	.	G.					2918
3.5	.	G.					2918
S3.1		G.			A. A. A.		3085

Supplemental Figure S9

	3,120	3,140	3,160	3,180	3,200	
MutsuDr3	AATAAGGGAAAGAAGAAATAAGAAAAGCAATAGAAAGCTGACAAAAAGAAAAGTCAGGAATCGATGGTTAAATAGTGAATTATGTATGTTAAAGAAATTTAAT	3033				
3.1	.	.	.	A	.	3033
3.2	.	.	.	A	.	2211
3.3	.	.	.	A	.	3043
3.4	.	.	.	A	.	3029
3.5	.	.	.	A	.	3029
S3.1	A	A	A	A	C	3196
	3,220	3,240	3,260	3,280	3,300	3,320
MutsuDr3	TCCGATTTAAGTACGTTAAAGAAATACTGCAAAAAGAAGAACATAATGAAAGAATGGAAATGGGATTAATGAAATTAAATACACAAAAA-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	G	A	A	3307
	3,340	3,360	3,380	3,400	3,420	3,440
MutsuDr3	TAAAAAATTACAGACCAATCACAATGTTAACACAGATTAAAGATTAAACAAAATTTAGCAAATAGATTAAGAAGTGTGCAAAATAATTAAACACAGG	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	3,560
MutsuDr3	CCTATGCGATAAAAGGAAGAGACATAGCAGACATAACAATGAGCATAAAAGACATCATAGAATATATGAAGGAGAAAAAGAGGAAGGATATATAATAAGTCTGGATTTG	3365				
3.1	.	.	.	.	.	3365
3.2	.	T	.	.	.	2543
3.3	.	.	.	.	.	3375
3.4	.	.	.	.	.	3361
3.5	.	.	.	.	.	3361
S3.1	T	.	A	C	.	3529
	3,560	3,580	3,600	3,620	3,640	3,660
MutsuDr3	AAAAAGCTTTGATAGAGTTGAACACCAGTTTATTCAAAGTACTCAAAAGTTGGTTTGAGAAGTTTAGAAAATGGATAAGA-T-TTTGTATAAGGGTATTT	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	3,780
MutsuDr3	ACACAAAATTAAATGTAATGGCTTTAACAGAATGTTAAATAACAAGATCGATAAGGCAGGATGTCCTCTGTCAGCACTTTATATTCACTTGTGGCAGAACCCCT	3585				
3.1	.	.	.	.	.	3585
3.2	.	A	.	.	.	2765
3.3	.	A	.	C	.	3595
3.4	.	G	.	.	.	3581
3.5	.	.	A	.	.	3581
S3.1	.	.	.	.	.	3749
	3,780	3,800	3,820	3,840	3,860	3,880
MutsuDr3	GGGCTTAGCTAACGAGAGAAAAATAAGGAATTGAGATTGAGAAAATAAGTAATAAAAAATGTTCAATATGCAGATGACACCACATTAATAGTAAAGG	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

	3,900	3,920	3,940	3,960	3,980	
MutsuDr3	AAAAGAGAGTGTGAAAGAACCATGAAAATAGTACAACAATTTGTAAGGATCAGGGAGTAAGTAAATGAAGACAAAACGTTTATATGAAGTTGGAAAGGAAACAGA					3807
3.1	.	.	G.	.	A.	3807
3.2	.....A.	.	.	.	.	2987
3.3	.....A.	.	G.	.	.	3817
3.4	.....	.	G.	.	.	3803
3.5	.....	.	G.	.	.	3802
S3.1	.....	.	G.	.	.	3970
	4,000	4,020	4,040	4,060	4,080	4,100
MutsuDr3	TTTAGCAGAACATTCACCAATTCAAAGAAGTGAAGAATCAAGATTTAGGGTTTAATGGGAAAGATGCCAGAAAGCGAGAGATAAGATGTGGAGGTNTTAAC					3918
3.1	.	.	T.	.	.	3918
3.2	.....	T.	.	.	.	3098
3.3	.....	.	C.	.	C.	3928
3.4	.....	.	T.	.	.	3914
3.5	.....	.	T.	.	.	3913
S3.1	.....	A.	T.	C.	.	4081
	4,120	4,140	4,160	4,180	4,200	
MutsuDr3	AGATATAGAAGGAGGTTAAATTACTGGAAACTAAGAACACTAACATAAAAGAAAAGTTTGATTTAAATGTTTAATGGAGTCTAAATTGTGGCATGTTTATATGT					4029
3.1	.....	.	A.	.	.	4029
3.2	.....	.	.	.	.	3209
3.3	.....	.	.	.	.	4039
3.4	.....	.	.	.	.	4025
3.5	.....	.	.	.	.	4024
S3.1	.....C.	.	.	.	.	4192
	4,220	4,240	4,260	4,280	4,300	4,320
MutsuDr3	TTTAGAAATGCCAATGTGGATAGAAAAGAGGTTGAAAAAATGTTTACAGATTTTATGGGAGGTAAGCCACCAAGGATTGCTTTAATACAGTCGTAGGGAAATAGA					4140
3.1	.....	.	.	.	.	4140
3.2	.....	.	.	.	C.	3320
3.3	.....	.	.	.	.	4150
3.4	.....	T.	.	.	.	4136
3.5	.....	T.	.	.	.	4135
S3.1	.....	T.	.	G.	.	4303
	4,340	4,360	4,380	4,400	4,420	4,440
MutsuDr3	CAAAGGTGGCTGGGTTAATAGATGTAGAACAAAGAAAAAATAGTTAAGAGTGAAGAGATAAGAAGTATCTAGAAAAAGAAAACAAAGCAGAGTGGAAAAAAACAAAT					4251
3.1	.....	.	.	.	.	4251
3.2	.....	TAT.	.	A.	.	3431
3.3	.....	.	A.	A.	.	4261
3.4	.....G	.	A.	.	.	4247
3.5	.....	.	A.	.	T.	4246
S3.1	.....C.	.	A.	.	G.	4414
	4,460	4,480	4,500	4,520	4,540	4,560
MutsuDr3	GAATATTTTAAACAAATGTGTAATTTAACATGGAGATGGGATTTATGGATGAAAACAAAAGCTGGATGACAGAAAACCTACCTGAATTTATAGAGAAATTT					4362
3.1	.....	.	.	.	.	4362
3.2	.....	C.	.	.	.	3542
3.3	.....	.	.	.	.	4372
3.4	.....	.	.	.	.	4358
3.5	.....	.	.	.	.	4357
S3.1	.....	A.	.	.	.	4525
	4,560	4,580	4,600	4,620	4,640	4,660
MutsuDr3	AGGTGGCTGGGGAATTTTAAACAAAGTGAATATAGTCCACATGGAAGGGAAACATTTAAACCAACCTCTTCTGAACAATAACATTTAAGTCAGGGAAGGT					4473
3.1	.....	.	.	.	A.	4473
3.2	.....A.	.	.	.	.	3653
3.3	.....A.	.	.	.	.	4483
3.4	.....A.	.	.	.	T.	4469
3.5	.....A.	.	.	.	T.	4468
S3.1	.....A.	.	.	.	.	4633

Supplemental Figure S9

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

Supplemental Figure S9

MutsuDr3	GTATGGGA ATTTAAGAGAAAATGGAGAGATATGTGAAAAACTGTATGTATCATAAAAATGAGAACATTGAGTGAGCTGCACAAATTCTGACGGACAAGCA	5359				
3.1	.	.				
3.2	.	.				
3.3	.	.				
3.4	.	A.				
3.5	.	A.				
S3.1	A.	.				
	5,440	5,460	5,480	5,500	5,520	5,540
	5,560	5,580	5,600	5,620	5,640	5,660
MutsuDr3	TGTCAAG TTTAAAGAAATGAAC TGGAA ACTACCACATTTAATGTTTGAAATGAAATGATCTTTAATGTC GTTT TATTATGATTACTGAAAAGATTGTAAT	5470				
3.1	5470
3.2	A.	G.	.	.	.	4650
3.3	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	TGAAATTGGTT CAATAAAAAAAAAAAAAAAAAAAAAAAAAAA---	5520				
3.1	.	5520				
3.2	.	AAA 4703				
3.3	C.	5523				
3.4	.	5509				
3.5	AAG-	5468				
S3.1	G.	5667				
	5,680	5,700				

Supplemental Figure S9

MutsuDr4 GACACGCCCTCTAGTGTGAGTTAGAGTTGGTGCACTGCAGGAAGTGTGAGGTGGCAGAAGGAAGAGAGAGAGGGCTTCCATTGGCAGTTGTTTTATTTAGTTT 111
 4.1 20
 4.2 40
 4.3 60
 4.4 80
 4.5 100
 4.6 A.A..T.
 4.7 T.
 4.8 T.
 4.9 A.A..T.
 4.10 T.
 4.11 A.
 4.12 -
 4.13 -
 4.14 111
 4.15 111
 4.16 111
 120 140 160 180 200 220
 MutsuDr4 TGCATTACAAAGTTACTTAATTGTTTTCAAGTAAAGATTATTTAACCTAACCCCAAACAGTAACACTGTTTGGGTTAG- AAAACAACAAAATGGACACTACGGA 221
 4.1 C
 4.2 -
 4.3 -
 4.4 -
 4.5 -
 4.6 -
 4.7 T.G
 4.8 -
 4.9 -
 4.10 T
 4.11 T
 4.12 A.
 4.13 -
 4.14 -
 4.15 A
 4.16 A
 240 260 280 300 320
 MutsuDr4 GAAAGAGAATGGACAGGACACAAATGGAAAAAGGAACAGAGAACAGGAATGCTACAAACATGCTTGAAAGGACACGAAATGAAGATGCCGGAGAAACAGCAATGAGAC 332
 4.1 A.T
 4.2 -
 4.3 -
 4.4 -
 4.5 -
 4.6 T
 4.7 A.C.T
 4.8 G.G.G
 4.9 TT
 4.10 T
 4.11 T.A
 4.12 G.A.G
 4.13 TG.G.G
 4.14 -
 4.15 A
 4.16 T
 332 332 332 312 332 332 332 332 332 333 333 185 332 332 332

Supplemental Figure S9

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

Supplemental Figure S9

	680	700	720	740	760	
MutsuDr4	AAAGTAAAAAGAATGCGAGATATTGATAAACGGACTGATGATTAATGGAGAAGAATGTGAAGTGAAAAGCTGTGCAACAGAAAAATGGTATCTTCCTGAACTTGC					775
4.1	.	T.	.			775
4.2	.	.	T.			775
4.3	.	.	T.			775
4.4	.	T.	.	GA		755
4.5	.	T.	.			775
4.6	.	T.				775
4.7	.	T.		GA		775
4.8	.	T.			A..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	CCAGTTATACAGGATGAGGAGATAACACAGAAACTGAGTAATTGGGGAGTAACCTCTATACTGCCATAAGAAGGAAATATCATCGGGACAATGGTGCAGACGGAA					886
4.1	.	.	.	G.	.	886
4.2	.	.	G.		A.	886
4.3	.	.				886
4.4	.	A..A	.	G..T	A..	866
4.5	.	A.			A.	886
4.6	.					886
4.7	A..C..T	.	A..C	G..T	A..T..	886
4.8	.		A..A	G..T	A..	886
4.9	.	A..A	.	G..T	A..	866
4.10	.	A..A	.	G..T	A..	887
4.11	.	A..A	.	G..T	A..	887
4.12	A..A..T	.	A..C	G..T	A..	739
4.13	.				A..G	38
4.15	.					886
4.14	.					886
4.16	.	A..A	.	T..A..T	A..	886
	900	920	940	960	980	
MutsuDr4	CACGATTGTGAAGGTAAAGTTCCAAAGAAGTTAAATCTTACCATACAATGTTGGCTTCATGACGGAAGAAGGGATGCAGTATTCAGAGTGATACATGACAATCAAC					997
4.1	.	T.				997
4.2	.	A.	.	T..A..	T..C..T..	997
4.3	.					997
4.4	C..C.G..A..	.	G..		A..	997
4.5	.				T..T..	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..	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
4.13	.			G..		149
4.15	.					997
4.14	.	A..	G..	T..	A..T..T..	997
4.16	.					997

Supplemental Figure S9

	1,000	1,020	1,040	1,060	1,080	1,100	
MutsuDr4	TGAAAATGTGCAGACTTTGCTCAAGTACAGAGCATGAAAAGAAAGACTGCCAAATTTCACGTGCAGGAGATGTCTTCAGCAGGGCATTATGTGCGGGACTGCGAAGTT						1108
4.1	.	.	.	.	.	.	1108
4.2	.	.	.	.	.	.	1108
4.3	.	.	.	.	.	.	1108
4.4	C	C	G	T	A	A	1088
4.5	.	.	.	.	.	.	1108
4.6	.	.	G	.	.	.	1108
4.7	C	C	G	A	.	.	1108
4.8	.	.	.	.	.	.	1108
4.9	C	C	G	T	A	.	1088
4.10	C	C	G	A	.	.	1109
4.11	C	C	G	A	.	.	1109
4.12	C	C	G	A	.	.	961
4.13	C	C	.	.	.	.	260
4.15	.	.	.	.	.	.	1108
4.14	.	.	.	.	.	.	1108
4.16	C	C	.	.	.	.	1108
	1,120	1,140	1,160	1,180	1,200	1,220	
MutsuDr4	CGCAGTGCCAGGGCTCGAGAGGGCATCAACAAGATGTAAGTCAACAAAGAGGGAGTTGAAAGGATGAAATACAAGCGTCACTTGAAAATACTGCAACAGAAAGGA						1219
4.1	.	.	.	C	.	.	1219
4.2	.	.	.	.	.	.	1219
4.3	.	.	.	C	.	.	1219
4.4	T	.	G	.	.	.	1199
4.5	.	.	.	C	.	.	1219
4.6	.	.	.	C	.	.	1219
4.7	.	G	.	TG	A	A	1219
4.8	.	.	.	A	A	AA	1219
4.9	T	.	G	.	C	.	1199
4.10	.	TG	.	TG	A	.	1220
4.11	.	TG	.	TG	A	A	1220
4.12	.	G	.	TG	A	AA	1072
4.13	.	.	.	C	.	.	371
4.15	.	.	.	C	.	.	1219
4.14	.	.	.	C	.	.	1219
4.16	.	.	.	A	A	G	1219
	1,240	1,260	1,280	1,300	1,320		
MutsuDr4	AGGAGGACAAAACAGGAGAAGAAAAACAATACAGAACAGGGACAGAAATGAGCAAGAGGGATAAAGAAATGAACTGGGAGAAGGGAGCAAACAAGGAAGAAGGGAAACCAAATA						1330
4.1	.	.	.	.	.	.	1330
4.2	.	.	.	.	.	.	1330
4.3	.	.	.	.	.	.	1330
4.4	.	C	.	A	.	G	1310
4.5	.	.	.	.	.	.	1330
4.6	.	.	.	G	.	A	1330
4.7	A	G	.	A	.	G	1330
4.8	.	.	.	.	.	.	1330
4.9	.	C	.	A	.	G	1310
4.10	.	A	C	A	.	.	1331
4.11	.	A	C	A	.	.	1331
4.12	A	.	.	.	G	.	1183
4.13	.	.	.	.	.	A	482
4.15	.	.	.	.	.	.	1330
4.14	.	.	.	.	A	.	1330
4.16	.	A	.	A	.	.	1330

