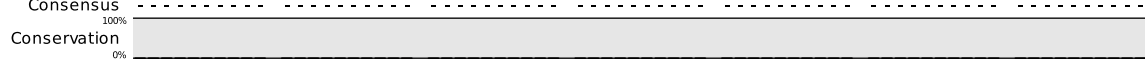


20

40

60

Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	-----	-----	-----	-----	-----	-----	-----
BovB_Gv-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----
BovB_PMo-RTE-Python_molurus	-----	-----	-----	-----	-----	-----	-----
BovB_Oa-RTE-Ovis_aries	-----	-----	-----	-----	-----	-----	-----
BovB-RTE-Bos_taurus	GCGCAGGCGG	CTGGGACGGG	CGCGCTAAGC	GCGGCCGAGA	GGAGCCACCC	CACGTCCGAG	GTCAGGGGCA 70
BovB_Me-RTE-Macropus_eugenii	-----	-----	-----	-----	-----	-----	-----
BovB_Ano-RTE-Amphibolurus_norr	-----	-----	-----	-----	-----	-----	-----
BovB_Gd-RTE-Eremiascincus_doug	-----	-----	-----	-----	-----	-----	-----
BovB_Er-RTE-Eremiascincus_rich	-----	-----	-----	-----	-----	-----	-----
BovB_Ca-RTE-Ctenotus_atlas	-----	-----	-----	-----	-----	-----	-----
BovB_Es-RTE-Egernia_stokesii	-----	-----	-----	-----	-----	-----	-----
BovB_Tr-RTE-Tiliqua_rugosa	-----	-----	-----	-----	-----	-----	-----
BovB_ALi-RTE-Amblyomma_limbatu	-----	-----	-----	-----	-----	-----	-----
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	-----	-----	-----	-----	-----	-----	-----
BovB_ACo-RTE-Agkistrodon_conto	-----	-----	-----	-----	-----	-----	-----
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvus	-----	-----	-----	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	-----	-----	-----	-----	-----	-----	-----
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----	-----	-----	-----
BovB_Ac-RTE-Anolis_carolinensi	-----	-----	-----	-----	-----	-----	-----
BovB_BM-RTE-Bombyx_mori	-----	-----	-----	-----	-----	-----	-----
BovB_Dr-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----
BovB_La-RTE-Loxodonta_africana	-----	-----	-----	-----	-----	-----	-----
BovB_Pc-RTE-Procavia_capensis	-----	-----	-----	-----	-----	-----	-----
BovB_Et-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----
BovB_Ta-RTE-Tachyglossus_acule	-----	-----	-----	-----	-----	-----	-----
BovB_Plat-RTE-Ornithorhynchus	-----	-----	-----	-----	-----	-----	-----
BovB_Ec-RTE-Equus_caballus	-----	-----	-----	-----	-----	-----	-----
BovB_Cg-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Consensus	-----	-----	-----	-----	-----	-----	-----



	80	100	120	140				
Stu-rnd-1_family-417_LINE_RTE-								
Sly-rnd1_family377-LINE/RTEBov								
Stu-rnd-1_family-489_LINE_RTE-								
Stu-rnd-1_family-607_LINE_RTE-								
Stu-rnd-1_family-645_LINE_RTE-								
Sly-rnd4_family81-LINE/RTEBovB								
Stu-rnd-6_family-408_LINE_RTE-								
Stu-rnd-1_family-351_LINE_RTE-								
Stu-rnd-1_family-382_LINE_RTE-								
Sly-rnd6_family746-LINE/RTEBov								
Stu-rnd-5_family-325_LINE_RTE-								
Sly-rnd4_family509-LINE/RTEBov								
Stu-rnd-1_family-513_LINE_RTE-								
Sly-rnd5_family1442-LINE/RTEBo								
BovB_GI-RTE-Gehyra_lazelli								
BovB_Gv-RTE-Gehyra_variegata								
BovB_PMo-RTE-Python_molurus								
BovB_Oa-RTE-Ovis_aries								
BovB-RTE-Bos_taurus	GAAGCCGGGA	GGACCCCATG	CCCGAAGGGC	GGCGGCCAAG	AGGAGTTACC	CCACGTCCGA	GGTCAGGGGC	140
BovB_Me-RTE-Macropus_eugenii								
BovB_Ano-RTE-Amphibolurus_norr								
BovB_Gd-RTE-Eremiascincus_doug								
BovB_Er-RTE-Eremiascincus_rich								
BovB_Ca-RTE-Ctenotus_atlas								
BovB_Es-RTE-Egernia_stokesii								
BovB_Tr-RTE-Tiliqua_rugosa								
BovB_ALi-RTE-Amblyomma_limbatu								
BovB_Hs-RTE-Hydrophis_spiralis								
BovB_VA-RTE-Vipera_ammodytes								
BovB_ACo-RTE-Agkistrodon_conto								
BovB_Pg-RTE-Perameles_gunnii								
BovB_lo-RTE-Isodon_obesulus								
BovB_Bp-RTE-Burramys_parvus								
BovB_Pb-RTE-Petaurus_breviceps								
BovB_Ma-RTE-Macropus_antilopin								
BovB_Af-RTE-Antechinus_flavipe								
BovB_Ac-RTE-Anolis_carolinensi								
BovB_BM-RTE-Bombyx_mori								
BovB_Dr-RTE-Christinus								
BovB_La-RTE-Loxodonta_africana								
BovB_Pc-RTE-Procavia_capensis								
BovB_Et-RTE-Christinus								
BovB_Ta-RTE-Tachyglossus_acule								
BovB_Plat-RTE-Ornithorhynchus								
BovB_Ec-RTE-Equus_caballus								
BovB_Cg-RTE-Christinus								
BovB_Bh-RTE-Bothriocroton_hydr								
BovB_MI-RTE-Gehyra_variegata								
Sly-rnd1_family284-LINE/RTEBov								
Sly-rnd5_family2019-LINE/RTEBo								
Sly-rnd3_family322-LINE/RTEBov								
Sly-rnd5_family1698-LINE/RTEBo								
Sly-rnd1_family795-LINE/RTEBov								
Stu-rnd-5_family-3162_LINE_RTE								
Sly-rnd6_family1960-LINE/RTEBo								
Stu-rnd-5_family-2493_LINE_RTE								
Sly-rnd5_family447-LINE/RTEBov								
Stu-rnd-6_family-2093_LINE_RTE								
Consensus								
Conservation								

	160	180	200	
Stu-rnd-1_family-417_LINE_RTE				
Sly-rnd1_family377-LINE/RTEBov				
Stu-rnd-1_family-489_LINE_RTE				
Stu-rnd-1_family-607_LINE_RTE				
Stu-rnd-1_family-645_LINE_RTE				
Sly-rnd4_family81-LINE/RTEBovB				
Stu-rnd-6_family-408_LINE_RTE				
Stu-rnd-1_family-351_LINE_RTE				
Stu-rnd-1_family-382_LINE_RTE				
Sly-rnd6_family746-LINE/RTEBov				
Stu-rnd-5_family-325_LINE_RTE				
Sly-rnd4_family509-LINE/RTEBov				
Stu-rnd-1_family-513_LINE_RTE				
Sly-rnd5_family1442-LINE/RTEBo				
BovB_GI-RTE-Gehyra_lazelli				
BovB_Gv-RTE-Gehyra_variegata				
BovB_PMo-RTE-Python_molurus				
BovB_Oa-RTE-Ovis_aries				
BovB-RTE-Bos_taurus	AGCGGCCGAG	AGTACCAGAC	TGCGACGGCG	CAGGAACGGC
BovB_Me-RTE-Macropus_eugenii	CGAGAGGAGC	TACCCCGCGT	CCGAGGTCAG	210
BovB_Ano-RTE-Amphibolurus_norr				
BovB_Gd-RTE-Eremiascincus_doug				
BovB_Er-RTE-Eremiascincus_rich				
BovB_Ca-RTE-Ctenotus_atlas				
BovB_Es-RTE-Egernia_stokesii				
BovB_Tr-RTE-Tiliqua_rugosa				
BovB_ALi-RTE-Amblyomma_limbatu				
BovB_Hs-RTE-Hydrophis_spiralis				
BovB_VA-RTE-Vipera_ammodytes				
BovB_ACo-RTE-Agkistrodon_conto				
BovB_Pg-RTE-Perameles_gunnii				
BovB_lo-RTE-Isodon_obesulus				
BovB_Bp-RTE-Burramys_parvus				
BovB_Pb-RTE-Petaurus_breviceps				
BovB_Ma-RTE-Macropus_antilopin				
BovB_Af-RTE-Antechinus_flavipe				
BovB_Ac-RTE-Anolis_carolinensi				
BovB_BM-RTE-Bombyx_mori				
BovB_Dr-RTE-Christinus				
BovB_La-RTE-Loxodonta_africana				
BovB_Pc-RTE-Procavia_capensis				
BovB_Et-RTE-Christinus				
BovB_Ta-RTE-Tachyglossus_acule				
BovB_Plat-RTE-Ornithorhynchus				
BovB_Ec-RTE-Equus_caballus				
BovB_Cg-RTE-Christinus				
BovB_Bh-RTE-Bothriocroton_hydr				
BovB_MI-RTE-Gehyra_variegata				
Sly-rnd1_family284-LINE/RTEBov				
Sly-rnd5_family2019-LINE/RTEBo				
Sly-rnd3_family322-LINE/RTEBov				
Sly-rnd5_family1698-LINE/RTEBo				
Sly-rnd1_family795-LINE/RTEBov				
Stu-rnd-5_family-3162_LINE_RTE				
Sly-rnd6_family1960-LINE/RTEBo				
Stu-rnd-5_family-2493_LINE_RTE				
Sly-rnd5_family447-LINE/RTEBov				
Stu-rnd-6_family-2093_LINE_RTE				
Consensus				
Conservation				
100%				
0%				

	220	240	260	280
Stu-rnd-1_family-417_LINE_RTE-				
Sly-rnd1_family377-LINE/RTEBov				
Stu-rnd-1_family-489_LINE_RTE-				
Stu-rnd-1_family-607_LINE_RTE-				
Stu-rnd-1_family-645_LINE_RTE-				
Sly-rnd4_family81-LINE/RTEBovB				
Stu-rnd-6_family-408_LINE_RTE-				
Stu-rnd-1_family-351_LINE_RTE-				
Stu-rnd-1_family-382_LINE_RTE-				
Sly-rnd6_family746-LINE/RTEBov				
Stu-rnd-5_family-325_LINE_RTE-				
Sly-rnd4_family509-LINE/RTEBov				
Stu-rnd-1_family-513_LINE_RTE-				
Sly-rnd5_family1442-LINE/RTEBo				
BovB_GI-RTE-Gehyra_lazelli				
BovB_Gv-RTE-Gehyra_variegata				
BovB_PMo-RTE-Python_molurus				
BovB_Oa-RTE-Ovis_aries				
BovB-RTE-Bos_taurus	GGGGGGCGGC	CGAGAGGAGA	TACCCAGCGT	CCGAGGTCAG
BovB_Me-RTE-Macropus_eugenii				
BovB_Ano-RTE-Amphibolurus_norr				
BovB_Gd-RTE-Eremiascincus_doug				
BovB_Er-RTE-Eremiascincus_rich				
BovB_Ca-RTE-Ctenotus_atlas				
BovB_Es-RTE-Egernia_stokesii				
BovB_Tr-RTE-Tiliqua_rugosa				
BovB_ALi-RTE-Amblyomma_limbato				
BovB_Hs-RTE-Hydrophis_spiralis				
BovB_VA-RTE-Vipera_ammodytes				
BovB_ACo-RTE-Agkistrodon_conto				
BovB_Pg-RTE-Perameles_gunnii				
BovB_lo-RTE-Isodon_obesulus				
BovB_Bp-RTE-Burramys_parvus				
BovB_Pb-RTE-Petaurus_breviceps				
BovB_Ma-RTE-Macropus_antilopin				
BovB_Af-RTE-Antechinus_flavipe				
BovB_Ac-RTE-Anolis_carolinensi				
BovB_BM-RTE-Bombyx_mori				
BovB_Dr-RTE-Christinus				
BovB_La-RTE-Loxodonta_africana				
BovB_Pc-RTE-Procavia_capensis				
BovB_Et-RTE-Christinus				
BovB_Ta-RTE-Tachyglossus_acule				
BovB_Plat-RTE-Ornithorhynchus				
BovB_Ec-RTE-Equus_caballus				
BovB_Cg-RTE-Christinus				
BovB_Bh-RTE-Bothriocroton_hydr				
BovB_MI-RTE-Gehyra_variegata				
Sly-rnd1_family284-LINE/RTEBov				
Sly-rnd5_family2019-LINE/RTEBo				
Sly-rnd3_family322-LINE/RTEBov				
Sly-rnd5_family1698-LINE/RTEBo				
Sly-rnd1_family795-LINE/RTEBov				
Stu-rnd-5_family-3162_LINE_RTE				
Sly-rnd6_family1960-LINE/RTEBo				
Stu-rnd-5_family-2493_LINE_RTE				
Sly-rnd5_family447-LINE/RTEBov				
Stu-rnd-6_family-2093_LINE_RTE				
Consensus				
Conservation				

