

Supplementary 1

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Supplementary 2

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ACH31
TGGCGGACGGGTGAGTAACGCGTAGGGATCTGTCCATGGGTGGGGATAACTTTGGGAAACTGAAGCTAATACCGCGTGACACCTGAGGGTCAAAGGCCG 178
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ACH49	A	C	CC	G		A	192
ACH9	A	C	CC	G		A	180
ACH48	A	C	CC	G		A	180
NB29						A T	176
ACH1						A T	178
ACH2						A T	178
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ACH50						A	178
NB35	A	C	CC	G		A	180
NB46						A T	178
ACH29						A T	178
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NB34						A	176
ACH30						A	178
NB40						A T	178
NB31			C			A T	178
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ACH34						A	178
ACH23						A	183
ACH33						A	178
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ACH17						A T	178
NB44						A	178
NB37						A	178
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KF700364 A C CC G A . T 157

AB678443 A C CC G A . T 176

AB682176 G A AC GT A . TG C 157

JF514557 T A A . C GT A . T 180

AB682138 T A . C A . C T A . T 157

AB682109 T A . C A . C GT A . T 157

AB485746 T A . C A . C GT A . T 130

AB681106 A AC GT A . TG C 157

AB445099 A . C ACC GT A . T 157

NR_024819 A . C . A . . GA ACC GT A . T T TT 171

AB681381 T . A . . C AC GT A . TG C T 157

AB304089 T . A C C G A 157

AB303367 A . A C G A 157

AB818453 A 186

AB095100 C C . G A 157

HE861938 C C . G A 157

AB205217 C A 177

GU372344 T . A C G A 176

AJ419839 T . A C G A 157

DQ887338 A C G A . T 157

AM748710 A . A C G A . T T 157

NR_074276 T TG G AC A 180

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NR_113301 A . C A 157

AB499842 T . A AC GT A 177

JN411498 A . A C G A . T 191

NR_117714 A . A . C C G A . T 157

NR_114684 T . A AC GT A 177

JX013852 A 157

KF135451 A . C C . CC G A . T 176

AB024492 A C . CC G A . T 174

AB253436 A C . CC G A . T 157

NR_112952 A C . CC G A . T 157

NR_041049 A . C C . C G A . T 157

AB511277 T A . C A . C GT A . T 157

AB681065 T A . C A . C GT A . T 157

AB681860 A ACC GT A . T 157

AB485740 T A . C AC GT A . T 166

AB740269 AC GT A A 159

210 220 230 240 250 260 270 280 290 300

.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|

ACH31

AAGTCGCCTGTGGAGGAACCTGCGTTTCGATTAGCTAGTTGGTGGGGTAAAGGCCTACCAAGGCGATGATCGATAGCTGGTCTGAGAGGATGATCAGCCAC 278

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NR_108135										
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AY206688										
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AB682176										
G.....	G.....		T.....							257
JF514557										
.....	G.....		T.....							280
AB682138										
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AB682109										
.....	G.....		T.....							257
AB485746										
.....	G.....		T.....							230
AB681106										
.....	G.....		T.....							257
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.....	G.....		T.....							257
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.....	G.....		T.....							257
AB304089										
.....	G.....		T.....		T.....					257
AB303367										
.....	G.....		T.....							257
AB818453										
.....										286
AB095100										
.....					G.....					257
HE861938										
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AB205217										
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GU372344										
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AJ419839										
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DQ887338										
.....	G.....								T.....	257
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.....	G.....		T.....		T.....					257
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CP004360										
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NR_114683										
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NR_113301										
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NB34	376
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NB31	378
ACH5	378
ACH34	378
ACH23	383
ACH33	378
ACH35G.....C	378
ACH25	396
ACH10	380
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NB44	378
NB37	378
ACH8	378
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NB38	376
ACH46	378
ACH72	378
ACH47	378
ACH92	380
ACH18	377
ACH24	378
ANPH17	351
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X74066G.....C	376
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AB682109	A . . .	357
AB485746	A . . .	330
AB681106		357
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AB304089	A . . .	357
AB303367		357
AB818453	G . A . C . . .	386
AB095100		357
HE861938		357
AB205217		377
GU372344		376
AJ419839		357
DQ887338	G . . . C . . .	357
AM748710	G . . . C . . .	357
NR_074276		380
CP004360		376
NR_026435		376
NR_114683		377
NR_042762		356
NR_113301		357
AB499842	G . . . C . . .	377
JN411498		391
NR_117714	G . . . C . . .	357
NR_114684	G . . . C . . .	377
JX013852		357
KF135451	A . . .	376
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NR_041049	A . . .	357
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ACH35		G				476
ACH25						494
ACH10		G				478
ACH14						476
NB44						476
NB37		GA		T		476
ACH8						476
ACH17						488
NB38		C				474
ACH46						476
ACH72						476
ACH47						476
ACH92						478
ACH18						475
ACH24						476
ANPH17						449
NB45						474
X75620		C	TGA	T		474
AJ251110						474
NR_074292						475
AB166743		C	GA	T		476
AY669513						473
X74066		G				474
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NR_108135			G			475
EU096234						475
AY206688		C	GA	T		476
KF700364		C	GA	T		455
AB678443		C	GA	T		474
AB682176		C	GA	T		455
JF514557		C	GA	T		478
AB682138		C	GA	T		455
AB682109		C	GA	T		455
AB485746		C	GA	T		428
AB681106		C	GA	T		455
AB445099		C	GA	T		455

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AB304089
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AB303367
C.....GA.....T.....-.....-... 455

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AB095100
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AB205217
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GU372344
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AJ419839
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DQ887338
C.....GA.....T.....-.....-... 455

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NR_042762
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AB499842
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GA.....T.....C.....-... 490

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NR_114684
C.....GA.....T.....-.....-... 475

JX013852
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KF135451
C.....GA.....T.....-.....-... 474

AB024492
C.....GA.....T.....-.....-... 472

AB253436
C.....GA.....T.....-.....-... 455

NR_112952
C.....GA.....T.....-.....-... 455

NR_041049
C.....GA.....T.....-.....-... 455

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AB681065
C.....GA.....T.....-.....-... 455

AB681860
C.....GA.....T.....-.....-... 455

AB485740
C.....GA.....T.....-.....-... 464

AB740269
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510 520 530 540 550 560 570 580 590 600

....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
 ACH31
 AAGGGGGCAAGCGTTGCTCGGGATGACTGGGCGTAAAGGGCGCGTAGGCGGTTGTTACAG-TCAGATGTGAAATCCCGGGCTTAACCTGGGGGCTGCAT 575
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ANPH13	A	-	548
ANPH14	A	-	548
ANPH22	A	-	548
B44	A	-	575
ACH74	T A T TGG - G C A	575	
ACH49	T A T TGG - C A	589	
ACH9	T A T TGG - C A	589	
ACH48	T A T TGG - C A	577	
NB29	A	-	573
ACH1	A T A - T	575	
ACH2	A	-	575
ACH3	A	-	575
ACH6	A	-	575
ACH16	A	-	575
ACH19	A	-	575
ACH45	A	-	575
ACH50	T A TGG -	575	
NB35	A	-	577
NB46	A	-	575
ACH29	A	-	575
ANPH18	A	-	562
NB34	A	-	573
ACH30	T A TGG - T	575	
NB40	A	-	575
NB31	A T A - T	575	
ACH5	A T A - T	575	
ACH34	A T A - T	575	
ACH23	A	-	580
ACH33	A	-	575
ACH35	A	-	575
ACH25	T A T TGG - C	575	
ACH10	A T A - T	593	
ACH14	T A T TGG - C A	577	
NB44	A T A - T	575	
NB37	T A T G - C C A	575	
ACH8	A T A - T	575	
ACH17	A T A - T	575	
	A	-	587

NB38A.....-	573
ACH46A.....-	575
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ACH47A.....-	575
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ACH18A.....-	574
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ANPH17A.....-	548
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AJ251110A.....-	573
NR_074292T.....A.....TGG.....T.....	574
AB166743A.....AC.....T.....	575
AY669513T.....A.....T.....TGG.....C.....A.....	572
X74066T.....A.....T.....TG.....C.....A.....	573
AY829472T.....A.....T.....TG.....C.....C.....A.....	577
FJ831444T.....A.....T.....TG.....T.....C.....A.....	551
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EU096234T.....A.....TGG.....C.....AA.....	574
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KF700364T.....A.....A.G.....C.....AA.....	554
AB678443T.....A.....A.G.....C.....AA.....	573
AB682176T.....A.....AC.....A.....T.....	554
JF514557T.....A.....TAC.....A.....T.....	577
AB682138T.....A.....TAC.....A.....T.....	554
AB682109T.....A.....CA.....A.....T.....	554
AB485746T.....A.....TAC.....A.....T.....	527
AB681106T.....A.A.....TGG.....T.....	554
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AB681381T.....A.T.....G.....T.....	554
AB304089T.....A.....C.A.....T.A.....	554
AB303367T.....A.....	554
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AB205217A.....AC.....T.....	574
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AJ419839	T A T TG - C A	554
DQ887338	T A T TG - C A	554
AM748710	T A T TG - C A	554
NR_074276	T A CG - C	577
CP004360	A AC - T	573
NR_026435	A AC -	573
NR_114683	A AC -	574
NR_042762	A AC - T	553
NR_113301	A CGG -	554
AB499842	T A T TG - C A	574
JN411498	T A G T TG - C A	589
NR_117714	T A T TG - C A	554
NR_114684	T A T TG - C A	574
JX013852	A AC - G T	554
KF135451	T A A G - C AA	573
AB024492	T A T TA G - C AA	571
AB253436	T A A G - C AA	554
NR_112952	T A A G - C AA	554
NR_041049	T A - - C AA	554
AB511277	T A TAC - A T	554
AB681065	T A TAC - A T	554
AB681860	T A TAC - A T	554
AB485740	T A T TGC - A T	563
AB740269	T A - - T	556

610 620 630 640 650 660 670 680 690 700

ACH31	TTGATACGTGATGACTAGAGTGTGAGAGAGGGTTGTGGAATTCACAGTTAGAGGTGAAATTCGTAGATATTGGGAAGAACCACCGGTGGCGAAAGGCCGC	675
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ANPH13		647
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ANPH22		647
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ACH49	CCA T	688
ACH9	CCA T	688
ACH48	CCA T	676
	CCA T	676

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ACH16C.....	-.....	674
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ACH45CCA.....	-.....	674
ACH50C.....	-.....	676
NB35C.....	-.....	674
NB46C.....	-.....	674
ACH29C.....	-.....	674
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NB34C.....	-.....	661
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NB40C.....	-.....	674
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EU096234TCA.....TC.....	-.....	673
AY206688C.....TC.....	-.....	674
KF700364	...G...CAT.....TC.....	-.....	653
AB678443	...G...CAT.....TC.....	-.....	672
AB682176	...G...T...G...TC.....	-.....	653
JF514557TA.....	-.....	676
AB682138TA.....	-.....	653
AB682109ATG.....	-.....	653
AB485746TA.....	-.....	626
AB681106ACA.....	-.....	653
AB445099TA.....	-.....	653
NR_024819ATA.....CC.....A..C.....A..T.....	-.....	667
AB681381C.....	-.....	653
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AB303367C.....	-.....	653
AB818453GC.....	-.....	682
AB095100C.....	-.....	653
HE861938C.....	-.....	653
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AM748710CA.....	-.....	653
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 AB681065
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710 720 730 740 750 760 770 780 790 800

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ACH31
AACCTGG-CTCATGACTGGCGCTGAGGCGCGAAAGTGTGGGGAGCAAACAGGATTAGATACCCCTGGTA-GTCC-ACGCTGTAAACGATGTGTGCTGGATG 772
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-.....A.....C.....-.....-..... 753
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NB46A.....C.....-.....G.....-	771
ACH29A.....C.....T.....-.....-	771
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NB34A.....C.....-.....-	769
ACH30T.....A.....C.....-.....-	771
NB40A.....C.....-.....-	771
NB31T.....A.....C.....-.....-	771
ACH5T.....T.....A.....C.....-.....-	771
ACH34T.....A.....C.....-.....-	771
ACH23	.....A.....C.....-.....-	776
ACH33	.....T.....A.....C.....-.....-	771
ACH35	.....A.....C.....-.....-	771
ACH25	.....T.....A.....C.....-.....-	789
ACH10	.....A.....C.....-.....T.....-	773
ACH14	.....T.....A.....C.....G.....-.....-	771
NB44	.....T.....A.....C.....-.....-	771
NB37	.....T.....A.....C.....-.....-	771
ACH8	.....T.....A.....C.....-.....-	771
ACH17	.....A.....C.....-.....-	783
NB38	.....A.....C.....-.....-	769
ACH46	.....A.....C.....-.....-	771
ACH72	.....A.....C.....-.....-	771
ACH47	.....T.....A.....C.....-.....-	771
ACH92	.....A.....C.....-.....-	773
ACH18	.....A.....C.....-.....-	770
ACH24	.....GT.....A.....C.....-.....C.....	773
ANPH17	.....A.....C.....-.....-	744
NB45	.....A.....C.....-.....-	769
X75620	.....A.....C.....T.....-.....-	769
AJ251110	.....A.....C.....-.....-	769
NR_074292	.....A.....A.....C.....-.....-	770
AB166743	.....A.....C.....-.....-	771
AY669513	.....T.....A.....G.....C.....-.....A.....-	764
X74066	.....T.....A.....C.....-.....-	769
AY829472	.....T.....A.....C.....-.....-	773
FJ831444	.....T.....A.....C.....-.....-	747
NR_108135	.....T.....A.....C.....-.....-	770