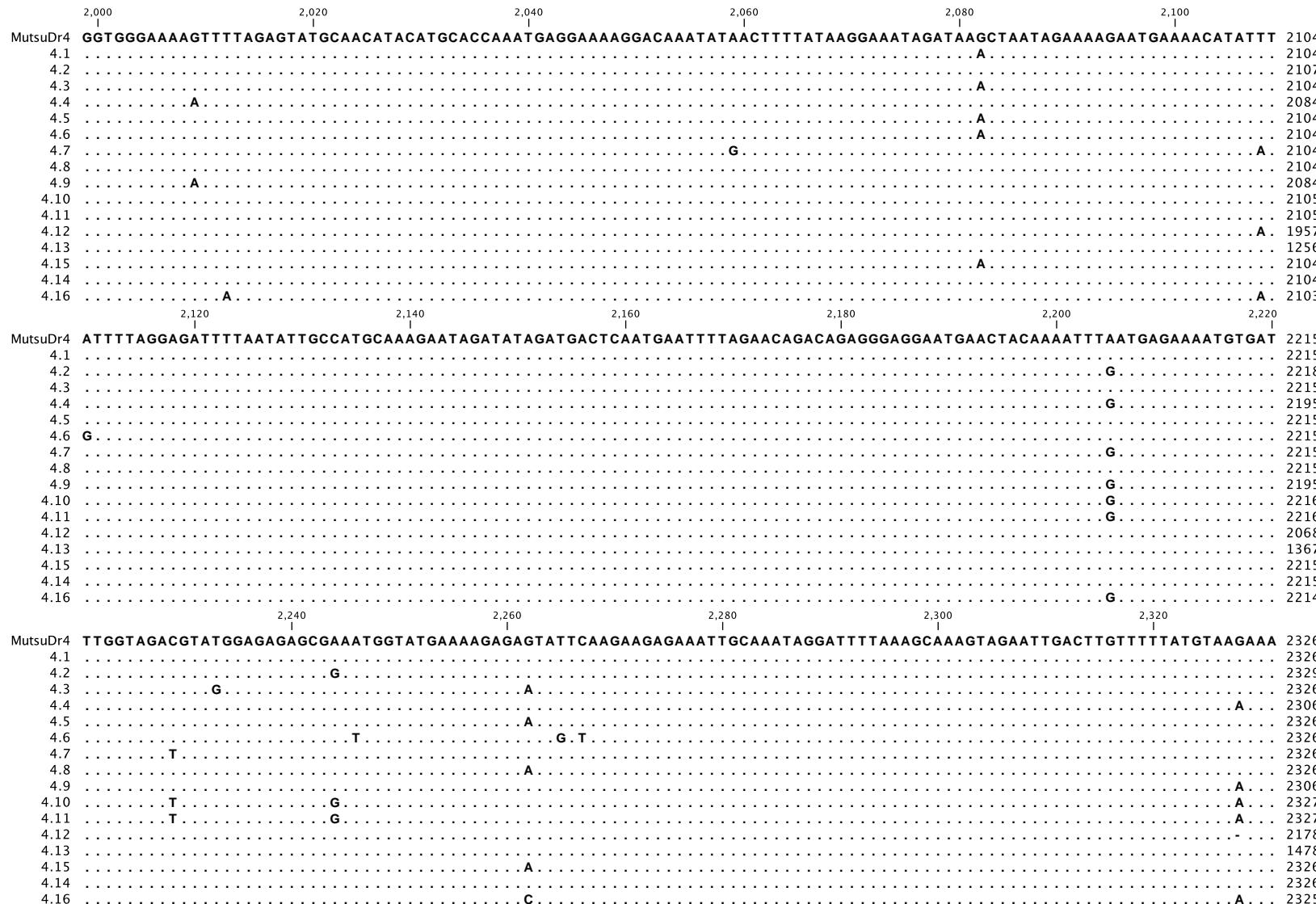
Supplemental Figure S9

	1,340	1,360	1,380	1,400	1,420	1,440
MutsuDr4	ATAGACAATTGCTGAGGAACAAAATGATGAGGACACTATAGAACTGAACAATGAAGAGAGACAGGAGAAAACAAGGACTGAGGACAATGAAATAAGAGCAATAATGAGG					1441
4.1	.					1441
4.2	G		C	T		1441
4.3	.					1441
4.4	.	T	G			1421
4.5	.		A			1441
4.6	.	G				1441
4.7	.	G				1441
4.8	.					1441
4.9	.	T	G			1421
4.10	.	C	T	C	T	1441
4.11	.	C	T	C	T	1441
4.12	.	G	C			1294
4.13	.	T	T	C	T	593
4.15	.					1441
4.14	.					1441
4.16	G		C	T	A	1441
	1,460	1,480	1,500	1,520	1,540	
MutsuDr4	TAAGAGCAATGGATTTGAAAGGGGGATTATGGACTGGAAAAAAAAGAAAAAGGAAAAAGATAAAAGATTAAAATCAAGATCTAAAGTGGCTTAA--ACATTGAAAT					1550
4.1	.				C	1550
4.2	.				TT	1552
4.3	.				C	1550
4.4	.					1530
4.5	.				C	1550
4.6	.	G			C	1550
4.7	.				A	1550
4.8	.	G			C	1550
4.9	.					1530
4.10	.	G				1551
4.11	.	G				1551
4.12	.					1403
4.13	.				C	702
4.15	.				C	1550
4.14	.	G				1550
4.16	.	G				1549
	1,560	1,580	1,600	1,620	1,640	1,660
MutsuDr4	GGTTCTACAACGGCAGAAAATAAGAAGAGAGATTAAAGAAGAATGGAAAGGAAAAATTGAAAAAGGAGATGCAAGAACATTGTTAAGTGACAGTGACTCAGA					1661
4.1	.		T			1661
4.2	.		G			1663
4.3	.		A	A		1663
4.4	.					1641
4.5	.					1661
4.6	.	A				1661
4.7	C		G			1661
4.8	.	A	G			1661
4.9	.					1641
4.10	.	A	G	G		1662
4.11	.	A	A	G		1662
4.12	C				A	1514
4.13	.					813
4.15	.		A			1661
4.14	.					1661
4.16	.	T				1660

Supplemental Figure S9

	1,680	1,700	1,720	1,740	1,760	
MutsuDr4	ATGAATGGTGGTTATTGGTTATCCAATAATTACTAATGAGTAATGTATGTGGTATCATTGAATGTAAGAGGATTGTCCAAATGTGAAAAGTTGAAAGATTAACGT					1772
4.1	.	.	.	A	.	1772
4.2	1774
4.3	1772
4.4	1752
4.5	1772
4.6	.	G	.	.	.	1772
4.7	1772
4.8	.	G	.	.	.	1772
4.9	1752
4.10	.	T	.	.	.	1773
4.11	1773
4.12	1625
4.13	924
4.15	.	.	.	T	.	1772
4.14	1772
4.16	1771
	1,780	1,800	1,820	1,840	1,860	1,880
MutsuDr4	TTTGACAAAAAA- GTGTGATATATTATGTTACAAGAGACAAAGTGGAAATGAGATTAAAATGAATGAGAAATTATGGAATGGTAAATATTTAGTAATGGAAAT					1882
4.1	1882
4.2	.	A	.	.	.	1885
4.3	G	1882
4.4	.	.	G	.	.	1862
4.5	G	1882
4.6	1882
4.7	1882
4.8	.	.	G	.	.	1882
4.9	1862
4.10	.	A	.	.	G	1883
4.11	.	A	.	.	G	1883
4.12	1735
4.13	.	G	.	T	.	1034
4.15	.	G	.	.	G	1882
4.14	.	G	G	.	.	1882
4.16	.	G	.	.	.	1881
	1,900	1,920	1,940	1,960	1,980	
MutsuDr4	ATAGAAAAGAATAGAGGAGTAGCAATTAAATAAAAAGAGGGATTTGAGAAAGTAGAATTAGACTATAAAGACACTAATGGAAGAATAATAATTGTAAAAGTTCTGTAT					1993
4.1	.	.	.	A	.	1993
4.2	.	G	.	A	.	1996
4.3	.	.	.	A	.	1993
4.4	.	T	.	.	.	1973
4.5	1993
4.6	1993
4.7	.	.	.	G	.	1993
4.8	.	T	.	A	.	1993
4.9	.	T	.	.	.	1973
4.10	.	.	.	A	.	1994
4.11	.	.	.	A	.	1994
4.12	.	.	.	A	.	1846
4.13	.	.	.	A	.	1145
4.15	.	.	.	A	.	1993
4.14	.	T	.	A	.	1993
4.16	1992

Supplemental Figure S9



Supplemental Figure S9

	2,340	2,360	2,380	2,400	2,420	2,440	
MutsuDr4	AAAGAAGTACAATATGTTAACACAATTATATAAAACCTATAGTGAAGTGATCATGATTTTATGGATAACAATGAATTAAATGAGATTGAAAAAGGACCAGGAGTG	2437					
4.1	.....T				A.....		2437
4.2	.....						2440
4.3	.....			G.....			2437
4.4	T.....		G.....	G.....A			2417
4.5	.....		G.....	G.....			2437
4.6	.....		G.....	G.....			2437
4.7	.....		G.....	.....			2437
4.8	.....		G.....	.....	G.....		2437
4.9	T.....		G.....	G.....A			2417
4.10	T.....		G.....	.....	C.....		2438
4.11	.....		G.....	.....	C.....		2438
4.12	T.....		.....	.....	.....		2289
4.13	.....		.....	.....	.....		1589
4.15	.....	G.....	.....	.....	.....		2437
4.14	.....	.....	.....	.....	.....		2437
4.16	T.....	.....	G.....	G.....	.....		2436
	2,460	2,480	2,500	2,520	2,540	2,560	
MutsuDr4	TGGATACTCAACACTGAGCTGTTAAAATAGAAAGTTATAAAATGGATATAGAAATATAATAATTAGTAGTAAATGATGAAATGTTGAAACAGAAACAGGTTATGG	2548					
4.1	.....	.....C	.....C	.....G	.....	.....	2548
4.2	.....	.....	.....	G.....	.....	.....	2551
4.3	.....	.....	.....	G.....	.....	.....	2548
4.4	.....G	.....	.....	G.....	.....	.....	2528
4.5	.....	.....	.....	.....	.....	.....	2548
4.6	.....	.....	.....	.....	.....	.....	2548
4.7	.....	.....	.....	G.....	.....	.....	2548
4.8	.....	.....	.....	G.....	.....	.....	2548
4.9	.....G	.....	.....	G.....	.....	.....	2528
4.10	.....T	.....	A.....	.....	.....	.....	2549
4.11	.....	.....	A.....	.....	.....	.....	2549
4.12	.....	.....	.....	.....	.....	.....	2355
4.13	.....G	.....	.....	G.....	.....	.....	1700
4.15	.....	.....	G.....	.....	.....	.....	2548
4.14	.....	.....	G.....	G.....	.....	.....	2548
4.16	.....	.....	.....	G.....	.....	.....	2547
	2,560	2,580	2,600	2,620	2,640	2,660	
MutsuDr4	TGGGATAATCTGAAAAATAGAATAAAAGAATACTCAATAATATATCAGAAAAAAATACAAAAGGCCAAAAATTCAAAGAAAATAAAATTAGAAAAGAATGGAATGAAGAA	2659					
4.1	.....	.....	.....A	.....A	.....	.....	2659
4.2	.....	.....	A.....A	.....A	.....G	.....	2662
4.3	.....	T.....	.....A	.....A	.....G	.....	2659
4.4	.....	.....	.....A	.....A	.....G	.....	2639
4.5	.....	A.....	.....	.....	.....	.....	2659
4.6	.....	.....	.....	T.....	.....	.....	2659
4.7	.....	.....	.....	.....	.....	.....	2659
4.8	.....	A.....	.....A	.....G	.....	.....	2639
4.9	.....	.....	.....	.....	.....	.....	2639
4.10	.....	.....	.....	.....	.....	.....	2660
4.11	.....	.....	.....	T.....	.....	.....	2660
4.12	.....	.....	A.....	.....	.....	.....	2466
4.13	.....	T.....	.....A	.....G	.....	.....	1811
4.15	.....	.....	.....	.....	.....	.....	2659
4.14	.....	.....	.....	.....	.....	.....	2659
4.16	.....	T.....	.....	.....	.....	.....	2658

Supplemental Figure S9

	2,680	2,700	2,720	2,740	2,760	
MutsuDr4	ATGAGTAAAGTAATGGATAATGTTGACAAAATAATAGAATTACAGGAAAGCTGAAGAAAATTGAAGAAGAAAAGTGTAAAGGAGTAATTATTAGAACAGAGCTAA					2770
4.1	.	T				2770
4.2	.					2773
4.3	.					2770
4.4	.					2750
4.5	.					2770
4.6	.	T				2770
4.7	.					2770
4.8	.					2770
4.9	.					2750
4.10	.	T				2771
4.11	.	T				2771
4.12	.	T			A G	2577
4.13	.	T A				1922
4.15	.	T				2770
4.14	.					2770
4.16	.					2769
	2,780	2,800	2,820	2,840	2,860	2,880
MutsuDr4	GACATTGAGGAGAAAGAAGTACAAAATCTTTATGAATTAGAAAAACAAGACAGAGAGCAGCTATAATAAAATGTATAAAACACAAGATGGAAAAGTGTAGAA					2881
4.1	.	T				2881
4.2	.					2884
4.3	.					2881
4.4	.		T			G 2861
4.5	.					2881
4.6	.					2879
4.7	.					2881
4.8	.					2881
4.9	.		T			G 2861
4.10	.			G		2882
4.11	.					2882
4.12	A		T		C	G 2688
4.13						2033
4.15						2881
4.14						2881
4.16						2880
	2,900	2,920	2,940	2,960	2,980	
MutsuDr4	GACAAAGAGGGATTTAAATGAAACTAGACGATTTATAAGGAATTATTCAGAAAAATGGAGTTAATTAAATGTGAACATTTTATTAGAAAAATAACAGCAAA					2992
4.1	.	A				2992
4.2	.					2995
4.3	.	C A				2992
4.4	.	CA		A		2972
4.5	.	A		A		2992
4.6	.	G				2990
4.7	.			A		2992
4.8	.					2992
4.9	.	CA		A		2972
4.10	.					2993
4.11	.					2993
4.12	.				G	2799
4.13	.					2144
4.15	C A	G		A A		2992
4.14					G	2992
4.16		C		A		2991

Supplemental Figure S9

MutsuDr4 TAAATAAAGAGGACAAGGAATGTGTGAGAGTGAGATAACAGATTAGAAATAGAACAGCTATTGATCAGTCGAGAAATGGAAAAGTCCAGGAATAGATGGACTACCA 3103
 4.1
 4.2
 4.3 G
 4.4
 4.5
 4.6 A A
 4.7 A ..
 4.8
 4.9
 4.10
 4.11
 4.12 A ..
 4.13
 4.14 A ..
 4.15 A ..
 4.16 G ..
 3,000 3,020 3,040 3,060 3,080 3,100
 3,120 3,140 3,160 3,180 3,200
 MutsuDr4 GTTAGTTTATAAAGTTTAAAAATGTTAATTCTATTAAATGAAATATACAGTGATATTGAAAAA- GGGGAGTTAACTAATAGTATGAAGAAAGGAATGGT 3213
 4.1
 4.2
 4.3
 4.4
 4.5
 4.6 G ..
 4.7
 4.8
 4.9
 4.10
 4.11
 4.12
 4.13
 4.14
 4.15
 4.16 T .. G ..
 3,220 3,240 3,260 3,280 3,300 3,320
 MutsuDr4 GAAATGATTTATAAAGAAATGGAGACAAAGGAGACTTAAGGAAATTATCGACCCCTTAAGCATGCTGAACACGGACTATAAAATTAGCAAAGGTTTAGCTAATAGATT 3324
 4.1 G .. A ..
 4.2 G ..
 4.3 G ..
 4.4
 4.5
 4.6
 4.7
 4.8 G .. A ..
 4.9
 4.10
 4.11
 4.12 A .. G ..
 4.13 A ..
 4.14 A ..
 4.15 C ..
 4.16 A .. G ..
 3,000 3,020 3,040 3,060 3,080 3,100
 3,120 3,140 3,160 3,180 3,200
 3,220 3,240 3,260 3,280 3,300 3,320