	300	320	340	
Stu-rnd-1_family-417_LINE_RTE				
Sly-rnd1_family377-LINE/RTEBov				
Stu-rnd-1_family-489_LINE_RTE				
Stu-rnd-1_family-607_LINE_RTE				
Stu-rnd-1_family-645_LINE_RTE				
Sly-rnd4_family81-LINE/RTEBovB				
Stu-rnd-6_family-408_LINE_RTE				
Stu-rnd-1_family-351_LINE_RTE				
Stu-rnd-1_family-382_LINE_RTE				
Sly-rnd6_family746-LINE/RTEBov				
Stu-rnd-5_family-325_LINE_RTE				
Sly-rnd4_family509-LINE/RTEBov				
Stu-rnd-1_family-513_LINE_RTE				
Sly-rnd5_family1442-LINE/RTEBo				
BovB_GI-RTE-Gehyra_lazelli				
BovB_Gv-RTE-Gehyra_variegata				
BovB_PMo-RTE-Python_molurus				
BovB_Oa-RTE-Ovis_aries				
BovB-RTE-Bos_taurus	CGAGGTCAGG	GGCGGCGGCC	GGGAGGAGCT	ACCCCAGGCC
BovB_Me-RTE-Macropus_eugenii				
BovB_Ano-RTE-Amphibolurus_norr				
BovB_Gd-RTE-Eremiascincus_doug				
BovB_Er-RTE-Eremiascincus_rich				
BovB_Ca-RTE-Ctenotus_atlas				
BovB_Es-RTE-Egernia_stokesii				
BovB_Tr-RTE-Tiliqua_rugosa				
BovB_ALi-RTE-Amblyomma_limbatu				
BovB_Hs-RTE-Hydrophis_spiralis				
BovB_VA-RTE-Vipera_ammodytes				
BovB_ACo-RTE-Agkistrodon_conto				
BovB_Pg-RTE-Perameles_gunnii				
BovB_lo-RTE-Isodon_obesulus				
BovB_Bp-RTE-Burramys_parvus				
BovB_Pb-RTE-Petaurus_breviceps				
BovB_Ma-RTE-Macropus_antilopin				
BovB_Af-RTE-Antechinus_flavipe				
BovB_Ac-RTE-Anolis_carolinensi				
BovB_BM-RTE-Bombyx_mori				
BovB_Dr-RTE-Christinus				
BovB_La-RTE-Loxodonta_africana				
BovB_Pc-RTE-Procavia_capensis				
BovB_Et-RTE-Christinus				
BovB_Ta-RTE-Tachyglossus_acule				
BovB_Plat-RTE-Ornithorhynchus				
BovB_Ec-RTE-Equus_caballus				
BovB_Cg-RTE-Christinus				
BovB_Bh-RTE-Bothriocroton_hydr				
BovB_MI-RTE-Gehyra_variegata				
Sly-rnd1_family284-LINE/RTEBov				
Sly-rnd5_family2019-LINE/RTEBo				
Sly-rnd3_family322-LINE/RTEBov				
Sly-rnd5_family1698-LINE/RTEBo				
Sly-rnd1_family795-LINE/RTEBov				
Stu-rnd-5_family-3162_LINE_RTE				
Sly-rnd6_family1960-LINE/RTEBo				
Stu-rnd-5_family-2493_LINE_RTE				
Sly-rnd5_family447-LINE/RTEBov				
Stu-rnd-6_family-2093_LINE_RTE				
Consensus				
Conservation				

350

	360	380	400	420				
Stu-rnd-1_family-417_LINE_RTE-								
Sly-rnd1_family377-LINE/RTEBov								
Stu-rnd-1_family-489_LINE_RTE-								
Stu-rnd-1_family-607_LINE_RTE-								
Stu-rnd-1_family-645_LINE_RTE-								
Sly-rnd4_family81-LINE/RTEBovB								
Stu-rnd-6_family-408_LINE_RTE-								
Stu-rnd-1_family-351_LINE_RTE-								
Stu-rnd-1_family-382_LINE_RTE-								
Sly-rnd6_family746-LINE/RTEBov								
Stu-rnd-5_family-325_LINE_RTE-								
Sly-rnd4_family509-LINE/RTEBov								
Stu-rnd-1_family-513_LINE_RTE-								
Sly-rnd5_family1442-LINE/RTEBo								
BovB_GI-RTE-Gehyra_lazelli								
BovB_Gv-RTE-Gehyra_variegata								
BovB_PMo-RTE-Python_molurus								
BovB_Oa-RTE-Ovis_aries								
BovB-RTE-Bos_taurus	GAGGAGCAAC	CCCACGCCCG	AGGCCAGGGG	CGGCGGCCGG	GAGGACCAAC	CCCACGTCCA	AGGAGCCGTG	420
BovB_Me-RTE-Macropus_eugenii								
BovB_Ano-RTE-Amphibolurus_norr								
BovB_Gd-RTE-Eremiascincus_doug								
BovB_Er-RTE-Eremiascincus_rich								
BovB_Ca-RTE-Ctenotus_atlas								
BovB_Es-RTE-Egernia_stokesii								
BovB_Tr-RTE-Tiliqua_rugosa								
BovB_ALi-RTE-Amblyomma_limbatu								
BovB_Hs-RTE-Hydrophis_spiralis								
BovB_VA-RTE-Vipera_ammodytes								
BovB_ACo-RTE-Agkistrodon_conto								
BovB_Pg-RTE-Perameles_gunnii								
BovB_lo-RTE-Isodon_obesulus								
BovB_Bp-RTE-Burramys_parvus								
BovB_Pb-RTE-Petaurus_breviceps								
BovB_Ma-RTE-Macropus_antilopin								
BovB_Af-RTE-Antechinus_flavipe								
BovB_Ac-RTE-Anolis_carolinensi								
BovB_BM-RTE-Bombyx_mori								
BovB_Dr-RTE-Christinus								
BovB_La-RTE-Loxodonta_africana								
BovB_Pc-RTE-Procavia_capensis								
BovB_Et-RTE-Christinus								
BovB_Ta-RTE-Tachyglossus_acule								
BovB_Plat-RTE-Ornithorhynchus								
BovB_Ec-RTE-Equus_caballus								
BovB_Cg-RTE-Christinus								
BovB_Bh-RTE-Bothriocroton_hydr								
BovB_MI-RTE-Gehyra_variegata								
Sly-rnd1_family284-LINE/RTEBov								
Sly-rnd5_family2019-LINE/RTEBo								
Sly-rnd3_family322-LINE/RTEBov								
Sly-rnd5_family1698-LINE/RTEBo								
Sly-rnd1_family795-LINE/RTEBov								
Stu-rnd-5_family-3162_LINE_RTE								
Sly-rnd6_family1960-LINE/RTEBo								
Stu-rnd-5_family-2493_LINE_RTE								
Sly-rnd5_family447-LINE/RTEBov								
Stu-rnd-6_family-2093_LINE_RTE								
Consensus								
Conservation								
	100%							
	0%							

	440	460	480	
Stu-rnd-1_family-417_LINE RTE				
Sly-rnd1_family377-LINE/RTEBov				
Stu-rnd-1_family-489_LINE RTE				
Stu-rnd-1_family-607_LINE RTE				
Stu-rnd-1_family-645_LINE RTE				
Sly-rnd4_family81-LINE/RTEBovB				
Stu-rnd-6_family-408_LINE RTE				
Stu-rnd-1_family-351_LINE RTE				
Stu-rnd-1_family-382_LINE RTE				
Sly-rnd6_family746-LINE/RTEBov				
Stu-rnd-5_family-325_LINE RTE				
Sly-rnd4_family509-LINE/RTEBov				
Stu-rnd-1_family-513_LINE RTE				
Sly-rnd5_family1442-LINE/RTEBo				
BovB_GI-RTE-Gehyra_lazelli				
BovB_Gv-RTE-Gehyra_variegata				
BovB_PMo-RTE-Python_molurus				
BovB_Oa-RTE-Ovis_aries				
BovB-RTE-Bos_taurus	GCTGCGCGGG	CACAGGAGGG	CCTAGAGGAG	CTATCCCACG TTGAAGGTCA GGAAGGGCGG CCGTGAGGAG 490
BovB_Me-RTE-Macropus_eugenii				
BovB_Ano-RTE-Amphibolurus_norr				
BovB_Gd-RTE-Eremiascincus_doug				
BovB_Er-RTE-Eremiascincus_rich				
BovB_Ca-RTE-Ctenotus_atlas				
BovB_Es-RTE-Egernia_stokesii				
BovB_Tr-RTE-Tiliqua_rugosa				
BovB_ALi-RTE-Amblyomma_limbatu				
BovB_Hs-RTE-Hydrophis_spiralis				
BovB_VA-RTE-Vipera_ammodytes				
BovB_ACo-RTE-Agkistrodon_conto				
BovB_Pg-RTE-Perameles_gunnii				
BovB_lo-RTE-Isodon_obesulus				
BovB_Bp-RTE-Burramys_parvus				
BovB_Pb-RTE-Petaurus_breviceps				
BovB_Ma-RTE-Macropus_antilopin				
BovB_Af-RTE-Antechinus_flavipe				
BovB_Ac-RTE-Anolis_carolinensi				
BovB_BM-RTE-Bombyx_mori				
BovB_Dr-RTE-Christinus				
BovB_La-RTE-Loxodonta_africana				
BovB_Pc-RTE-Procavia_capensis				
BovB_Et-RTE-Christinus				
BovB_Ta-RTE-Tachyglossus_acule				
BovB_Plat-RTE-Ornithorhynchus				
BovB_Ec-RTE-Equus_caballus				
BovB_Cg-RTE-Christinus				
BovB_Bh-RTE-Bothriocroton_hydr				
BovB_MI-RTE-Gehyra_variegata				
Sly-rnd1_family284-LINE/RTEBov				
Sly-rnd5_family2019-LINE/RTEBo				
Sly-rnd3_family322-LINE/RTEBov				
Sly-rnd5_family1698-LINE/RTEBo				
Sly-rnd1_family795-LINE/RTEBov				
Stu-rnd-5_family-3162_LINE RTE				
Sly-rnd6_family1960-LINE/RTEBo				
Stu-rnd-5_family-2493_LINE RTE				
Sly-rnd5_family447-LINE/RTEBov				
Stu-rnd-6_family-2093_LINE RTE				
Consensus				
Conservation				
100%				
0%				

	500	520	540	560				
Stu-rnd-1_family-417_LINE_RTE								
Sly-rnd1_family377-LINE/RTEBov								
Stu-rnd-1_family-489_LINE_RTE								
Stu-rnd-1_family-607_LINE_RTE								
Stu-rnd-1_family-645_LINE_RTE								
Sly-rnd4_family81-LINE/RTEBovB								
Stu-rnd-6_family-408_LINE_RTE								
Stu-rnd-1_family-351_LINE_RTE								
Stu-rnd-1_family-382_LINE_RTE								
Sly-rnd6_family746-LINE/RTEBov								
Stu-rnd-5_family-325_LINE_RTE								
Sly-rnd4_family509-LINE/RTEBov								
Stu-rnd-1_family-513_LINE_RTE								
Sly-rnd5_family1442-LINE/RTEBo								
BovB_GI-RTE-Gehyra_lazelli		TTT	TCTTTTCTT	TTTGAGGACA	TCGTCTTTAA	AAAACGTTTC	ATTGAAGGAA	53
BovB_Gv-RTE-Gehyra_variegata								
BovB_PMo-RTE-Python_molurus								
BovB_Oa-RTE-Ovis_aries								
BovB-RTE-Bos_taurus	ATACCCCTCG	TCCAAGGTAA	GGAGCAGCGG	CTGCGCTTTG	CTGGAGCAGC	CGTGAAGAGA	TACCCACGC	560
BovB_Me-RTE-Macropus_eugenii								
BovB_Ano-RTE-Amphibolurus_norr								
BovB_Gd-RTE-Eremiascincus_doug								
BovB_Er-RTE-Eremiascincus_rich	GCACAATAGA	-GCAGGCAAG	ATCTGTGCTT	CGCTTCCCG	TCGTGCTTC	CCCGGTGTA	TCGGAACAGC	116
BovB_Ca-RTE-Ctenotus_atlas	CCATCTTGAA	CATCTGCTAT	ATTTTGAATG	ATATATTTAA	ATCTGCTATA	TTTTGAGTGA	GGATCATTGC	108
BovB_Es-RTE-Egernia_stokesii								
BovB_Tr-RTE-Tiliqua_rugosa								
BovB_ALi-RTE-Amblyomma_limbatu			CCAAGGTAC	CTTTGAGTGC	CGGATTTATT	TCAGACACAC	GCATCCCTAC	50
BovB_Hs-RTE-Hydrophis_spiralis								
BovB_VA-RTE-Vipera_ammodytes								
BovB_ACo-RTE-Agkistrodon_conto								
BovB_Pg-RTE-Perameles_gunnii								
BovB_lo-RTE-Isodon_obesulus								
BovB_Bp-RTE-Burramys_parvulus								
BovB_Pb-RTE-Petaurus_breviceps								
BovB_Ma-RTE-Macropus_antilopin								
BovB_Af-RTE-Antechinus_flavipe								
BovB_Ac-RTE-Anolis_carolinensi								
BovB_BM-RTE-Bombyx_mori								
BovB_Dr-RTE-Christinus								
BovB_La-RTE-Loxodonta_africana								
BovB_Pc-RTE-Procavia_capensis								
BovB_Et-RTE-Christinus								
BovB_Ta-RTE-Tachyglossus_acule			ATT	ATCCTGAAAC	AAAGTTCTCC	AACGAATCAA	TACCTTACCA	43
BovB_Plat-RTE-Ornithorhynchus					-ACTCTCTCC	TATGAATCAA	CGCCTTACCG	29
BovB_Ec-RTE-Equus_caballus								
BovB_Cg-RTE-Christinus								
BovB_Bh-RTE-Bothriocroton_hydr								
BovB_MI-RTE-Gehyra_variegata								
Sly-rnd1_family284-LINE/RTEBov								
Sly-rnd5_family2019-LINE/RTEBo								
Sly-rnd3_family322-LINE/RTEBov								
Sly-rnd5_family1698-LINE/RTEBo								
Sly-rnd1_family795-LINE/RTEBov								
Stu-rnd-5_family-3162_LINE_RTE								
Sly-rnd6_family1960-LINE/RTEBo								
Stu-rnd-5_family-2493_LINE_RTE								
Sly-rnd5_family447-LINE/RTEBov								
Stu-rnd-6_family-2093_LINE_RTE								
Consensus								
Conservation								