EU096234							
.....GAT.....A.....C.....-.....-.....							770
AY206688							
.....GAT.....A.....C.....-.....-.....							771
KF700364							
.....GAT.....A.....C.....-.....-.....							750
AB678443							
.....GAT.....A.....C.....-.....-.....							769
AB682176							
.....GAT.....A.....C.....-.....-.....							750
JF514557							
.....T.....A.....C.....-.....C.....							774
AB682138							
.....T.....A.....C.....-.....-.....							750
AB682109							
.....T.....A.....C.....-.....-.....							750
AB485746							
.....T.....A.....C.....-.....-.....							723
AB681106							
.....A.....C.....-.....-.....							750
AB445099							
.....A.....C.....-.....-.....							750
NR_024819							
..T.....GGA.....A.....C.....G.....-.....-.....							764
AB681381							
.....A.....A.....C.....-.....-.....							750
AB304089							
.....GAT.....A.....C.....-.....-.....							750
AB303367							
.....A.....A.....C.....-.....-.....							750
AB818453							
.....A.....C.....-.....-.....							779
AB095100							
.....A.....C.....-.....-.....							750
HE861938							
.....A.....C.....-.....-.....							750
AB205217							
.....A.....C.....-.....-.....							770
GU372344							
.....A.....A.....C.....-.....-.....							768
AJ419839							
.....T.....A.....C.....-.....-.....							750
DQ887338							
.....T.....A.....C.....-.....-.....A.....							750
AM748710							
.....A.....C.....-.....-.....							750
NR_074276							
.....A.....C.....-.....-.....							773
CP004360							
.....A.....C.....-.....-.....							769
NR_026435							
.....A.....C.....-.....-.....							769
NR_114683							
.....A.....C.....-.....-.....							770
NR_042762							
.....A.....C.....-.....-.....							749
NR_113301							
.....A.....C.....-.....-.....							750
AB499842							
.....T.....A.....C.....-.....-.....A.....							770
JN411498							
.....A.....A.....C.....-.....-.....A.....							785
NR_117714							
.....T.....A.....C.....-.....-.....A.....							750
NR_114684							
.....T.....A.....C.....-.....-.....A.....							770
JX013852							
.....A.....C.....-.....-.....							750
KF135451							
.....GAT.....A.....C.....-.....-.....							769
AB024492							
.....GAT.....A.....NNN.....-.....-.....							767
AB253436							
.....GAT.....A.....C.....-.....-.....							750
NR_112952							
.....GAT.....A.....C.....-.....-.....							750

NR_041049

.....GAT.....A.....C.....-.....-	750
AB511277	
.....-.....T.....A.....C.....-.....-	750
AB681065	
.....-.....T.....A.....C.....-.....-	750
AB681860	
.....-.....T.....A.....C.....-.....-	750
AB485740	
.....-.....T.....A.....C.....-.....-	759
AB740269	
.....-.....A.....A.....C.....-.....-	752
120 130 140 150 160 170 180 190 200	
810 820 830 840 850 860 870 880 890 900	

.....	
ACH31	
TTGGGTGACTTTGT-CATTCAGTGTCTAG-TTAACACGATAAGCACACCGCCTGGGGAGTACGGCCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGC	870
ANPH1	
.....-.....-.....G.....	842
ANPH2	
.....-.....-.....G.....	855
ANPH10	
.....-.....-.....G.....	851
ANPH13	
.....-.....-.....G.....	842
ANPH14	
.....-.....-.....G.....	842
ANPH22	
....A..G...G..C-.....-.....G.....	842
B44	
.....A...A...-T.C.....-C...G.....	868
ACH74	
.....A...A...-T.C.....-C...G.....	883
ACH49	
.....A...A...-T.C.....-C...G.....	883
ACH9	
.....A...A...-T.C.....-C...G.....	871
ACH48	
.....A...A...-T.C.....-C...G.....	871
NB29	
....A..G...G..C-.....-.....G.....G.....	867
ACH1	
....A..G...G..C-.....-.....G.....	869
ACH2	
....A..G...G..C-.....-.....G.....	869
ACH3	
....A..G...G..C-.....-.....G.....G.....	869
ACH6	
....A..G...G..C-.....-.....G.....	869
ACH16	
....A..G...G..C-.....-.....G.....	869
ACH19	
....A..G...G..C-.....-.....G.....	869
ACH45	
....A...A...-.....-.....G.....	869
ACH50	
....A..G...G..C-.....-.....G.....	871
NB35	
....A..G...G..C-.....-.....G.....	869
NB46	
....A..G...G..C-.....-.....G.....	869
ACH29	
....A..G...G..C-.....-.....G.....	869
ANPH18	
.....-.....-.....G.....	856
NB34	
....A...A...-.....-.....G.....	867
ACH30	
.....-.....-.....G.....	869
NB40	
....A..G...G..C-.....-.....G.....	869
NB31	
.....A...A...-T.C.....C...-.....G...T.....	869
ACH5	
.....-.....-.....G.....	869

ACH34	.....-.....-.....G.....	869
ACH23	.....-.....-.....G.....	874
ACH33	.....-.....-.....G.....	869
ACH35	....A..G...G.C-.....-.....G.....	869
ACH25	.....-.....-.....G.....	887
ACH10	....A..G...G.C-.....-.....G.....	871
ACH14	.....-.....-.....G.....	869
NB44	.....-.....-.....G.....	869
NB37	.....-.....-.....G.....	869
ACH8	.....-.....-.....G.....	869
ACH17	....A..G...G.C-.....-.....G.....	881
NB38	.....-.....-.....G.....	867
ACH46	.....-.....-.....G.....	869
ACH72	.....-.....-.....G.....	869
ACH47	.....A....A...-T.C.....-C...G.....	869
ACH92	.....-.....-.....G.....	871
ACH18	....A..G...G.C-.....T...G.....	869
ACH24	....A..G...CG.CT.....-.....G.....	872
ANPH17	.....-.....-.....G.....	842
NB45	.....-.....-.....G.G.....	867
X75620	....A..G...G.C-.....G.....-.....G.....	867
AJ251110	.....G...G.C-.....-.....G.....	867
NR_074292	.....G...A.C-.CC.....-.....G.....	868
AB166743	.....-.....-.....G.....	869
AY669513	.....A....A...-C.....-C...G.....-.....-.....-.....-.....-.....	857
X74066	.....A....A...-T.C.....-C...G.....	867
AY829472	.....A...-.....-C...G.....	871
FJ831444	.....A....A...-T.C.....-C...G.....	845
NR_108135	.....-.....-.....G.....	868
EU096234	.....A....G...-T.C.....A...-C...G...C.....	868
AY206688	....AA....A...-TT.....A...-C...G...C.....	869
KF700364	.....A....A...-T.C.....A...-C...G...C.....	848
AB678443	.....A....A...-T.C.....A...-C...G...C.....	867
AB682176	.....-.....A...-C...G...C.....	848
JF514557	.....A....A...-T.C.....A...-C...G...C.....	872
AB682138	.....A....A...-T.C.....A...-C...G...C.....	848
AB682109	.....A....A...-T.C.....A...-C...G...C.....	848
AB485746	.....A....A...-T.C.....A...-C...G...C.....	821

AB681106
CA...A..-TGC.....-C...G..C..... 848

 AB445099
A...G...-T.C.....A..-C...G..C..... 848
 NR_024819
AA...A..-TT.....A..-C...GT.T.....A.....A..... 862
 AB681381
AA...A..-TT.....A..-C...G..C..... 848
 AB304089
GTG...A.C-AC.....-...G..... 848
 AB303367
AAG...G.C-TT.....-...G..... 848
 AB818453
-.....-...G..... 877
 AB095100
G...G.C-.....-...G..... 848
 HE861938
G...G.C-.....-...G..... 848
 AB205217
-.....-...G..... 868
 GU372344
A..-.....-...G..... 866
 AJ419839
A...A..-T.C.....-C...G..... 848
 DQ887338
A.....-T.....C..-...G..T..... 848
 AM748710
CA...A..-TG.....-C...G..... 848
 NR_074276
T..C.A..-A.C.....-C...G..G..... 871
 CP004360
-.....-...G..... 867
 NR_026435
-.....-...G..... 867
 NR_114683
-.....-...G..... 868
 NR_042762
-.....-...G..... 847
 NR_113301
-..C.....-...G..... 848
 AB499842
A..-.....C..-...G..T..... 868
 JN411498
A...A..-T.....C..-...G..T..... 883
 NR_117714
-.....C..-...G..T..... 848
 NR_114684
A...A..-T.....C..-...G..T..... 868
 JX013852
-.....-...G..... 848
 KF135451
A...A..-T.C.....A..-C...G..C..... 867
 AB024492
A...A..-T.C.....A..-C...G..C..... 865
 AB253436
A...A..-T.C.....A..-C...G..C..... 848
 NR_112952
A...A..-T.C.....A..-C...G..C..... 848
 NR_041049
AA...A..-TTC.....A..-C...G..C..... 848
 AB511277
A...A..-T.C.....A..-C...G..C..... 848
 AB681065
A...A..-T.C.....A..-C...G..C..... 848
 AB681860
CA...A..-TGC.....A..-C...G..C..... 848
 AB485740
A...A..-T.C.....A..-C...G..C..... 857
 AB740269
A...A..-.....-...G..... 850

910 920 930 940 950 960 970 980 990 1000

....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
 ACH31
 CCGCACAAAGCGGTGGAGCATGTGGTTTAATTTCGAAGCAACGCGCAGAACC-TTACCAGGCTTGACATGCGGAGGCTGTGTCCAGGGATGGGCATTTCTC 969

ANPH1	.....	A.....	941
ANPH2	.....	A.....	954
ANPH10	.....	A.....	950
ANPH13	.....	A.....	941
ANPH14	.....	A.....	941
ANPH22	.....	A.....	941
B44	.....	A.....	941
ACH74	.....	T- GA..... A.T. A..... AT..... C.	966
ACH49	.....	T- GA..... A.T. A..... AT..... C.	981
ACH9	.....	T- GA..... A.T. A..... AT..... C.	981
ACH48	.....	T- GA..... A.T. A..... AT..... C.	969
NB29	.....	T- GA..... A.T. A..... AT..... C.	969
ACH1	.....	A..... T.A..... A.T. A..... AT..... C.	966
ACH2	.....	A..... A.....	968
ACH3	.....	A..... A.....	968
ACH6	.....	A..... A.....	968
ACH16	.....	A..... A..... C.....	968
ACH19	.....	T- A..... A.....	968
ACH45	.....	A..... A.....	968
ACH50	.....	A..... T.A..... A.T. A.G..... AT..... C.	968
NB35	.....	A..... A.....	970
NB46	.....	A..... A.....	968
ACH29	.....	A..... A.....	968
ANPH18	.....	A..... A.....	968
NB34	.....	A..... A.....	955
ACH30	.....	A..... A.....	966
NB40	.....	..... C..... A.....	968
NB31	.....	A..... A.....	968
ACH5	.....	A..... A.....	968
ACH34	.....	..... C..... A.....	968
ACH23	.....	..... C..... A.....	968
ACH33	.....	..... C..... A.....	973
ACH35	.....	..... C..... A.....	968
ACH25	.....	..... C..... A.....	968
ACH10	.....	..... C..... A.....	986
ACH14	.....	A..... A.....	970
NB44	.....	..... C..... A.....	968
NB37	.....	..... C..... A.....	968

ACH8
C.....C.....A..... 967

ACH17
A.....A..... 980

NB38
A.....A..... 966

ACH46
A..... 968

ACH72
A..... 968

ACH47
-T...GA.....A.T...A...AT....C. 967

ACH92
T.....A.....A...AT....C. 970

ACH18
G.....A...T.....A.....C... 968

ACH24
G.....A...T.....A.....C... 971

ANPH17
A..... 941

NB45
A.....A..... 966

X75620
A.....A..... 966

AJ251110
A..... 966

NR_074292
G.....CAGT...A....CTG....C. 967

AB166743
C.....A..... 968

AY669513
G.....-T...GA.....A.T...A...AT....C. 956

X74066
-T...GA.....A.T...A...AT....C. 965

AY829472
-T...GA.....A.....C... 969

FJ831444
-T...G.T.....A.....C... 943

NR_108135
C.....A..... 967

EU096234
G.....A.....T 966

AY206688
G....ACCG..T...A....A.C....T 967

KF700364
G....AC..ACT...A....T.....T 946

AB678443
G....AC..ACT...A....A.T.....T 965

AB682176
G.....A.....C... 947

JF514557
G.....A...A....T....C. 971

AB682138
G.....A...A....T....C. 947

AB682109
G.....A...A....T....C. 947

AB485746
G.....A...A....T....C. 920

AB681106
G.....AG...A....TT....C. 947

AB445099
G.....A...A....T....C. 947

NR_024819
T....-T...G....AC..CT..A...A.T....T 960

AB681381
G.....A.....C... 947

AB304089
G....TC.....A.....C... 947

AB303367
G.....CAGT...A....CTG....C. 947

AB818453
C.....A..... 976

AB095100
A..... 947

HE861938
TC.....A..... 947

AB205217C.....A..... 967
 GU372344G.....A.....A.....T.....C. 965
 AJ419839G.....A.G.....A.....CAT.....TC. 946
 DQ887338TA.....A.T.....A.....AT.....C. 946
 AM748710-T.....T.T.....A.....C. 946
 NR_074276A.....G.AG.....A.....A.....C- 969
 CP004360C.....A..... 966
 NR_026435C.....A..... 966
 NR_114683C.....A..... 967
 NR_042762C.....A..... 946
 NR_113301C.....A..... 947
 AB499842TA.....CAAG.....A.....TTTG.....C. 966
 JN411498G.T.....A.....C. 981
 NR_117714TA.....A.T.....A.....AT.....C. 946
 NR_114684TA.....CAAG.....A.....TTTG.....C. 966
 JX013852A..... 947
 KF135451G.....AC..ACT...A.....T.....T 965
 AB024492A.....G.....AC..ACT...A.....T.....T 963
 AB253436G.....AC..ACT...A.....T.....T 946
 NR_112952G.....ACCG..T...A.....A.C.....T 946
 NR_041049G.....ACCG..T...A.....A.C.....T 946
 AB511277A.....G.....A.....A.....T.....C. 947
 AB681065A.....G.....A.....A.....T.....C. 947
 AB681860G.....A.....A.....T.....C. 947
 AB485740A.....G.....A.....A.....T.....C. 956
 AB740269G.....A.T...A.....AT.....CT 949