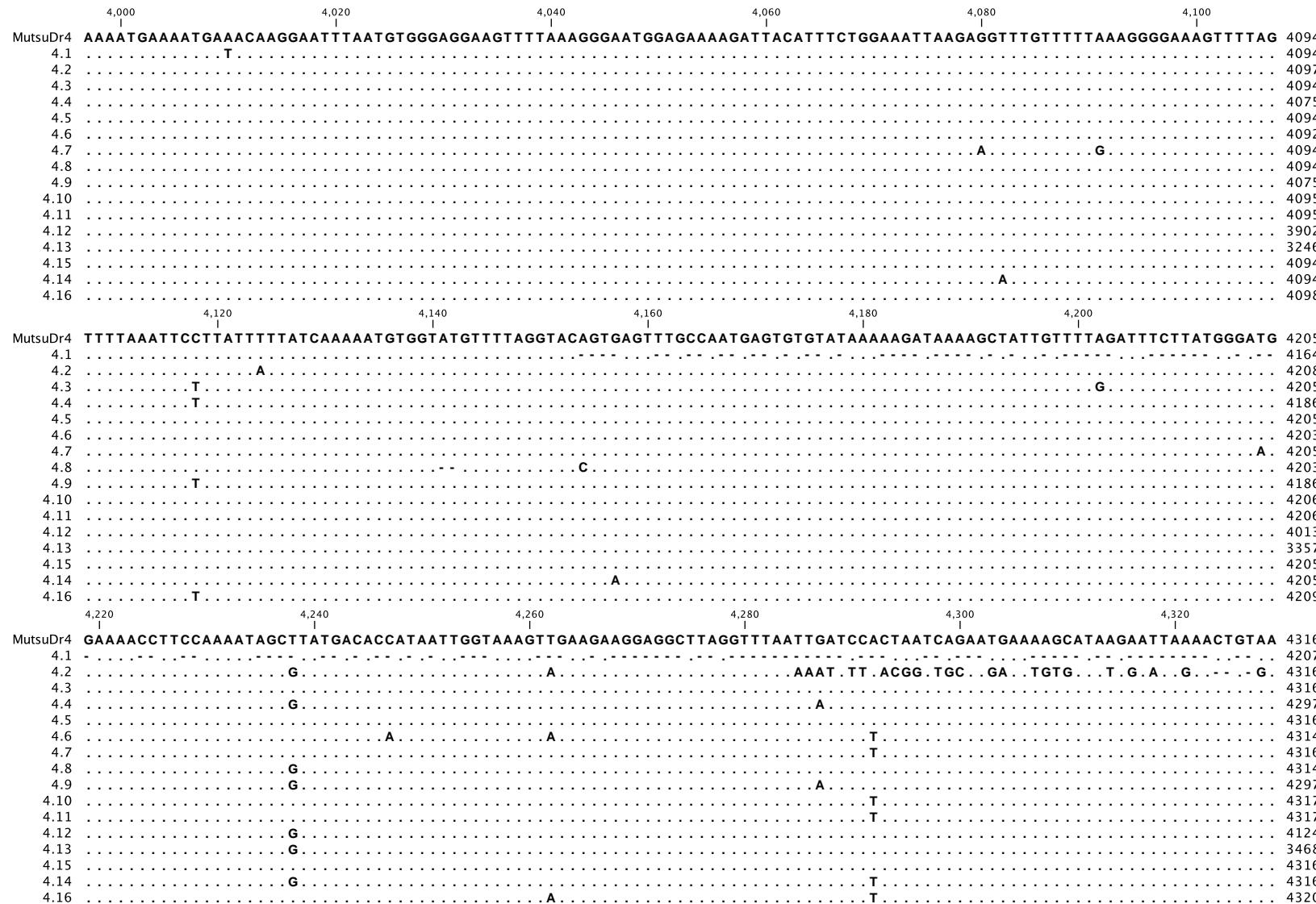
Supplemental Figure S9

	3,340	3,360	3,380	3,400	3,420	3,440	
MutsuDr4	GAAAGTAGTTGACCTAACATAATCAAAACAAATCAAGCATATGCAGTTCTAAAAGAGACATAACTGATGTCATAACAAATATAAGAGATATAATATGGTATATGAGAGA						3435
4.1	.	T					3435
4.2	.	.					3438
4.3	A..G	.	T				3435
4.4	.	.	T				3415
4.5	.	.	T				3435
4.6	.	G	.	T			3433
4.7	.	G	.	T			3435
4.8	.	.	T				3435
4.9	.	.	T				3415
4.10	.	.	T				3436
4.11	.	.	T				3436
4.12	.	T		C			3243
4.13	.	.	T		G		2587
4.15	.	.	.	C	.		3435
4.14	.	.	.	A	.		3435
4.16	A..G	.	T	.	G	.	3434
	3,460	3,480	3,500	3,520	3,540		
MutsuDr4	GGAAAAAGAACAGGATATATAATCAGTGTGATTAGAAAAGCTTTGATAGAGTGGAACACAAATATATGATGGATGTAATGGAGAGATTTGGTTTGGAGAAAGATA						3546
4.1	.	.	T				3546
4.2	.	T	.				3549
4.3	.	.	.				3546
4.4	.	T	.				3526
4.5	.	T	.				3546
4.6	.	T	.				3544
4.7	.	T	.				3546
4.8	.	.	T				3546
4.9	.	T	.				3526
4.10	.	.	.				3547
4.11	.	.	.				3547
4.12	.	.	.				3354
4.13	.	.	.				2698
4.15	.	.	.				3546
4.14	.	.	.				3546
4.16	.	T	T	.	.		3545
	3,560	3,580	3,600	3,620	3,640	3,660	
MutsuDr4	CTTACAATGGATAAAATGTTATATGCAGATATAACAAGCTGTATAAAAGTAATGGTTTTAACTAAAGATTTAAATAACAAGATCAATAAGACAAGGATGTCCAAT						3657
4.1	.	.	.	T	.		3657
4.2	.	.	.	T	.		3660
4.3	.	G	.	T	.		3657
4.4			3637
4.5			3657
4.6			3655
4.7			3657
4.8	.	.	T	.	G	.	3657
4.9		3637
4.10		3658
4.11		3658
4.12		3465
4.13	.	.	.	A	.		2809
4.15		3657
4.14		3657
4.16		3656

Supplemental Figure S9

	3,680	3,700	3,720	3,740	3,760	
MutsuDr4	GTCAGCACTATTATACACACTGTATCTGAAACATTGGGATTAGCAATTGATAATGAAACGCAAATCGAGGATTATGTATAAAGGAACAGACACTAGAACACAAAATATT					3768
4.1	.	G.	.	.	.	3768
4.2	.	A.	A.	T.	.	3771
4.3	.	A.	.	.	.	3768
4.4	.	C.	.	.	.	3748
4.5	.	G.	.	.	.	3768
4.6	.	.	C.	.	G.	3766
4.7	.	.	C.	.	G.	3768
4.8	.	G.	.	C.	G.	3768
4.9	.	.	A.	.	.	3748
4.10	.	A.	.	.	.	3769
4.11	.	A.	.	.	.	3769
4.12	.	.	A.	.	G.	3576
4.13	G.	2920
4.15	.	G.	A.	T.	.	3768
4.14	.	.	C.	.	.	3768
4.16	.	.	.	A.	G.	3767
	3,780	3,800	3,820	3,840	3,860	3,880
MutsuDr4	TCAGTATGCTGATGACTACTTTAATAGTAAAGATATTAAAGTATTGAAAAGCAGAGGAATTAAACAGATATTGTAAGGAACAGGAGCAAAATTAATAAGGA					3879
4.1	.	C.	.	C.	.	3879
4.2	.	C.	C.A.	.	.	3882
4.3	.	C.	.	T.	.	3879
4.4	.	.	.	T.	.	3859
4.5	T.	3879
4.6	.	.	T.	.	.	3877
4.7	.	C.	.	.	.	3879
4.8	.	C.	.	.	.	3879
4.9	.	.	.	T.	.	3859
4.10	C.T.	3880
4.11	C.T.	3880
4.12	.	C.	.	T.	T.	3687
4.13	.	C.	C.G.	T.	.	3031
4.15	T.	A.
4.14	.	C.	.	.	.	3879
4.16	.	C.	T.	T.	C.	3878
	3,900	3,920	3,940	3,960	3,980	
MutsuDr4	AAAAACTAAATACATGAGAATGGGAAAATAATGTTTACCGAGAAAAA- TCAAATTAAAGAGGAGAAAGTTGATATGAAATTTAGGTATAAGGGTTGGT- - - - G					3983
4.1	.	.	-AC.	A.	A.	3983
4.2	.	C.	-T.	.	.	3986
4.3	.	C.	-T.	.	C.	3983
4.4	.	T.	-A.	.	.	3964
4.5	.	C.	-C.	.	.	3983
4.6	.	.	-T.	.	.	3981
4.7	.	G.	-A.	.	.	3983
4.8	.	.	-AT.	.	.	3983
4.9	.	T.	-A.	.	.	3964
4.10	.	C.	-A.	.	.	3984
4.11	.	C.	-A.	.	AA.	3984
4.12	.	.	-A.	A.	.	A 3791
4.13	.	.	-A.	C.	.	3135
4.15	.	C.	-T.	.	.	3983
4.14	.	.	-A.	.	.	3983
4.16	.	.	-A.	.	AAAAT.	3987

Supplemental Figure S9



Supplemental Figure S9

MutsuDr4 ATAAATATTGAAAGAAGAAAAACATGTATGGAAAGATGTGATGAGATATTTAAATAATGTGGGAAATACAAGAATATATATTATGGATGAAGCCCAAAGAGAATA 4427
 4.1 4,340
 4.2 ...T-.G..AA.G.A....TGG..AA...TCT...A.AT.G...CAA.G.A....CT...C.G.T.A.TGC.C.T..C.ATTATTGTAA..TGA.TG.C. 4421
 4.3 4,360
 4.4 4,380
 4.5 4,400
 4.6 4,420
 4.7 4,440
 4.8 4,460
 4.9 4,480
 4.10 4,500
 4.11 4,520
 4.12 4,540
 4.13 4,560
 4.14 4,580
 4.15 4,600
 4.16 4,620
 MutsuDr4 TGATGAATAAAGTCCAGAATTCTATAAAGAGGTTATTAAGCATGGGAGATTTAGAAAGCATATTGATTGTTCATTTAGTAAAGAAGAGATTTAAAGCAACCGCTGT 4538
 4.1 4,460
 4.2 A...TG..GT.T..GA.A..GA..T.TT.ACT.GG.A.GC..T...TTC.A..GGCTTT.TAT.ATG.A.A..ATTA..CCTG..T.TA.C.G.TTT-T..TTT..A 4529
 4.3 4,480
 4.4 4,500
 4.5 4,520
 4.6 ..A...T.....C.....
 4.7 4,540
 4.8 4,560
 4.9 4,580
 4.10 4,600
 4.11 4,620
 4.12 4,640
 4.13 4,660
 4.14 4,680
 4.15 4,700
 4.16 4,720
 MutsuDr4 TTTAAATGAATACATTAAGAAGGGAATAACTATTTTATAAGAAATGGTTAATGCAGGAATAAGCAAATTAAAGATATTTATATGAAGTGATAACCTGGTTATG 4649
 4.1 4,560
 4.2 ..A.A...A..-G..-A...A...AA..A..A..AG.AAA- 4216
 4.3 4,580
 4.4 4,600
 4.5 4,620
 4.6 4,640
 4.7 4,660
 4.8 4,680
 4.9 4,700
 4.10 4,720
 4.11 4,740
 4.12 4,760
 4.13 4,780
 4.14 4,800
 4.15 4,820
 4.16 4,840

Supplemental Figure S9

	4,680	4,700	4,720	4,740	4,760	
MutsuDr4	TACAGGCGCACGTAAATAAAGATGCAATAATAGAAAACATGAAAACGAAACTAAAAGAGTTATTGAAAATCAGTTAACAACTTGAAAAAAA-					4759
4.1	-	-	-	-	-	4216
4.2	-	-	-	-	-	4565
4.3	.....T	-	-	-	-	4759
4.4	-	-	T	-	-	4740
4.5	.....A	-	A	-	-	4759
4.6	-	-	A	-	-	4757
4.7	-	.....A	A	-	-	4759
4.8	-	-	A	-	-	4757
4.9	-	-	-	-	-	4740
4.10	-	-	G..C	-	-	4760
4.11	-	-	G..C	-	-	4760
4.12	-	-	G..C	-	-	4567
4.13	.....A	-	A..G	-	-	T 3911
4.15	-	-	G..C	-	A	4760
4.14	-	-	G..C	-	-	4759
4.16	-	T..	G..C	-	-	G 4763
	4,780	4,800	4,820	4,840	4,860	4,880
MutsuDr4	AAAGAAATTATAGAAAATAATTGAAATGCACAGAGATGAAGGAAGGGTATAACTTTAAAGAAAATCAATATGCTTTAAAGATGGTAACTGAAAATGTTTATTCT					4870
4.1	-	-	-	-	-	4216
4.2	-	-	-	-	-	4565
4.3	.....G	-	-	-	-	4870
4.4	-	.....T	C	-	-	4850
4.5	-	-	G	-	-	4870
4.6	-	.....T	-	-	-	4868
4.7	-	.....T	-	-	-	4870
4.8	-	T..C	-	-	A..C	4868
4.9	-	T..C	-	-	-	4850
4.10	-	T..C	-	-	-	C 4871
4.11	-	T..C	-	-	-	C 4871
4.12	-	T..C	-	-	-	4678
4.13	-	T..C	-	-	A..C	4022
4.15	-	-	-	-	-	4871
4.14	-	-	-	-	-	4870
4.16	-	-	T..	-	C	4874
	4,900	4,920	4,940	4,960	4,980	
MutsuDr4	TGTTTACGTAAAGATGTTTGTACACCCAAAGCAGAAGAGTACTGGAAAAGGTATATCCCATATTGAAAAGAAGGAATATGGCAAATTTAAGAGCTTGGTGGAAA					4981
4.1	-	-	-	-	-	4216
4.2	-	-	-	-	-	4565
4.3	.....A	-	A	-	-	4981
4.4	-	-	-	-	-	4961
4.5	-	-	-	-	-	4981
4.6	.....T	-	-	C	-	4979
4.7	-	.....A	-	C	-	4981
4.8	-	-	A	-	G	4979
4.9	-	-	-	-	-	4961
4.10	-	-	A..	-	C..G	4982
4.11	-	-	G..A	-	C..G	4982
4.12	-	A..	A	-	CG..	4789
4.13	-	-	A..	C	G..	4133
4.15	.....A	-	-	-	G..	4982
4.14	.....T	-	A..	-	-	4981
4.16	-	-	-	-	-	4985