	580		600		620			
Stu-rnd-1_family-417_LINE_RTE								
Sly-rnd1_family377-LINE/RTEBov								
Stu-rnd-1_family-489_LINE_RTE								
Stu-rnd-1_family-607_LINE_RTE								
Stu-rnd-1_family-645_LINE_RTE								
Sly-rnd4_family81-LINE/RTEBovB								
Stu-rnd-6_family-408_LINE_RTE								
Stu-rnd-1_family-351_LINE_RTE								
Stu-rnd-1_family-382_LINE_RTE								
Sly-rnd6_family746-LINE/RTEBov								
Stu-rnd-5_family-325_LINE_RTE								
Sly-rnd4_family509-LINE/RTEBov								
Stu-rnd-1_family-513_LINE_RTE								
Sly-rnd5_family1442-LINE/RTEBo								
BovB_GI-RTE-Gehyra_lazelli	AGTTCCTCAG	CTCTTGGCAC	ACATCTCCAG	GATACCTTTA	ATAAAGAAAA	AATTTTTATC	ATTTAATTAT	123
BovB_Gv-RTE-Gehyra_variegata	-----TTCAA	CTTCCGAAGC	AAAAGT--AG	GTGATGATTA	AGAATAAAAT	AACAGTTGTC	AT-----GG	57
BovB_PMo-RTE-Python_molurus								
BovB_Oa-RTE-Ovis_aries								
BovB-RTE-Bos_taurus	CCAAGGTAAG	AGAAACCCAA	GTAAGACGGT	AGGTGTTGCA	AGAGGGCATC	AGAGGGCAGA	CACACTGAAA	630
BovB_Me-RTE-Macropus_eugenii								
BovB_Ano-RTE-Amphibolurus_norr	----TGAAAT	ACAGAAGTAG	AAAGCAAAGT	TTGTGTTAGT	AATTACTCAT	GGTAATATTT	AAGTGGGATT	66
BovB_Gd-RTE-Eremiascincus_doug								
BovB_Er-RTE-Eremiascincus_rich	TCAGAATGCC	AACAACCCGT	TTCCTAAGGG	TGGTTTTGGG	TCTGAGTAAG	GTAACGTTTC	AAACCCCTTA	186
BovB_Ca-RTE-Ctenotus_atlas	CTTGTCTTGT	CTTGTAAGA	CACCTTAAAG	CACCAAGAAG	TGAAAGGCCG	GATACAAATA	AACATAAACA	178
BovB_Es-RTE-Egernia_stokesii								
BovB_Tr-RTE-Tiliqua_rugosa								
BovB_ALI-RTE-Amblyomma_limbatu	GGTGATAAAG	GGCGAACGCT	GTCCACGCCG	GAGACCATCC	TCTCACAGCG	AGAACATTAT	TGGGTCAGTA	120
BovB_Hs-RTE-Hydrophis_spiralis								
BovB_VA-RTE-Vipera_ammodytes								
BovB_ACo-RTE-Agkistrodon_conto								
BovB_Pg-RTE-Perameles_gunnii								
BovB_lo-RTE-Isodon_obesulus								
BovB_Bp-RTE-Burramys_parvulus								
BovB_Pb-RTE-Petaurus_breviceps								
BovB_Ma-RTE-Macropus_antilopin								
BovB_Af-RTE-Antechinus_flavipe								
BovB_Ac-RTE-Anolis_carolinensi								
BovB_BM-RTE-Bombyx_mori								
BovB_Dr-RTE-Christinus								
BovB_La-RTE-Loxodonta_africana								
BovB_Pc-RTE-Procavia_capensis								
BovB_Et-RTE-Christinus								
BovB_Ta-RTE-Tachyglossus_acule	GGGTCAGGAG	AGTGAGCATA	CGCCAATGAA	ACTTAGAGCA	ATGCCACTGA	GAGATACTCT	CTCACAAAGG	113
BovB_Plat-RTE-Ornithorhynchus	TGG-CAGGAG	AGTTTGCCTA	CGCCAATGAA	GCTTAGAGCT	ATGCCATTGA	GAGATACTCT	--CGCTAGG	96
BovB_Ec-RTE-Equus_caballus								
BovB_Cg-RTE-Christinus								
BovB_Bh-RTE-Bothriocroton_hydr								
BovB_MI-RTE-Gehyra_variegata								
Sly-rnd1_family284-LINE/RTEBov								
Sly-rnd5_family2019-LINE/RTEBo								
Sly-rnd3_family322-LINE/RTEBov								
Sly-rnd5_family1698-LINE/RTEBo								
Sly-rnd1_family795-LINE/RTEBov								
Stu-rnd-5_family-3162_LINE_RTE								
Sly-rnd6_family1960-LINE/RTEBo								
Stu-rnd-5_family-2493_LINE_RTE								
Sly-rnd5_family447-LINE/RTEBov								
Stu-rnd-6_family-2093_LINE_RTE								
Consensus								
Conservation								

	640	660	680	700	
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-
BovB_GI-RTE-Gehyra_lazelli	ATTTTAAATC	CCTCTCATGG	ATCA --- TTG	CCTTGACGCG	GCGAGGGGG- CTTGCGTGGT TCGATGAGGC 189
BovB_Gv-RTE-Gehyra_variegata	ATCATTG - - C	CCTCTCATGG	ATCA --- TTG	CCTTGATGTG	GCGAGGGGG- CTTGCGTGGT TCGATGAGGC 121
BovB_PMo-RTE-Python_molurus	ACCCCCA - - C	CCCTTCATGG	ATCA --- CTG	CCTTGTCTGTG	GCGAAGGGG- CTTGCGTAAAC TCAGTGAAGC 64
BovB_Oa-RTE-Ovis_aries	ACCACAATCA	CCCTTCATGG	ATCA --- CAG	CCTTGTCTATG	GCAAACGGG- CTTGTATAAC TCAATGAAAC 87
BovB-RTE-Bos_taurus	-CCATACTCA	CAGAAAATA	GTCAATCTAA	TCACACTAGG	ACCA - CAGC- CTTGTCTAAC TCAATGAAAC 697
BovB_Me-RTE-Macropus_eugenii	-----	-----	-----	-----	-
BovB_Ano-RTE-Amphibolurus_norr	ATTTTACACC	CCCTTCATGG	ATTG --- CTG	CCTTGTCTGTG	GCGAAGGGG- CTTGAGTAAAC TCAGAGAAGC 132
BovB_Gd-RTE-Eremiascincus_doug	-----	-----	-----	-----	-
BovB_Er-RTE-Eremiascincus_rich	GTGTCCTCCTC	CCTTTCATAC	AACA --- AAC	CTCTCGTAGC	GAAAAGGGG- CTTGAGTAAAC TCAATGAAGC 252
BovB_Ca-RTE-Ctenotus_atlas	AGTGTCCC - C	CCTTACAGAG	ATCA --- CTG	CCTTGTGTGTG	GCAAAGGGG- CTTGAGTAGC TCAGTGAAGC 243
BovB_Es-RTE-Egernia_stokesii	CAAGATTGGC	CCCTTCATGG	ATCA --- CTG	CCTTGTCTGTG	GCAAAGGGG- CTTGAGTAAAC TCAATGAGGC 68
BovB_Tr-RTE-Tiliqua_rugosa	CATACCCCCC	CCCTTCATGG	ATCA --- CTG	CCTTGTGTGTG	GCGAAGGGG- CTTGAGTAAAC TCAGTGAAGC 91
BovB_ALi-RTE-Amblyomma_limbato	TATTCCGTCC	CTCTACATAG	ACTA --- CTG	CCTTGTCTGTG	GCGAAGGGGG CTTGCGTAGC TCACGGAAGC 187
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-
BovB_VA-RTE-Vipera_ammodytes	-----	-CTTCCATGG	ATTA --- CTG	CCTTGTCTGTG	GCGAAGGGG- CTTGCATAAT TCAATGAAGC 55
BovB_ACo-RTE-Agkistrodon_conto	-----	-A CCCTTCATGG	ATTA --- CTG	CCTTGTCTGTG	GCGAAGGGG- CTTGCGTAAAC TCAATGAAGC 57
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-
BovB_Ma-RTE-Macropus_antilopin	-----	-T CTGTAATAT	AGGCATATGC	TACCATATGA	TGTCCTCCTT CCTATGTATA TGTATGCATA 61
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----	-
BovB_Ac-RTE-Anolis_carolinensi	-----	-----	-----	-----	-
BovB_BM-RTE-Bombyx_mori	-----	-----	-----	-----	-
BovB_Dr-RTE-Christinus	-----	-----	-----	-----	-
BovB_La-RTE-Loxodonta_africana	-----	-----	-----	-TTGTC	GTACTGTGGG GGCTTGCGTG TTGCTGTGAT ACTGGAAGCT 45
BovB_Pc-RTE-Procavia_capensis	-----	-----	-----	-CTTGTGTC	TGTCAGTGGA GGCTTGCTTG TTGCTGTGAT GCAGGAAGCT 46
BovB_Et-RTE-Christinus	-----	-----	-----	-----	-
BovB-Ta-RTE-Tachyglossus_acule	TTACCCATAA	CGGAAAAGTC	TAAGCCAAAG	AATCAGACAA	AGTTGATTCA CCTGTGCTGG GCAGCA - GCG 182
BovB_Plat-RTE-Ornithorhynchus	TTACCCATAA	TGAAAAGGTC	TAAGCGGAAG	CGTCAGACAA	AGTTGATTTCG CCTGTGCTGG GCAGCA - GCG 165
BovB_Ec-RTE-Equus_caballus	-----	-----	-----	-----	-
BovB_Cg-RTE-Christinus	-----	-----	-----	-----	-
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-
Consensus	-----	-----	-----	-----	-



	720		740		760	
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	TGTGGGCTAT	GCCG - - TGGA	GGGCCACCCA	GGA - CGGACA	GGCCACAACA	GAG - - AACTC A - - - - - GACA 249
BovB_Gv-RTE-Gehyra_variegata	TGTGGGCTAT	GCCG - - TGGA	GGGCCACCCA	GGA - CGGACA	GGCCACAACA	GAG - - AACTC A - - - - - GACA 181
BovB_PMo-RTE-Python_molurus	CATGAGCTAT	ACCG - - TGCA	GGGCCACCCA	AGA - CGGACA	GGTCATGACA	GAG - - AGTTC T - - - - - GACA 124
BovB_Oa-RTE-Ovis_aries	TATGAGCCAT	GCCA - - TGCA	GGGCCACCCA	AGA - TGGACG	GGTCATAGTG	GAG - - AGTTC T - - - - - GACA 147
BovB-RTE-Bos_taurus	TA - - AGCCAT	GCC - - CGTG	GGGCAACCCA	AGA - TGGGCG	GGTCATGGTG	GAG - - AGATC T - - - - - GACA 754
BovB_Me-RTE-Macropus_eugenii	-----	-----	-----	-----	-----	-----
BovB_Ano-RTE-Amphibolurus_norr	TATGGGCTAT	GCCG - - TGCA	GGGACACCCA	AGA - CGGACA	GGACATAGTG	GAG - - AGTTC C - - - - - GACT 192
BovB_Gd-RTE-Eremiascincus_doug	-----	-----	-----	-----	-----	-----
BovB_Er-RTE-Eremiascincus_rich	AGTGAACCTAT	GCCATGTAGG	G - - TTACCCA	AGA - TGGACA	GGTCATAGTA	GAG - - AGTTC T - - - - - GACT 312
BovB_Ca-RTE-Ctenotus_atlas	TGTGAACCTAT	GCCATGTAGA	GATTTCCCCA	AGA - TGGACA	GGTCAAAGTA	GAA - - AGTTC T - - - - - GACT 305
BovB_Es-RTE-Egernia_stokesii	TATGAGCTAT	GCT - - GTGTA	GGGACACCCA	AGA - TAGACA	GGTCATAGCA	GAGAAAGCTC TAAAGGGACT 135
BovB_Tr-RTE-Tiliqua_rugosa	TATGAGCTAT	GCCA - GGGTG	GGGACACCCA	AGA - TGGACA	GGTCATAGCA	GAG - - AGTTC T - - - - - GACT 152
BovB_ALi-RTE-Amblyomma_limbato	TATGAGCTAT	GCCG - - TGCA	GGGTCACCCA	AGA - CGGACA	GGTCATAGCA	GAG - - AGTTC T - - - - - TACA 247
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	TATGAGCTAT	GCCG - - TGCA	GGGCCACCCA	AGA - CGGAAA	GGTCATAGCA	GAG - - AGTTC T - - - - - GACA 115
BovB_ACo-RTE-Agkistrodon_conto	TATGAGCTAT	GCCG - - TGCA	GGGCCACCCA	AGATCGGACA	GGTCATAGCA	GAG - - AGTTC T - - - - - GACA 118
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopini	TATGTGTGCA	TTACAAGTG	TGTATATATA	TATCTATCCA	TCTATATCTA	TTTATCTCTC CTTCTAGATC 131
BovB_Af-RTE-Antechinus_flavipes	-----	-----	-----	-----	-----	-----
BovB_Ac-RTE-Anolis_carolinensis	CATGAGCTAC	CG - - - - TGCA	GGGCCACCCA	AGA - CGGGAA	GGTCATGGCA	GAG - - AGGTC A - - - - - GACT 77
BovB_BM-RTE-Bombyx_mori	-----	-----	-----	-----	-----	-----
BovB_Dr-RTE-Christinus	-----	-----	-----	-----	-----	-----
BovB_La-RTE-Loxodonta_africana	ATGCCACTGG	TATTCAAATA	CCAGCAGGGT	CACCCATGGA	AGACAGGTTT	CAGCTGAGCT TCCAGACTAA 115
BovB_Pc-RTE-Procavia_capensis	ATGCCACTGG	TATTTAGGTA	CCAGCAGGGT	CAACCATGGT	AGACAAGTTT	CAGCTGAGCT TCCAGACTAA 116
BovB_Et-RTE-Christinus	-----	-----	-----	-----	-----	-----
BovB-Ta-RTE-Tachyglossus_acule	GCA TGGGAGA	GAGTCAAAGG	CAGATGAACA	AATGATCAAA	ATGTGGATCA	AA - ACAACGG CAGAGACTCA 251
BovB_Plat-RTE-Ornithorhynchus	GCATGGGAAA	GAGTCAAAGG	CGGNTGATCA	AATGATCAAA	ATGTTGATCA	AAGACAACGG CAGAGACTCA 235
BovB_Ec-RTE-Equus_caballus	-----	-----	-----	-----	-----	-----
BovB_Cg-RTE-Christinus	-----	-----	-----	-----	-----	-----
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----
Consensus	-----	-----	-----	-----	-----	-----