1010 1020 1030 1040 1050 1060 1070 1080 1090 1100

ACH31
 GCAAGAGACCTCCAGCACAGGTGCTGCATGGCTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCTC-GCCTTTAGTT 1068
 ANPH1 1040
 ANPH2 1053
 ANPH10 1049
 ANPH13 1040
 ANPH14 1040
 ANPH22 1040
 B44
G.....TT.....T-AT..... 1065
 ACH74
G.....TT..... 1080
 ACH49
G.....TT.....T-AT..... 1080

ACH9	.....G.....TT.....	T-AT.....	1068
ACH48	.....G.....TT.....	T-AT.....	1068
NB29	.....G...T.T.....	.....C.	1065
ACH1	.....	.....	1067
ACH2	.....	.....	1067
ACH3	.....	.....	1067
ACH6	.....	.....	1067
ACH16	.....	.....	1067
ACH19	.....	.....	1067
ACH45	.....G...T.T.....	.....	1067
ACH50	.....	.....	1069
NB35	.....	.....	1067
NB46	.....	.....	1067
ACH29	.....	.....	1067
ANPH18	.....	.....	1054
NB34	.....	.....	1065
ACH30	.....	.....	1067
NB40	.....	.....	1067
NB31	.....	.....	1067
ACH5	.....	.....	1067
ACH34	.....	.....	1067
ACH23	.....	.....	1072
ACH33	.....	.....	1067
ACH35	.....	.....	1067
ACH25	.....	.....	1085
ACH10	.....	.....	1069
ACH14	.....	.....	1067
NB44	.....	.....	1067
NB37	.....	.....	1067
ACH8	.....	.....	1066
ACH17	.....	.....	1079
NB38	.....	.....	1065
ACH46	.....	.....	1067
ACH72	.....	.....	1067
ACH47	.....G.....TT.....	T-AT.....	1066
ACH92	.....G...C.TT.....	T-AT.....	1069
ACH18	.....	.....	1067
ACH24	.....	.....	1070

ANPH17	.....-	1040
NB45	.....-	1065
X75620	.....-	1065
AJ251110	.....-	1065
NR_074292	.....-	1066
.....G.....T.	.....-	1066
AB166743	.....-	1067
AY669513	.....-	1055
.....G.....TT.	.....T-AT	1055
X74066	.....-	1064
.....G.....TT.	.....T-AT	1064
AY829472	.....-	1068
.....G.....TTC.	.....T-AT	1068
FJ831444	.....-	1042
.....G.....A.C.	.....CT-AT	1042
NR_108135	.....-	1066
EU096234	.....-	1061
----CG.....C.	.....T-.T	1061
AY206688	.....-	1062
----CG.....C.	.....T-.T	1062
KF700364	.....-	1041
----CG.....C.	.....T-.T	1041
AB678443	.....-	1060
----CG.....C.	.....T-.T	1060
AB682176	.....-	1046
.....G.....T.	.....T-	1046
JF514557	.....-	1070
.....G.....T.	.....-	1070
AB682138	.....-	1046
.....G.....T.	.....-	1046
AB682109	.....-	1046
.....G.....T.	.....-	1046
AB485746	.....-	1019
.....G.....T.	.....-	1019
AB681106	.....-	1046
.....G.....T.	.....-	1046
AB445099	.....-	1046
.....G.....T.	.....-	1046
NR_024819	.....-	1055
----CG.....C.	.....CT-.T	1055
AB681381	.....-	1046
.....G.....T.	.....-	1046
AB304089	.....-	1046
.....G.....T.	.....-	1046
AB303367	.....-	1046
.....G.....T.	.....-	1046
AB818453	.....-	1075
.....G.....T.	.....-	1075
AB095100	.....-	1046
.....G.....T.	.....-	1046
HE861938	.....-	1046
.....G.....T.	.....-	1046
AB205217	.....-	1066
.....G.....T.	.....-	1066
GU372344	.....-	1064
.....G.....T.	.....-	1064
AJ419839	.....-	1045
.....GA.....C.	.....T-.T	1045
DQ887338	.....-	1045
.....G.....T.A.	.....CT-AT	1045
AM748710	.....-	1045
.....G.....A.	.....CT-AT	1045
NR_074276	.....-	1067
.....-.....CT.T.	.....-	1067
CP004360	.....-	1065
.....G.....T.	.....-	1065
NR_026435	.....-	1065
.....G.....T.	.....-	1065
NR_114683	.....-	1066
.....G.....T.	.....-	1066

NR_042762 1045

NR_113301 1046

AB499842 1046

.....G.....T.A.....CT-AT..... 1065

JN411498 1081

.....G.....A.C.....CTWTT..... 1081

NR_117714 1045

.....G.....T.A.....CT-AT..... 1045

NR_114684 1065

.....G.....T.A.....CT-AT..... 1065

JX013852 1046

..... 1046

KF135451 1060

----CG.....C.....T-.T..... 1060

AB024492 1058

----CG.....C.....G.....T-.T..... 1058

AB253436 1041

----CG.....C.....T-.T..... 1041

NR_112952 1041

----CG.....C.....T-.T..... 1041

NR_041049 1041

----CG.....C.....T-.T..... 1041

AB511277 1046

.....G.....T.....-..... 1046

AB681065 1046

.....G.....T.....-..... 1046

AB681860 1046

.....G.....T.....-..... 1046

AB485740 1055

.....G.....T.....-..... 1055

AB740269 1048

.....G.....T.....-..... 1048

1110 1120 1130 1140 1150 1160 1170 1180 1190 1200

....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|

ACH31

GCCTTCGCGTCTGGGTGGGCACTCTAAAGGAACTGCCGGTGACAAGCCGGAGGAAGGTGGGGATGACGTCAAGTCCCTCATGGCCCTTATGTCCCTGGGCTA**** 1168

ANPH1

.....A..... 1140

ANPH2

.....A..... 1153

ANPH10

.....A..... 1149

ANPH13

.....A..... 1140

ANPH14

.....A..... 1140

ANPH22

.....A..... 1140

B44

.....G.AT..T.....G.....AG..... 1165

ACH74

.....A..... 1180

ACH49

.....G.AT..T.....AG..... 1180

ACH9

.....G.AT..T.....AG..... 1168

ACH48

.....G.AT..T.....AG..... 1168

NB29

.....G.AT..T.....G..... 1165

ACH1

.....G.A..... 1167

ACH2

.....G.A..... 1167

ACH3

.....G.A..... 1167

ACH6

.....G.A..... 1167

ACH16

.....G.A.....A..... 1167

ACH19

.....G.A..... 1167

ACH45	.....G.AT..T.....	1167
ACH50	.....G.A.....	1169
NB35	.....G.A.....	1167
NB46	.....G.A.....	1167
ACH29	.....G.A.....	1167
ANPH18	.....A.....	1154
NB34	.....A..T.....G.....	1165
ACH30	.....G.A.....	1167
NB40	.....A..T.....G.....	1167
NB31	.....G.A.....	1167
ACH5	.....A..T.....G.....T.....	1167
ACH34	.....A..T.....G.....	1167
ACH23	.....A..T.....G.....	1172
ACH33	.....A..T.....G.....	1167
ACH35	.....A..T.....G.....	1167
ACH25	.....A..T.....G.....	1185
ACH10	.....G.A.....	1169
ACH14	.....A..T.....G..G.....	1167
NB44	.....A..T.....	1167
NB37	.....A..T.....G.....	1167
ACH8	.....A..T.....G.....	1166
ACH17	.....A..T.....G.....	1179
NB38	.....G.AT..T.....G..AG.....	1165
ACH46	.....A.....	1167
ACH72	.....A.....	1167
ACH47	.....G.AT..T.....AG.....	1166
ACH92	.....G.AT..T.....AG.....C.....	1169
ACH18	.....A.....	1167
ACH24	.....A.....	1170
ANPH17	.....A.....	1140
NB45	.....G.A.....	1165
X75620	.....G.A.....	1165
AJ251110	.....G.A.....	1165
NR_074292	.....G.AT..AT.....	1166
AB166743	.....A.....	1167
AY669513	.....G.AT..T.....AG.....	1155
X74066	.....G.AT..T.....AG.....	1164
AY829472	.....G.AT..T.....AG.....	1168

NB31	..... TG . T . CA C A	1267
ACH5	..... T A C T	1267
ACH34	..... T A C T	1267
ACH23	..... T A C T	1272
ACH33	..... T A C T	1267
ACH35	..... T A C T	1267
ACH25	..... T A C T	1285
ACH10	..... T G . A C AT	1269
ACH14	..... G T A C T	1267
NB44	..... TG . T . CA C A	1267
NB37	..... T A C T	1267
ACH8	..... TG . T . CA C A	1266
ACH17	..... T A C T	1279
NB38	..... T . T . TG . T . CA . A . T . T T	1265
ACH46	..... TG . T . CA C A	1267
ACH72	..... TG . T . CA C A	1267
ACH47	..... T . . ATG CAT . T . T T	1266
ACH92	..... T . . ATG CAT . T . T T	1269
ACH18	..... TG . T . CA C A	1267
ACH24	..... TG . T . CA C A	1270
ANPH17	..... T A C T	1240
NB45	..... T A C T	1265
X75620	..... T A C T	1265
AJ251110	..... T A C T	1265
NR_074292	..... T A C T	1266
AB166743	..... T A C A	1267
AY669513	..... T . . ATG CAT . T . T T	1255
X74066	..... T . . ATG CAT . T . C T A	1264
AY829472	..... T . . ATG . T . . CAT . AT . T T	1268
FJ831444	..... A A T . . ATG CAT . T . T A T	1242
NR_108135	..... T A C T	1266
EU096234	..... T . . ATG . T . . CAT . AT . T T T	1261
AY206688	..... T . CATG . T . . CATG . T . T T T	1262
KF700364	..... T . T . TG . T . CA . A . T . T T T	1241
AB678443	..... T . T . TG . T . CA . A . T . T T T	1260
AB682176	..... T T T A G	1246
JF514557	..... T . . ATG . T . . CAT . T . C T T	1270
AB682138	..... T . . ATG . T . . CAT . T . C T T	1246

AB682109	.....T..ATG.T..CAT.AT..C.....T.....T.....	1246
AB485746	.....T..ATG.T..CAT.AT..C.....T.....T.....	1219
AB681106	.....T..A.....T.AT..C.....T..A.....	1246
AB445099	.....T..ATG.T..CAT..T..C.....T.....T.....	1246
NR_024819	.....A.....T.CATG.T..CATGAT..C.....A..A.....	1255
AB681381	.....T..A...T...T.AT..T.....T..A.....T.....	1246
AB304089	.....T.T.TG.T..CA.AAT..T.....T.....	1246
AB303367	.....T.T.TG.T..CA.AAT..T.....T.....	1246
AB818453	.....T.....A.....C.....A.....	1275
AB095100	.....	1246
HE861938	.....	1246
AB205217	.....T.....A.....C.....A.....	1266
GU372344	.....T.....A.....	1264
AJ419839	.....T..ATG...CAT..T..T.....A..A.....	1245
DQ887338	.....T..ATG.T..CAT..T..T.....T.....	1245
AM748710	.....T..ATG...CAT..T..T.....T.....	1245
NR_074276	.....T.....T.....AT..T.....A.....	1267
CP004360	.....T.....A.....C.....A.....	1265
NR_026435	.....TG.T..CA.....C.....A.....	1265
NR_114683	.....TG.T..CA.....C.....A.....	1266
NR_042762	.....T.....A.....C.....A.....	1245
NR_113301	.....T.....A.....C.....A.....	1246
AB499842	.....T...TG.T..CA..AT..T.....T.....	1265
JN411498	.....T..ATG...CAT..T..T.....T...A.....T.....	1281
NR_117714	.....T..ATG...CAT..T..T.....T.....	1245
NR_114684	.....T...TG.T..CA..AT..T.....T.....	1265
JX013852	.....TG.T..CA.....C.....A.....	1246
KF135451	.....T.T.TG.T..CA.A.T..T.....T.....T.....	1260
AB024492	.....T.CATG...CATG.T..T.....T.....N.....T.....	1258
AB253436	.....T.T.TG.T..CA.A.T..T.....T.....T.....	1241
NR_112952	.....T.T.TG.T..CA.AAT..T.....T.....T.....	1241
NR_041049	.....T.CATG.T..CATG.T..T.....T.....T.....	1241
AB511277	.....T..ATG.T..CAT..T..C.....T.....T.....	1246
AB681065	.....T..ATG.T..CAT..T..C.....T.....T.....	1246
AB681860	.....T..ATG.T..CAT.AT..C.....T.....T.....	1246
AB485740	.....T..ATG.T..CAT.AT..C.....T.....T.....	1255
AB740269	.....G.....T.....T.....A.....	1248

1310 1320 1330 1340 1350 1360 1370 1380 1390 1400

....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
ACH31
GCATGAAGGTGGAATCGCTAGTAATCGCGGATCAGCATGCCGCGGTGAATACGTTCCCGGGCCTTGACACACCGCCCGTCACACCATGGGAGTTGGTTT 1368
ANPH1
..... 1340
ANPH2
..... 1353
ANPH10
..... 1349
ANPH13
..... 1340
ANPH14
..... 1340
ANPH22
..... 1340
B44
..... 1365
ACH74
..... 1380
ACH49
..... 1380
ACH9
..... 1368
ACH48
..... 1368
NB29
..... 1365
ACH1
..... 1367
ACH2
..... 1367
ACH3
..... 1367
ACH6
..... 1367
ACH16
..... 1367
ACH19
..... 1367
ACH45
..... 1367
ACH50
..... T. 1367
NB35
..... 1369
NB46
..... 1367
ACH29
..... 1367
ANPH18
..... 1354
NB34
..... 1365
ACH30
..... 1367
NB40
..... 1367
NB31
..... 1367
ACH5
..... 1367
ACH34
..... 1367
ACH23
..... 1372
ACH33
..... 1367
ACH35
..... 1367
ACH25
..... 1385