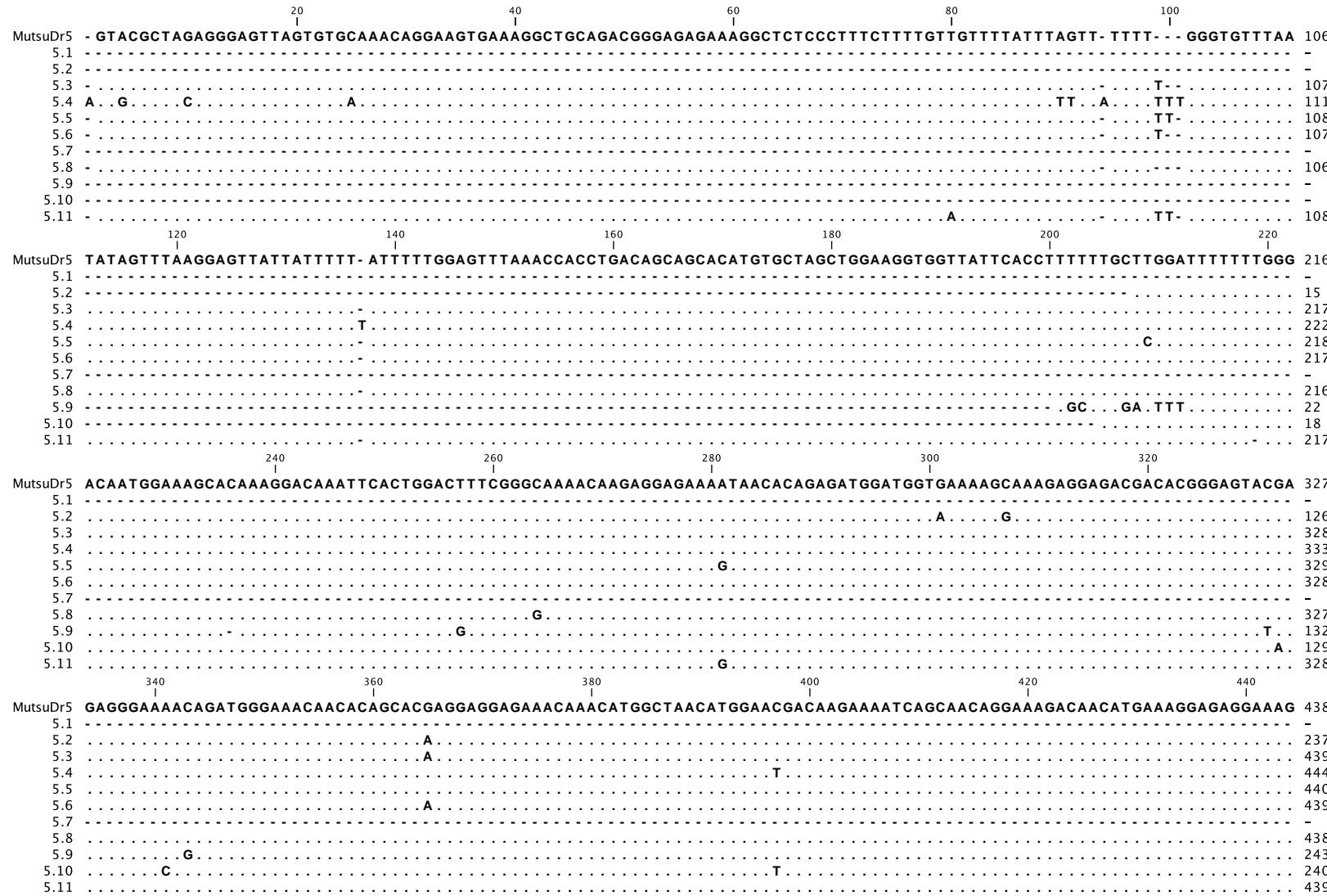
Supplemental Figure S9

MutsuDr4	AGTCCCGTTTAGAGAATTTGATTACATTTAAGACAAAACTGTTATTAAGTGAATGAGATTGTGTAAAATAGGTTGGCAAATGATGCAAGATGTAAAGTTGTAAT	5,000	5,020	5,040	5,060	5,080	5,100
4.1	-						5092
4.2	-						4216
4.3	.						4565
4.4	.						5092
4.5	.	A					5072
4.6	.						5092
4.7	.	A					5092
4.8	.						5092
4.9	.						5072
4.10	.		A				5092
4.11	.						5092
4.12	.						4900
4.13	.						4244
4.15	.	A					5092
4.14	.						5092
4.16	.						5092
		5,120	5,140	5,160	5,180	5,200	
MutsuDr4	GAAGAAGATGAAGGTATACTACATTTGTTTTT- AAATGCAAAGAGTTAAATGTTTATTGGAAAAATTAAAGAAATGCTAAATGAAATGGGATTGAAATGAGGTTGT	5202					
4.1	-						4235
4.2	-						4565
4.3	.	T					5202
4.4	.		-				5182
4.5	.	T	-				5202
4.6	.	T	-				5200
4.7	.	T	T				5203
4.8	.		-				5200
4.9	.		-				5182
4.10	.		-				5203
4.11	.		-				5203
4.12	.	T	-				5010
4.13	.		-				4354
4.15	.	T	-				5203
4.14	.		-				5202
4.16	.	T	-	G			5200
		5,220	5,240	5,260	5,280	5,300	5,320
MutsuDr4	TGATGAGGAATGGAACATTATTTTATTTGGTTGAAACAGAAGGTAAAAACACAAGGTTCATAACTTCATTTAACAGTTGCAAGAAATGTGATATGAAATAGAAG	5313					
4.1	.		G	T			4345
4.2	.						4565
4.3	.						5313
4.4	.	G	T	A			5293
4.5	.				CT		A
4.6	.				T		5313
4.7	.						5313
4.8	.		A		G	T	A
4.9	.	G	T	A	CT		A
4.10	.				T		5314
4.11	.				T		5314
4.12	.				T		5123
4.13	.		A		T		4465
4.15	.				T		5314
4.14	.	T	G		G		5313
4.16	.				T		5313

Supplemental Figure S9

	5,340	5,360	5,380	5,400	5,420	
MutsuDr4	GAATATTGTTAACAAAAGAATGGCAAATTGTCGTGTAAATTGTTCAAGAAAAATGTCTGAAGTGCCTAATACTCTTTCTATTATTGTAACATGAATGACAAGAT					5424
4.1	.	.	.	.	.	4454
4.2	-	-	-	-	-	4565
4.3	-	-	-	-	-	5424
4.4	-	-	-	-	-	5424
4.5	-	-	-	-	-	5422
4.6	-	-	-	-	-	5425
4.7	-	-	-	-	-	5422
4.8	-	-	A	-	-	5400
4.9	-	-	-	G	-	5425
4.10	-	-	-	-	C	5400
4.11	-	T	-	-	-	5425
4.12	-	-	A	-	-	5425
4.13	-	-	-	-	C	5232
4.15	-	-	-	-	T	4576
4.14	-	-	-	-	-	5425
4.16	-	-	-	-	C	5424
	5,440	5,460	5,480	5,500	5,520	5,540
MutsuDr4	TGATGTATTTGAAAAA-GACTTTAACCGGAATACATATGTTCAATGGCTTATATAATGTAATGTATTACCTGAATGAACTGTTTTAATTTGATATAAA					5534
4.1	-	-	-	-	-	4564
4.2	-	-	-	-	-	4565
4.3	CTAAGGCA.G.GG-A.TC.C.TT.T-	-	-	-	-	5455
4.4	-	-	-	-	-	5510
4.5	-	G	-	A	-	5534
4.6	-	-	T	-	-	5532
4.7	-	A	-	-	-	5536
4.8	-	-	-	T	-	5532
4.9	-	-	-	-	A	5532
4.10	-	-	-	-	-	5535
4.11	-	-	T	-	-	5535
4.12	-	-	-	-	-	5342
4.13	-	-	C	-	-	4686
4.15	-	G	-	A	-	5535
4.14	-	T	-	G	-	5534
4.16	-	A	-	-	-	5539
	5,560	5,580	5,600			
MutsuDr4	ATAAAGAAAAAAAAAAAAA-					5553
4.1	.T	-	-	-	-	4581
4.2	-	-	-	-	-	4565
4.3	-	-	-	-	-	5455
4.4	.A..TT.G..TG-	-	-	-	-	5524
4.5	-	-	AA-	-	-	5555
4.6	-	-	AAAAGAAAAAAAGAAATGCTGATCTCATAAAAAAAAAAAAAA	-	-	5598
4.7	.A..A..	-	-	-	-	5544
4.8	-	-	GAAAAAA-	-	-	5561
4.9	.A..TT.	-	-	-	-	5518
4.10	.A..A..	-	AAAAA-	-	-	5574
4.11	-	G..	AAAAA-	-	-	5567
4.12	.A..A..	-	-	-	-	5355
4.13	-	-	A-	-	-	4706
4.15	-	-	AAAAA-	-	-	5570
4.14	.A..A..	G..	AAAAAAGAAATGCCGATCTA	AAAAA	-	5600
4.16	.A..A..	-	-	-	-	5554

Supplemental Figure S9



Supplemental Figure S9

MutsuDr5	AAGTACCTGAAAGGAAGCAACTGTAATAC	TA-A-A-	C	G-T		G	474
5.1	- - - G.G.	- G.G. GG- GAA-	A-A	A	- A	G	G- AAAC
5.2	.	.	.	.	.	.	33
5.3	.	.	.	.	.	.	266
5.4	.	.	.	.	.	.	475
5.5	.	.	.	.	.	.	476
5.6	.	.	.	.	.	.	475
5.7	.	.	.	.	.	.	-
5.8	.	A . G.G. TAAAGTTGGTTTATATT	. ACACATTC	. GAC	. TTCCCCTTAATAATATAATTTCTTTAAA	. TATTATTTGCAAAC	549
5.9	.	.	.	.	.	.	270
5.10	.	G	.	.	.	.	267
5.11	.	.	.	.	.	.	475
MutsuDr5	560	580	600	620	640	660	
5.1	- AA- - C-A- - CA- -	GCAC- - GA- GG- A- -	G- -	G- A- G- AAA- - CA- -	AA- -	CA- T- -	G- - GCTAA- - C-
5.2	.	.	.	.	.	.	69
5.3	.	.	.	.	.	.	266
5.4	.	.	.	.	.	.	475
5.5	.	.	.	.	.	.	476
5.6	.	.	.	.	.	.	475
5.7	.	.	.	.	.	.	-
5.8	CTAAATAGCGAAATCATATTAGCACTCAATGACTATCAAAGTACAACATTGTTCACAGTCAAATAAACAGTGTAAATGTTTTCAAGTCACACTGCATGCTAATTCT						660
5.9	.	.	.	.	.	.	270
5.10	.	.	.	.	.	.	267
5.11	.	.	.	.	.	.	475
MutsuDr5	680	700	720	740	760		
5.1	AT- G- -	GAACGACAAGAAAATCAGCAACAGGAAAGACAACATGAAAGGAGAGGAAAGAAGTACTTGAAGGAAGCAACTGTAATACTAAC	TGG	.	.	G- - ACAAAAGT	482
5.2	.	.	.	.	.	AAAC.T- GG.C.AA	167
5.3	.	.	.	.	.	.	279
5.4	.	.	.	.	.	CTAAAC.TGG	483
5.5	.	.	.	.	.	.	484
5.6	.	.	.	.	.	.	483
5.7	.	.	.	.	.	.	-
5.8	ATTGAATATTCAAAGTAACATGGTAAACAATATAAGAGACTTCTAAATGAACGAATGTGCAATATAAAACTAACTTACCTC	- TATCTGTAAATACTAAC	T.GG	.	.	CTAAAC.TGG	770
5.9	.	.	.	.	.	.	287
5.10	.	.	.	.	.	CTAAAC.TGG	284
5.11	.	.	.	.	.	.	483
MutsuDr5	780	800	820	840	860	880	
5.1	AAAAGAGGTGAGAGTTTCAGACATTATAAGGCGTTAACAGAAAAATGTGGACATGGGAGAATTGGCAATAAGACCGAGAAAGGACAAGAATATGAAATAACTT	AGA					593
5.2	GT..A..AG.T	.	.	.	.	.	278
5.3	.	.	.	.	.	.	390
5.4	.	.	A	.	.	.	594
5.5	.	.	.	.	.	.	595
5.6	.	.	.	.	.	.	594
5.7	.	.	.	.	.	.	-
5.8	.	.	A	.	.	.	881
5.9	.	C	.	.	.	.	398
5.10	.	TA	.	.	A	.	395
5.11	.	.	.	.	.	.	594

Supplemental Figure S9

	900	920	940	960	980	
MutsuDr5	AGAGGAAGAAACTTGTGACAAACTGATTGATGGACTAACATAAATGAAGAGAACTGTGAAGTTAAAATGTTACAAAACAGAGACTATGTTGTCCCTTATGCAC TTGCC	704				
5.1	.	.	.	.	.	389
5.2	.	.	.	.	.	501
5.3	.	.	.	.	.	705
5.4	.	.	.	.	.	710
5.5	.	.	.	.	.	706
5.6	.	.	.	.	.	705
5.7	-	.	.	.	.	-
5.8	.	.	.	.	.	992
5.9	.	.	.	.	CA.	509
5.10	.	.	.	T.	A.	506
5.11	.	.	.	.	.	705
	1,000	1,020	1,040	1,060	1,080	1,100
MutsuDr5	TGTTTATCTGGAGGATAGTGTAAATTAGAAAAATTGGATGGATGGGTGTTAGCCCCCTTATCAAAAATTAAAGGAGGACATATCCGGGCACTGAGATTGAGGATGGGAC	815				
5.1	.	.	.	.	.	500
5.2	.	.	.	.	.	612
5.3	.	.	.	.	.	816
5.4	.	.	.	A.	.	821
5.5	.	.	.	.	.	817
5.6	.	.	.	.	.	816
5.7	-	.	.	.	.	-
5.8	.	T.	A.	.	.	1103
5.9	.	T.	.	.	.	620
5.10	.	T.	.	.	.	617
5.11	.	T.	.	.	.	816
	1,120	1,140	1,160	1,180	1,200	1,220
MutsuDr5	AAGGTTCATAAAGACACGGTTCCCAAGGAGGTGGCTTCGCTTCATATAGCACGAAGTTGAAACGGCAGAAGGACCACAATATTCGGGTGATGCCACAGCCACCAAGT	926				
5.1	.	.	.	.	.	611
5.2	.	T.	.	.	.	723
5.3	.	.	.	.	.	927
5.4	.	T.	.	.	.	932
5.5	.	.	.	.	.	928
5.6	.	.	.	.	.	927
5.7	-	.	.	.	.	-
5.8	.	T.	.	T.	.	1214
5.9	.	.	.	.	.	731
5.10	.	.	A.	A.	.	725
5.11	.	.	.	.	.	927
	1,240	1,260	1,280	1,300	1,320	
MutsuDr5	TAAGACTTGTAGGCTGTATGAGCCCGGAGCATGTGATGAAGGACTGCCAGACTTTAGGTGCTTAAGTGCAGAAAGAGGACATTGCAAGAAACTGTGATGCAAT	1037				
5.1	.	.	.	.	.	722
5.2	.	.	.	.	.	834
5.3	.	.	.	.	.	1038
5.4	.	.	.	.	.	1043
5.5	.	.	.	.	.	1039
5.6	.	.	.	.	.	1038
5.7	-	.	.	.	.	-
5.8	.	G.	.	.	.	1325
5.9	.	.	A.	.	.	842
5.10	.	.	A.	.	A.	836
5.11	.	.	T.	.	.	1038

Supplemental Figure S9

	1,340	1,360	1,380	1,400	1,420	1,440	
MutsuDr5	TAAATGCCCGGAATGCCTCCAAATTAGCAAAATGTGAATGTTGGATGGAGGCAGAGGAAGGAGAAGAGAGAACAGATAAGCAGGCAAGTCATAAAAGTAAACAATGT	1148					
5.1	.				G.....	833	
5.2	.			A.....		945	
5.3	C.....			A.....		1149	
5.4	.			A.....		1154	
5.5	.			A.....		1150	
5.6	C.....			A.....		1149	
5.7	-			A.....		88	
5.8	C.....			A.....	A.....	1436	
5.9	.	A.....		A.....	G.....	953	
5.10	.	A.....		A.....	G.....	947	
5.11	.					1149	
	1,460	1,480	1,500	1,520	1,540		
MutsuDr5	AGAACAAAATGAAGGAGAAGAACAGCAGGAGTTTACAACCAAAGACTTACTGAAAGAGATAACAAATGAAAAAGAAATTCAAGAGGATAAGAAAATGCATAAGAGGAA	1259					
5.1	.			T.....	G.....	944	
5.2	.	T.....	C.....	A.....		1056	
5.3	.	T.....	C.....	A.....	G.....	1260	
5.4	.	T.....	C.....	A.....		1265	
5.5	.			G.....		1261	
5.6	.			G.....		1260	
5.7	.	T.....	C.....	A.....		199	
5.8	.					1544	
5.9	.	T.....	A.....	T.....	T.....	1064	
5.10	.	T.....	T.....	T.....		1058	
5.11	.		T.....	G.....		1260	
	1,560	1,580	1,600	1,620	1,640	1,660	
MutsuDr5	TAATGAAGATGACATTTTT-GTGAAGAAAGACATGAAGAAGAGAGAGGAAAATGCAAAATGAAGCAAATGAAAGACTGATATTGAAAGAAAGGGAGAGGCAAACGCTT	1369					
5.1	.						1054
5.2	.	T.....					1167
5.3	.						1370
5.4	.						1375
5.5	.				A.....		1371
5.6	.						1370
5.7	.						309
5.8	.		A.....				1654
5.9	.	C.....	-	T.....	G.....		1172
5.10	.	-	-				1168
5.11	C.....	-	-				1370
	1,680	1,700	1,720	1,740	1,760		
MutsuDr5	TCAAAGAAACTGAAAAAGAGAAGAGGATAATGAAAACATAGAAATGGAAACAATGGACAACCTCAGATGTGTGGAGACAATGAGGTGAAGACTGGACAAAGAAATG	1480					
5.1	.						1165
5.2	.	A.....		T.....	C.G.....		1278
5.3	.						1481
5.4	.	AG.....		T.....			1486
5.5	.	G.....	G.....				1482
5.6	.						1481
5.7	.	AG.....		T.....	A.....		420
5.8	.		A.....	T.....			1765
5.9	.	-A.G.....	-				1278
5.10	.	A.....	-				1274
5.11	.	-	-				1481