	780	800	820	840					
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----				
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----				
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----				
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----				
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----				
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----				
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----				
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----				
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----				
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----				
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----				
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----				
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----				
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----				
BovB_GI-RTE-Gehyra_lazelli	AAATGTGATC	CAC - TGGAGG	AGGAAATGGC	AA - CCCACTC	CAGTATCTTT	GCCAAGAAAA	CCCTATGGAC	317	
BovB_Gv-RTE-Gehyra_variegata	AAATGTGATC	CAC - TGGAGG	AGGAAACGGC	AA - CCCACTC	CAGTATCTTT	GCCAAGAAAA	CCCTATGGAC	249	
BovB_PMo-RTE-Python_molurus	AAATGTGGTC	CAC - TGGAGA	AGGAAATGGC	AA - CCCACTC	CAGTATCCTT	GCCAAGAAAA	CCCCATGGAC	192	
BovB_Oa-RTE-Ovis_aries	AAATGTGGTC	CAC - TGGAGA	AGGGAATGGC	AA - ACCACTC	CAGTATCTT	GCCTTGAGAA	CCCCATGAAC	215	
BovB-RTE-Bos_taurus	GAATGTGGTC	CAC - TGGAGA	AGGGAATGGC	AA - ACCACTT	CAGTATCTT	GCCTTGAGAA	CCCCATGAAC	822	
BovB_Me-RTE-Macropus_eugenii	-----	-----	-----	---	TATCTTT	GCCA - GGAAA	GCCCCATGGAC	26	
BovB_Ano-RTE-Amphibolurus_norr	AAACGCAATC	CACCTGGAGT	AGGAACTGGC	AATGCCACTC	CAGTATCTTT	GCCAAGAAAA	CCCCATGATC	262	
BovB_Gd-RTE-Eremiascincus_doug	-----	-----	-----	-----	-----	-----	-----	-	
BovB_Er-RTE-Eremiascincus_rich	AAACGTGATC	CGC - TGGAGA	AGGAAATAGG	CAACCCACTC	CAGTACTCTT	GCCAAGAAAA	CCCCATGAAC	381	
BovB_Ca-RTE-Ctenotus_atlas	AAACGTGATC	CGC - TGGAGA	AGGAAATGGG	CAACCCACTC	CAGTACTCTT	GCCAAGAAAA	CCCCATGGAT	374	
BovB_Es-RTE-Egernia_stokesii	AAACGTGATC	CAC - TGAAGA	AGGAAAT - GA	CAACCCACTC	CAGCATCCTT	ACCAAGAAAA	CCCTATGAAC	203	
BovB_Tr-RTE-Tiliqua_rugosa	AAACGTGATC	CAC - TGGAGA	AGGAAAT - GG	CAACCCACTC	CAGTATCCTT	GCCAAGAAAA	CCCTATGGAC	220	
BovB_ALi-RTE-Amblyomma_limbatu	AAACATGATT	CAA - TAGAGA	AGGAAATGGC	AA - CCCACTC	CAATATCTCT	GCCATGAAAA	CTCCATCGAT	315	
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----	-	
BovB_VA-RTE-Vipera_ammodytes	AAACGTGATC	CAC - TGGAGA	AGGAAATGGC	AA - CCCACTC	CAGTATCTTT	GCCATGAAAA	CCCTATGGAC	183	
BovB_ACo-RTE-Agkistrodon_conto	AAATGTGATC	CAC - TGGAGA	AGGAAATGGC	AA - CCCACTC	CAGTATCTTT	GCCATGAAAA	CCCCATGGAC	186	
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----	-	
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----	-	
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----	-----	-	
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----	-----	-	
BovB_Ma-RTE-Macropus_antilopin	ACTGCCTCTC	CTTCTGAATC	ACTGCCTTGT	TGAGGTGGAG	GGGCTTGCA	AGCTCAATGA	AGCTATGAGC	201	
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----	-----	-----	-----	-	
BovB_Ac-RTE-Anolis_carolinensi	AAATACGATC	CCT - GGGGA	AGGTAATGGC	AA - CCCACCC	CAGTATCTT	GCCATGAAAA	CTACATGGAT	144	
BovB_BM-RTE-Bombyx_mori	-----	-----	-----	-----	-----	---	CCAAGAA	7	
BovB_Dr-RTE-Christinus	-----	---	TGAGGA	AAGCAATGGC	AAACTACTC	ACAATTTTGG	ACAA - AAAA	CTTTATGGAT	54
BovB_La-RTE-Loxodonta_africana	GACAG - - ACT	AGGAAGAAGG	ACCCGGAAGT	CTACTTCTGA	AAAGAATTAG	CCAGTGAAAA	CCTTATGAAT	183	
BovB_Pc-RTE-Procavia_capensis	GACAG - - ACT	AGGAAGAAGG	ACCTGGCAGT	CTACTTCTGA	AAAGAATTAG	CCAGGGAAAA	CCTTATGAAT	184	
BovB_Et-RTE-Christinus	-----	-----	-----	-----	---	AAGTCCTA -	TGAATGAAAA	CAACATG - - -	25
BovB-Ta-RTE-Tachyglossus_acule	GGTTTTCACT	GCGCGGAAGG	AGGCAATGGT	AAACCCTTC	TTTACTTTTA	CCAA - GAAAA	CTCTATGGAT	320	
BovB_Plat-RTE-Ornithorhynchus	AGTTTTCACT	GCGCGGAAGG	AGGCAACGGT	AAACCCTTC	CGTATTTTAA	CCAA - GAAAA	CTCTATGGAT	304	
BovB_Ec-RTE-Equus_caballus	GCAGAAGGCA	ATGGTAAACC	ACTGCTGTAT	TTTCTTTTT	TTTTTTTTT	ACCTTGAAAA	CCCTATGATG	77	
BovB_Cg-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	-	
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----	-	
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	-	
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-	
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-	
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-	
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-	
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-	
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-	
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-	
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-	
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-	
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-	
Consensus	-----	-----	-----	-----	-----	-----	-----	-	
Conservation									

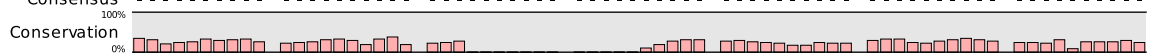
	860		880		900				
Stu-rnd-1_family-417_LINE_RTE	---	---	---	---	---	---			
Sly-rnd1_family377-LINE/RTEBov	---	---	---	---	---	---			
Stu-rnd-1_family-489_LINE_RTE	---	---	---	---	---	---			
Stu-rnd-1_family-607_LINE_RTE	---	---	---	---	---	---			
Stu-rnd-1_family-645_LINE_RTE	---	---	---	---	---	---			
Sly-rnd4_family81-LINE/RTEBovB	---	---	---	---	---	---			
Stu-rnd-6_family-408_LINE_RTE	---	---	---	---	---	---			
Stu-rnd-1_family-351_LINE_RTE	---	---	---	---	---	---			
Stu-rnd-1_family-382_LINE_RTE	---	---	---	---	---	---			
Sly-rnd6_family746-LINE/RTEBov	---	---	---	---	---	---			
Stu-rnd-5_family-325_LINE_RTE	---	---	---	---	---	---			
Sly-rnd4_family509-LINE/RTEBov	---	---	---	---	---	---			
Stu-rnd-1_family-513_LINE_RTE	---	---	---	---	---	---			
Sly-rnd5_family1442-LINE/RTEBo	---	---	---	---	---	---			
BovB_GI-RTE-Gehyra_lazelli	---	AGAAACA	AAAGGCTAAA	AGATATGACG	CTGGAAGATG	AGCCCCTCAG	GTCGGAAGGT	GTCAG--ATA	382
BovB_Gv-RTE-Gehyra_variegata	---	AGAAACA	AAAGGCTAAA	AGATATGACG	CCGGAAGATG	AGCCCCTCAG	GTCGGAAGGT	GTCAG--ATA	314
BovB_PMo-RTE-Python_molurus	---	AATGTTA	AAAGGCTAAA	AGATATGACG	CCGGAAGATG	AGCCCCTCAG	GTCGGAAGGT	GTCCA--ATA	257
BovB_Oa-RTE-Ovis_aries	---	AGTATGA	AAAGGCAAAA	AGATATGACA	CTGAAAGATG	AGCCCCCAG	GTCAGAAGGT	GTCCA--ATA	280
BovB-RTE-Bos_taurus	---	AGTATGA	AAAGGCAAAA	TGATAGGATA	CTGAAAGAGG	AACTCCCCAG	GTCAGTAGGT	GCCCA--ATA	887
BovB_Me-RTE-Macropus_eugenii	---	AGTATGA	AAAGGCAAAA	ATATGTGATG	CTAGAAGCTG	AGCCCCTCAG	GTTGG-AAAT	GTCCA--ACA	90
BovB_Ano-RTE-Amphibolurus_norr	---	AGAAACA	AAAGGCTAAA	AGATATGACG	CTGGAAGATG	AGCCCCTCAG	GTCGGAAGGT	GTCCA--ACA	327
BovB_Gd-RTE-Eremiascincus_doug	---	---	---	---	---	---	---	---	---
BovB_Er-RTE-Eremiascincus_rich	TACAGTACTA	AAAGGCTAAA	CGATATGACA	CTGGAAGATG	AGCCCCTCAG	GTCGGAAGGT	GTCCA--TTA	449	
BovB_Ca-RTE-Ctenotus_atlas	TGCAAAACTA	AAAGGCTAAA	CGATATGACA	CTGGAAGATG	AGACCCCCAG	GTCGGAAGGT	GTCCA--TTA	442	
BovB_Es-RTE-Egernia_stokesii	TTAAGTATCA	AAAGGCTAAA	AGATATGATG	CAAGAAGATG	AGCCCCTCAG	GTCAGAAGGT	ATCCA--ATA	271	
BovB_Tr-RTE-Tiliqua_rugosa	TTTTGTATCA	AAAGGCTAAA	AGATACGATG	CTGGAAGATG	AGCCCCTCAG	GTCAGAAGGT	ATCCA--ATA	288	
BovB_ALI-RTE-Amblyomma_limbata	---	ACAACCA	AAAAGCAAAA	AGATATGACA	TAAAAAGATC	AGCCATTGAG	GTCGGAAGGT	GTCCA--ATA	380
BovB_Hs-RTE-Hydrophis_spiralis	---	---	---	---	---	---	---	---	---
BovB_VA-RTE-Vipera_ammodytes	---	AGTACCA	AAAGGCAATA	CGATATGACG	CTGGAAGATG	AGCCCCTCAG	GTCGGAAGGT	ATCCA--ATA	248
BovB_ACo-RTE-Agkistrodon_conto	---	AGTACCA	AAAGGCAAAA	AGATATGACG	CTGGAAGATG	AGCCCCTCAG	GTCGGAAGGT	GTCCA--ATA	251
BovB_Pg-RTE-Perameles_gunnii	---	---	---	---	---	---	---	---	---
BovB_lo-RTE-Isodon_obesulus	---	---	---	---	---	---	---	---	---
BovB_Bp-RTE-Burramys_parvulus	---	---	---	---	---	---	---	---	---
BovB_Pb-RTE-Petaurus_breviceps	---	---	---	---	---	---	---	---	---
BovB_Ma-RTE-Macropus_antilopin	TATAGTACCC	AAGATGGACA	GGTCATAGTG	GAGAGTTCG	ACACAAGGTG	ATCCACTTGA	GAAGG--AAA	269	
BovB_Af-RTE-Antechinus_flavipe	---	---	---	---	---	---	---	---	---
BovB_Ac-RTE-Anolis_carolinensi	CAGTACAACC	AGAGAAATGT	CGGTATACCA	TCAGAAGATA	GGACCCCCAG	GTCGGAAGAT	GACCA--AAA	212	
BovB_BM-RTE-Bombyx_mori	A--ACCTCA	TGATGTCGAC	AGATATATTA	TTTGTATGTT	TCTCATGCGA	CCCAGTACG	CACCGCGGCC	74	
BovB_Dr-RTE-Christinus	C--ACAAC	CAATGCTTTC	AAATATGGTG	CTGGAAGGTA	GGCCCCCTGG	GTCGGAAGGT	ATCT--CACG	119	
BovB_La-RTE-Loxodonta_africana	A--GCAGCG	GAACATTGTC	TGATATAGTG	CTGGAAGATG	AGCCCCCCAG	GTTGGAAGGT	ACTCA--AAA	248	
BovB_Pc-RTE-Procavia_capensis	A--GCAGCT	GAACATTGTC	AGATATGGTG	CCGGAAGATG	AGCCCCCCAG	GTTGGAAGGT	ACTCA--GAA	249	
BovB_Et-RTE-Christinus	---TTGTA	TATCACTGTG	AGATATATTG	TCAGAGGATG	GGACCCCTGG	GTCGGAAGGT	ACTCA--AAA	88	
BovB-Ta-RTE-Tachyglossus_acule	ACACATACCA	GAATGACTAC	AGATATAGTG	CTGGAAGATG	AGCCCCTCAG	GTTGGAAGGT	ACTCA--ACG	388	
BovB_Plat-RTE-Ornithorhynchus	ACACATACCA	GAACGACTAC	AGATATAGTG	CTGGAAGATG	AGCCCCTCAG	GTCGGAAGGT	ACTCA--ACG	372	
BovB_Ec-RTE-Equus_caballus	AGACAGTCCA	AAATGAAAATA	TGAGATAGTG	CTGGAAGATG	AGACCCCCAG	GTCAGAAGGT	ACTCA--AAC	145	
BovB_Cg-RTE-Christinus	---	---	---	---	---	---	---	---	---
BovB_Bh-RTE-Bothriocroton_hydr	---	---	---	---	---	---	---	---	---
BovB_MI-RTE-Gehyra_variegata	---	---	---	---	---	---	---	---	---
Sly-rnd1_family284-LINE/RTEBov	---	---	---	---	---	---	---	---	---
Sly-rnd5_family2019-LINE/RTEBo	---	---	---	---	---	---	---	---	---
Sly-rnd3_family322-LINE/RTEBov	---	---	---	---	---	---	---	---	---
Sly-rnd5_family1698-LINE/RTEBo	---	---	---	---	---	---	---	---	---
Sly-rnd1_family795-LINE/RTEBov	---	---	---	---	---	---	---	---	---
Stu-rnd-5_family-3162_LINE_RTE	---	---	---	---	---	---	---	---	---
Sly-rnd6_family1960-LINE/RTEBo	---	---	---	---	---	---	---	---	---
Stu-rnd-5_family-2493_LINE_RTE	---	---	---	---	---	---	---	---	---
Sly-rnd5_family447-LINE/RTEBov	---	---	---	---	---	---	---	---	---
Stu-rnd-6_family-2093_LINE_RTE	---	---	---	---	---	---	---	---	---
Consensus	---	---	---	---	---	---	---	---	---