ACH10	.....	1369
ACH14	.....	1367
NB44	.....	1367
NB37	.....T.....	1367
ACH8	.....	1366
ACH17	.....	1379
NB38	.....	1365
ACH46	.....	1367
ACH72	.....	1367
ACH47	.....	1366
ACH92	.....	1369
ACH18	.....	1367
ACH24	.....	1370
ANPH17	.....	1340
NB45	.....	1365
X75620	.....	1365
AJ251110	.....	1365
NR_074292	.....	1366
AB166743	.....	1367
AY669513	.....C	1355
X74066	.....	1364
AY829472	.....	1368
FJ831444	.....	1342
NR_108135	.....	1366
EU096234	.....C	1361
AY206688	.....C	1362
A.....	.....C	1341
KF700364	.....C	1360
A.....	.....C	1346
AB678443	.....	1370
A.....	.....C	1346
AB682176	.....	1346
JF514557	.....	1346
AB682138	.....	1319
AB682109	.....	1346
AB485746	.....	1346
A.....	.....C	1346
AB681106	.....	1355
AB445099	.....T.....A.....	1346
NR_024819	.....	1346
AB681381	.....	1346
AB304089	.....C	1346
.....	.....C	1346

AB303367	.....	1346
AB818453	.....	1375
AB095100	.....	1346
HE861938	.....	1346
AB205217	.....	1366
GU372344	.....	1364
AJ419839	.....	1345
DQ887338	.....	1345
AM748710	.....	1345
NR_074276	.....	1367
CP004360	.....	1365
NR_026435	.....	1365
NR_114683	.....	1366
NR_042762	.....	1345
NR_113301	.....	1346
AB499842	.....	1365
JN411498	.....	1381
A.....	.....	1345
NR_117714	.....	1365
NR_114684	.....	1346
JX013852	.....	1346
KF135451	.....	1360
A.....	.....G.....C	1358
AB024492	.....N.....C	1341
AB253436	.....C	1341
NR_112952	.....C	1341
NR_041049	.....C	1341
AB511277	.....	1346
AB681065	.....	1346
AB681860	.....	1346
AB485740	.....	1355
AB740269	.....	1348

1410 1420 1430 1440 1450 1460 1470 1480 1490 1500

ACH31	.....	1463
GACCTT AAGCCGGTGAGCGAACC --GCAA--GGACGCAGCCGACCACGGTCGGGTCAGCGACTGGGGTGAAGTCGTAA~CAAGGTAGCCGTAGGGGAACC	.....	1435
ANPH1	.....	1448
ANPH2	.....	1444
ANPH10	.....	1435
ANPH13	.....	1435
ANPH14	.....	1435

ANPH22	.....	~	1435
B44	.....	~	1460
ACH74	.....	~	1475
ACH49	.....	~	1475
ACH9	.....	~	1463
ACH48	.....	~	1463
NB29	.....	~	1460
ACH1	.....	~	1462
ACH2	.....	~	1462
ACH3	.....	~	1462
ACH6	.....	~	1462
ACH16	.....	~	1462
ACH19	.....	~	1462
ACH45	.....	~	1462
ACH50	.....	~	1464
NB35	.....	~	1462
NB46	.....	~	1462
ACH29	.....	~	1462
ANPH18	.....	~	1449
NB34	.....	~	1460
ACH30	.....	~	A 1462
NB40	.....	~	1462
NB31	.....	~	1462
ACH5	.....	~	1462
ACH34	.....	~	1462
ACH23	.....	~	1467
ACH33	.....	~	1462
ACH35	.....	~	1462
ACH25	.....	~	1480
ACH10	.....	~	1464
ACH14	.....	~	1462
NB44	.....	~	1462
NB37	.....	~	1462
ACH8	.....	~	1461
ACH17	.....	~	1474
NB38	.....	~	1460
ACH46	.....	CT	1460
	.....	~	1462

ACH72	.....	~	1462
ACH47	.....	~	1461
ACH92	.....	~	1464
ACH18	.....	~	1462
ACH24	.....	~	1465
ANPH17	.....	~	1435
NB45	.....	~	1460
X75620	.....A.....	~	1460
AJ251110	.....	~	1460
NR_074292	.....	~	1465
AB166743	.....CA...TG..G.....	~	1452
AY669513	.....C-...-G..G.....	~	A-----
X74066	.....G-A.....	T...C...T.TC...TGG~	1451
AY829472	.....	~	1459
FJ831444	.....	~	1463
NR_108135	.....C-...-G..G.....	~	1439
EU096234	.....	~	1461
AY206688	.....T.....	A.....	-----
KF700364	.....	A.....	1457
AB678443	.....	A.....	1436
AB682176	.....	A.....	1455
JF514557	.....	A.....	-----
AB682138	.....CG.....	~	A-----
AB682109	.....CG.....	~	1414
AB485746	.....CG.....	~	1414
AB681106	.....CG.....	~	1389
AB445099	.....CA...TG..G.....	T...T...A.....	-----
NR_024819	.....CG.....	~	1414
AB681381	.....G.....GAC.....	~	1436
AB304089	.....T.....	A.....T...A.....	-----
AB303367	.....	~	1414
AB818453	.....	~	1414
AB095100	.....	~	1470
HE861938	.....	~	1441
AB205217	.....	~	1441
GU372344	.....	~	-----
AJ419839	.....C-...-G..G.....	~	1461
DQ887338	.....	~	1440
	.....C-...-G..G.....	~	1442

AM748710									
.....	CA		TG		G				~.....
NR_074276									1444
.....	C		C-		-G				~.....
CP004360									1464
.....	--		--						~.....
NR_026435									1460
NR_114683									1461
.....	--		--						~.....
NR_042762									1440
NR_113301									1441
.....	--		--						~.....
AB499842									1460
JN411498									1478
.....	C-		-G		.G				~.....
NR_117714									1442
NR_114684									1460
.....	--		--						~.....
JX013852									1443
.....	C-		-G		.G				~.....
KF135451									1455
.....	--		--						~.....
AB024492							A		1453
.....	--		--				A		~.....
AB253436							A		1406
.....	--		--				A		-----
NR_112952							AA		1409
TT.....	--		--				AA		-----
NR_041049							A		1409
.....	--		--				A		-----
AB511277									1414
....CG.....	--		--						-----
AB681065									1414
....CG.....	--		--						-----
AB681860									1414
....CG.....	--		--						-----
AB485740									1407
....CG.....	--		--						-----
AB740269									1408
.....	--		--						-----

	1510	1520	1530	
			
ACH31	TGCGGCTGGATCACCTCCTTAATCTAGATC	-----		1493
ANPH1	.....	-----		1454
ANPH2	.....	-----		1467
ANPH10	.....	-----		1463
ANPH13	.....	-----		1454
ANPH14	.....	-----		1454
ANPH22	.....	-----		1454
B44	.....	-----		1481
ACH74	.....	-----		1496
ACH49	.....	-----		1496
ACH9	.....	-----		1484
ACH48	.....	-----		1484
NB29	.....	-----		1480
ACH1	.....	-----		1483
ACH2	.....	-----		1483
ACH3	.....	-----		1488
ACH6	.....	-----		1483
ACH16	.....GC	-----		1493
ACH19	.....T.CTCATA	-----		1498
ACH45	.....GC	-----		1493
ACH50	.....	-----		1485
NB35	.....	-----		1483
NB46	.....	-----		1483
ACH29	.....T	-----		1489
ANPH18	.....	-----		1466
NB34	.....	-----		1480
ACH30	.....C.A...A.C	-----		1493
NB40	.....	-----		1483
NB31	.....	-----		1483

ACH5	.....-----	1483
ACH34	.....-----	1483
ACH23	.....-----	1488
ACH33	.....GC-----	1493
ACH35	.....-----	1489
ACH25	.....-----	1501
ACH10	.....-----	1485
ACH14	.....-----	1483
NB44	.....-----	1483
NB37	.....-----	1483
ACH8	.....-----	1474
ACH17	.....-----	1495
NB38	.....-----	1480
ACH46	...C.GCC-----	1470
ACH72	.....-----	1483
ACH47	.....-----	1481
ACH92	.....A.....	1488
ACH18	.....-----	1483
ACH24	.....-----	1486
ANPH17	.....-----	1454
NB45	.....-----	1480
X75620	.....T-----	1481
AJ251110	.....TCAA-----	1484
NR_074292	.....T-----	1486
AB166743	.....-----	1452
AY669513	.....-----	1451
X74066	.....T-----	1480
AY829472	.....-----	1484
FJ831444	.....TC.GCG.CCGCCTTA-	1474
NR_108135	.....-----	1481
EU096234	.....-----	1445
AY206688	...N.....	1478
KF700364	.....-----	1436
AB678443	.....T-----	1476
AB682176	.....-----	1414
JF514557	.....-----	1453
AB682138	.....-----	1414
AB682109	.....-----	1414
AB485746	.....-----	1389
AB681106	.....-----	1418
AB445099	.....-----	1414
NR_024819	.....-----	1436
AB681381	.....-----	1414
AB304089	.....-----	1414
AB303367	.....-----	1414
AB818453	.....TCA-----	1493
AB095100	.....-----	1444
HE861938	.....-----	1441
AB205217	.....-----	1445
GU372344	.....-----	1478
AJ419839	.....-----	1440
DQ887338	.....-----	1442
AM748710	.....-----	1444
NR_074276	.....-----	1482
CP004360	.....T-----	1481
NR_026435	.....T-----	1481
NR_114683	.....T-----	1482
NR_042762	.....-----	1446
NR_113301	.....-----	1444
AB499842	.....-----	1480
JN411498	.....TC.AAT-----	1504
NR_117714	.....-----	1442
NR_114684	.....TCAAG.AC.GT-----	1491
JX013852	.....-----	1443
KF135451	.....TC.A-----	1479
AB024492	.....-----	1473
AB253436	.....-----	1406
NR_112952	.....-----	1409
NR_041049	.....-----	1409
AB511277	.....-----	1414
AB681065	.....-----	1414
AB681860	.....-----	1414
AB485740	.....-----	1407
AB740269	.....-----	1408

Red are conserved regions and Blue are variable regions

AY632901 GGC.GGGCAACC--T.C.....G 66
 NR_037119 GGCCGGGCAACC...--C..... 82
 NR_109297 GTGAT A GGGG--C...--CTC..... 87
 NR_042371 T A A GGGG--C...--CTC..... 83
 NR_036877 GA G...C.....G.GGGGG-C...-G.CCCCC.C... 83
 NR_104544 GGTGG-...-G.CCA.C..... 38
 NR_044188 G.GTC.G-C----AAT.GC.C... 59
 NR_029062 T GGC.G-C----AAT.C..... 78
 D45202 A A A...TTTGA-C...-G.TCAGGC..... 76
 NR_036836 GGC.G------AAT.C..... 77
 NR_025221 A T...GGC.G-C...-G.CT.C..... 53
 NR_104961 A A...TT-T-C...--ATGGC..... 61
 NR_042752 CGAGGGGGCAACCTCTCG..... 24
 KF241161 G T...GGC.T-GGCAAC-AT.C..... 82
 NR_042705 C GGC.T-GGCAAC-AT.C..... 62
 NR_042706 T A T...GGC.GGGGCAACTCT.C..... 85
 AB362219 G.GTC.G.AA.-----GC.C... 77
 NR_025852 A G.GTC.G.AA.-----GC.C... 59
 NR_025849 A GTC.G.AA.-----GC..... 59
 HQ882802 GGC.G.AA.-----C..... 79
 NR_028984 A GGC.G.AA.-----C..... 80
 NR_037120 GGC.G...-G.CT.C..... 83
 NR_025629 TA T G-ATG...-G.C-A..... 82
 NR_025221 A T...GGC.G...-G.CT.C..... 53
 NR_025583 A C A...-ATGGC...-G.CCA..... 63
 NR_041601 G--...--..... 61
 CP004360 --...--..... 80
 NR_026435 M --...--..... 80
 NR_114683 NN A --...--..... 81
 NR_042762 --...--..... 60
 NR_113301 --...--..... 61
 AB499842 --GG...--CC..... 81
 JN411498 CTGCAGGTCGCGA.T --GG...--CC..... 95
 NR_117714 --...--..... 61
 NR_114684 NN A --GG...--CC..... 81
 JX013852 --...--..... 61
 KF135451 G--.T.....A..... 80
 AB024492 G--NT.....A.C..... 78

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AB253436 -----G--.T.....A.....- 61
NR_112952 -----G--.T.....A.....- 61
EU096234 -----G--.....- 81
NR_041049 -----A.....G--.....- 81
AB511277 -----GG.....CC.....- 61
AB681065 -----G--.....G.....- 61
AB681860 -----G--...C.....G.....- 61
AB485740 -----G--...C.....G.....- 61
AB513363 -----CT.....G--..TC.....A..G.....- 70
AB740269 -----GAGT..GAT...CT.....G--.....G.....- 81
EU012448 -----G--.....- 63
X72908 -----A.....AGGC.G-----CAAT..C.....- 51
D30775 -----A....N.....GGC.G-----CAAT..C.....- 46
JN171665 -----GGC.GGGCAACC--T..C.....- 63
JQ436923 -----GGGG.....CTCG.....- 32
AY150048 -----TTAGAGT..GAT...C.....GGGTGG...GGCCAT.C.....- 88
NR_028983 -----T.....GGC.G-----AAT..C.....- 78
AB682256 -----T.....GGC.G-----AAT..C.....- 80
NR_109678 -----T.....GGC.G-----AAT..C.....- 59
AY150051 -----TT.....GGC.G-----AAT..C.....- 80
AB594201 -----T.....TG..CCCCG-----AA..GG..C...- 73
AF538712 -----TT.....GGC.G-----AAT..C.....- 79
AM691116 -----T.....G..GTC.G-----AAT.GC..C...- 74
EU290160 -----A.....T.....GTTTGG...GGCCA.GC.....- 76
AB369258 -----T.....GTC.G-----AAT.GC.....- 59
AJ535710 -----A.....C.....A...-AATGGC..GGCCAT.-.....- 63
X75620 -----TA.....-AA-...GG..TT--.....- 80
110      120      130      140      150      160      170      180      190      200
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
HQ232794
GGACGGGTGAGTAACGCGTAGGGATCTGTCCAT-GGGTGGGGGATAACTTTGGGAAACTGAAGCTAATACCGCGTGACACCTGAGGGTCAAAGGCGCA-- 179
AJ251110
.....C.....C..G.....A.....- 177
NR_074292
.....CC.....G.....A.....G-- 178
AB166743
.....C-.....A.....- 179
AY669513
.....A..C-.....CC.....G.....A.....- 176
X74066
.....A..A..-.....CC.....G.....A..T.....- 177
AY829472
.....T.....-.....CC.....G.....A.....- 179
FJ831444
.....A..A..-.....CC.....G.....A..T.....- 155
NR_108135
.....A.....- 178