Supplemental Figure S9

	1,780	1,800	1,820	1,840	1,860	1,880	
MutsuDr5	AAGAAAAAA-	GTAATGAAATTGGAAGAGAAGAAGAAATTAAAATGGACAGAGAGGAGAGAAGAACATTCAAGAAGGACATTAAGATTAAACCTAATCTAGAAAGTACA					1590
5.1	.	-					1275
5.2	.	-					1388
5.3	.	-					1591
5.4	.	-		TA			1596
5.5	.	-					1592
5.6	.	-					1591
5.7	.	-					530
5.8	.	-					1875
5.9	.	-		A		A	1388
5.10	.	-					1384
5.11	.	A					1592
	1,900	1,920	1,940	1,960	1,980		
MutsuDr5	AAGAGAAAATTGACTACAAGAATGAAAAACATGAACAGATATGAAGTGTTAAGGAAATGGAGGGAGATGATGAGTAATAATGATTTTAGGTTTTAAT- TTTATTTTA						1700
5.1	.	T		A			1385
5.2	.	-					1498
5.3	.	-					1701
5.4	.	T				C	1706
5.5	.	-					1702
5.6	.	-				C	1701
5.7	.	-					640
5.8	.	-	A			A..AA..T	1985
5.9	.	-					1499
5.10	.	-					1494
5.11	.	T					1702
	2,000	2,020	2,040	2,060	2,080	2,100	
MutsuDr5	TTTCCTTTAATGGTTTAAATGTGTATCTTTAATGCAAGAGGTATGATGGAAAAAGGGAAATTGAGAAAATAAGAGAAAATGTAAAAATAAGGACATGATAGTATT						1811
5.1	.	-				C	1496
5.2	.	-		C			1609
5.3	.	-					1812
5.4	.	-	C		T		1817
5.5	.	-					1813
5.6	.	-		C			1812
5.7	.	-					751
5.8	.	-					2096
5.9	A..TG	-					1610
5.10	.	A			C		1605
5.11	.	-					1813
	2,120	2,140	2,160	2,180	2,200	2,220	
MutsuDr5	CAAGAAACAACTGGAAAGATTATGTAATGGAAGATTAAAAAGAAGTGGAGGGGGATATCTTATATAACAATGGTATGGCAAATCTGGAAAGAGGGGTGGCATTTTA						1922
5.1	.	-	T				1607
5.2	.	-	A			T	1720
5.3	.	-					1923
5.4	.	-			A		1928
5.5	.	T..A					1924
5.6	.	-			T		1923
5.7	.	-					862
5.8	.	-					2207
5.9	.	-					1721
5.10	.	-					1716
5.11	.	-					1924

Supplemental Figure S9

	2,240	2,260	2,280	2,300	2,320	
MutsuDr5	ATAAAAAAA-GATGTTTTAATATTAAAAAAATCGTGATAAGACAATAATGAAAGTGTAGTGTAGAAGTAACATGAAGGACAAGAAATGATTATAGCCAATAT					2032
5.1	.....-.....A.....	C.....				1717
5.2	.....-.....	T.....				1830
5.3	.....-.....	T.....				2033
5.4	T.....	A.....	C.....			2038
5.5	.....-.....A.....	C.....	T.....			2034
5.6	.....-.....	T.....				2033
5.7	T.....					972
5.8	.....-.....A.....	C.....				2317
5.9	.....A.....	T.....	C.....			1832
5.10	.....-.....T.....	C.....				1826
5.11	.....-.....A.....					2034
	2,340	2,360	2,380	2,400	2,420	2,440
MutsuDr5	ACATGCACCAACGGAAGAGAAAGATAAAAAGAGTTTTAAGATTTAAATAAGGTATTGAGAGATATAAAAATAATAATGGTAGGAGATTTAACAGTTTAA					2143
5.1	.A.....					1828
5.2	.....T.....					1941
5.3						2144
5.4	.....T.....		C.....			2149
5.5						2145
5.6						2144
5.7	.....T.....		C.....			1083
5.8						2428
5.9						1943
5.10						1937
5.11						2145
	2,460	2,480	2,500	2,520	2,540	
MutsuDr5	TAAACAAGACATGGCAGATGGAATGGTTTTAAATCTGACACAGCAAGGAAAGAACTAAAGGAGCTAATAAAAGAAAATAATTAAAGACATATGGAGGGAAAATAACAA					2254
5.1	.....					1939
5.2	.....	C.....		T.....		2052
5.3	.....				A.....	2255
5.4						2260
5.5						2256
5.6					A.....	2255
5.7						1194
5.8	.....C.....					2539
5.9						2054
5.10						2048
5.11						2256
	2,560	2,580	2,600	2,620	2,640	2,660
MutsuDr5	AGAAAAAAAGAGAGTTTCAAGGAGACAAATAGTTGGAGATTTATATGTCACAAACAAGAATAGATTTATATTGTACTAGGAATATTGAGAATTTATAGAAAACATACA					2365
5.1	.....				G.....	2050
5.2	.....		T.....			2163
5.3	.....					2366
5.4	.....					2371
5.5	.....					2367
5.6	.....	T.....				2366
5.7						1305
5.8						2650
5.9					T.....G.....	2165
5.10					TG.....	2159
5.11						2367

Supplemental Figure S9

	2,680	2,700	2,720	2,740	2,760	
MutsuDr5	GTATGAAGAGAACAGTTAGTGATCATAGCTTGCATTTAAAGTGAATGTAGATAACATACAAAAGGACCAGGAACCTGGATTTAACACAAACCATTTAAAAAA	2476				
5.1	.					2161
5.2	.					2274
5.3	.					2477
5.4	.					2482
5.5	.					2478
5.6	.					2477
5.7	.					1416
5.8	.A.	T				2761
5.9	.		A.			2276
5.10	.		AC			2270
5.11	T					2478
	2,780	2,800	2,820	2,840	2,860	2,880
MutsuDr5	TGAAGATTATGTCAAAAGTCAAAGAAATAATAGAGAAAGAAAAAGAAAATAGAATGTATGTAGAAGATAAAAGGATATGGTGGAAACACAAAATACCAAATAAGAAA	2587				
5.1	.					2272
5.2	.					2385
5.3	.			T		2588
5.4	.					2593
5.5	.					2589
5.6	.			T		2588
5.7	.					1527
5.8	.					2872
5.9	.					2387
5.10	.					2381
5.11	.					2589
	2,900	2,920	2,940	2,960	2,980	
MutsuDr5	ATACACAATCAAATATTGCGCAGTACTACAAAAGATGTAAAAAGTATACAGAAAAAGAAGTTAAAATCCTTAGAAAAGAATTAAACAAAGAAAATAAAGATATTGAAA	2698				
5.1	.	A.	T			2383
5.2	.					2496
5.3	.	T				2699
5.4	.					2704
5.5	T		G			2700
5.6	.	T				2699
5.7	.					1638
5.8	.	G				2983
5.9	.	G				2498
5.10	.	G	C			2492
5.11	T					2700
	3,000	3,020	3,040	3,060	3,080	3,100
MutsuDr5	AATCAAAGAAATAGAGCAAAATTACGAGATTAGAAGAAGACAAATAAGGGGGCAATGTTGAGGAGCAGATCTAACATACACAGTAGAAGGGGAAAATGCACGAATT	2809				
5.1	.					2494
5.2	.	A				2607
5.3	A					2810
5.4	.					2815
5.5	.					2811
5.6	A					2810
5.7	A	A				1749
5.8	.					3094
5.9	A	A				2609
5.10	.					2603
5.11	.					2811

Supplemental Figure S9

	3,120	3,140	3,160	3,180	3,200	
MutsuDr5	CTTTTTGATTTAGAGAAGCAAAGAGGTAAAGCAGGAATACTAAAGGAAATTAAAGGGAGAAATGGAAAATTGC					2920
5.1	.	.		T	.	2605
5.2	.	.		T	.	2718
5.3	.	.		T	.	2921
5.4	.	.		T	.	2926
5.5	.	.		T	.	2922
5.6	.	.		T	.	2921
5.7	.	.		T	.	1860
5.8	.	.	A	A	G	3205
5.9	.	.	A	A	T	2720
5.10	.	.	A	A	T	2714
5.11	.	.	A	A	T	2922
	3,220	3,240	3,260	3,280	3,300	3,320
MutsuDr5	TTTTTATGAAGATCTTTGAAGCAAAGGTATTGATGAAGAAAAAGAAAGGAAGATTCTAAATTATATAAAAGTAAATTAGAAAAAGATGACAACAAAGAACATGTGACAG					3031
5.1	.	.	.	C	.	2716
5.2	.	.	.	C	.	2829
5.3	.	.	.	C	.	3032
5.4	.	.	.	C	.	3037
5.5	.	.	.	C	.	3033
5.6	.	.	.	C	.	3032
5.7	.	.	.	C	.	1971
5.8	.	A	A	C	G	3316
5.9	.	A	A	C	G	2831
5.10	.	A	A	C	G	2825
5.11	.	A	A	C	G	3033
	3,340	3,360	3,380	3,400	3,420	3,440
MutsuDr5	AGAAATAGATGAAGAAGAGATTGAAATTGCAATAATCAACTAATAAAAGAAAAGTCAGGTATAGATGGAATAGGAATGAATTATATTGTTTTAAAGATATTT					3142
5.1	T	G	.	T	T	2827
5.2	.	.	.	T	.	2940
5.3	.	.	.	T	.	3143
5.4	.	.	.	T	.	3148
5.5	T	G	.	T	.	3144
5.6	.	.	.	T	.	3143
5.7	.	.	.	T	.	2082
5.8	T	.	.	T	.	3427
5.9	.	A	.	T	.	2942
5.10	.	A	.	T	.	2936
5.11	T	A	G	T	T	3144
	3,460	3,480	3,500	3,520	3,540	
MutsuDr5	AAAAGGAATACCTAAGAAGTTTTAAAGAAATTAAATGTAAGAGATGAATGAAAGAATGGGGATGGGATTAATGAAGTTAATATATAAAAGAAAAGGAGCAAAAC					3253
5.1	.	.	.	G	.	2938
5.2	.	A	G	.	G	3051
5.3	.	.	C	.	.	3254
5.4	.	.	C	.	.	3259
5.5	.	.	C	.	.	3255
5.6	.	.	C	.	.	3254
5.7	.	A	.	A	.	2193
5.8	T	.	G	.	.	3538
5.9	.	A	.	A	.	3053
5.10	.	A	.	A	.	3047
5.11	.	.	.	.	.	3255

Supplemental Figure S9

	3,560	3,580	3,600	3,620	3,640	3,660	
MutsuDr5	TGAATTACAAAATTATAGACCAATAACAATGTTGAATACAGATTTAAAGATTTAGCAAAAGTTTAGCGAATAGATTAAGGAAGTAATGCCTAAATTAATTAATCAA						3364
5.1	.	A	.	.	G	.	3049
5.2	.	A	.	.	G	.	3162
5.3	.	.	.	.	G	.	3365
5.4	.	.	.	.	G	.	3370
5.5	.	.	.	A	G	.	3366
5.6	.	.	.	.	G	.	3365
5.7	.	A	.	.	T	.	2304
5.8	.	A	.	.	.	.	3649
5.9	.	.	.	.	T	.	3164
5.10	.	A	.	.	.	.	3158
5.11	.	G	.	.	.	.	3366
	3,680	3,700	3,720	3,740	3,760		
MutsuDr5	CCAAGCATATGCAATAAAAGGGAGAGATATTGCAGATGTAACAATGAGTATTAAAGCACAATAGACTATATACAAGAAAAGAAGATGAATGGTTTTAATTAGTGTAGA						3475
5.1	.	C	.	.	T	.	3160
5.2	.	.	.	.	T	.	3273
5.3	T	G	.	.	T	.	3476
5.4	.	.	.	T	T	.	3481
5.5	T	A	.	T	T	.	3477
5.6	T	G	.	T	.	.	3476
5.7	.	A	.	T	.	.	2415
5.8	T	.	C	.	T	.	3760
5.9	.	A	.	G	T	T	3275
5.10	.	.	C	.	T	T	3269
5.11	.	.	.	.	.	.	3477
	3,780	3,800	3,820	3,840	3,860	3,880	
MutsuDr5	TTTGAAAAGGCTTTGACAGAGTAGAACATACTTACTTGTACTCAAAACATTGGATTGGAGAGAATTATTAAATTGGATAAAATTATATAAAAGGGC						3586
5.1	.	C	.	.	.	.	3271
5.2	.	.	.	.	.	.	3384
5.3	.	.	G	.	.	.	3587
5.4	.	T	.	.	.	.	3592
5.5	C	.	G	.	.	.	3588
5.6	.	.	.	.	.	.	3587
5.7	C	.	.	.	.	.	2526
5.8	C	.	.	.	.	G	3871
5.9	.	.	.	.	C	.	3386
5.10	.	C	.	.	.	.	3380
5.11	.	C	-	.	.	C	3584
	3,900	3,920	3,940	3,960	3,980		
MutsuDr5	TTTAACAAAAGTAAATGTAATGGTTTTAACAGATTGTTAAATTACAAGATCGATTAGACAAGGATGCTCTTCAGCGCTATTATATTCCCTAGTCGACAACC						3697
5.1	.	C	.	.	T	.	3382
5.2	.	C	.	A	.	.	3495
5.3	.	.	.	.	.	.	3698
5.4	.	C	A	.	A	A	3703
5.5	.	.	.	.	.	A	3699
5.6	.	.	.	.	.	.	3698
5.7	T	.	A	.	.	.	2637
5.8	.	.	A	.	.	.	3982
5.9	.	.	A	.	.	.	3497
5.10	.	.	A	.	.	.	3491
5.11	.	.	.	.	.	.	3695

Supplemental Figure S9

	4,000	4,020	4,040	4,060	4,080	4,100	
MutsuDr5	TTAGGGTTAGCAATAAAACAAGAAACTAAAATTAAAGGAATAAAAATAGAAGAAGAGGAGGATGAAGGAAAAATACCACTATGCTGATGATAACACAATAATAGTGA						3808
5.1	A.						3493
5.2	.						3606
5.3	.						3809
5.4	.						3814
5.5	.						3810
5.6	.						3809
5.7	.			T.			2748
5.8	.			.			4093
5.9	.			.			3608
5.10	.			.			3602
5.11	.			.			3806
	4,120	4,140	4,160	4,180	4,200		
MutsuDr5	GGAGAAAAAGACTGTAAAAGAACCCATGAAAAAGTACAGGAGTTTGTAAGGGAACAGGAAGCAAAATAATGAAAATAACACAATATATGAGGTTGGTAAGCAGA						3919
5.1	.						3604
5.2	.						3717
5.3	T.						3920
5.4	.						3925
5.5	.						3921
5.6	T.						3920
5.7	.						2859
5.8	.		T.				4204
5.9	.		.		G.		3719
5.10	.		.		.		3712
5.11	.		.		.		3917
	4,220	4,240	4,260	4,280	4,300	4,320	
MutsuDr5	TATTTAACAGATTGTTTCAATTAGAGAAGTAGAAGAGCTGAAAATTTAGGAATTAAATTGGTAAAATGAAAGAAAAGCAACAGAAAAGATGTGGGATGATCTAAT						4030
5.1	.						3715
5.2	.						3828
5.3	.				G.		4031
5.4	C.	G.	A.	G.			4036
5.5	.		A.				4032
5.6	.		.		G.		4031
5.7	.		.				2970
5.8	.		A.				4315
5.9	.		A.				3830
5.10	.		A.				3823
5.11	.		A.				4028
	4,340	4,360	4,380	4,400	4,420	4,440	
MutsuDr5	AAGAGGAATAGAACAGATTAATTTGGAGGATGAGAGAACTTGTAAAGGGAAAGCTTAATATTAAATGTTAATGACATCAAAGCTATGGTATAATTATA						4141
5.1	.	C.	C.	T.			3826
5.2	.	C.	C.	T.	G.		3939
5.3	.	.	.	A.			4142
5.4	.	A.	C.	.			4147
5.5	.	.	.	A.			4143
5.6	.	.	.	A.			4142
5.7	.	C.	C.	T.			3081
5.8	.	.	C.	T.			4426
5.9	.	.	C.	T.			3941
5.10	.	C.	.	T.			3934
5.11	.	A.	.	.			4139