	920	940	960	980				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----				
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----				
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----				
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----				
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----				
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----				
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----				
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----				
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----				
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----				
BovB_GI-RTE-Gehyra_lazelli	TGCTACTGGG	GAAGAGCAGA	GGGCAAGTAC	AAGTAACCCC	A - - GAAAGAA	TGAAGCGGCT	GG - GCCAAAG	449
BovB_Gv-RTE-Gehyra_variegata	TGCTACTGGG	GAAGAGCAGA	GGGCAAGTAC	AAGTAACCCC	A - - GAAAGAA	TGAAGCGGCT	GG - GCCAAAG	381
BovB_PMo-RTE-Python_molurus	TGCTACTGGG	GAAGAGCGGA	GGGCAATTCC	AAGTAGCTCC	A - - GAAAGAG	TGAAGCGGCT	GG - GCCAAAG	324
BovB_Oa-RTE-Ovis_aries	TGCTACTGGA	GAAGAGTGGG	GAGCAATTAC	TAATAGCTCC	A - - GAAAGAA	TGAAGAGGCT	GG - GCCAAAG	347
BovB-RTE-Bos_taurus	TGCTACTGGA	GATCAGTGGG	GA - - - - -	- AATAACTCC	A - - GAAAGAA	TGAAGGGATG	GA - GCCAAAG	945
BovB_Me-RTE-Macropus_eugenii	TGCTACTGGA	GAGAAG - AGA	GTACAACCTC	AAGTAACCTC	A - - GACTAA	TGAAGTGGAT	GG - GCTAAAG	156
BovB_Ano-RTE-Amphibolurus_norr	TGCTACTGAG	GAAGAGCGGA	GGACAATTAC	AAGTAGCTCC	A - - GAGCTAA	TGAAGTGTTT	GG - GCCAAAG	394
BovB_Gd-RTE-Eremiascincus_doug	-----	-----	-----	-----	-----	-----	-----	-
BovB_Er-RTE-Eremiascincus_rich	TGCTACTGGG	GAAGAGCAGA	ACACGAGTAC	TAGTAGCTCC	A - - GAAAGAG	TGAAGTAGCT	GG - GCCAAAA	516
BovB_Ca-RTE-Ctenotus_atlas	TGCTACTGGG	GAAGAGCAGA	ACACGAGTAC	TAGTAGCTCC	A - - GAAAGAG	TGAAGTAGCT	GG - GCCAAAC	509
BovB_Es-RTE-Egernia_stokesii	TGCTACTGGG	GAAGAGCAGA	GGACAATTAC	AAGTAGCCCC	A - - GAAAGAA	TGAAGGAGCT	GG - GCCAAAA	338
BovB_Tr-RTE-Tiliqua_rugosa	TGCTACTGGG	GAAGAGTGGG	AGACAATTAC	AAGTAGCCCC	A - - GAAAGAA	TGAAGGAGCT	GG - GCCAAAA	355
BovB_ALI-RTE-Amblyomma_limbato	TGCTATTGGG	GAAGAGCGGA	GGACTAGTAC	TAGTAGGCGA	A - - AAAAAAA	ATAAGCGACT	GC - GTCAAAG	447
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----	-
BovB_VA-RTE-Vipera_ammodytes	TGCTACTGGG	GAAGAGCAGA	GGGCTACTAC	TAGTAGCCCC	A - - GAAAGAA	TGAAGCGACT	GG - GCCAAAG	315
BovB_ACo-RTE-Agkistrodon_conto	TGCTACTGGG	GAAGAGCAGA	GGGCTAGTAC	TAGTAGCGCC	A - - GAAAGAG	TGAAGCGACT	GG - GCCAAAG	318
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----	-
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----	-
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----	-----	-
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----	-----	-
BovB_Ma-RTE-Macropus_antilopin	TGGCAAACCA	CTTCAGTATC	TTTGCCAAGA	AAAGTCCCAT	G - - AACAGTC	TAAAAGATA	GG - ACAACAG	336
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----	-----	-----	-----	-
BovB_Ac-RTE-Anolis_carolinensi	TGCTACTGGG	GAGGAACAGA	GGACTAGTCC	AACTAACCCC	A - - GATGTGA	TGACACAGTT	AA - CTCAAAG	279
BovB_BM-RTE-Bombyx_mori	ACCGGCTACC	CGGGGCGAG -	TGGTGTGAAA	TTGGCTACCG	AAGCTTCCCA	TGAAGTGACT	CG - - TCAGG -	140
BovB_Dr-RTE-Christinus	ACCTACCAGG	GAAGAACAA -	GGGTGTTTTT	CAAGTAGTCT	GGGCATTATT	GACGGGGATT	GG - - ACAAAG	186
BovB_La-RTE-Loxodonta_africana	GACAACCTGGA	GAAGAGC - - -	TGCCTCCTCA	AAGTAGAGCC	A - - CCTTAAT	CAACGTGGAT	GG - AGTAAAG	312
BovB_Pc-RTE-Procavia_capensis	GATGACTGGG	GAAGAGC - - -	TGCCTCCTCA	AAGTAGAGTC	G - - ACCTTAA	TGACGTGGAT	GG - AGTAAAG	313
BovB_Et-RTE-Christinus	TGTGAGTGAA	AAAGA - - - -	TGCTTCTCC	AAGTGGTGCT	GTGAGTTGGA	TAAAGCTTGT	GGGAATGGAG	153
BovB_Ta-RTE-Tachyglossus_acule	AGCTACTGGA	GATGAGCAGA	CGATGTCTCA	GAGTATCATG	T - - GTGTTTA	TGACGTGGCC	AG - AATAAAG	455
BovB_Plat-RTE-Ornithorhynchus	AGCTACTGGG	GAAGAGCAGA	CGATGTCTCA	GAGTATCGTG	G - - GTGTTTA	TGACGTGGCC	GG - AATAAAG	439
BovB_Ec-RTE-Equus_caballus	AGTTACTGGG	GAAGAGCAAA	GAAACAAGTAC	GAATAGCACT	G - - TTGCTAA	TGATGCAACT	AG - ACTAAAG	212
BovB_Cg-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	-
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----	-
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-
Consensus	-----	-----	-----	-----	-----	-----	-----	-



	1,000	1,020	1,040	
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	CCGAAAGGAC	GCTCAGTTGT	GGA-----	-----TGTTG TCTGACGGTG AAAGGAAAGT CCGA - TGCTG 505
BovB_Gv-RTE-Gehyra_variegata	CCGAAAGGAC	GCTCAGTTGT	GGA-----	-----GGTG TCTGACGGTG AAAGGAAAGT CCGA - TGCTG 437
BovB_PMo-RTE-Python_molurus	CCGAAAGGAC	GTTTCAGTCGT	GGA-----	-----TGCA TCTGGAACGG AAAGAAGGT CCGA - TGCTG 380
BovB_Oa-RTE-Ovis_aries	CAGAAACAAC	ACTCAGTTGT	GGA-----	-----TGTTG TCTGGTGATG AAAGTAAAGT CCAA - TGCTG 403
BovB-RTE-Bos_taurus	CAAAAACAAT	ACCCAGCTGT	GGA-----	-----TGTTG ACTGGTGATA GAAGCAAGGT CCGA - TGCTG 1001
BovB_Me-RTE-Macropus_eugenii	CTGAAAAGAA	GCTCAGCTGT	GGA-----	-----GGGG TCTAATGAAA AAAGGCAATT CTGA - TGCTG 212
BovB_Ano-RTE-Amphibolurus_norr	CCGAAAGGAC	GCTCAGCTGT	GGA-----	-----CGTG CCTGGAAGTG AAAGGAAAGT CCGA - TGCTG 450
BovB_Gd-RTE-Eremiascincus_doug	-----	-----	-----	-----TGTTG TCTGGAAGTG AAGGAAAAGT ACGA - TGCTG 33
BovB_Er-RTE-Eremiascincus_rich	CCGAAAGGAA	GCTCAGCTGT	GGA-----	-----TGTTG TCTGGAAGTG AAAGGAAAGT ACGA - TGCTG 572
BovB_Ca-RTE-Ctenotus_atlas	CCGGAAGGAA	ACTCAGCTGT	GGA-----	-----TGTA TCTGGAAGTG AAAGGAAAGT GCGA - TGCTG 565
BovB_Es-RTE-Egernia_stokesii	CCAAAAAGTC	GCTCAGCTGC	AGA-----	-----TGTTG TCTGGAAGTG AAAGGAAAGT CCAA - TGCTG 394
BovB_Tr-RTE-Tiliqua_rugosa	CCGAAAGGTC	GCTCAGCTGC	GGA-----	-----TGTTG TCTGGAAGTG AAAGGAAAGC CCAA - CGCTG 411
BovB_ALI-RTE-Amblyomma_limbatu	ACGAAAGGAC	GCACAGTTGC	GGA-----	-----TGCA TCTGGTGATG AAAGGAGAGT CCGAATGCTG 504
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	CCAAAAAGGAC	ACTCAGCTGT	GGA-----	-----TGTTG TCTGGTGTTG AAAGGAAAGT CCGA - TGCTG 371
BovB_ACo-RTE-Agkistrodon_conto	CCGAAAGGAC	GCTCAGCTGT	GGA-----	-----TGCA TCTGGTGTTG AAAGGAAAGT CCGA - TGCTG 374
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	AAGAGAAGCC	CCTCAGTTG	GAA-----	-----GGCA TCCAACACAC CACTGAGAAA GAGCAGAGGA 393
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----
BovB_Ac-RTE-Anolis_carolinensi	CCGAAAAGAA	GGCTAACGGC	CGA-----	-----CGGT ACTGGAGGTA AACACAACAT CCGA - TGCTC 335
BovB_BM-RTE-Bombyx_mori	-CTTCAGAAG	GAAGGATTGT	-----	-----TACTG GCGACTCG - - - AAGA - - C CATCTTAATA 187
BovB_Dr-RTE-Christinus	CCATCAGGTC	GCCGACTTGC	-----	-----TGATG CTGCTCCAGT TGAAAGAACT CATCTGCGTT 241
BovB_La-RTE-Loxodonta_africana	CTTTCCGGAC	CTTCATTTGC	-----	-----TGATG TGGCAAGACT CAAAATGAGA AGAAACAGCT 367
BovB_Pc-RTE-Procavia_capensis	CCTTCAGGAT	CTTCATTTGC	-----	-----TGATG TGGCATGACT CAAAATGAGA AGAAACAGCT 368
BovB_Et-RTE-Christinus	CCTTTGGAAT	CTTCCTTTGC	CTATGGGGTA	CTACCTAATG GGGTACCGCT CAAGCAAAGG AGAAACAGCT 223
BovB_Ta-RTE-Tachyglossus_acule	CCTTCGGAAC	ATCTGGTTGC	-----	-----TGATG TTGCCACGCA AGAAATGAGT ATCCAAAGCT 510
BovB_Plat-RTE-Ornithorhynchus	CCTTCGGGAC	CTCCGGTCCG	-----	-----TGATG TTGCCATACG AGAAATGAGT ATCCGAAAGCT 494
BovB_Ec-RTE-Equus_caballus	CCAGAAGGAC	GCTCAGCAGC	-----	-----TG AAGTGCACAA AGGTGAAAGG AAAGTCCGAT 264
BovB_Cg-RTE-Christinus	-----	-----	-----	-----
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----
Consensus	-----	-----	-----	-----