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AY206688A...C-.....C...C.....G.....A...T.....-- 179
 KF700364A...-.....C...CC.....G.....A...T.....-- 158
 AB678443A...-.....C...CC.....G.....A...T.....-- 177
 AB682176G.....A...-.....AC.....GT.....A...TG.....C.....G-- 158
 JF514557T.....A...-.....A.C.....GT.....A...T.....-- 181
 AB682138T.....A...C-.....A.C.....T.....A...T.....-- 158
 AB682109T.....A...C-.....A.C.....GT.....A...T.....-- 158
 AB485746T.....A...C-.....A.C.....GT.....A...T.....-- 131
 AB681106A...-.....AC.....GT.....A...TG.....C.....-- 158
 AB445099A...C-.....ACC.....GT.....A...T.....-- 158
 NR_024819A.C.A...G-A.....ACC.....GT.....A...T.....T.....TTT-- 172
 AB681381T.A...C-.....AC.....GT.....A...TG.....C.....T.-- 158
 AB304089T...A...-.....C...C.....G.....A.....-- 158
 AB303367A...A...-.....C.....G.....A.....-- 158
 AB818453-.....A.....-- 187
 AB095100-.....C.....C.G.....A.....-- 158
 HE861938-.....C.....C.G.....A.....-- 158
 AB205217C-.....A.....-- 178
 GU372344T...A...-.....C.....G.....A.....G-- 177
 AJ419839T...A...-.....C.....G.....A.....-- 158
 DQ887338A...-.....C.....G.....A...T.....-- 158
 AM748710A...A...-.....C.....G.....A...T.....T.-- 158
 NR_074276T.....TG-.....G.....AC.....A.....-- 181
 FM956480A.CG...GA-.....GC.....GC.....A.ATG.G.....C.....C.TG-- 175
 NR_074327A...A...T-.....C...CG.....ACG.....A...TC.....G.....A.-- 187
 NR_074281A...A...T-.....C...CG.....ACG.....A...TC.....G.....A.-- 180
 AY632901A...A...T-.....C...CG.....ACG.....A...TC.....G.....A.-- 163
 NR_037119T...A...C-.....G.....AC.....A.....TC.....G-- 179
 NR_109297A.CG...TG-...A.....GC.....GC.....A...T.TG...CGG...C.TTT-- 184
 NR_042371A.CG...TTG-.....GC.....GC.....A...T.TG...C.CAG...C.TTC-- 180
 NR_036877G.....A.CG...GG-A.....C...CC...C.GG.....A.GGG.C...C...C...G-- 180
 NR_104544A.CA...G-.....GC.....GC.....A...TG.G...C...C.TTC-- 135
 NR_044188A...G...G-A.....C...CCC.....GG.....A.ATG...CA.T.-- 156
 NR_029062G...G-.....CC...G.....A.ATGG...C...CA...G-- 175
 D45202A...G.A.C...C...G-A...AC...CCA...TGG.AC...TA...TG...G...-ATTT-- 172
 NR_036836A.CG.A...TTG-T...C...CC...GG.....A.ATGGA...TC...C...TG-- 174
 NR_025221A.CG...TG-T.A...GC.....GC.....A.AT.T...GG...C...G-- 150
 NR_104961A...G.A.C...C...G-A...AC...CCA...TGG.AC...TA...TG...G...-ATTT-- 157

NR_042752T.....C-.A.....CA.....TG.....A.ATGT...C...G.....C.G-- 121
 KF241161A.....TC-.....AG.....ACT.....A.....T.....A.-- 179
 NR_042705A.....T-.....AG.....ACT.....A...A.....T.T.....G-- 159
 NR_042706T.....TG-.....AG.....ACT.....A...AG.....CT.....T.A.-- 182
 AB362219A...A...A...TG-.....C...AGC.....CT.....A...T.....-- 174
 NR_025852A...A...A...CA-.....C...AGC.....CT.....A...T.....G-- 156
 NR_025849A...A...A...G-A.....C...AGC.....CT.....A...T.....-- 156
 HQ882802A.CA.....G-.....G.C.....C.....A.TG.G.....C.....CA.G-- 176
 NR_028984A.CA.....GA.....C...CC.....GG.....A.AT.GG.....CCG...C.TTC-- 178
 NR_037120C...A...C-.....C...CG.....ACG.....A.....C.....CAG 182
 NR_025629A.CG.A...C-.....GC.....GC.....A...TG.....C.....CTTT.-- 179
 NR_025221A.CG...TG-T.A.....GC.....GC.....A.AT.T.....GG...C...G-- 150
 NR_025583C.....G.A.....C...G-CA.....C.C.....G.....A.ACGC.CTC...GG.....----- 157
 NR_041601T...A...-.....C...C.....G.....A.....-- 158
 CP004360-.....A.....-- 177
 NR_026435A...C-.....A.....-- 177
 NR_114683A...C-.....A.....-- 178
 NR_042762-.....A.....-- 157
 NR_113301A...C-.....A.....-- 158
 AB499842T...A...-.....AC.....GT.....A.....-- 178
 JN411498A...A...-.....C.....G.....A...T.....G-- 192
 NR_117714A...A...C-.....C.....G.....A...T.....-- 158
 NR_114684T...A...-.....AC.....GT.....A.....-- 178
 JX013852-.....A.....-- 158
 KF135451A...C-.....C...CC.....G.....A...T.....-- 177
 AB024492A...-.....C...CC.....G.....A...T.....-- 175
 AB253436A...-.....C...CC.....G.....A...T.....-- 158
 NR_112952A...-.....C...CC.....G.....A...T.....-- 158
 EU096234G.....A...-.....C...C.....G.....A.....-- 178
 NR_041049A...C-.....C...C.....G.....A...T.....-- 158
 AB511277T.....A...C-.....A.C.....GT.....A...T.....-- 158
 AB681065T.....A...C-.....A.C.....GT.....A...T.....-- 158
 AB681860A...-.....ACC.....GT.....A...T.....-- 158
 AB485740T.....A...C-.....AC.....GT.....A...T.....-- 167
 AB513363T...A...-.....A.....GT.....A.....-- 178
 AB740269-.....AC.....GT.....A.....AG-- 160
 EU012448A.G...GA-.....GC.....GC.....A.AT.T.....GG...CA.TG-- 148
 X72908A.CG...GA-.....GC.....GC.....A.AT.T.....AG...CA.G-- 143

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D30775
.....A...A...T-.....C...CG.....ACG.....A...TC.....G.....A-- 160
JN171665
.....A.CG...TTG-.....GC.....GC.....A.ATGGG.....CC.....C.TTC-- 129
JQ436923
.....T...A...T-.....CG.....ACG.....A...TGT.....AC.....T-- 185
AY150048
.....AG.....G-A.....C...CCC.....GG.....A.ATGG.....C.....CA.TG-- 175
NR_028983
.....A.....A..G...TTG-A.....C...CC.....AGG.....A.ATGT.....A.....CA..G-- 177
AB682256
.....AG.....G-A.....C...CCC.....GG.....A.ATGG.....C.....CA.TG-- 156
NR_109678
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NR_037119T.....A.....A.....CGC.....T.....	565
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NR_025221T.....A.....TAC.....GC.....T.....	535
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AB024492	..AA.....A.G...CATA.....GTC.....	661
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NR_041049	..AA.....C.....TC.....	644
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AB681065TA.....	644
AB681860TA.....	644
AB485740TA.....	653
AB513363	..AA.....G...CTTA.....TC.....	664
AB740269	646
EU012448	..A...GC.....A.TGAG.....GA.GA....C.C.....	634
X72908	..A...GC.....A.TGAG.....GA.GA....C.C.....G.....	629
D30775	..A...G.C...G...T..T..T...A.GA.....T.....A.....	646
JN171665	..A...GC.....GCTGTG.....GA.GA....C.C.C.....	615
JQ436923	.....G...CCA.G.T.....	671
AY150048	..A...GC.....TG.GTG.T...GA.GA.....	661
NR_028983	..AA...GC.....TG.TGTG.T...GA.GA.....	663
AB682256	..A...GC.....TG.GTG.T...GA.GA.....	642
NR_109678	..AA...GC.A.G.TG.GTG.T...GA.GA.....C.....	648
AY150051	..A...GC.....TG.G.TG.T...GA.GA....C.C.....	663
AB594201	..AA...GC.A.G.TG.GTG.T...GA.GA.....	656
AF538712	..A...GC.....TG.G.TG.T...GA.GA....C.C.....	662
AM691116	..A...GC.....TGCCA.G.T...GCC.....G.....	657
EU290160	..A...GC...G.TGTT.TG.....GA.GA....C.....	659
AB369258	.....GC...G.TGTGG.G.....GA.GA....C.....	642
AJ535710	..AA...G.C.G.TG.TGTG.....TC.G...AGA.....AA.....	644
X75620	.....C.....	663

710 720 730 740 750 760 770 780 790 800

HQ232794	GAAAGCGGCCAACCTGGCTCATGACTGGCGCTGAGGCGCGAA-AGTGTGGGGAGCAACAGGATTAGATACCCTGGTAGTC-CACGCTGTAAACGATGTC	763
AJ251110	- - - A - - - C - - -	760
NR_074292	- - - A - - - A - - - C - - -	761
AB166743	- - - A - - - C - - -	762
AY669513	- - - T - - - A - - - G - - - C - - - AGTC	755

X74066	..-.....T..A.....-..C.....	760
AY829472	..-.....T..A.....-..C.....	764
FJ831444	..-.....T..A.....-..C.....	738
NR_108135	..-.....T..A.....-..C.....	761
AY206688	..-.....GAT..A.....-..C.....	762
KF700364	..-.....GAT..A.....-..C.....	741
AB678443	..-.....GAT..A.....-..C.....	760
AB682176	..-.....GAT..A.....-..C.....	741
JF514557	..-.....T..A.....-..C.....	765
AB682138	..-.....T..A.....-..C.....	741
AB682109	..-.....T..A.....-..C.....	741
AB485746	..-.....T..A.....-..C.....	714
AB681106	..-.....A.....-..C.....	741
AB445099	..-.....A.....-..C.....	741
NR_024819	..-.....T.....GGA..A.....-..C.....G.....	755
AB681381	..-.....A.....A.....-..C.....	741
AB304089	..-.....GAT..A.....-..C.....	741
AB303367	..-.....A.....A.....-..C.....	741
AB818453	..-.....A.....-..C.....	770
AB095100	..-.....A.....-..C.....	741
HE861938	..-.....A.....-..C.....	741
AB205217	..-.....A.....-..C.....	761
GU372344	..-.....A.....A.....-..C.....	759
AJ419839	..-.....T..A.....-..C.....	740
DQ887338	..-.....T..A.....-..C.....	741
AM748710	..-.....A.....-..C.....	741
NR_074276	..-.....A.....-..C.....	764
FM956480	..-.....G.G...TC..T..A.....-..C.....	758
NR_074327	..-.....TC..T..A.....-..C.....	770
NR_074281	..-.....TC..T..A.....-..C.....	763
AY632901	..-.....TC..T..A.....-..C.....	746
NR_037119	..-.....G.....TC.T..A.....A..C.....-..C.....	763
NR_109297	..-.....G.G...TC..T..A.....C-..C.....-..C.....	767
NR_042371	..-.....G.G...TC..T..A.....C-..C.....-..C.....	763
NR_036877	..-.....G.G...C.G.TT..A.....-..C.....-..C.....	763
NR_104544	..-.....G.G...TC..T..A.....C-..C.....-..C.....	718
NR_044188	..-.....A.C.....GAT..A.....C-..C.....-..C.....	739
NR_029062	..-.....TC...TT..A.....T-..C.....-..C.....	758

D45202
 ..-.A.....TC..T...A.....C..C.....-.....C.....A. 754
 NR_036836
 ..-.G.G....CTG.T...A.....-.....C.....-.....C..... 757
 NR_025221
 ..-.G.G....TC...TT...A.....-.....C.....-.....C..... 732
 NR_104961
 ..-.A.....TC..T...A.....C..C.....-.....C.....A. 739
 NR_042752
 ..-.G.....TC.....A.....-.....C.....-.....C..... 708
 KF241161
 ..-.G.....TC.T....A.....-.....C.....-.....C..... 762
 NR_042705
 ..-.G.....TC.T.T...A.....-.....C.....-.....C..... 742
 NR_042706
 ..-.G.....TC.T....A.....-.....C.....-.....C..... 765
 AB362219
 ..-.TC.T.A...A.....-.....C.....-.....C..... 757
 NR_025852
 ..-.TC.T.A...A.....-.....C.....-.....C..... 739
 NR_025849
 ..-.TC.T.T...A.....-.....C.....-.....C..... 739
 HQ882802
 ..-.G.G....TC..T...A.....-.....C.....-.....C..... 759
 NR_028984
 ..-.G.G....TC..T...A.....C..C.....-.....C..... 758
 NR_037120
 ..-.G.....TC.T....A.....-.....C.....-.....C..... 775
 NR_025629
 ..-.G.G....TC..T...A.....T..C.....-.....C..... 760
 NR_025221
 ..-.G.G....TC...TT...A.....-.....C.....-.....C..... 732
 NR_025583
 ..-.A...TCT...AC.GAT...A.....-.....C.....-.....AA 741
 NR_041601
 ..-.GAT...A.....-.....C.....-.....C..... 741
 CP004360
 ..-.A.....-.....C.....-.....C..... 760
 NR_026435
 ..-.A.....-.....C.....-.....C..... 760
 NR_114683
 ..-.A.....-.....C.....-.....C..... 761
 NR_042762
 ..-.A.....-.....C.....-.....C..... 740
 NR_113301
 ..-.A.....-.....C.....-.....C..... 741
 AB499842
 ..-.T...A.....-.....C.....-.....C..... 761
 JN411498
 ..-.A...A.....-.....C.....-.....C..... 776
 NR_117714
 ..-.T...A.....-.....C.....-.....C..... 741
 NR_114684
 ..-.T...A.....-.....C.....-.....C..... 761
 JX013852
 ..-.A.....-.....C.....-.....C..... 741
 KF135451
 ..-.GAT...A.....-.....C.....-.....C..... 760
 AB024492
 ..-.GAT...A.....-.....NNN.....-.....C..... 758
 AB253436
 ..-.GAT...A.....-.....C.....-.....C..... 741
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 ..-.GAT...A.....-.....C.....-.....C..... 741
 EU096234
 ..-.GAT...A.....-.....C.....-.....C..... 761
 NR_041049
 ..-.GAT...A.....-.....C.....-.....C..... 741
 AB511277
 ..-.T...A.....-.....C.....-.....C..... 741
 AB681065
 ..-.T...A.....-.....C.....-.....C..... 741
 AB681860
 ..-.T...A.....-.....C.....-.....C..... 741
 AB485740
 ..-.T...A.....-.....C.....-.....C..... 750