Supplemental Figure S9

	4,460	4,480	4,500	4,520	4,540	
MutsuDr5	TGTAAACAGAAATGCCATGTTGGATAGAAGGGAGATTGAAAAAGTGTGTTCAAGATTTTATGGGAGGGAAACCCCAAGAATTGCGTACAATAACATAATAGGAGCAAC					4252
5.1	.		G			3937
5.2	.			T		4050
5.3	.	C				4253
5.4	A					4258
5.5	.	C				4254
5.6	.	C				4253
5.7	.			T		3192
5.8	.	A	A			4537
5.9	A					4052
5.10	.			T		4045
5.11	.	A		T		4250
	4,560	4,580	4,600	4,620	4,640	4,660
	4,680	4,700	4,720	4,740	4,760	
MutsuDr5	AGAAGAAGGAGGGATAGGATTGATGGATTTAACAAAGGAAGAATTGCTTAGAGTCAAAATAGTTAAAAGCTTTACAAGAGGAGAACTCAACAGAATGGAAAAGGT					4363
5.1	.					4048
5.2	.		A			4161
5.3	.	T				4364
5.4	.		A			4369
5.5	.	T				4365
5.6	.	T				4364
5.7	.		A			3303
5.8	.	T	A			4648
5.9	.					4163
5.10	.		A			4156
5.11	.	T				4361
	4,680	4,700	4,720	4,740	4,760	
	4,780	4,800	4,820	4,840	4,860	4,880
MutsuDr5	TATGAAATATTTAAACAAAGTTGGCAATTAACTTAGGAGAACATTCTTGTTAAAACAAAAACTGGATGACGGAAAAGTTACCAAGGGTTTATCAAGAAAT					4474
5.1	.			T		4159
5.2	.				A	4272
5.3	.					4475
5.4	.					4480
5.5	.					4476
5.6	.					4475
5.7	.					3414
5.8	.			T		4759
5.9	.					4274
5.10	.					4267
5.11	.					4472
	4,780	4,800	4,820	4,840	4,860	4,880
	4,900	4,920	4,940	4,960	4,980	
MutsuDr5	TTTAAGTGCATGGGGAAATTTAGACGGAGTATTTACCAAGTAAGGGAGAGAAAACCTGGTAAATCAACCTTGTAAATAAAAGTATTTAAAGAAGGAA					4585
5.1	.		T			4270
5.2	.					4383
5.3	.					4586
5.4	.	T		C		4591
5.5	.				T	4587
5.6	.	T				4586
5.7	G		T			3525
5.8	.	T		T		4870
5.9	.			G	C	4385
5.10	.	T				4378
5.11	.	T		T		4583
	4,900	4,920	4,940	4,960	4,980	

Supplemental Figure S9

	4,900	4,920	4,940	4,960	4,980	
MutsuDr5	GGA	ACT	ATTTTTT	- AAAAATGGATGGATGTGGGGATT	TAAGAATAAGGGATGTTCTTTATGAATTCAAAAAGGGATT	TTAACTAAGCAATATATAGTAGACTTAATGG
5.1	.	.	A	.	T	C
5.2	.	-	A	.	.	C
5.3	.	-	A	.	A	.
5.4	.	-	A	.	C	.
5.5	.	-	C	.	.	4696
5.6	.	-	A	.	A	4696
5.7	.	-	A	.	.	4696
5.8	.	-	A	.	C	3635
5.9	.	-	A	.	.	4980
5.10	.	-	T	A	.	4495
5.11	.	-	T	.	C	4489
	5,000	5,020	5,040	5,060	5,080	5,100
MutsuDr5	AAGAAGCTAAAGAGGAATACAGTGTAAAGGAAATAGAAAATAACTGAAACGGTCAAAGGTGCCATACCAAAAAGAATGGATTACAAGAATAGAAAATATGGAAGAAGGTG	4806				
5.1	4491
5.2	T	4604
5.3	.	.	.	A	.	4807
5.4	4812
5.5	T	4808
5.6	4807
5.7	3746
5.8	T	5091
5.9	4606
5.10	4600
5.11	T	4805
	5,120	5,140	5,160	5,180	5,200	
MutsuDr5	GGAATGAAAAAAATCATACATGTCTATTTAAAAGGAAAGC	TTGTGATTTAAAGATTGTTACTGAAAGACTTTATGTGTATTTAGAGATAGTGATTTCAAGAAC	TA	4917		
5.1	.	A	.	.	.	A
5.2	.	A	.	.	.	4680
5.3	.	G	.	.	.	4918
5.4	.	A	.	.	.	A
5.5	.	G	.	.	.	4919
5.6	.	G	.	.	.	4918
5.7	.	A	.	.	.	A
5.8	.	G	G	.	.	5202
5.9	.	A	.	.	.	A
5.10	.	G	A	.	.	4711
5.11	.	.	A	T	.	4916
	5,220	5,240	5,260	5,280	5,300	5,320
MutsuDr5	TAGCAAATAACTTTGGGTACAAAGATTGAATAGTGTGAAAAGGAAAATATGAAAAACATGAGAGGGAAAATAATAGAAACAAGATTGGAATGTTGAATATTTA	5028				
5.1	4713
5.2	4680
5.3	.	.	G	.	.	5029
5.4	.	.	A	.	.	5034
5.5	.	.	G	.	.	5030
5.6	.	.	A	.	.	5029
5.7	.	.	G	.	.	3968
5.8	.	.	A	.	.	5313
5.9	.	.	A	.	.	4828
5.10	.	.	A	C	.	4822
5.11	5027

Supplemental Figure S9

	5,340	5,360	5,380	5,400	5,420	
MutsuDr5	TAAGACACAAGGAATTTACTGAGTGCATTTAACAAAGATAAGAGAGAACCAATGCAACATGTAAGGTATGTTCAAGAAGATGAAGGAATTTACACCTGTTT					5139
5.1	.					4824
5.2	-					4680
5.3	.	G				5140
5.4		T.T.	A	T		5145
5.5				T		5141
5.6	.	G				5140
5.7						4079
5.8				T	C	5424
5.9						4939
5.10						4933
5.11				T		5138
	5,440	5,460	5,480	5,500	5,520	5,540
MutsuDr5	TATACTGAAAGAATTAGAATGTTTT- ACATGAAATGCCAAAAAATGCTAAAAGATTATTGAAAGATTGGGATGAAGAACAAATTGGAATGGAATACTCTTGTGATGTTC					5249
5.1	.		A		A	4934
5.2	-					4680
5.3	-					5250
5.4						5255
5.5						5251
5.6			A	T	A	5250
5.7						4189
5.8		T.T.	C		T	5534
5.9			A		A	5050
5.10			C			5043
5.11						5248
	5,560	5,580	5,600	5,620	5,640	5,660
MutsuDr5	GGATGGAATATGGAAAACAAAAACAAAAGTTGTAAATCTTCTTATAATGATGATTTAAAGGAGAAGACATGTTACCAAGCTTATGATGTGTTAATGATGAA					5360
5.1	.				A	5045
5.2	-					4680
5.3	.	C			C	5361
5.4			G		A	5366
5.5	.	C			T	5362
5.6					C	5361
5.7				A		4300
5.8		C			C	5645
5.9		C			A	5161
5.10			G		A	5154
5.11					C	5359
	5,680	5,700	5,720	5,740	5,760	
MutsuDr5	AATGTGTGGAATGTTACTAAACGAAAATGAAAGATACATAGAAAGACTGTTACTGGTATTTAAAGGAGAACATGTTACCAAGCTTATGATGTGTTAATGATGAA					5471
5.1	.	A	T	A	T	5156
5.2	-					4680
5.3	.					5472
5.4		A	T			5477
5.5						5473
5.6	.	A				5472
5.7	.	A	T	A	T	4411
5.8						5756
5.9		A		G		5272
5.10	.	A	G	T	A	5265
5.11			CT		T	5470

Supplemental Figure S9

MutsuDr5 **GTGTATAATGTTAAGTGGTTAAAGTGAAAATGCCAAAGAGGATGTTATTTATGAAGAATGTTATTTAATGTATTTGTGAAATTCTTGAAGTATTAA** 5582
 5.1A..... 5.267
 5.2 4680
 5.3 5583
 5.4A..... 5588
 5.5A..... 5574
 5.6 5583
 5.7A..... 4522
 5.8 5867
 5.9 5383
 5.10A..... 5376
 5.11C..... 5581

5,780 5,800 5,820 5,840 5,860 5,880

MutsuDr5 **ATGTTAATGTAATGTGATTATTTAAATAAAAAAAAAAAAAAA-** 5638
 5.1G..AA.T..T.GAA...A.....AA..... 5325
 5.2 4680
 5.3T.....AAAAAA..... 5645
 5.4A....T..... 5643
 5.5 5574
 5.6T.....AAAAA..... 5644
 5.7G..AA.T..T.GAA...G..... 4578
 5.8G..... 5922
 5.9AA.AAAA...G....G..... 5423
 5.10T...G..AA.T..T.GAA...G.....G.....AAAAAA 5449
 5.11A.....A.....G.....G.....G.....AAA..... 5640

5,900 5,920 5,940

Supplemental Figure S9

MutsuDr6 GGAAATCCTCGAACCTGGTACATTCCAGGAAGTGTTGGCTGCAGTTGGAGAGAAAAGGCTCTCCCTACTCTTGTTCATTTCTTTGATTGTAAAGTATTAGAGTTA 111
 6.1 111
 6.2 111
 6.3 111
 6.4 111
 6.5 111
 6.6 111
 6.7 111

20 40 60 80 100

MutsuDr6 ATTTGTTTTTTGTGAAGTTATTTCTCCAACAGCATTAGCTGTTGGAGGAACCTATTTTCACTGGAACTCTTTGGAGTAAGCAATGGCGG 222
 6.1 222
 6.2 222
 6.3 222
 6.4 C 222
 6.5 222
 6.6 222
 6.7 222

120 140 160 180 200 220

MutsuDr6 ACGGATGCACGGCAACAAACACGGACATGGCAGGAGAAACTCGACTGGTAAAGATAATGGACTGGCAGGAGGAACCGCAAAGGCTATCGACATTGGATTAGGAGGAGAA 333
 6.1 333
 6.2 333
 6.3 333
 6.4 333
 6.5 333
 6.6 A 333
 6.7 A 333

240 260 280 300 320

MutsuDr6 CAAGCACGGCAACGACAACCGACTGGCAGGAGGAACAAGCAAGGCTAACGAAATGGACTGGATAACGACCACGAAATGGAACAAAAGTGAAGTTGC 444
 6.1 444
 6.2 T 444
 6.3 444
 6.4 444
 6.5 T 444
 6.6 444
 6.7 444

340 360 380 400 420 440

MutsuDr6 AGAGAAAATACTTGAAGGGCTACGGTATTATAAAATGTGAAACGTACTTGAGGTAAAGGCAGAAGATGTTAAAGCGATAATGGAAAAATGTGGACAAGGGAAA 555
 6.1 555
 6.2 555
 6.3 555
 6.4 G 555
 6.5 555
 6.6 555
 6.7 555

460 480 500 520 540

MutsuDr6 TGTTGGCGCTCAGACCCAGACAAGGAAAGAATATGAACGTGACCATGGAAAAGAAGAGGGAGTGTGAAAAACTTTAGAAGGACTAACAAATTATGGAGTGAACGTGTGAAG 666
 6.1 666
 6.2 666
 6.3 666
 6.4 666
 6.5 666
 6.6 666
 6.7 666

560 580 600 620 640 660

Supplemental Figure S9

MutsuDr6 TTAAAAGTTGCACAACCGAGATTATGTAGTTCTTCTTGACCTGCCTGTCACCTGGAAAATAGTATAATTGTAGAAAATTGGAAGGATGGGTGTTGAGCCACTAA 777
 6.1 777
 6.2 777
 6.3 777
 6.4 777
 6.5 777
 6.6 777
 6.7 777

MutsuDr6 CAAAAAATTAAAAGAAGATGCTACCCGGGCACTGACATCGAACAGATGGGACGAGGTTCTGAAAGTAAGGTTCCGAAGGAGGTGGCATCACTGCCCTATAGCACGAGGCTAG 888
 6.1 888
 6.2 888
 6.3 888
 6.4 888
 6.5 888
 6.6 888
 6.7 888

MutsuDr6 AACACGCCAAGGACCACAGCATTCCGGGTATGCACAGTCGGCAAGTAAAACCTTAGGCAGTGCATGAGCCCCGACCATCTGCTGAAAGACTGTCCTAATTCAAGT 999
 6.1 999
 6.2 999
 6.3 999
 6.4 999
 6.5 999
 6.6 999
 6.7 999

MutsuDr6 GCTACAGATGCGGAGAATGGGGCATTTCGACAGATCGTCACCAACTGTCAGATGCTGGAGTGTGCAGAATTCTTAGATAAAATGTGAATGTTGGATGGAAGGGAAGGAAG 1110
 6.1 1110
 6.2 1110
 6.3 1110
 6.4 1110
 6.5 1110
 6.6 1110
 6.7 1110

MutsuDr6 GAGAAAAAGAAAAACAGGTGGACAGACAGGTGCAAGAACAGGAATAAGGGAGGAAGATGCAAAACCTGAAGGAGATCAGGAGGAAGCAACACAGCAAAGAGAAATAGAAC 1221
 6.1 1221
 6.2 1221
 6.3 1221
 6.4 1221
 6.5 1221
 6.6 1221
 6.7 1221

MutsuDr6 AACTAAAGAATAACACTGGAGAAGTTGTGGATTTAATGAAGATGGAGAACGAAGGGAGGAGGAATCAAATGATGGAAATTGAGTTTCAGACATGGAGGAAATGGAC 1332
 6.1 AC 1332
 6.2 1332
 6.3 1332
 6.4 T 1332
 6.5 1332
 6.6 1332
 6.7 1332

Supplemental Figure S9

MutsuDr6	AAGAAAAAATTGAGCAAAACAAAGACATGGATTATGAAGAAGATGCAAAGGTGGACAATATGGACAAATGTATGAAAGTGAATTAAAGAAGAAGAACACTAAAGGTAAAAC	1443
6.1	.	1443
6.2	.	1443
6.3	.	1443
6.4	T-	1442
6.5	.	1443
6.6	.	1443
6.7	.	1443
	1,340 1,360 1,380 1,400 1,420 1,440	
MutsuDr6	CAAATTTGGACAATGTTAGAAAAAGGCCAAGCTAATATGTTCAATGTGTTAAGGAGTTAGAAGGGGGAAAGATGAGTAATGTATTTAAATTTTATTTTTTTTT	1554
6.1	.	1554
6.2	.	1554
6.3	.	1554
6.4	.	1553
6.5	.	1554
6.6	.	1554
6.7	.	1554
	1,460 1,480 1,500 1,520 1,540	
MutsuDr6	ATCTTTCTTTAATGGTTTTAATTGTTAGTTAATACAAGAGGTCTTTAAATGTTGAAAATTGACAAGGTAAGGAACATGCAAAAAACAAAACCTTAATTTG	1665
6.1	.	1665
6.2	.	1665
6.3	.	1665
6.4	.	1664
6.5	.	1665
6.6	.	1665
6.7	.	1665
	1,560 1,580 1,600 1,620 1,640 1,660	
MutsuDr6	TTTACAAGAGACTAATTGGAATGATGGTGTGATGGAAGATTTAAAGAAGATGGAGGGGGCAATATTTATAATAATGGTGTGGAAGGGATGGAGAGGGTCGCTAT	1776
6.1	.	1776
6.2	.	1776
6.3	.	1776
6.4	.	1775
6.5	.	1776
6.6	.	1776
6.7	.	1776
	1,680 1,700 1,720 1,740 1,760	
MutsuDr6	TTTAGTCAAAGAAGATATAAGAATGATGTTGAAACTATACAATGATAAAAGAGGGGAAATGCCCTGCTATTAGAATGAGAGAAAATAATGACATTATGTAACATTCA	1887
6.1	.	1887
6.2	.	1887
6.3	.	1887
6.4	.	1886
6.5	.	1887
6.6	.	1887
6.7	.	1887
	1,780 1,800 1,820 1,840 1,860 1,880	
MutsuDr6	TGCTCCAGTAGCAGAAAAAGAAAAGAAGGACTTTTAACAGAATAATGATCTTATGATTTATGGGCAAAATTTTAATAGGAGATTTAACACGGTTTTAATAG	1998
6.1	.	1998
6.2	.	1998
6.3	.	1998
6.4	.	1997
6.5	.	1998
6.6	.	1998
6.7	.	1998
	1,900 1,920 1,940 1,960 1,980	

Supplemental Figure S9

MutsuDr6 AATTGATTTAGCGGATGGCATGGTTTAGGAATGACACTGGGAGAAAAGAGTTGCAGAAACTAATGGCAGAGCACAAAGTAGTGGACATATGGAGAGTAAGGAATGAAGG 2109
 6.1 2109
 6.2 2109
 6.3 2109
 6.4 2108
 6.5 2109
 6.6 2109
 6.7 2109

2,000 2,020 2,040 2,060 2,080 2,100
 | | | | | |
 2,120 2,140 2,160 2,180 2,200 2,220

MutsuDr6 AAAAAGAGAATATTCAAGAACGACAGTTAGTAGATGGTAACCTAAAGCAAAGTAGGATTGATTTATTTATGCAAGGAAAACGGGTGATTTATACAGAGTGTATTT 2220
 6.1 2220
 6.2 A 2220
 6.3 C 2220
 6.4 2219
 6.5 2220
 6.6 2220
 6.7 2220