	1,060	1,080	1,100	1,120				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----				
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----				
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----				
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----				
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----				
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----				
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----				
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----				
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----				
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----				
BovB_GI-RTE-Gehyra_lazelli	CAA A - GA A C A	A T A C T G C A T A	G G A A C C T G G A	A C G T C A G A T C	--- T A T G A A T	C A A G G T A A G C	T C G A C G T G G T	571
BovB_Gv-RTE-Gehyra_variegata	CAA A - GA A C A	A T A C T G C A T A	G G A A C C T G G A	A C G T C A G A T C	--- T A T G A A T	C A A G G T A A G C	T C G A C G T G G T	503
BovB_PMo-RTE-Python_molurus	CAA A - GA A C A	A T A T T G C A T A	G G A A C C T G G A	A T G T A A G A T C	--- T A T G A A T	C A A G G C A A G C	T G G A T G T G G T	446
BovB_Oa-RTE-Ovis_aries	T A A A - G A A C A	A T A T T G C A T A	G G A A C C T G G A	A T G T T A G G T C	--- C A T G A A T	C A A G G T A A A T	T G G A A G T G G T	469
BovB-RTE-Bos_taurus	T A A A - G A G C A	A T A T T G C A T A	G G A A C C T G G A	A T G T C A G G T C	--- C A T G A A T	C A A G G C A A A T	T G G A A G T G G T	1067
BovB_Me-RTE-Macropus_eugenii	T A G G - G T G - A	T T A T T A C A T A	A A A T T G T G G A	A T G T A A A A T C	--- T C T G A C A	C A A G G T A A G C	T G G A T G C A G T	277
BovB_Ano-RTE-Amphibolurus_norr	CAA A - G A A G A	A T A C T G C A T A	G G A A C C T G G A	A T G T A A G A T C	--- T A T G A A C	C T T G G G A A G C	T G G A G T G G T	516
BovB_Gd-RTE-Eremiascincus_doug	CAA A - G A A G A	A T A C T G C A T A	G G A A C C T G G A	A C G T C A G A T C	--- T A T G A A T	C A - G G T A A G C	T C G A T G T G G T	98
BovB_Er-RTE-Eremiascincus_rich	CAA A A G A A C A	A T A C T G C A T A	G G A A C C T G G A	A C G T C A G A T C	--- T A T G A A T	C A A G G T A A G C	T C G A T G T G G T	639
BovB_Ca-RTE-Ctenotus_atlas	CAA A - G G A C A	A T A C T G C A T A	G G A A C C T G G A	A C G T C A G A T C	--- T A T G A A T	C A A G G T A A G T	T A G A T G T G G T	631
BovB_Es-RTE-Egernia_stokesii	T A A A - G A A C A	A C A C T G C A T A	G G A A C C T G G A	A C G T G A G A T C	--- T A T G A A T	C A A G G A A A A C	T G G A T G T G G T	460
BovB_Tr-RTE-Tiliqua_rugosa	T A A A - G A A C A	A C A T T G C A T A	G G A A C C T G G A	A T G T G A G A T C	--- T A T G A A T	T G A G G T A A G C	T G G A T G T G G T	477
BovB_ALI-RTE-Amblyomma_limbatu	T A A A G A T C T T	T G A C T C C A T A	G G A A C C T G G A	A T A T A A G A T C	--- T A T G A A T	C A A G G C A A G C	T A G A T T T G G T	571
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	T A A A G A T T T T	T T - C T C C A T A	G G A A C C T G G A	A T G T A A G A T C	--- C A T G A A T	C A A G G A A A G C	T G G A C G T G G T	437
BovB_ACo-RTE-Agkistrodon_conto	T A A A G A T C T T	T T - C T C C A T A	G G A A C C T G G A	A T G T A A G A T C	--- C A T G A A T	C A A G G C A A G C	T A G A C G T G G T	440
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	C A A C T A C A A G	G T A G C T C C A G	A A C A A A T G A A	G C A G A T G G A C	--- C A A A G C C	A A A A G G A A G C	T C A G C T G T G G	460
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Ac-RTE-Anolis_carolinensi	T A A A - G A T C A	A C A C A C T A T A	A G A A C C T A G A	A T G T A A G A T C	--- T A T G A G C	C A G G G C A A A C	T G G A C A T G G T	401
BovB_BM-RTE-Bombyx_mori	C - - G C A A A C A	A C A G C G T A T T	A G C A C G T G G A	A T G T G A A T G G	G C T T C T T C A A	G C G G G A A A A C	T A T C C A T C G T	255
BovB_Dr-RTE-Christinus	T T A G G A A G G T	T C A T A G C A T C	G G A G C T T G G A	A T G T C C G T G G	--- C A T G A G T	A T G G G C A A A C	T G G A A A T C G T	308
BovB_La-RTE-Loxodonta_africana	G C A A A C A T C C	A T T A A T A A T C	G G A A C C T G G A	A T G T A C G A A G	--- T A T G A A T	C T A G G A A A A T	T G G A A A T C G T	434
BovB_Pc-RTE-Procavia_capensis	G C A A A C A T C C	A T T A A T A A T T	G G A A C A T G G A	A T G T A C G A A G	--- T A T G A A T	C T A G G A A A A T	T G G A A A T T G T	435
BovB_Et-RTE-Christinus	G C A A A A A T A T	T C T A A T G A T T	G G A A C T T G G A	A T G T G T G A A A	--- T A T G A A T	C T A G G A A A G T	T G G A A A T G G T	290
BovB_Ta-RTE-Tachyglossus_acule	G T A A A G A T A C	C C T T A T T A C T	G C A A C A T G G A	A T G T A C A A A G	--- T A T G A A C	C A G G G A A A G C	T G G A A A T A A T	577
BovB_Plat-RTE-Ornithorhynchus	G T A A A G A T A C	C C T T A T T A T T	G G A A C A T G G A	A T G T G C G G A G	--- T A T G A A C	C A G G G A A A G C	T G G A A A T A G T	561
BovB_Ec-RTE-Equus_caballus	G C T G T A C C A C	A C A C A C A A T T	G G A A C A T G G A	A C G T G A G A A G	--- C A T G A A C	C A A G G T A A A C	T G G A A A T T G T	331
BovB_Cg-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Consensus	-----	-----	-----	-----	-----	-----	-----	-----



	1,140		1,160		1,180	
Stu-rnd-1_family-417_LINE RTE	-----	-----	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE RTE	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE RTE	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE RTE	-----	-----	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE RTE	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE RTE	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE RTE	-----	-----	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE RTE	-----	-----	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE RTE	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	CAAAAAATGAG	ATGGCAAGAC	TGAACATTGA	CATCTTGGGA	A-TCAGTGAA	C--TAAAGT- GGACGGGAAT 637
BovB_Gv-RTE-Gehyra_variegata	CAAAAAATGAG	ATGGTAAGAC	TGAACATTGA	CATCTTGGGA	A-TCAGTGAA	C--TAAAGT- GGACGGGAAT 569
BovB_PMo-RTE-Python_molurus	CAAAACATGAG	ATGACAAGAT	TGAACATCGA	CATCTTGGGA	A-TCAGCGAA	T--TGAAAT- GGACGGGAAT 512
BovB_Oa-RTE-Ovis_aries	CAAACAGGAG	ATGGCAAGAG	TGAACATCGA	CATCTTAGGA	A-TCAGTGAA	C--TAAAT- GGACTGGAAT 535
BovB-RTE-Bos_taurus	CAACAAGAG	ATGGCAAGAG	TGAATGTCTGA	CATTCTAGGA	A-TCAGCGAA	C--TGAAAT- GGACTGGAAT 1133
BovB_Me-RTE-Macropus_eugenii	CAAAAT--GGG	ATGA-AAAA	TAAACATCGA	CACCTAAGGT	G-TCAGTGAA	C--TCAAAT- GCATGGGAAT 340
BovB_Ano-RTE-Amphibolurus_norr	CAAACAGGAG	ATGGCAAGAA	TAAACATCGA	CATCCTGGGC	A-TCAGTGAA	C--TAAAT- GGACAGGAAT 582
BovB_Gd-RTE-Eremiascincus_doug	CAAACGCGAG	ATGTCAAGAC	TGAACATCGA	CATCATGGGA	GGTCAGCGAA	C--TAAAT- GGACAGGAAT 166
BovB_Er-RTE-Eremiascincus_rich	CAAACGCGAG	ATGTCAAGGC	TGAACATCGA	CATCATGGGA	G-TTAGTGAA	C--TAAAT- GGACAGGAAT 705
BovB_Ca-RTE-Ctenotus_atlas	CAAACGCTGAG	ATGTCAAGGC	TGAACATAGA	CCTCATGGGA	G-TCAGTGAA	C--TAAAT- GGACAGGAAT 697
BovB_Es-RTE-Egernia_stokesii	CAAAACATGAG	ATGGCAAGAT	TGAACACCGA	CATCTTCGGA	A-TTAGTGAA	CTTAAAAAT- GGACAGGAAT 528
BovB_Tr-RTE-Tiliqua_rugosa	CCAACATGAG	ATGGCAAGAT	TGAACATTGA	CATCTTGGGA	A-TTAGTGAA	C--TAAAT- GGAAAGGAAT 543
BovB_ALI-RTE-Amblyomma_limbatu	CAAAGAAGAG	ATGACAAGAC	TGAACATCGA	CATCTTAGGA	A-TCAATGAA	C--TAAATG GATAGGAAGT 638
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	CAACAAGAG	ATGACAAGAT	TGAACATCGA	CATCTTAGGA	G-TCAGCGAA	C--TAAATG GACAGGAA-T 503
BovB_ACo-RTE-Agkistrodon_conto	CAACAAGAG	ATGACAAGAC	TGAACATCGA	CATCTTAGGA	A-TCAGCGAA	C--TAAATG GACAGGAA-T 506
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	GTGAAACGC	CGGTGAAAG	AAAGACCAAC	ACCGTAAAGA	AAAACAGATC	ACAAGAACCA GGAACCAAAG 530
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----	-----	-----
BovB_Ac-RTE-Anolis_carolinensi	TATTGGTGAA	ATGTCAAGAT	TAAAGATAGA	CATTCTGGGA	G-TCAGTGAA	C--TGAAAT- GGACTAGAAT 467
BovB_BM-RTE-Bombyx_mori	CGAAAAAGAA	ATGGAAAAATC	ACAACCTGTCT	AATTCTGGGC	A-TCTGCGAG	A--CACATAT GAGAAACAAT 322
BovB_Dr-RTE-Christinus	GAAATCTGAA	ATGGAACGTC	TCAACATCGA	CATTATCGCC	A-TTAGTGAG	C--TCCATTG GACAGGCAAT 375
BovB_La-RTE-Loxodonta_africana	-----	-----	-----	-----	-----	-----
BovB_Pc-RTE-Procavia_capensis	-----	-----	-----	-----	-----	-----
BovB_Pc-RTE-Procavia_capensis	CAAAAAATGAA	ATGGAATGCA	TAAACATCAA	TATCCTAGGC	A-TTAGTGAG	C--TGAAATG GACTGGTATT 500
BovB_Pc-RTE-Procavia_capensis	CAAAAAATGAA	ATGGAATGCA	TAAACATCAA	TATCCTAGGC	A-TTAGTGAG	C--TGAAATG GACTGGTATT 502
BovB_Et-RTE-Christinus	CAAAACATGAA	ATGGAATGCA	TAAATGATCAA	TATCACAGGC	A-TAAGTGAG	C--TGAAAT GACTGATATT 357
BovB_Ta-RTE-Tachyglossus_acule	CAAGAATGAA	ATGGACTGAT	TGAAGATCGA	CATCCTAAGA	A-TAAGCAA	A--TGAAATG GACTGGTATT 644
BovB_Plat-RTE-Ornithorhynchus	CAAGAATGAA	ATGGACCGAT	TGAAGATCGA	CATCCTAGGA	A-TAAGCGAA	C--TGAAATG GACTGGTATT 628
BovB_Ec-RTE-Equus_caballus	AAAGCAAGAA	ATGGAACATT	TAAATATTGC	AGTGCTTGGT	G-TTAGCGAA	C--TAAATG GACTGGAATG 398
BovB_Cg-RTE-Christinus	-----	-----	CTTT	TGTAGACTAA	CAGCAGTGCT	A-CT--TCAG C--TAACCCT GGTTAGTACT 49
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE RTE	-----	-----	-----	-----	-----	-----
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE RTE	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE RTE	-----	-----	-----	-----	-----	-----
Consensus	-----	-----	-----	-----	-----	-----