AB681106	.....CA...A.TGC.....C...G..C.....	840
AB445099	.....A...G.T.C.....A.C...G..C.....	840
NR_024819	.....AA...A.TT.....A.C...GT.T.....A.....A.....	854
AB681381	.....AA...A.TT.....A.C...G..C.....	840
AB304089	.....GTG...A.CAC.....G.....	840
AB303367	.....AAG...G.CTT.....G.....	840
AB818453	.....G.....	869
AB095100	.....G..G.C.....G.....	840
HE861938	.....G..G.C.....G.....	840
AB205217	.....G.....	860
GU372344	.....A.....G.....	858
AJ419839	.....A...A.T.C.....C...G.....	839
DQ887338	...A.....A.....T.....C.....G..T.....	840
AM748710	.....CA...A.TG.....C...G.....	840
NR_074276	.....T..C.A..A.C.....C...G..G.....	863
FM956480	C.....A...C.....C...G.....G.....	857
NR_074327	.....GTG...A.CAC.....C...G..G.....	869
NR_074281	.....GTG...A.CAC.....C...G..G.....	862
AY632901	.....GTG...A.CAC.....C...G..G.....	845
NR_037119	C.....G.C.A.C..C.....C...G.....G.....	862
NR_109297	C.....G.C.A.C..C.....CC..G..G...G.....	866
NR_042371	C.....G.C.A.C..C.....C...G..G...G.....	862
NR_036877	C.....G..G.C.A.C.CC.....C..C.CC..G..G...G.....	862
NR_104544	C.....C.A...C.....CC..G..G...G.....	817
NR_044188	.....GTT.C.A.AATC.....C...G..G.....	838
NR_029062	C...A.....GTT.C.A.AACC.....T...C...G..G...G.....	857
D45202	.....C.G-...C.GC.....A...G.....T.....	851
NR_036836	C.....G.C.A.C..C.....CC..G..G...G.....	856
NR_025221	C.....G.G..A.C.C.....C...G.....G.....	831
NR_104961	.....AC.G-...C.G.....A...G.....T.....	836
NR_042752	C.....G.G.A.CTGC.....C...GT.G...G.....C.....	807
KF241161	C.....A...A.T.C.....C...G.....G.....	861
NR_042705	C.....A...C.....C...G.....G.....	841
NR_042706	C.....A...A.T.C.....C...G.....G.....	864
AB362219	.....GA...A.TTC.....C...G.....	856
NR_025852	.....GA...A.TTC.....C...G.....	838
NR_025849	.....AA...A.TT-.....C...G.....	837
HQ882802	.....C.A...C.....C...G..G.....	858

NR_028984	C.....G.C.A.C..C.....CC..G.....G.....	857
NR_037120	C.....C.G...A.C.GC.....C..C...G..C.....G.....	874
NR_025629	.....GTT.C.A.AAC.....C...G.....	859
NR_025221	C.....G.G...A.C.C.....C...G.....G.....	831
NR_025583	...A..C.....ACC.C.A.GGT.....CC.C...G.ATG...TT.....A.....	840
NR_041601	.....GTG...A.CAC.....G.....	840
CP004360	.....G.....	859
NR_026435	.....G.....	859
NR_114683	.....G.....	860
NR_042762	.....G.....	839
NR_113301	.....C.....G.....	840
AB499842	...A.....A.....C.....G..T.....	860
JN411498	...A.....A...A..T.....C.....G..T.....	875
NR_117714	...A.....C.....G..T.....	840
NR_114684	...A.....A...A..T.....C.....G..T.....	860
JX013852	.....G.....	840
KF135451	.....A...A..T.C.....A..C...G..C.....	859
AB024492	.....A...A..T.C.....A..C...G..C.....	857
AB253436	.....A...A..T.C.....A..C...G..C.....	840
NR_112952	.....A...A..T.C.....A..C...G..C.....	840
EU096234	.....A...G..T.C.....A..C...G..C.....	860
NR_041049	.....AA...A..TTC.....A..C...G..C.....	840
AB511277	.....A...A..T.C.....A..C...G..C.....	840
AB681065	.....A...A..T.C.....A..C...G..C.....	840
AB681860	.....CA...A..TGC.....A..C...G..C.....	840
AB485740	.....A...A..T.C.....A..C...G..C.....	849
AB513363	.....A...A...A..T.C.T.....A..C...G..C.....	860
AB740269	.....A...A.....G.....	842
EU012448	C.....A...C.....C...G.....G.....	830
X72908	C.....N.AN..C.....AC...G.....N.G.N.....N.....A.....	825
D30775	.....GTG...A.CAC.....C...G..G.....	842
JN171665	C.....G.C.A.C..C.....C...G..G...G.....G.....	812
JQ436923	.....A.....G.....	867
AY150048	C.....C.A...C.....C...G..G...G.....	857
NR_028983	C.....C.A...C.....C...G.....G.....	859
AB682256	C.....C.A...C.....C...G..G...G.....	838
NR_109678	C.....C.A...C.....C...G.....G.....	844
AY150051	C.....GCC.A.A.GGTC.....CC...G..G...G.....	859

AB594201
C.....C.A...C.....C...G.....G.....-..... 852
AF538712
C.....GCC.A.A.GGTC.....CC...G..G.....G.....-..... 858
AM691116
.....GTT.C.A.AATC.....C...G..G.....G.....-..... 853
EU290160
C...A.....GTC...A.GATC.....T...C...G..G.....G.....-..... 855
AB369258
C.....GCC...A.GGTC.....C...G..G.....G.....-..... 838
AJ535710
...A..C.....ACC.C.A.GGT.....CC.C...G.ATG...TT.....-.....A..... 840
X75620
.....A..G..G.C...G.....G.....G.....-..... 859

910 920 930 940 950 960 970 980 990 1000

HQ232794
ACGGGGGCCCGCACCAAGCGGTGGAGCATGTGGTTAATTCGAAGCAACGCGCAGAACC-TTACCAGGGCTT**GACATGCGGAGGCTGTGTCC-AGGGAT-G** 959
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.....-.....A...- 956
NR_074292
.....G.....CAGT...A...- 957
AB166743
.....C.....-A...- 958
AY669513
..-.....G.....-T..GA.....A.T...A...- 946
X74066
.....-T..GA.....A.T...A...- 955
AY829472
.....-T..GA.....A...- 959
FJ831444
.....-T..G.T.....-A...- 933
NR_108135
.....-.....C.....-A...- 957
AY206688
.....-.....G...ACCG..T...A...- 957
KF700364
.....-.....G...AC..ACT...A...- 936
AB678443
.....-.....G...AC..ACT...A...- 955
AB682176
.....-.....G.....-A...- 937
JF514557
.....-.....G.....A...-A...- 961
AB682138
.....-.....G.....A...-A...- 937
AB682109
.....-.....G.....A...-A...- 937
AB485746
.....-.....G.....A...-A...- 910
AB681106
.....-.....G.....AG...-A...- 937
AB445099
.....-.....G.....A...-A...- 937
NR_024819
.....T...TATG.G.AG.A...-CT...A...- 950
AB681381
.....-.....G.....-A...- 937
AB304089
.....-.....G...TC...-A...- 937
AB303367
.....-.....G...CAGT...-A...- 937
AB818453
.....-.....C.....-A...- 966
AB095100
.....-.....-A...- 937
HE861938
.....-.....TC...-A...- 937
AB205217
.....-.....C.....-A...- 957
GU372344
.....-.....G.....A...-A...- 955
AJ419839
.....-.....G.....A.G...-A...- 935

DQ887338TA.....A.T.-.A...- 936
AM748710-T...T.T.....-A...- 936
NR_074276A.....G.AG.....-A...- 960
FM956480C.....CT.....CT.TC..ACT.CG-..A...GC 954
NR_074327AT.....G...TACCG.....-A...- 966
NR_074281AT.....G...TACCG.....-A...- 959
AY632901AT.....G...TACCG.....-A...- 942
NR_037119N.....G..TC.TCA.....-A...- 959
NR_109297CC.....G.C...ACCG.CG.-.A...- 963
NR_042371CC.....G.C...ACCG.CG.-.A...- 959
NR_036877CC.....G.CGC.ACCGCCG--.A...C. 959
NR_104544CC.....GCC.C.ACCG.....-A...- 914
NR_044188CC.....GTC.C.ACCG..T.-.A...- 935
NR_029062CC.....GCC.C.ACCG..T.-.A...- 954
D45202ACC.....G.A..TT..G.CT.G..A...T. 950
NR_036836CC.....G.CC..ACCGACT.-.A...- 953
NR_025221CT.....C..TC.AACT.CG-..A...GC 928
NR_104961ACC.....G.A..TT..G.CT.G..A...T. 935
NR_042752C.-.....G.....G.C.G-.A...-C 904
KF241161G.....A.T.-.A...- 958
NR_042705A.....G.....A.T.-.A...- 938
NR_042706A.....G.....A.T.-.A...- 961
AB362219AT.....G...ACCG..A.-.A...- 953
NR_025852AT.....G...ACCG..A.-.A...- 935
NR_025849AT.....G.....TG..A.-.A...- 934
HQ882802CC.....GACG.AAGC.CCG--.A...T. 955
NR_028984CC.....GCC.C.ACCG.....-A...- 954
NR_037120G.C.A.TC.C...-G.A..C-. 971
NR_025629G.T...AG..T.-.A...- 956
NR_025221CT.....C..TC.AACT.CG-..A...GC 928
NR_025583C.....CC.....G.AC.TT..A.C.GG..A...CT 939
NR_041601G.....TC.....-A...- 937
CP004360C.....-A...- 956
NR_026435C.....-A...- 956
NR_114683C.....-A...- 957
NR_042762C.....-A...- 936
NR_113301C.....-A...- 937
AB499842TA.....CAAG.-.A...- 956

JN411498G.T.....A... 971
 NR_117714TA.....A.T...A... 936
 NR_114684TA.....CAAG...A... 956
 JX013852A... 937
 KF135451G...AC...ACT...A... 955
 AB024492A...G...AC...ACT...A... 953
 AB253436G...AC...ACT...A... 936
 NR_112952G...ACCG...T...A... 936
 EU096234G.....A... 956
 NR_041049G...ACCG...T...A... 936
 AB511277A...G.....A...A... 937
 AB681065A...G.....A...A... 937
 AB681860G.....A...A... 937
 AB485740A...G.....A...A... 946
 AB513363G.....AGT...A... 956
 AB740269G.....A.T...A... 939
 EU012448C.....CT.....CT.TC...ACT.-CG...A...GC 927
 X72908C.....CT.....CT.TC...ACA.-CG...A...GC 922
 D30775AT.....G...TACCG...A... 939
 JN171665CC.....G.C...ACCG.CG...A... 909
 JQ436923C.....A.....G.....CA.G...A...-C 963
 AY150048CC.....G.T...ACCGACG...A... 954
 NR_028983CC.....GCC.C.ACCG...T...A... 956
 AB682256CC.....G.T...ACCGACG...A... 935
 NR_109678CC.....GTC.C.ACCG.CG...A... 941
 AY150051CC.....GTC.C.ACCG...A... 956
 AB594201CT.....G.T...ACCGACG...A... 949
 AF538712CC.....GTC.C.ACCG...A... 955
 AM691116CC.....GTC.C.ACCG...A... 950
 EU290160CT.....GAC...ACCGA.G...A... 952
 AB369258CT.....GAC...ACCGACG...A... 935
 AJ535710C.....CT.....G.A..TT..G...TG..A...C 939
 X75620A.....A... 956
 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100
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 AJ251110 1055
 NR_074292
 .CTG...C...G...T... 1056

AB166743 1057
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 .AT C G TT T 1045
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 C G TTC T 1058
 FJ831444
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 . . T ----TCG C T 1031
 AB678443
 A . T ----TCG C T 1050
 AB682176
 C G T T 1036
 JF514557
 . . T C G T 1060
 AB682138
 . . T C G T 1036
 AB682109
 . . T C G T 1036
 AB485746
 . . T C G T 1009
 AB681106
 .TT C G T 1036
 AB445099
 . . T C G T 1036
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 A . T ----TCG C CT 1045
 AB681381
 C G T 1036
 AB304089
 C G T 1036
 AB303367
 .CTG C G T 1036
 AB818453
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 AB095100
 1036
 HE861938
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 AB205217
 1056
 GU372344
 . . T C G T 1054
 AJ419839
 CAT TC GA C T 1034
 DQ887338
 .AT C G T . A CT 1035
 AM748710
 C G A CT 1035
 NR_074276
 .A C - G - CT . T 1057
 FM956480
 .TTGG . G . C G . A . GA . AG 1053
 NR_074327
 .A . T C G . G - C 1063
 NR_074281
 .A . T C G . G - C 1056
 AY632901
 .A . T C G . G - C 1039
 NR_037119
 - . C G . - . GA . T 1056
 NR_109297
 C . . T . . C . C G . G . . G . T 1062
 NR_042371
 C . . T . . C . C G . G . . G . T 1058
 NR_036877
 .C . C . . C . C G . G . G - . G . GC 1057
 NR_104544
 .ATT C G G . GGC 1013