2,240 2,260 2,280 2,300 2,320
 | | | | |
 2,340 2,360 2,380 2,400 2,420 2,440

MutsuDr6 TAAAGAAACAAACGCTAACGCACCACAAGTTTTATTAATGAAGATTGATTTAATGAAACTAAAAGAGGAAAGGGATATGGATTTAAATACAGAAATTAAAAGGAGA 2331
 6.1 2331
 6.2 2331
 6.3 2331
 6.4 2330
 6.5 2331
 6.6 2331
 6.7 2331

MutsuDr6 ACCTTATAGAAAGGCAATAGTGGACTIONTAAATAACTGAAATACAAAATGAGATGTATCATGAAGATAAAAAGAATATGGGGATAACACAAAATATGAAATTAAAAGTA 2442
 6.1 2442
 6.2 2442
 6.3 2442
 6.4 2441
 6.5 2442
 6.6 2442
 6.7 2442

2,460 2,480 2,500 2,520 2,540
 | | | | |
 2,560 2,580 2,600 2,620 2,640 2,660

MutsuDr6 TACGATTAAAATGAGTAAATCAATACAAAAAGCAAAAGCACATAAGAAGTAGAGGTTAGAAAGGAATTAAATGACAGTTAAATCAAGAAAAGGTAGATAGAGAGAAT 2553
 6.1 2553
 6.2 2553
 6.3 2553
 6.4 2552
 6.5 2553
 6.6 2553
 6.7 2553

MutsuDr6 ACTGTTCTGGAGGGAGGAATTACGAAACATAGAAGAAAGAAAATGTAGAGGTGCGATGATCAGAACGAGGCCAATATATTGTGGATGGAGAGAAATGTACAAAATTCTT 2664
 6.1 2664
 6.2 2664
 6.3 A 2664
 6.4 2663
 6.5 2664
 6.6 2664
 6.7 2664

Supplemental Figure S9

	2,680	2,700	2,720	2,740	2,760	
MutsuDr6	TTTCATTTAGAGAAAAGTAAGGGTACGGAGAAATTATAAGAGAATTAAAAAGAAAATGGAGAAAAAATAAAGAAACACAGGATATTTAAAGGAAGTTAGAGATTT	2775				
6.1	.	.	.	.	.	2775
6.2	.	.	.	.	.	2775
6.3	.	.	.	.	.	2775
6.4	.	.	.	.	.	2774
6.5	.	.	.	.	.	2775
6.6	.	.	.	.	.	2775
6.7	.	.	.	.	.	2775
	2,780	2,800	2,820	2,840	2,860	2,880
MutsuDr6	TTATGAAAGCCTTTAAAAAGGTGAAATAATGAAAAAGAAGAAAAAATTATTGGATCAAATTGAGGGAAAGGTACAGAGGATGATAAAAGATGTGTGAGGA	2886				
6.1	.	.	.	.	.	2886
6.2	.	.	.	.	.	2886
6.3	.	.	.	.	.	2886
6.4	.	.	.	.	.	2885
6.5	.	.	A	.	.	2886
6.6	.	.	A	.	.	2886
6.7	.	.	.	.	.	2886
	2,900	2,920	2,940	2,960	2,980	
MutsuDr6	AATACAAATAGAAGAAATAAGGAATCTATTATGCAATTAGTAATGGAAAAGTCAGGATTAGATGGATTAGTATCTGAGTTTACAAAGTTTAAGGATTTAGC	2997				
6.1	.	.	.	.	.	2997
6.2	.	.	.	.	.	2997
6.3	.	.	.	.	.	2997
6.4	.	.	.	.	.	2996
6.5	.	.	.	.	.	2997
6.6	.	.	.	.	.	2997
6.7	.	.	.	.	.	2997
	3,000	3,020	3,040	3,060	3,080	3,100
MutsuDr6	ACCAATTAAAGGAAATTGGATGAAGTTTAAAAACAAGAACACGCATTAATGAGAGTTGGTTAGTGAAACTGATATAAGAAAAAGGTGAGAAAATGA	3108				
6.1	.	.	.	.	.	3108
6.2	.	.	.	.	.	3108
6.3	.	.	.	.	.	3108
6.4	.	.	.	.	.	3107
6.5	.	.	.	.	.	3108
6.6	.	.	.	.	.	3108
6.7	.	.	.	.	.	3108
	3,120	3,140	3,160	3,180	3,200	
MutsuDr6	TTTGAGGAATTAGACCCCTAACATGCTAACACAGATTAAAGATTAGCCAAGGTATTAGCAAATAGACTAAAAAGGTCTTACCGATATTATCAAAACTAGTC	3219				
6.1	.	.	.	.	.	3219
6.2	.	.	.	.	.	3219
6.3	.	.	.	.	.	3219
6.4	.	.	.	.	.	3218
6.5	.	.	.	.	.	3219
6.6	.	.	.	.	.	3219
6.7	.	.	.	.	.	3219
	3,220	3,240	3,260	3,280	3,300	3,320
MutsuDr6	GGCATATGGCGTAAAGGAAAGATATCACAGACATAATTAGCAGTATAAGAGATGTAATACAATACATGAAAGAAAAGAGAAAAATGGATATGTAATAAGTGTAGATT	3330				
6.1	.	.	.	.	.	3330
6.2	.	.	.	.	.	3330
6.3	.	.	.	.	.	3330
6.4	.	.	.	.	.	3329
6.5	.	.	.	.	.	3330
6.6	.	.	.	.	.	3330
6.7	.	.	.	.	.	3330

Supplemental Figure S9

	3,340	3,360	3,380	3,400	3,420	3,440	
MutsuDr6	CGAGAAAGCATTTGACAGAGTTAACACAATTTCTATTGAGGTTAACATAAGGTTGGTTGGAAATAAAGATGGATCAAGTGTTATACAACGGAGCTAT						3441
6.1	.....C						3441
6.2	.....						3441
6.3	.....						3441
6.4	.....						3440
6.5	.....						3441
6.6	.....				T		3441
6.7	.....				T		3441
	3,460	3,480	3,500	3,520	3,540		
MutsuDr6	TAGTCGTATTAAGTTAACGGTTTATTACAGACTGTTAACGATCCATAAACAGGGATGCCACTCTCT	-	GCACAGCTGTACAGTCTAGTGACTGAAGCT				3550
6.1	.....		.....				3550
6.2	.....		.....				3550
6.3	.....		.....CT				3552
6.4	.....		.....				3549
6.5	.....		.....				3550
6.6	.....		.....				3550
6.7	.....		.....				3550
	3,560	3,580	3,600	3,620	3,640	3,660	
MutsuDr6	CTAGGATCAGCTATAATAAGAGATAAAGAAATACATGAAATTAAAATTGAGAACAGAAGAACAGAAATTATCAATATGCAGACGATACTACACTGATTTAAAA						3661
6.1	.....						3661
6.2	.....						3661
6.3	.....						3663
6.4	.....						3660
6.5	.....						3661
6.6	.....						3661
6.7	.....						3661
	3,680	3,700	3,720	3,740	3,760		
MutsuDr6	GATATGCAAAGTGTATAATGCAATGAAATCATTGAAAGATATTGAAATGGATCAGGTGCTAAAGTAACATGGAAAAAACTGTAGTCATGAGATTAGGCAATGCGATGT						3772
6.1	.....						3772
6.2	.....						3772
6.3	.....A						3774
6.4	.....A						3771
6.5	.....A						3772
6.6	.....						3772
6.7	.....						3772
	3,780	3,800	3,820	3,840	3,860	3,880	
MutsuDr6	ATTCTACCGGATTTAAAGACCCAGAAAGAAATAAGATTAGGATAACCTTGAGAAAATGGAAAAGAGATAAGGAGATAATGTGGATGAAATTATC						3883
6.1	.....						3883
6.2	.....						3883
6.3	.....						3885
6.4	.....						3882
6.5	.....						3883
6.6	.....						3883
6.7	.....						3883
	3,900	3,920	3,940	3,960	3,980		
MutsuDr6	GGAGGAATGAAAGGAGATTAGAACGGTGGAAACAAAGAAGAGTCATCTGAAAGTAAAGTTAACATAAACGTTGATGTTGTCAAAAATGTGGTATGTGTTAGGA						3994
6.1	.....						3994
6.2	.....				G		3994
6.3	.....						3996
6.4	.....						3993
6.5	.....				G		3994
6.6	.....				G		3994
6.7	.....						3994

Supplemental Figure S9

MutsuDr6 **GTTACCCCTATGGATCACTGGCATGAGCAGAGAATAAAACAATGTTATTGAGTTTATCTGGAGGAAACCACCAAGAATTGCATATAATGTATTAATTGGAGCAACC** 4105
 6.1 4105
 6.2 4105
 6.3 4107
 6.4 4104
 6.5 4105
 6.6 4105
 6.7 4105

MutsuDr6 **GATGATGGGGGGTAGGTTAGGTTAGACCCAGAGACAAGAAAGAAAAGCATGAGAGTCAGAGTAATAAAAAAGTATTTAATAAGAATTAAAGCCGATGGAACATGTA** 4216
 6.1 A 4216
 6.2 4216
 6.3 4218
 6.4 4215
 6.5 4216
 6.6 4216
 6.7 4216

MutsuDr6 **ATGAGGTTTATCTAACAAATGTGGGGTTAATATGAATGATGATATTTATGGATGAAACTGAAACAAGCATGATAACTGGATTCTGAATTTATAGAGAAGTT** 4327
 6.1 4327
 6.2 4327
 6.3 4329
 6.4 4326
 6.5 4327
 6.6 4327
 6.7 4327

MutsuDr6 **TTACAGGCATGGAGTGAGTTTAAATCACGGTGATTTAACCTGAAGGGAGGAACATGTTATTAAATCAACCTTGTGTTTAAATGTAATATTTAACACAAGAGAAA** 4438
 6.1 C 4438
 6.2 4438
 6.3 4440
 6.4 4437
 6.5 4438
 6.6 A 4438
 6.7 A 4438

MutsuDr6 **GAAGTATATTTAAATATTGGTGGAAAGCAGGTGTATGTCAGGTTAAGGATGTTATATGAGATTAAAGAAGGGTTTACCAAGCCAAGTAATTGGATGCCATGGAT** 4549
 6.1 T 4549
 6.2 4549
 6.3 4551
 6.4 A 4548
 6.5 4549
 6.6 4549
 6.7 4549

MutsuDr6 **GGGATTGGAAAGATATCAAAGAGAAACTCTGGAAAACAATTGAAATAGTGAAGGTGCATTACCTAAAGAATGGATAGTAAAAATTGAACAAATAATGAAAGCAAT** 4660
 6.1 4660
 6.2 4660
 6.3 4662
 6.4 A 4659
 6.5 4660
 6.6 4660
 6.7 4660

Supplemental Figure S9

MutsuDr6 GATAATGTAAAAGTGTAAAAAGGAAAGGAGATTTCAGAACATGTGTTCTAAAAATTCTACATTGTTCAGAAACAAAGTGCATAAAAGACCAGTTCAGAA 4771
 6.1 4,680
 6.2 4,700
 6.3 4,720 C 4,771
 6.4 4,740 4,773
 6.5 4,760 4,770
 6.6 4,780 4,771
 6.7 4,800 4,771
 MutsuDr6 CAATTTGGAAAAAAATCTTGTGAAATAGATGAAGAGGGAATCTGGAAGAATTAAAATGAAATTTAGATGCAAAATTGAAATTTGTTGGATTATTTATCAGACAT 4882
 6.1 4,820
 6.2 4,840
 6.3 4,860
 6.4 4,880
 6.5 4,900 4882
 6.6 4,920 4882
 6.7 4,940 4884
 MutsuDr6 AATGTTATTTCACTGAAACAAACTGGCACAAATCGAACAGCAGTGAGAATGCATTATGCAAAATATGTTGACTGGAAATGAAGGTATTATGCATTGTTTAAATGT 4993
 6.1 4,960
 6.2 4,980
 6.3 5,000
 6.4 5,020
 6.5 5,040
 6.6 5,060
 6.7 5,080 4993
 MutsuDr6 GTTGAATTAAATACATTATGGCAAAGTAAAAGAAATGATGAAACAAATGATGCCAAGTGAAACAGAGCAGATTGAGGGACACAGAATGGTATAAAATTTTATTT 5104
 6.1 5,100
 6.2 5,120
 6.3 5,140 G 5,104
 6.4 5,160 A 5,104
 6.5 5,180 G 5,106
 6.6 5,200 5,103
 6.7 5,220 5,104
 MutsuDr6 GGTTTAATGGAAGTAAGACAAGAATTGCAAATTGTTTATCAGTTGCAAGAACGTAAATTGGAAAGGAGAACATTGTTAAAATAAAATGCTAAATAGAGTTA 5215
 6.1 5,240
 6.2 5,260 A 5,215
 6.3 5,280
 6.4 5,300
 6.5 5,320 5,217
 6.6 5,320 5,214
 6.7 5,320 5,215
 MutsuDr6 TGGAAAATGTATAAAAAAAACTGGAAACTATATTAACATGTGGAACAATATTTAGAATGAAAGAAAAGAGACTGAATTACAAAACGTTATGTTGAATACTCCT 5326
 6.1 5,220
 6.2 5,240
 6.3 5,260
 6.4 5,280
 6.5 5,300
 6.6 5,320 5,326
 6.7 5,320 5,327
 MutsuDr6 TGGAAAATGTATAAAAAAAACTGGAAACTATATTAACATGTGGAACAATATTTAGAATGAAAGAAAAGAGACTGAATTACAAAACGTTATGTTGAATACTCCT 5326
 6.1 5,220
 6.2 5,240
 6.3 5,260
 6.4 5,280
 6.5 5,300
 6.6 5,320 5,326
 6.7 5,320 5,326

Supplemental Figure S9

	5,340	5,360	5,380	5,400	5,420	
MutsuDr6	TATATTATGTACACACTAGATGGTTGAAAATAGATTGCCAGAATGATTATGCTTGTGTTTCCGTAAATACCAACATAATGCTTAAGAAATGTTGAAATGAT					5432
6.1	.					5432
6.2	.	A		A		5432
6.3						5432
6.4						5432
6.5						5432
6.6		A				5432
6.7		A				5432
	5,440	5,460	5,480	5,500	5,520	5,540
MutsuDr6	ATTTAAATATGCTTCTGAACGTGATGTTTAAATGTTTAAATGTATGTATTGAAAAATTGAAATATTTCTAATAAAAAAAAAAAAAAAAAAA-					5534
6.1	.				G	AAAAAAAAAAAAAA
6.2					T	
6.3		AAAAAA	AAA.AAA.AAA-			5532
6.4						5492
6.5				T		5535
6.6					A	AA
6.7					A	5534
MutsuDr6	----- 5534					
6.1	AAAAA 5553					
6.2	----- 5532					
6.3	----- 5492					
6.4	----- 5535					
6.5	----- 5536					
6.6	----- 5534					
6.7	----- 5534					

Supplemental Figure S9

MutsuDr7 GAAATGCCTGAGGCCTATTGAGCAAGGAAGGAAGTGTAAGATTGGTAGAAGAAAGTAGTGTGAGAACACTTTGTTGAAAGCTTTTTT- CTTCTAGTTTGGA 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

MutsuDr7 TTGTTTTTTT- TT- AAGAAGACAAAAGAGGATCAAGAAGGTTTTAGTTGGAGTTTACACTCCCCACTCAGCATTGGCTGTTGGGAATCTTATTTGTTGT 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

MutsuDr7 CTACTGGACTGCTAACAGACAACGGCTAACAGCATTAAGATGGAAAAACAAAGAGGTGAGCAGATTGTAAGCATGGATGGAGATGATGCCAAGGAAGACGTGTTTCAG 330
 7.1 - 333
 7.2 - -
 7.3 - 332
 7.4 - 331
 7.5 G T 328
 7.6 - - 331

MutsuDr7 AAAAGCTAACAGTATTGGTCAAATTGGGAGAAGATAAAATTACAATGATGGAGCTTTGAAAGAAAGTAGAGAGAAGATTGGTGTGTAATTGGCTGCAGATATAAG 441
 7.1 - 444
 7.2 - A 10
 7.3 - 443
 7.4 - 442
 7.5 - 439
 7.6 - 442

MutsuDr7 AACCCAAAAGAGTATGAATTAACTATGAATGAAGAGGAAGGGAAAGAAAAAAACTGGATGGGCTGAAGATAAAAACAGCCGATAATGGTAAGGAAATAACAAACAA 552
 7.1 - 555
 7.2 - 121
 7.3 - 554
 7.4 - 553
 7.5 - 550
 7.6 - 553