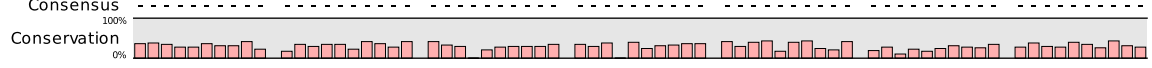
	1,200	1,220	1,240	1,260	
Stu-rnd-1_family-417_LINE RTE-	-----	-----	-----	-----	-
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-
Stu-rnd-1_family-489_LINE RTE-	-----	-----	-----	-----	-
Stu-rnd-1_family-607_LINE RTE-	-----	-----	-----	-----	-
Stu-rnd-1_family-645_LINE RTE-	-----	-----	-----	-----	-
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-
Stu-rnd-6_family-408_LINE RTE-	-----	-----	-----	-----	-
Stu-rnd-1_family-351_LINE RTE-	-----	-----	-----	-----	-
Stu-rnd-1_family-382_LINE RTE-	-----	-----	-----	-----	-
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-
Stu-rnd-5_family-325_LINE RTE-	-----	-----	-----	-----	-
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-
Stu-rnd-1_family-513_LINE RTE-	-----	-----	-----	-----	-
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-
BovB_GI-RTE-Gehyra_lazelli	GGGCGAATTC	AACT - CAGA	AGACCATTAT	-----	665
BovB_Gv-RTE-Gehyra_variegata	GGGCGAATTC	AACT - CAGA	AGACCATTAT	-----	597
BovB_PMo-RTE-Python_molurus	GGGTGAATTT	AATT - CAGG	TGACCATTAT	-----	540
BovB_Oa-RTE-Ovis_aries	GGGTGAATTT	AATT - CAGA	TGACCATTAT	-----	563
BovB-RTE-Bos_taurus	GGGTGAATTT	AACT - CAGA	TGACCATTAT	-----	1161
BovB_Me-RTE-Macropus_eugenii	GGATGAATTT	AATT - CAGT	GAATTATTAT	GTATGTATAT ATATATGTGC ACACACATAT ATGTATACAC	408
BovB_Ano-RTE-Amphibolurus_norr	GGGTGAATTC	AGCT - CAGA	TGATTATCAT	-----	610
BovB_Gd-RTE-Eremiascincus_doug	GGGAGAATTT	AATT - CAGA	TGACCATTAT	-----	194
BovB_Er-RTE-Eremiascincus_rich	GGGAGAATTT	AATT - CAGA	TGACCATTAT	-----	733
BovB_Ca-RTE-Ctenotus_atlas	GGGAGAATTT	AATT - CAGA	TGACCATTAT	-----	725
BovB_Es-RTE-Egernia_stokesii	GGGCAAAATTT	AATT - CAGA	CGAACATTAT	-----	556
BovB_Tr-RTE-Tiliqua_rugosa	GGGCAAAATTT	AATT - CAGA	TGAACATTAT	-----	571
BovB_ALI-RTE-Amblyomma_limbato	GGGTGAATTT	ACTTT - CAGA	TGACCATCAG	-----	667
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-
BovB_VA-RTE-Vipera_ammodytes	GGGTGAATTT	AATT - CAGA	TGACCATCAG	-----	531
BovB_ACo-RTE-Agkistrodon_conto	GGGTGAATTT	AATT - CAGA	-GACCATCAG	-----	533
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-
BovB_Ma-RTE-Macropus_antilopin	AAAGATGAAC	CAAGG - GAAG	CTGGATGAGG	TCAAACAGGA GAAAAAAGA TTAACATCA ACATCCTGGG	599
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----	-
BovB_Ac-RTE-Anolis_carolinensi	GGGCCACATC	ACAA - AAGA	TGACCACCAG	-----	495
BovB_BM-RTE-Bombyx_mori	GGCCATTTTA	AAACATCTAC	TGAAATACT	-----	352
BovB_Dr-RTE-Christinus	GGTTTTTTTA	ACAG - TGA	TGACCATACC	-----	402
BovB_La-RTE-Loxodonta_africana	GGCCATTTTG	AATCA - GA	CAATCATATA	-----	527
BovB_Pc-RTE-Procavia_capensis	GGCCATTTTG	AATCT - GA	CAATCATATG	-----	529
BovB_Et-RTE-Christinus	GGTCATTTTG	AATCA - GA	AAATCAT - G	-----	382
BovB_Ta-RTE-Tachyglossus_acule	GGGCATTTCC	AATCA - AA	TGAGCACATC	-----	671
BovB_Plat-RTE-Ornithorhynchus	GGGCATTTCC	AATCG - AA	TGAGCACATC	-----	655
BovB_Ec-RTE-Equus_caballus	GGACACTTTC	AGTCA - GA	CAACTACAAA	-----	425
BovB_Cg-RTE-Christinus	ATGCAG - - - -	AAGAA - GG	CAATGGCAAA	-----	72
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-
Stu-rnd-5_family-3162_LINE RTE	-GTAATCTCC	GGCGACCGCT	TTCCGATCTC	CTCTCAGTTC CCGGTAAGTC AAGATCTGCT CTCTCTCTTT	69
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-
Stu-rnd-5_family-2493_LINE RTE	-----	-----	-----	-----	-
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-
Stu-rnd-6_family-2093_LINE RTE	-----	-----	-----	-----	-
Consensus	-----	-----	-----	-----	-



	1,280	1,300	1,320	
Stu-rnd-1_family-417_LINE_RTE	---	---	---	---
Sly-rnd1_family377-LINE/RTEBov	---	---	---	---
Stu-rnd-1_family-489_LINE_RTE	---	---	---	---
Stu-rnd-1_family-607_LINE_RTE	---	---	---	---
Stu-rnd-1_family-645_LINE_RTE	---	---	---	---
Sly-rnd4_family81-LINE/RTEBovB	---	---	---	---
Stu-rnd-6_family-408_LINE_RTE	---	---	---	---
Stu-rnd-1_family-351_LINE_RTE	---	---	---	---
Stu-rnd-1_family-382_LINE_RTE	---	---	---	---
Sly-rnd6_family746-LINE/RTEBov	---	---	---	---
Stu-rnd-5_family-325_LINE_RTE	---	---	---	---
Sly-rnd4_family509-LINE/RTEBov	---	---	---	---
Stu-rnd-1_family-513_LINE_RTE	---	---	---	---
Sly-rnd5_family1442-LINE/RTEBo	---	---	---	---
BovB_GI-RTE-Gehyra_lazelli	-- ATCTACTA CTGTGGCCAT GAATCCCGTA GAAAAAATGG TGTGGCCTTT ATAGTCAACA AGAGAGTGCA 733			
BovB_Gv-RTE-Gehyra_variegata	-- ATCTACTA CTGTGGCCAT GAATCCCGTA GAAAAAATGG TGTGGCCTTT ATAGTCAACA AGAGAGTGCA 665			
BovB_PMo-RTE-Python_molurus	-- ATCTACTA CTGTGGCAA - GAAACCCCTTA GAAGAAATGG AGTTGCACTC ATAGTCAATA AGAGAGTGGG 607			
BovB_Oa-RTE-Ovis_aries	-- ATCTACTA CTGTGGGCCAA GAATCCCTTA GAAGAAATGG AGTAGCCCTC ATAGTCAACA AAAGAGCTG 631			
BovB-RTE-Bos_taurus	-- ATCTACTA CTGCGGGCAG GAATCCCTCA GAAGAAATGG AGTGGCCATC ATGGTCAACA AAAGAGTCCG 1229			
BovB_Me-RTE-Macropus_eugenii	ACATATGCCA CTG -GGGCAA GAAGTCTTTA GAAGAAGCAA AGTAGCCCTC ATAGTCAACA TAGC - - TAAG 475			
BovB_Ano-RTE-Amphibolurus_norr	-- ATCTACTA TTGTGGGCCAA GAATCCCGTA GAAGAAATGG AGTAGCCTTC ATAGTCAACA AAAGAGTGGG 678			
BovB_Gd-RTE-Eremiascincus_doug	-- ATCTGCTA CTGTGGGCAG GAATCCCTTA GAAGAAATGG AGTAGCCTTC ATCGTGAACA AGAGAGTGAG 262			
BovB_Er-RTE-Eremiascincus_rich	-- ATCTGCTA CTGTGGGCAG GAATCCCTTA GAAGAAATGG AGTAGCCTTC ATCGTGAACA AGAGAGTGAG 801			
BovB_Ca-RTE-Ctenotus_atlas	-- ATCTACTA CTGTGGGCAG GAATCCCTTA GAAGAAACGG CGTAGCCTTC ATAGTGAACA AGAGAATGAG 793			
BovB_Es-RTE-Egernia_stokesii	-- ATTTACTA CTGTGGACAA GAATCCCATTA GAAGAAATGG AGTAGCCCTC ATAGTAAACA AAAGAAATGGG 624			
BovB_Tr-RTE-Tiliqua_rugosa	-- ATTTACTA CTGTGGACAA GAATCCCATTA GAAGAAATAG AGTAGCCCTC ATTTGGAACA AAAGAAATGGG 639			
BovB_ALI-RTE-Amblyomma_limbatu	-- ATATAAAA CTGCGGGTAA GAATCCCTCA CAAGAAATTG AGTAGCCTTC ATATTCATA AAAAAATTAGG 735			
BovB_Hs-RTE-Hydrophis_spiralis	---	---	---	---
BovB_VA-RTE-Vipera_ammodytes	-- GTATACTA CTGCGGGCAG GAATCCCTCA GAAGAAATGG AGTAGCCTTC ACAGTCAATA AAAGAGTAGA 599			
BovB_ACo-RTE-Agkistrodon_conto	-- GTATACTA CTGCGGGCAA GAATCCCTCA GAAGAAATGG AGTAGCCTTC ATAGTCAATA AAAGAGTAGG 601			
BovB_Pg-RTE-Perameles_gunnii	---	---	---	---
BovB_lo-RTE-Isodon_obesulus	---	---	---	---
BovB_Bp-RTE-Burramys_parvulus	---	---	---	---
BovB_Pb-RTE-Petaurus_breviceps	---	---	---	---
BovB_Ma-RTE-Macropus_antilopin	TGTCAGTGAA CTTAAATGAA TGAGAATGGG TAAATTTAAT TCAGGTGATC ACTACATATA CTACCGCGGA 669			
BovB_Af-RTE-Antechinus_flavipe	---	---	---	---
BovB_Ac-RTE-Anolis_carolinensi	-- ATCTACTA CAGCGGACAA GAGGAACACC GAAGAAATGG AGTAGCCTTC ATAATTAATA ACAAAGTTGC 563			
BovB_BM-RTE-Bombyx_mori	-- GTGTACTT CTCAGGTAAT GAAAAATCAA GCAGAAATGG AGTTGCAATT GTGCTGCCAC CCTACTCGAA 420			
BovB_Dr-RTE-Christinus	-- GTCTACTA CTCTGGGAAC AACAACATAA GACGCAATGG AGTAGCTGTC ATCTTAAACA AGAAAAATGC 470			
BovB_La-RTE-Loxodonta_africana	-- GTCTACTA TGCTGGGAAT GACAACCTGA AGAGGAATGG CATTGCATTTC ATCGTCAAAA AGAACATTTTC 595			
BovB_Pc-RTE-Procavia_capensis	-- GTCTACTA TGCTGGGAAT GAAAACTTGA AGAGGAATGG TGTTCATTTC ATCATCAAAA AGAACATTTTC 597			
BovB_Et-RTE-Christinus	-- ATTTACTA TGTCAGGTAT AACA - - CAA TCATGAATGG CATGACATTTC ACTGTCAAAA AGGATATACC 447			
BovB_Ta-RTE-Tachyglossus_acule	-- ATCTACTA CTCTGCTCAT GCTGAAAAAA GAAGAAATGG CTTAGCGATA ATTTGTGACAA AGAAAAATGC 739			
BovB_Plat-RTE-Ornithorhynchus	-- ATCTACTA CTCTGCCCAT GCTGAAAAAA GAAGAAATGG CGTAGCGGTA ATTTGTGACAA AGAAAAATGC 723			
BovB_Ec-RTE-Equus_caballus	-- GTGTTCTA CTCTGGAAAT GACAAAACCA GAAGAAACAG AGTGGCTCTA ATACTGAGGC AAGATGTAGC 493			
BovB_Cg-RTE-Christinus	-----CCA CTTC-----T GACTAACACA GAAGATACAG AGTTGTTCTA ATACTGAGGC AAGATTTAGC 130			
BovB_Bh-RTE-Bothriocroton_hydr	---	---	---	---
BovB_MI-RTE-Gehyra_variegata	---	---	---	---
Sly-rnd1_family284-LINE/RTEBov	---	---	---	---
Sly-rnd5_family2019-LINE/RTEBo	---	---	---	---
Sly-rnd3_family322-LINE/RTEBov	---	---	---	---
Sly-rnd5_family1698-LINE/RTEBo	---	---	---	---
Sly-rnd1_family795-LINE/RTEBov	---	---	---	---
Stu-rnd-5_family-3162_LINE_RTE	CTCTCTCTCC TCTAGTCTAC TAGCAGCTCA GGCGAAAGCTG CGAACGGGCG CCGGCCAGCGA ACAGCAGCGA 139			
Sly-rnd6_family1960-LINE/RTEBo	---	---	---	---
Stu-rnd-5_family-2493_LINE_RTE	---	---	---	---
Sly-rnd5_family447-LINE/RTEBov	---	---	---	---
Stu-rnd-6_family-2093_LINE_RTE	---	---	---	---
Consensus	---	---	---	---