NR_044188	.A.T...C.....G...G.GAT.....-	1034
NR_029062	AA.T...C.....G...G.GGT.....-	1053
D45202	..TCC...AGTTTCG.CTGG..T.CA.....-	1049
NR_036836	..TT..C.C.....G.G..GG.T.....-	1052
NR_025221	.TTGG.G.C.....G..G.GG.GAG.....-	1027
NR_104961	..TCC...AGTTTCG.CTGG..T.CA.....-	1034
NR_042752	..TCG.-.C.....G.T-....C.....-	1001
KF241161	.AT....C.....G.....T.....-	1057
NR_042705	.AT....C.....G.....T.....-	1037
NR_042706	.AT....CT....G.....T.....-	1060
AB362219	TA.T...C.....G.....T.C.....-	1052
NR_025852	TA.T...C.....G.....T.C.....-	T 1034
NR_025849	TATC...C.....G.....T.C.....-	1033
HQ882802	.AGTG.G.....G.CGTC.....-	1054
NR_028984	.ATC...C.....G...G.GGC.....A.....	1054
NR_037120	...G.-.C.....G.-.T.G.C.....-	1068
NR_025629	.A.T..C.C.....G.G..A.T.....-	1055
NR_025221	.TTGG.G.C.....G..G.GG.GAG.....-	1027
NR_025583	..TTC...AGTTTCG.CTGG.GT.CA.....-	1038
NR_041601	.....C.....G.....T.....-	1036
CP004360	.....-	1055
NR_026435	.....-	1055
NR_114683	.....-	1056
NR_042762	.....-	1035
NR_113301	.....-	1036
AB499842	TTTG...C.....G.....T.A.....-	CT 1055
JN411498	.....C.....G.....A.C.....-	CT 1070
NR_117714	.AT....C.....G.....T.A.....-	CT 1035
NR_114684	TTTG...C.....G.....T.A.....-	CT 1055
JX013852	.....-	1036
KF135451	..T.....---TCG.....C.....-	T 1050
AB024492	..T.....---TCG.....C.....G-.....	T 1048
AB253436	..T.....---TCG.....C.....-	T 1031
NR_112952	.A.C.....---TCG.....C.....-	T 1031
EU096234	.....---TCG.....C.....-	T 1051
NR_041049	.A.C.....---TCG.....C.....-	T 1031
AB511277	..T....C.....G.....T.....-	1036
AB681065	..T....C.....G.....T.....-	1036

AB681860	..T...C...G...T.....-	1036
AB485740	..T...C...G...T.....-	1045
AB513363	ACT.....---TCG...C.....T	1051
AB740269	.AT...CT...G...T.....-	1038
EU012448	.TTGG.G.CT...G..A.GG..AG.....-	1026
X72908	.TTGG.GT..CGC.AG.GA.GG..AG.....-	1021
D30775	.A.T...C...G.G-...C.....-	1036
JN171665	C..T..C.C...G.G...G.T.....-	1008
JQ436923	.ATG...CA...TG...T.....-	1062
AY150048	C.TC...C...G...A.T.....-	1053
NR_028983	.A.T...C...G...G.GGC.....-	1055
AB682256	C.TC...C...G...A.T.....-	1034
NR_109678	C..T..C.C...G...G.GAT.....-	1040
AY150051	...T..C.C...G.G.G.GAT.....-	1055
AB594201	C.TT...C...G...A.C.....-	1048
AF538712	.A.T..C..A...T..G.G.GAT.....-	1054
AM691116	.A.T..C.C...G.G.G.GAT.....-	1049
EU290160	CATT..C.C...G.G...GTT.....-	1051
AB369258	C.TT..C.C...G.G...GTT.....-	1034
AJ535710	..TCC...AGTTTCG.CTGG..T.CA.....-	1038
X75620-	1055

1110 1120 1130 1140 1150 1160 1170 1180 1190 1200

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HQ232794	-GCCTTTAGTT-GCCATCGCGTCTGGGTGGGCACTCTAAAGGA ACTGCCGGTGACAAGCCGGAGGAAGGTGGGGATGACGTCAAGTCCATGGCCCTTA	1156
AJ251110	.....G.A.....	1153
NR_074292	.....G.AT.AT.....	1154
AB166743	.....A.....	1155
AY669513	-AT.....G.AT..T.....AG.....	1143
X74066	-AT.....G.AT..T.....AG.....	1152
AY829472	-AT.....G.AT..T.....AG.....	1156
FJ831444	-AT.....G.AT..T.....G..AG.....	1130
NR_108135	.....A...T.....G.....	1154
AY206688	..T.....G.A.T.TCA.....G..AG.....	1150
KF700364	..T.....G.A.T.TCA.....G..AG.....	1129
AB678443	..T.....G.A.T.TCA.....G..AG.....	1148
AB682176	.....G.AT.ATC.....G.....	1134
JF514557	.....G.A...T.....G.....	1158
AB682138	.....G.A...T.....G.....	1134

AB682109	-.....G.A...T.....G.....	1134
AB485746	-.....G.A...T.....G.....	1107
AB681106	-.....G.A...T.....G.....	1134
AB445099	-.....G.A...T.....G.....	1134
NR_024819	-..T.....A...T.....G..AG.....	1143
AB681381	-.....G.AT..T.....G.....	1134
AB304089	-.....G.AT..T.....G.....	1134
AB303367	-.....G.AT..T.....G.....	1134
AB818453	-.....A.....	1163
AB095100	-.....G.A.....	1134
HE861938	-.....G.A.....	1134
AB205217	-.....G.A.....	1154
GU372344	-.....G.AT.AT.....	1152
AJ419839	-..T.....G.A...T.....G..AG.....	1132
DQ887338	-AT.....G.A...T.....G..AG.....	1133
AM748710	-AT.....G.AT..T.....G..AG.....	1133
NR_074276	-.....G.AT..TC.....	1155
FM956480	-...C.....G.AT..T.....G.....	1151
NR_074327	-...C.....G.AT..T.....G.....	1161
NR_074281	-...C.....G.AT..T.....G.....	1154
AY632901	-...C.....G.AT..T.....G.....	1137
NR_037119	-...C.....AG..T..C.....G.....	1154
NR_109297	-.....G.AT..TC.....G.....	1160
NR_042371	-.....AG..TA..C.....G.....	1156
NR_036877	-..T.CC.....G.A...C.....GG.....	1155
NR_104544	-...C.....G.A...T.....G.....	1111
NR_044188	-.....G.AT..T.....	1132
NR_029062	-.....G.A...T.....G.....	1151
D45202	-.....ATTCACT--.....C.....A.....	1144
NR_036836	-...C.....G.A...T.....GG.....	1150
NR_025221	-...C.....G.AT..T.....G.....	1125
NR_104961	-.....ATT.AGT--.....C.....	1130
NR_042752	-...C.....G..AG..CC.....GG.....	1099
KF241161	-..T...C.....AG..TG..C..C.....G..A.....	1155
NR_042705	-..T...C.....AG..TG..C.....G..A.....	1135
NR_042706	-..T...C.....AG..TG..C.....G..A.....	1158
AB362219	-.....AT-T-A.T.....G.....	1148
NR_025852	-.....AT-T-A.T.....G.....	1130

NR_025849	-.....C..NT..T-A.T.....	1129
HQ882802	-.....G..TAT.CC.....G.....T.....	1152
NR_028984	-.....C.....G.AT..T.....G.....	1153
NR_037120	-.....G.A...T.....	1166
NR_025629	-T.T.C.....G.AT..T.....G...T.....	1153
NR_025221	-.....C.....G.AT..T.....G.....	1125
NR_025583	-AT.C.C.....G..AG..CC.....G.G.A.....C.....	1136
NR_041601	-.....G.AT..T.....G.....	1134
CP004360	-.....A.....	1153
NR_026435	-.....A...T.....	1153
NR_114683	-.....A.....	1154
NR_042762	-.....A.....	1133
NR_113301	-.....A.....	1134
AB499842	-AT.....AG..TG..C.....G..AG.....	1153
JN411498	WTT.....G.AT..T.....G..AG.....	1169
NR_117714	-AT.....G.A...T.....G..AG.....	1133
NR_114684	-AT.....AG..TG..C.....G..AG.....	1153
JX013852	-.....A...T.....	1134
KF135451	-T.....G.A.T.TCA.....G..AG.....A.....	1148
AB024492	-T.....G.A.T.TCA.....G..AG.....	1146
AB253436	-T.....G.A.T.TCA.....G..AG.....	1129
NR_112952	-T.....G.A.T.TCA.....G..AG.....	1129
EU096234	-T.....G.A.....G..AG.....	1149
NR_041049	-T.....G.A.T.TCA.....G..AG.....	1129
AB511277	-.....G.A...T.....G.....	1134
AB681065	-.....G.A...T.....G.....	1134
AB681860	-.....G.A...T.....G.....	1134
AB485740	-.....G.A...T.....G.....	1143
AB513363	-T.....AG..TG..C.....G..AG.....	1149
AB740269	-.....G.AT.AT.....	1136
EU012448	-.....C.....G.AT..T.....G.....	1124
X72908	-.....C.....G.AT..T.....G...G..C.....A.....	1119
D30775	-G...C.....G.AT..T.....G.....	1134
JN171665	-.....AG..AGA.C.....G.....	1106
JQ436923	-.....G.AT..T.....	1160
AY150048	-.....G.A...T.....G.....	1151
NR_028983	-.....G.AT..T.....	1153
AB682256	-.....G.A...T.....G.....	1132

NR_109678
G.AT..T..... 1138
 AY150051
C.....G.AT..TC.....G..... 1153
 AB594201
G.AT..T..... 1146
 AF538712
C.....G.AT..TC.....G..... 1152
 AM691116
G.AT..T.....G..... 1147
 EU290160
G.A.-.TC.....G..... 1148
 AB369258
CC.....G.A.....GG..... 1132
 AJ535710
 -AT..C.C.....AG..AG..C.....GGG.A.....C..... 1136
 X75620
G.A..... 1153

1210 1220 1230 1240 1250 1260 1270 1280 1290 1300

....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|

HQ232794
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 AJ251110
 1252
 NR_074292
T.....-A..... 1253
 AB166743
T.....A.....C.....-A..... 1254
 AY669513
T..ATG...CAT..T..T.....-T..... 1242
 X74066
T..ATG...CAT..T..C.....-T...A..... 1251
 AY829472
T..ATG.T..CAT.AT..T.....-T..... 1255
 FJ831444
A...A...T..ATG...CAT..T..T.....-A...T..... 1229
 NR_108135
T.....A.....C.....-T..... 1253
 AY206688
T.CATG.T..CATG.T..T.....-T.....T... 1249
 KF700364
T.T.TG.T..CA.A.T..T.....-T.....T... 1228
 AB678443
T.T.TG.T..CA.A.T..T.....-T.....T... 1247
 AB682176
T.....T...T.....-A..... 1233
 JF514557
T..ATG.T..CAT..T..C.....-T.....T... 1257
 AB682138
T..ATG.T..CAT..T..C.....-T.....T... 1233
 AB682109
T..ATG.T..CAT.AT..C.....-T.....T... 1233
 AB485746
T..ATG.T..CAT.AT..C.....-T.....T... 1206
 AB681106
T..A.....T.AT..C.....-T...A..... 1233
 AB445099
T..ATG.T..CAT..T..C.....-T.....T... 1233
 NR_024819
 ..A.....A...T.CATG.T..CATGAT..C.....-A...A..... 1242
 AB681381
T..A...T...T.AT..T.....-T...A...T... 1233
 AB304089
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 AB303367
T.T.TG.T..CA.AAT..T.....-T..... 1233
 AB818453
T.....A.....C.....-A..... 1262
 AB095100
 1233
 HE861938
 1233
 AB205217
T.....A.....C.....-A..... 1253

GU372344 T.....-A..... 1251
 AJ419839 T..ATG...CAT..T..T.....-A...A..... 1231
 DQ887338 T..ATG.T..CAT..T..T.....-T..... 1232
 AM748710 T..ATG...CAT..T..T.....-T..... 1232
 NR_074276 T.....T.....AT..T.....-A..... 1254
 FM956480 ..AG.....A.....TC...G.....C-A.....A..... 1250
 NR_074327 TG.T..CA.....T.....-A..... 1260
 NR_074281 TG.T..CA.....T.....-A..... 1253
 AY632901 TG.T..CA.....T.....-A..... 1236
 NR_037119 T...C-A.....A..... 1253
 NR_109297 ..GG.....A...G...A.TG...CA.T...C...C-A.....T..... 1259
 NR_042371 ..GG.....A...G...ATG...CAT...C...C-G..... 1255
 NR_036877 ..GG.....C...C.....C...G.....C...C-G.....C...TC 1254
 NR_104544 ..GG.....TC...G.....C...C-T.....A.....C 1210
 NR_044188 ..GG.....A...A.....T.TC...G.A...C...C-A...T.....A.....GC 1231
 NR_029062 ..GG.....A.....T...C...C-A.....A...C...GC 1250
 D45202 C.GGT.....T.....TT.G.....A...TA..C-T.....AC.....TT.. 1243
 NR_036836 ..GG.....G..TC...G..C..C...C-A.....C..... 1249
 NR_025221 ..AG.....TC...G.....C...C-T.....A..... 1224
 NR_104961 C.GGT.....T.....TC.G.....A...TA..C-.....AC.....TT.. 1229
 NR_042752A...G..T.T.G.T...C...C-G.....A..... 1198
 KF241161T..TC...G..C..T.....-A..... 1254
 NR_042705T..TC...G..AT..T.....-T..... 1234
 NR_042706T..TC...G..AT..T.....-T.....A..... 1257
 AB362219T.....T..T.T..A..T.T.....-T.....A...A...T... 1247
 NR_025852T.....T..T.T..A..T.T.....-T.....A...A...T... 1229
 NR_025849T.....T..G.T.C..T.T.....-T.....A.....T... 1228
 HQ882802 ..GG.....A.....TC...GAT...C...C-A.....A...C..... 1251
 NR_028984 ..GG.....A.....TC...G...C...C-G.....A.....C 1252
 NR_037120C...C...G..T..T..C-G..... 1265
 NR_025629T..TC...G.....C-A..... 1252
 NR_025221 ..AG.....TC...G.....C...C-T.....A..... 1224
 NR_025583 C.GG.....A...A.T.GG...CC.G...CA..CA.T.....T... 1236
 NR_041601T.T.TG.T..CA.AAT..T.....-T..... 1233
 CP004360T...A...C...-A..... 1252
 NR_026435TG.T..CA...C...-A..... 1252
 NR_114683TG.T..CA...C...-A..... 1253
 NR_042762T...A...C...-A..... 1232