MutsuDr7 GAGATGGTGGCTCTTTCTGAATCTGCCAACATACATTGAAGATGAGGAATAATTGAAAACACTGAATGGGAGTGAAAGCAGCTCACCTGTCAAAGGAGAATG 663
 7.1 - 666
 7.2 - 232
 7.3 - 665
 7.4 - 664
 7.5 - 661
 7.6 - 664

MutsuDr7 TGGCCAGGAACGGATATTGAGATGGAACAGGATTCTAAAGTTAACAGATACTGTGAAATCGCTACCATACTCAACAAAGTTGAGACGGCTGACAGGAACAGAA 774
 7.1 - 777
 7.2 - 343
 7.3 - 776
 7.4 T A G T 775
 7.5 - - 772
 7.6 - - 775

Supplemental Figure S9

MutsuDr7	CATTTAGGGTCATACATGACAGACAGGTGAAAGTCTGCAGAGTCTGTATCCAACCAGGACACATTGAAGAGACTGCCCTAACTTAAGTGTATAATGTGGCATTAG	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	GGTCATTATGTGCGCAATGTGACAAAGAAAAATGCAAGTTGTGTAAGATGGTCACTGCAATGTGTATGCGAATTCCAGAGGAAGAAATCATGGAGCTCTGGAT	996
7.1	.....	999
7.2	.....	565
7.3	.....	998
7.4	.....	997
7.5	.....	994
7.6	.....	997
	1,000 1,020 1,040 1,060 1,080 1,100	
MutsuDr7	CTATATGAAAGTGTGGAGGAGGCAATAACAGGAAAGGAAAAGATGAAGAAGATGAACAGAACATGAAGAAGATATAATGGTAGAACGAAGGGCTGGAGAAGAAGTACAAGAG	1107
7.1	C.....	1110
7.2	.....	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	CCGATGGATGACTCACAGATGCCATGGGAAATTCCCGCAGAACAGCAAGTGGTTCAAGAGGAAGAGGAATTATTATTAAGGAGGAGGGAATGGTAGAAAGGAGGTCAA	1218
7.1	A.....	1221
7.2	.....	787
7.3	A.....	1220
7.4	.....	1219
7.5	.....	1216
7.6	.....	1219
	1,240 1,260 1,280 1,300 1,320	
MutsuDr7	AAAAAAGCGAACCAAAGATGGGAGGGAGCACAAGGAAATCAAAGGGAGAGACTTCATGACAAGAATTTAGAGACACCAACTGATAACAACGGAGGAGGAAATGGACATG	1329
7.1	.....	1332
7.2	.....	898
7.3	.....	1331
7.4	.....	1330
7.5	.....	1327
7.6	A.....	1330
	1,340 1,360 1,380 1,400 1,420 1,440	
MutsuDr7	AGTGCCTGGAAATATCAAGATGCTGAAAGGAAATGAAAGGCAGTAAGAAGAGACTACAAAAAGTAAGATCTGAAGACATTTCAATGTGGTTCTCCTTTTTAT	1440
7.1	C.....	1443
7.2	.....	1009
7.3	.....	1442
7.4	.....	1441
7.5	.....	1438
7.6	.....	1441
	1,460 1,480 1,500 1,520 1,540	
MutsuDr7	ACTATATGCAATGTGACTTGCTGAAATTGCTGTTGAACTGCAATGGACTAAGAGAAATGAAAAGTTGAGAGGGTGATTAGAAAGTTCAAAACAGATGAAATTG	1551
7.1	.....	1554
7.2	.....	1120
7.3	.....	1553
7.4	.....	1552
7.5	.....	1549
7.6	.....	1552

Supplemental Figure S9

MutsuDr7	TTTGCAGAACACATTGGTCAAATGATAAAATGAGTGATATAAAAAAAGTTGGGAGAAGAGATTTATGTAATCATGGAAGTCAGAGAGCATGCGGTGTGGGATTT	1662
7.1	.T.	1665
7.2	.	1231
7.3	.	1664
7.4	.	1663
7.5	.	1660
7.6	.	1663
	1,560 1,580 1,600 1,620 1,640 1,660	
MutsuDr7	GCTTAAAAGGGAGGAATACATAATGTAAGCAAATACATAACGATGGTAATGGTAGATTGTTGGAAAGACTTCATGTATTACAATGAATCCTTAGATTGCTTAATT	1773
7.1	.	1776
7.2	.G.	1342
7.3	.	1775
7.4	.	1774
7.5	.	1771
7.6	.	1774
	1,680 1,700 1,720 1,740 1,760	
MutsuDr7	ATATGCTCCTAACATAGAAACTGAAAGAAAAGAGGTTTTAAACAAATGAAACCACTGTGCACAGGCAACTGCATAGTAGTTGGAGTTAATGTTGGTGCACAAGGCT	1884
7.1	.	1887
7.2	.	1453
7.3	.	1886
7.4	.	1885
7.5	.	1882
7.6	.T.	1885
	1,780 1,800 1,820 1,840 1,860 1,880	
MutsuDr7	TGATGTGTCAAAAGTTAAATTTAAATCAGATGCATCCAGAAGATACTTAAATGAATTAATGCAAAGTGAGAACATGGTGGATGCCTGGAGGGAGGAGAACCCATTCAA	1995
7.1	.	1998
7.2	.	1564
7.3	.	1997
7.4	.	1996
7.5	.	1993
7.6	.	1996
	1,900 1,920 1,940 1,960 1,980	
MutsuDr7	GAGGGAATTCTCAAGAAGGCAATAGTATTAGGGTTTAAACAAAGTCGTATAGACTTATGTTAGTAAAAGGGAAATATTGCAAGTATGTGAAAAATGTAAGTTAA	2106
7.1	.	2109
7.2	.	1675
7.3	.C.	2108
7.4	.	2107
7.5	.G.	2104
7.6	.T.	2107
	2,000 2,020 2,040 2,060 2,080 2,100	
MutsuDr7	GTTCATTGAAATAGGAGATCATGCTATGTTAAAGATGAGTTAAATTAGAATCAAGGGGTGGGGATGTGGTGCCTGAATGCAAGTTATTAAAAGAAGAGGC	2217
7.1	.	2220
7.2	.	1785
7.3	.	2219
7.4	.	2218
7.5	.T.	2215
7.6	.A.	2218
	2,120 2,140 2,160 2,180 2,200 2,220	
MutsuDr7	ATATAGGGAGAGCATTGAAAGATGTATAAGGTATGAAATGAAAATCCATTATTTGAAAATAATGTATGCGAGTGGTGGAGGATTGAAAGAGAAAATAAAAATAAGAAG	2328
7.1	.A.	2331
7.2	.C.	1896
7.3	.T.	2330
7.4	.	2329
7.5	.	2326
7.6	.	2329
	2,240 2,260 2,280 2,300 2,320	

Supplemental Figure S9

	2,340	2,360	2,380	2,400	2,420	2,440	
MutsuDr7	TATACGATATTCAAAACAGAGGAACCTTAAGAGAAAAATGGAGATGAAAGCATGAGAATAATTAGAGAAAAGCAGAGAAAATAGAAAACAACCTGAGTACACAAA	2439					
7.1	.						2442
7.2	.	A.					2007
7.3	.	A.					2441
7.4	.		T.				2440
7.5	.						2425
7.6	C.			A.			2440
	2,460	2,480	2,500	2,520	2,540		
MutsuDr7	AGAAAACTTCTGAGGATAAAAGGGTATTGGAGATGTATGAAACAGAAAAATGTGAAGGTGAAAGCAGGGCAAAGTATGCACTTGAAGGGGAGAGGTGTAC	2550					
7.1	.						2553
7.2	.						2118
7.3	.						2552
7.4	.				A.		2551
7.5	.						2536
7.6		2,560	2,580			2,660	2551
	2,600	2,620	2,640				
MutsuDr7	AAAATACTTCTAAATTGGAAAAGGAAAGCAGAGAAAATTACATTACAGAACTAAAAATGAAAATGGTAAAGATAACAGATTATGTAATAATTGGAAACAGT	2661					
7.1	.						2664
7.2	.						2229
7.3	.						2663
7.4	.		G.				2662
7.5	.						2647
7.6		2,680	2,700	2,720	2,740	2,760	2662
	2,780	2,800	2,820	2,840	2,860	2,880	
MutsuDr7	ACAATTATTTATGAAAGACTTTAAGAAAGAGAACATACAAACAGGAATATGTGGACAAAGTTTAAACTGTAAACGTTAACGTTAAGTGTATGAAAGAAAGGGAGACATG	2772					
7.1	.						2775
7.2	.					A.	2340
7.3	.						2774
7.4	.						2773
7.5	.						2758
7.6		T.					2773
	2,900	2,920	2,940	2,960	2,980		
MutsuDr7	TGAAAGAGATATAACATAGAAGAAATAAAACAGCAATAAAAGAAACAAAAGTGAATAAAAGTCAGGGTCAGATGGTTAACGCATGAGTTTATAAAACTTTGAAGA	2883					
7.1	.						2886
7.2	.						2451
7.3	G.						2885
7.4	G.						2884
7.5	.						2869
7.6	G.						2884
	3,000	3,020	3,040	3,060	3,080	3,100	
MutsuDr7	GATATTAACACCGATACTGATGAAATTATTAACATATGGAAGAAAGAAGAGAGATACCAGAATCACAGGTTGGGAGTAATCACCATACTTACAAGAATAAGGCAG	2994					
7.1	.						2997
7.2	.	G.					2562
7.3	.						2996
7.4	.		G.				2995
7.5	.				C.		2980
7.6	.					T.	2995
	3,000	3,020	3,040	3,060	3,080		
MutsuDr7	TCCGCTAAATTGGAAAATTAGACCTTAAGTCTTTAAACACAGATTAAAGATTCTAACAAAAATTAGCTAATAGAATAAAAAGAGTAGTGCGAAGCATAATATC	3105					
7.1	.					A.	3108
7.2	.						2673
7.3	T.						3107
7.4	.					T.	3106
7.5	.					A.	3091
7.6	G.						3106

Supplemental Figure S9

	3,120	3,140	3,160	3,180	3,200	
MutsuDr7	ACCTAATCAAGCTTATGGCATACCAGGGAGGGACATCACTGACACAATATGCACAATTAGAGATGTTGTGAGCAGCATGGACAAAGATGGAGAAGGAGGATTAATGCTATG					3216
7.1	.					3219
7.2	.					2784
7.3	.					3218
7.4	.					3217
7.5	C.					3202
7.6	.					3217
	3,220	3,240	3,260	3,280	3,300	3,320
MutsuDr7	CATTGACCTAAATAAGCATTGACAGGGTAGAACACAATTTCATGGAACAAGCAATGAGAAGATGGGTTGGAGAGAAGATTTAAATTGGATAAAGCTGTTGTATAA					3327
7.1	.					3330
7.2	.					2895
7.3	.					3329
7.4	.					3328
7.5	.					3313
7.6	.					3328
	3,340	3,360	3,380	3,400	3,420	3,440
MutsuDr7	AAATGCAAAAAGTTGTAAAAGTGAATGGAGTTAACAAACACCTTCCATTGAAAGATCAGTGAGGAGGGATGTCGTTGTAGCGATGCTATACTCAATATCTAT					3438
7.1	.					3441
7.2	.		G.	A.	.	3006
7.3	.					3440
7.4	.					3439
7.5	.					3424
7.6	.					3439
	3,460	3,480	3,500	3,520	3,540	
MutsuDr7	AGAACATCGCTGGCAACACTAGTAAAGCAAGATAAGGAAATAAGAGGAATTCAAATACCATATGGTGGTGTGAGGTTAACATCAGTACGCAGATGATAAACGTTCACAGT					3549
7.1	.					G.
7.2	.					G.
7.3	.					3551
7.4	.					A.
7.5	.					3535
7.6	.					3550
	3,560	3,580	3,600	3,620	3,640	3,660
MutsuDr7	AAGGGACATGAGAAGTATAAACGAAATAATGAATCATATAGAAGTATATGGGAAAGCATCAGGAGCTAAATCAATATAGAAAAATCTGAAATAATGAGTATAGGTGGGGT					3660
7.1	.					3663
7.2	.	G..CA				3228
7.3	.					3662
7.4	.					3661
7.5	.					3646
7.6	.					3661
	3,680	3,700	3,720	3,740	3,760	
MutsuDr7	GGGGTTGAGTGGGTGTATACCTTCAAAGTTGCAAAAGAACAAACAGTGATTCTGGAGTTAATATAGGAGTGAATACAAAAGAACAAATGCCACATGGACGGG					3771
7.1	.					3774
7.2	A.					3339
7.3	.					3773
7.4	A.		C.			3772
7.5	.					3757
7.6	.					3772
	3,780	3,800	3,820	3,840	3,860	3,880
MutsuDr7	TATCTAAATAAAATTAAAAAGTTTAGGAACTGGAAATTAGAGAATTAGACTAAAGGGAAATCACAGTTGTGAATTCTGGTTCTAACTAAATGTAACATAT					3882
7.1	.					3885
7.2	A.		G.			3450
7.3	.					3884
7.4	.	T.				3883
7.5	.					3868
7.6	.					3883

Supplemental Figure S9

MutsuDr7 TTTAGGAGCAGTTACCGGTGGGTTAAATGAGATAAAAGAGGTTCTGAATAATTCAATGGGAGGGAAAGGAGTCAAAATATCCAACAAAACATTAATAGC 3993
 7.1
 7.2 T
 7.3 T
 7.4
 7.5
 7.6 T
 4,000 3,900 3,920 3,940 3,960 3,980
 4,020 4,040 4,060 4,080 4,100

MutsuDr7 AGACTACACAGAAGGAGGTTAAAGCTGATTGATCTTAATATTAAAAAGAACATTAAGAGTGAAGAAATGAAAAACTCTATGGTAATGAGGAATTGGGTGGAA 4104
 7.1 CG
 7.2
 7.3 G
 7.4 G
 7.5
 7.6 A
 4,120 4,140 4,160 4,180 4,200
 4,140 4,160 4,180 4,200

MutsuDr7 AGGTTTTATGAGAGAAATATTGAGTAAAGTAGTGGATGTGGAGAAGAAGGGTTTCATGTCTTAAAGAACCAATGTATGAAAACATACCTGTATTTATCAAGAAGT 4215
 7.1
 7.2
 7.3 . . A . C . A
 7.4 . . C .
 7.5 . .
 7.6 . .
 4,220 4,240 4,260 4,280 4,300 4,320
 4,240 4,260 4,280 4,300

MutsuDr7 ATGCAGTGCTGGCTGAATTGTAATGAAAGTGGATATGAGTGTGAAAATATAATCAAATACATAAGCAGCCAGTATTCTGAATCAAAGATAAGATGAGAGGGAG 4326
 7.1
 7.2 A
 7.3 A
 7.4
 7.5
 7.6
 4,340 4,360 4,380 4,400 4,420 4,440
 4,360 4,380 4,400 4,420 4,440

MutsuDr7 GATGTTTATAATAGACTGTATATGAAAGCTGGAATAAGACAAGTAAAGACATGGTATATGAATTGTCAAAGGTTTACCAAACAGAGCTATTATGACTCTGTGGT 4437
 7.1
 7.2
 7.3
 7.4
 7.5
 7.6
 4,460 4,480 4,500 4,520 4,540
 4,480 4,500 4,520 4,540

MutsuDr7 GGAGTGGGATGATGAAATAAAAATCACAAAGTAGACTCTGTTGTGAAAACATCAGAGTTAGCTTACCAAAGAGATGGGTGAAATGATTGAGAGAGA-AA-GTGCCAAA 4546
 7.1 T
 7.2 T
 7.3 A
 7.4 C
 7.5
 7.6
 4,560 4,580 4,600 4,620 4,640 4,660
 4,580 4,600 4,620 4,640 4,660

MutsuDr7 CCAGGAAATTGGGAATGCCAGAAATGTTATTGTCAAAATGGAAAAAGATATGTTATCTGATGTAATAACAAAACATATGAAATTGTGAAAAGGAAATC 4657
 7.1
 7.2
 7.3
 7.4
 7.5
 7.6
 4,600 4,620 4,640 4,660

Supplemental Figure S9

Supplemental Figure S9

MutsuDr7 AAAAAAAAAAAAAAAA----- 5453
| |
5,440 5,460
7.1 AAAAAAAA 5463
7.2 AAAAAAAA 5029
7.3 ----- 5454
7.4 ----- 5443
7.5 ----- 5439
7.6 ----- 5443