NR_113301 T A C - . A 1233
 AB499842 T TG . T CA AT T - . T 1252
 JN411498 T ATG CAT T T - . T A T 1268
 NR_117714 T ATG CAT T T - . T 1232
 NR_114684 T TG . T CA AT T - . T 1252
 JX013852 T TG . T CA C - . A 1233
 KF135451 T T . T . TG . T CA A . T T - . T T 1247
 AB024492 T CATG CATG . T T - . T N T 1245
 AB253436 T T . T . TG . T CA A . T T - . T T 1228
 NR_112952 T T . T . TG . T CA AAT T - . T T 1228
 EU096234 T ATG . T CAT . AT T - . T T 1248
 NR_041049 T CATG . T CATG . T T - . T T 1228
 AB511277 T ATG . T CAT T C - . T T 1233
 AB681065 T ATG . T CAT T C - . T T 1233
 AB681860 T ATG . T CAT . AT C - . T T 1233
 AB485740 T ATG . T CAT . AT C - . T T 1242
 AB513363 T T . T . TG . T CA A . T T - . T T 1248
 AB740269 G T T - . A 1235
 EU012448 A TC G C - . A A 1223
 X72908 A TC GN C - . A A 1218
 D30775 TG . T CA T - . A 1233
 JN171665 A G ATG CAT C C - . G 1205
 JQ436923 A T C - . A 1259
 AY150048 T C C - . A A C GC 1250
 NR_028983 AC A C C - . A A C GGC 1252
 AB682256 T C C - . A A C GC 1231
 NR_109678 A T C C - . A A C GC 1237
 AY150051 A TC G C C - . G 1252
 AB594201 A T C C - . A A C GC 1245
 AF538712 A TC G C C - . G 1251
 AM691116 A T . TC A . G A C C - . A A C GC 1246
 EU290160 A G T . T A C C - . G A C . T C 1247
 AB369258 A TC G C C - . T A C . T C 1231
 AJ535710 A C A . T . GG CC . G CA CA . T T 1236
 C.GG A C A . T . GG CC . G CA CA . T T 1236
 X75620 - 1252

1310 1320 1330 1340 1350 1360 1370 1380 1390 1400

HQ232794
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AJ251110	1352
NR_074292	1353
AB166743	1354
AY669513	1342
X74066	1351
AY829472	1355
FJ831444	.....	1329
NR_108135	.....	1353
AY206688	.....	1349
KF700364	.....A.....	1328
AB678443	.....A.....	1347
AB682176	.....G.....	1333
JF514557	.....	1357
AB682138	.....	1333
AB682109	.....	1333
AB485746	.....A.....	1306
AB681106	.....	1333
AB445099	.....A.....	1333
NR_024819	.....T.....A.....	1342
AB681381	.....	1333
AB304089	.....	1333
AB303367	.....	1333
AB818453	.....	1362
AB095100	.....	1333
HE861938	.....	1333
AB205217	.....	1353
GU372344	.....	1351
AJ419839	.....	1331
DQ887338	.....	1332
AM748710	.....	1332
NR_074276	.....	1354
FM956480	.....G.....	1350
NR_074327	.....	1360
NR_074281	.....	1353
AY632901	.....	1336
NR_037119	.....G.....	1353
NR_109297	.....G.....C.....	1359
NR_042371	.....G.....C.....	1355

NR_036877	.....GA...G.....C.....	1354
NR_104544	.....G.....T.....C...A.....	1310
NR_044188	.....GC.....C.....G.....	1331
NR_029062	.....GC...G.....C.....	1350
D45202	.....A.....C.....	1343
NR_036836	.....G...G.....C.....	1349
NR_025221	.....C.....G.....	1324
NR_104961	.....A.....C.....	1329
NR_042752	.....C.....	1298
KF241161	.....	1354
NR_042705	.....	1334
NR_042706	.....	1357
AB362219	.....A.....T.....A.....	1347
NR_025852	.....A.....T.....A.....	1329
NR_025849	.....A.....T.....A.....	1328
HQ882802	.....G.....	1351
NR_028984	.....G.....C.....	1352
NR_037120	.....G.....C.....	1365
NR_025629	.....G.....	1352
NR_025221	.....C.....G.....	1324
NR_025583	.....C.....	1336
NR_041601	.....	1333
CP004360	.....	1352
NR_026435	.....	1352
NR_114683	.....	1353
NR_042762	.....	1332
NR_113301	.....	1333
AB499842	.....	1352
JN411498	.....A.....	1368
NR_117714	.....	1332
NR_114684	.....	1352
JX013852	.....	1333
KF135451	.....A.....	1347
AB024492	.....A.....N.....	1345
AB253436	.....A.....	1328
NR_112952	.....A.....	1328
EU096234	.....	1348
NR_041049	.....A.....	1328

AB511277	.....A.....	1333							
AB681065	.....A.....	1333							
AB681860	.....A.....	1333							
AB485740	.....A.....	1342							
AB513363	.....A.....	1348							
AB740269	.....	1335							
EU012448	.....G.....	1323							
X72908	.....G.....N.....	1318							
D30775	.....G.....	1333							
JN171665	.....G.....C.....	1305							
JQ436923	.....G.....	1359							
AY150048	.....GC..G.....C.....	1350							
NR_028983	.....GCC..G.....C.....	1352							
AB682256	.....GC..G.....C.....	1331							
NR_109678	.....GC..G.....C.....	1337							
AY150051	.....G.....C.....	1352							
AB594201	.....GC..G.....C.....	1345							
AF538712	.....G.....C.....	1351							
AM691116	.....GC..G.....	1346							
EU290160	.....G..A.G.....C.....	1347							
AB369258	.....G..A.G.....C.....	1331							
AJ535710	.....C.....	1336							
X75620	.....	1352							
1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	
. .										
HQ232794	TGGGAGTTGGTTTGACCTTAAGCCGGTGAGCGAACC--GCAAGGA--CGCAGCCGACCACGGTCGGGTCAGCGACTTGGGGTGAAGTCGTAACAAGGTAGC									1451
AJ251110	-- --									1448
NR_074292	CA..T.GGG									1453
AB166743	C- GG- .A.									1452
AY669513	C. -- GA.GA- TC.ACGTAG									1439
X74066	-- --									1447
AY829472	-- --									1451
FJ831444	C- GG-									1427
NR_108135	-- --									1449
AY206688	C. -- .A.									1445
KF700364	C. -- .A.									1424
AB678443	C. -- .A.									1443
AB682176	-- -- .A.									1414

JF514557CG.....--.....--.....A. 1453
 AB682138CG.....--.....--..... 1414
 AB682109CG.....--.....--..... 1414
 AB485746CG.....--.....--..... 1389
 AB681106C.....CA.....T.GGG.....T.....T.....A..... 1418
 AB445099CG.....--.....--..... 1414
 NR_024819G--.....GAC.....-- 1436
 AB681381C.....T.....--.....A.....T.....A..... 1414
 AB304089C.....--.....--..... 1414
 AB303367--.....--..... 1414
 AB818453--.....--..... 1458
 AB095100--.....--..... 1429
 HE861938--.....--..... 1429
 AB205217--.....--..... 1445
 GU372344C-.....GG-..... 1449
 AJ419839--.....--..... 1427
 DQ887338C-.....GG-..... 1430
 AM748710CA.....T.GGG..... 1432
 NR_074276C.....C-.....GA-..... 1452
 FM956480CT.....A.T.GC.....--.....--GCT.T.....A..... 1446
 NR_074327T.....TT.....C.T.C-.....GA-G.....A.....A..... 1458
 NR_074281T.....TT.....C.T.C-.....GA-G.....A.....A..... 1451
 AY632901T.G.....TT.....C.T.C-.....GA-G.....A.....A..... 1434
 NR_037119C.....A.C.....TC-.....AGA-.....A. 1451
 NR_109297CT.....A.C.GC.....--.....G--GCT.TTG.....A.....T..... 1455
 NR_042371CT.....A.C.GC.....--.....G--GCT.TTG.....A.....T.....ACC. 1451
 NR_036877CT.....T.C.C.....--.....--GCT.G.....A.....T.....----- 1444
 NR_104544CT.....TG.C.C.T.....--.....G--G.....GTC.....A..... 1406
 NR_044188CT.....C.....TG.T.....--.....-G.C.....A..... 1427
 NR_029062CT.....A.C.GT.....--.....--GCT.TG.....A.....T..... 1446
 D45202T.CG.....C.T.....--.....-G.....AA.....A.....----- 1433
 NR_036836CT.....A.C.GT.....--.....--GCT.TG.....A.....T.....----- 1439
 NR_025221CT.....TGTC.TG.T.....--.....G.....-G.C.GTC.....A..... 1420
 NR_104961T.CG.....C.T.....--.....-G.....AA..... 1425
 NR_042752C.C.....G.T.....T.C.T.G..GC.....----- 1340
 KF241161C.T.TC-.....AGA-G..... 1452
 NR_042705C.C.....TA.....TAGGAG.....----- 1400
 NR_042706C.T.TCA.....T.GAG.....----- 1430

AB362219	.....T.....TA...C..T.....--.....-G.T...T.....A.....	1443
NR_025852	.....T.....TA...C..T.....--.....-G.T...T.....A.....	1407
NR_025849	.....T.....A...C..T.....--.....-G...T.....A.....	1406
HQ882802	.....T.....TG...C..T.....--.....G-G...TC.....A.....	1447
NR_028984	.....CT.....TG.C..C..T.....--.....G-G...GTC.....A.....	1448
NR_037120	.....C.....C..C...CA...T.GGGG.....T.....A.....	1465
NR_025629	.....CT.....TG.C..C..T..S.--.....G-G...GTC.....A.....AGC.	1448
NR_025221	.....CT.....TGTC.TG..T.....-G...-G..C.GTC.....A.....	1420
NR_025583	.....T...G.....G..T.....--.....-G.....A.....	1432
NR_041601	.....C.....	1414
CP004360	.....	1448
NR_026435	.....	1448
NR_114683	.....	1449
NR_042762	.....	1428
NR_113301	.....	1429
AB499842	.....	1448
JN411498	.....C-...GG-	1466
NR_117714	.....C-...GG-	1430
NR_114684	.....	1448
JX013852	.....C-...GG-	1431
KF135451	.....C.....A.....	1443
AB024492	.....C.....A.....	1441
AB253436	.....C.....A.....	1406
NR_112952	.....CTT.....AA.....	1409
EU096234	.....C.....T.....A.....	1444
NR_041049	.....C.....A.....	1409
AB511277	.....CG.....	1414
AB681065	.....CG.....	1414
AB681860	.....CG.....	1414
AB485740	.....CG.....	1407
AB513363	.....C.....T.....A.....TA.....	1437
AB740269	.....	1408
EU012448	.....CT.....A..T.GC.....-GCT..T.....A.....	1383
X72908	.....CT.....A..T.GC.T.....-GCT..T.....A.....T...N.....	1414
D30775	.....T.....TT...C..T..C-...GA-G...A.....A.....	1413
JN171665	.....CT.....A...C.GC...G-CGT.....	1345
JQ436923	.....C.....A...T.GA.....	1457
AY150048	.....CT.....A...C...C-...GA-T..T...TTG.....A.....	1448

NR_028983T.....T.....C.GT....G-CA.G.A--GCT.....A..A...T..... 1448
 AB682256CT.....A...C.....C-.....GA-T.T...TTG.....A..... 1414
 NR_109678T.....T.....C.GT....G-CA.G.A--GCT.....A..A...T..... 1426
 AY150051CT.....T..T..C..T...A-..G.T.GG-G...G.....A..... 1450
 AB594201T.....A...C..T...C-.....GA-G.T...TTG.....A..A...T..... 1422
 AF538712CT.....T..T..C..T...A-..G.T.GG-G...G.....A..... 1449
 AM691116CT...C.....TG..T...G-CA.G.A--G..C.....A..... 1442
 EU290160CT.....TG.C..C..T...G-CA.G.A--G...GTC.....A..... 1443
 AB369258CT.....TG.C..C.G....G-CA.G.A--..CT..GTC.....A..... 1427
 AJ535710T...G.....G..T...G-CA.G.A--G.....A..... 1432
 X75620G-CA.G.A--..... 1448

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HQ232794	CGTAGGGGAACCTGCGGCTGGATCACCTCCTTAATCTAGATC				1493
AJ251110			TCAA		1484
NR_074292			T		1486
AB166743					1452
AY669513	.C.TTC..GTGG				1451
X74066			T		1480
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JF514557					1453
AB682138					1414
AB682109					1414
AB485746					1389
AB681106					1418
AB445099					1414
NR_024819					1436
AB681381					1414
AB304089					1414
AB303367					1414
AB818453			TCA		1493
AB095100					1444
HE861938					1441
AB205217					1445
GU372344					1478
AJ419839					1439
DQ887338					1442
AM748710					1444
NR_074276					1482
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NR_074327			T		1491
NR_074281			T		1484
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NR_042371	T				1453
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NR_044188					1442
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D45202					1433
NR_036836					1439
NR_025221					1429
NR_104961					1437
NR_042752					1340
KF241161					1453
NR_042705					1400
NR_042706					1430
AB362219					1474

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NR_025849	-----	1406
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NR_113301	-----	1444
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AB024492-----	1473
AB253436	-----	1406
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AB511277	-----	1414
AB681065	-----	1414
AB681860	-----	1414
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AB682256	-----	1414
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Red are conserved regions Blue are variable regions