	1,340	1,360	1,380	1,400
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	AAAGGCAGTA ATGGGATACA ATC-TCAAAA ACG-ACAGAA TGATCTCTGT CCGGAATCCA AGGCAAACCA 801			
BovB_Gv-RTE-Gehyra_variegata	AAAGGCAGTA ATGGGATACA ATC-TCAAAA ACG-ACAGAA TGATCTCTAT CC-GAATCCA AGGCAAACCA 732			
BovB_PMo-RTE-Python_molurus	AAAGGCAGTA ATGGGGTACA ACC-TCAAAA ACG-ACAGAA TGATCTCAGT GC-GTATCCA AGGCAAACCA 674			
BovB_Oa-RTE-Ovis_aries	AAATGCAGTA CTTGGGTGCA ATC-TCAAAA ATG-ACAGAA TGATCTCTGT TC-ATTTCCA AGGCAAACCA 698			
BovB-RTE-Bos_taurus	AAATGCAGTA CTTGGATGCA ATC-TCAAAA ACG-ACAGAA TGATCTCTGT TC-GTTTCCA AGGCAAACCA 1296			
BovB_Me-RTE-Macropus_eugenii	AAAAGCAGTA TGGGGGTATA ATC-TCAAAA AGG-ATAGAA TCCTATCAGT CT-GAATACA AGACAAACTA 542			
BovB_Ano-RTE-Amphibolurus_norr	AAAAGCTGTA ATGGGATACA ATC-TCAAAA ATG-ATAGAA TGATGTCAAT AC-GAATCCA AGGCAGACCT 745			
BovB_Gd-RTE-Eremiascincus_doug	AACAGCAGTA ATGGGGTATA ACC-TCAAAA ATG-ATAGAA TGATTTCAAT TC-GGATCCA AGGCAAACCT 329			
BovB_Er-RTE-Eremiascincus_rich	AACAGCAGTA CTGGGGTATA ACC-TCAAAA ATG-ATAGAA TGATTTCAAT TC-GGATCCA AGGCAAACCT 868			
BovB_Ca-RTE-Ctenotus_atlas	AGCAGCAGTG TTGGGGTATA ACC-TCAAAA ATG-ATAGAA TGATTTCAAT TC-GGATCCA AGGCAAACCT 860			
BovB_Es-RTE-Egernia_stokesii	AAAAACAGTA GGGGGATACA ATC-TCAAAA ACG-ACAGAA TGATTTCAAT TC-AAATTC A AGGCAAACCT 691			
BovB_Tr-RTE-Tiliqua_rugosa	AAAAGCAGTA CTGGGGTACA ATC-TCAAAA ACA-ACAGAA TGATTTCAAT TC-AAATTC A AGGCAAACCT 706			
BovB_ALI-RTE-Amblyomma_limbatu	AAGAATAATA TTGTGATACA ATC-TCCAAA ATG-ACATAA TGATATCAGT TT-GAATTC A ATGCAAACCA 802			
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	AAAAGCAATA CTGGGATACA ATC-CCCAAA ATG-ACAGAA TGATCTCAGT TC-GAATCCA AGGCAAACCA 666			
BovB_ACo-RTE-Agkistrodon_conto	AAAAGCAATA CTGGGATACA ATC-CCCAAA ATG-ACAGAA TGATCTCAGT GC-GAATCCA AGGCAAACCA 668			
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	AAAGAATCCC TTAGAAGAAA TGG-AACAGT CAA-CACAGT CAATAAAAGG GTAAGAAAAG CAATACCAGG 737			
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----
BovB_Ac-RTE-Anolis_carolinensi	GAAAGCAGTG ATTGGATACA ACC-CAAAAA ATG-ATAGAA TGATCTCAAT TC-GAGTTCA AGGCAAGCCA 630			
BovB_BM-RTE-Bombyx_mori	CCAATACGTC CTCGGATACC ATC-CCATAT CTG-ATAGAA TACTAACTTT GAAACTCAAC ACAAACC-A 487			
BovB_Dr-RTE-Christinus	TAAAGCTGTT CAAAGCTTCA ATG-CTATAA ATG-GCCGAG TCATATCCAT CCGTTTCCAT GGAAGCC-T 537			
BovB_La-RTE-Loxodonta_africana	AAGATCTATC CTGAAGTACA ACG-CTGTCA GTG-ATAGGA TAATATCCAT ACGCCTACAA GGAAGACC-A 662			
BovB_Pc-RTE-Procavia_capensis	AAGATCTGTC CTGAAGTACA ATG-CTGTCA GTG-ATAGGA TAATATCCAT ATGCTTACAA GGAAGGCC-A 664			
BovB_Et-RTE-Christinus	AAAATACATC ATGAAATACA ATG-CTATCT AC--ATCAGA TGATATCTAT ACACTTTCAA GGAATCCCA 514			
BovB_Ta-RTE-Tachyglossus_acule	TAAAGCAGTT ATCGGATATA ATG-CTGTCA ATG-ACCAAT TGATATCTGT TAGATTCAGA GGAACC-A 806			
BovB_Plat-RTE-Ornithorhynchus	TAAAGCAGTT ATCGGATATA ATG-CTGTCA ATG-ACCGAT TGATATCTGT TAGATTCAGA GGAACC-A 790			
BovB_Ec-RTE-Equus_caballus	ACAGGCAGTT AGGGCTCTA ATG-CAAGGT CTG-ACCAAA TAATATCAAT CAGACTTC-T GGGAAAACCT 560			
BovB_Cg-RTE-Christinus	ACAAGCAATC AGGACTATA ATGACAAAGT CTGACCAAA TAATTTCAAT CAGACTTCAT TGAAAACCT 200			
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	AAACCAGTCG GCAACCGGAC GTCGCTCTG ATCTGGTATT CCCGCCCCAA ATCGAAGGTT GCGCCGGCCA 209			
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----
Consensus	-----	-----	-----	-----

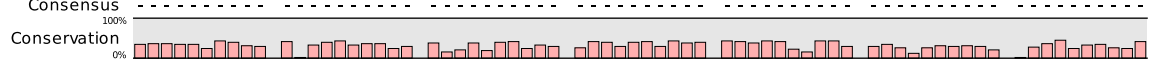


	1,420	1,440	1,460				
Stu-rnd-1_family417_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family489_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family607_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family645_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family408_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family351_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family382_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family325_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family513_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	TTCAA ACC AT CACAGTAA A T CCAAGTCTAT CGCCCC-----AAC CACTGACGCA GAAGAGGTTG 860						
BovB_Gv-RTE-Gehyra_variegata	TTCAA--CAT CACAGTAA-T CCAAGTCTAT -GCCCC-----AAC CACTGACGCA GAAGAAGTTG 787						
BovB_PMo-RTE-Python_molurus	TTCAA--CAT CACAGTCA-T CCAAGTCTAT -GCCCC-----AAC CACTGATGCT GAAGAAGCTG 729						
BovB_Oa-RTE-Ovis_aries	TTCAA--CAT CACAGTAA-T CCAAGTCTAT -GCCCC-----AAC CACTAATGCT GAAGAAGCTG 753						
BovB-RTE-Bos_taurus	TTCAA--TAT CACAGTAA-T CCAAGTCTAT -GCCCC-----AAC CAGTAACGCT GAAGAAGCTG 1351						
BovB_Me-RTE-Macropus_eugenii	TTCAA--CAT CACAATAA-T AAAAA T CTAT -GTTCC TGAT AGTCTATATT CATTGATGTA AAAGAGGTC A 608						
BovB_Ano-RTE-Amphibolurus_norr	TTCAA--CAT CACAATAA-T CCAAGTTTAT -GCACC-----AAC CACCATTGCT GAGGAGACTG 800						
BovB_Gd-RTE-Eremiascincus_doug	TTCAA--CAT CACAATAG-T CCAAGTCTAT -GCCCCC-----AAC CACTGGGGCT GAAGAGGAAG 385						
BovB_Er-RTE-Eremiascincus_rich	TTCAA--CAT CACAATAG-T CCAAGTCTAT -GCCCC-----AAC CACTGGGGCT GAAGAGGAAG 923						
BovB_Ca-RTE-Ctenotus_atlas	TTCAA--CAT CACAGTAA-T CCAAGTCTAT -GCCCC-----AAC CACTGATGCT GAAGAGGAAG 915						
BovB_Es-RTE-Egernia_stokesii	TTCAA--CCT CACAGTAA-T TCAAATCTAT -GCTCC-----AAC CACTGACACT GAAGAGGATG 746						
BovB_Tr-RTE-Tiliqua_rugosa	TTTAA--CCT CACAGTAA-T TCAAGTCTAT -GCTCC-----AAC CACTGACACT GAAGAGGATG 761						
BovB_ALI-RTE-Amblyomma_limbatu	TTCAA--CAT ATCAATAG-T CCAAGTCTAT GACTCC-----AAC CACTGGTGCT GAAGAGGCTG 858						
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	TTCAA--TAT CACAGTAG-T CCAAGTCTAT G-CCCC-----AAC CACCAGTGCT GAAGAGGATG 721						
BovB_ACo-RTE-Agkistrodon_conto	TTCAA--TAT CACAGTAG-T CCAAGTCTAT G-CCCC-----AAC CACTGGTGCT GAAGAGGATG 723						
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	ATATAATCTC AAAAAAGACA GAATGAGATC TGTTCAAATC CAAGGCAAAC CATTCAACAT CACAACAATA 807						
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----	-----	-----	-----
BovB_Ac-RTE-Anolis_carolinensi	TTTAA--CAT CACAGTGA-T CCAAAATATAC -GCCCC-----AAC CACAGCTGCT GAAGAAGCAG 685						
BovB_BM-RTE-Bombyx_mori	TTCAT AAC --AAATGTCAT ACAAATATAT GCCCC-----AAC AGCCCAGGCC AAGTACGAGG 542						
BovB_Dr-RTE-Christinus	CGCTC GCT --CACTTTCCT GCAGGTATAC GGGCC-----TAC TACTGATGGC AAAGTAGAGG 592						
BovB_La-RTE-Loxodonta_africana	GTTAAT AC --AACTATTAT TCAAATTTAC ACACC-----AAC CACTAAGGCC AAAGATGAAG 717						
BovB_Pc-RTE-Procavia_capensis	GTTAAT AC --GACTATTAT TCAAATTTAT GCACC-----AAC CACTAAGGCC AAAGATGAAG 719						
BovB_Et-RTE-Christinus	ATCAAT TATTT GAACTATTAT TCAAATTTAT GTACC-----AAC CACAAAAGCT AGTGATGAAG 572						
BovB-Ta-RTE-Tachyglossus_acule	TTCAG TAT --GACAATACT TCAGGTATAC GCCCC-----AAC AACAAATGCA GAGCAAGAA- 860						
BovB_Plat-RTE-Ornithorhynchus	TTCAAT AT --GACAATACT TCAGGTGTAC GCCCC-----AAC AACAGATGCA GAGCAAGAA 845						
BovB_Ec-RTE-Equus_caballus	ATTAA CAT --AACCATCAT CCAAGTCTAT GCTCC-----AAC TACAGATGCT GAAGAAGATG 615						
BovB_Cg-RTE-Christinus	ATCA ACAT --AAAAATCAT TCAAGTTTAC ACCAC-----AAC TTCAGATGAT GAAGAGGAAG 255						
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family3162_LINE_RTE	GAAGC AGCGC GAGGAACAGA CCCGACCGGC GAGCCTCTT CTCTCTCTCC TCCTAAGCTT CAGTGAGGAC 279						
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Consensus	-----	-----	-----	-----	-----	-----	-----





	1,560		1,580		1,600		
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----	-----	
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	-----	
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	-----	
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----	-----	
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----	-----	
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	-----	
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----	-----	
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----	-----	
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----	-----	
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	-----	
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----	-----	
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	-----	
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	-----	
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	-----	
BovB_GI-RTE-Gehyra_lazelli	GCACCAAAAA	A-AGATGTTT	TCATCATCCT	AGGGGACTGG	AATGCT-AAA	GTAAGGTAGT -CAAAAAGTA 971	
BovB_Gv-RTE-Gehyra_variegata	GCACCAAAAA	A-AGATGTTT	TCATCATCCT	AGGGGACTGG	AATGCT-AAA	GTA-GGTAGT -CAAAAAGTA 897	
BovB_PMo-RTE-Python_molurus	GCACCAAAAA	A-AGATGTCC	TTTTTCATCAT	AGGGGACTGG	AATGCT-AAA	GTA-GGAAGT -CAAGAGATA 839	
BovB_Oa-RTE-Ovis_aries	GCACCAAAAA	A-AGATGTCC	TTTTTCATCAT	AGGGGACTGG	AATGCA-AAA	GTA-GGAAGT -CAAGAGATA 863	
BovB-RTE-Bos_taurus	GCACCAAAAA	A-AGATGTCC	TTTTTCATTAT	AGGGGACTGG	AATGCA-AAA	GTA-GGAAGT -CAAGAACA 1461	
BovB_Me-RTE-Macropus_eugenii	ACACTATAAA	A-AAA-GTCA	CACTGTTTTT	AGGAGATTGG	AATGCT-AAA	CTA-GGAAAT -AAAAAGATA 714	
BovB_Ano-RTE-Amphibolurus_norr	ACACCAAAAGA	A-AGATGTTT	TTCTCATTCT	AGGGGATTGG	AATGCT-AAA	GTA-GGGAGT -CAAGAGATA 910	
BovB_Gd-RTE-Eremiascincus_doug	ACACCAAAAA	ACGAATGTCC	TTTTTCATCAT	AGGGGATTGG	AATGCT-AAA	GTA-GGCAGT -CAAGAGGTA 496	
BovB_Er-RTE-Eremiascincus_rich	ACACCAAAAA	A-AGATGTCC	TTCTCATTCT	AGGGGATTGG	AATGCT-AAA	GTA-GGCAGT -CAAGAGGTA 1033	
BovB_Ca-RTE-Ctenotus_atlas	ACACCAAAAA	A-AGATGTCC	TCCTCATCAT	AGGGGATTGG	AATGCT-AAA	GTA-GGCAGT -CAAGAGGTA 1025	
BovB_Es-RTE-Egernia_stokesii	ACACCAAAAA	A-AGACGTCC	TCCTTATTAC	AGGGGATTGG	AACACTTAAA	GTA-GGAAGT -CAAGAGGTA 857	
BovB_Tr-RTE-Tiliqua_rugosa	ACACCAAAAA	A-AGATGTCC	TCCTTATTAT	AGGGGATTGG	AATGCT-AAA	GTA-GGAAGT -CAAGAGGTA 871	
BovB_ALi-RTE-Amblyomma_limbatu	GCTCCAAAA	A-TGATGTCC	TTATCATCAT	GGGGGATTAG	AATGCT-AAA	GTA-GGAAGC -CAAAAAGATA 993	
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	
BovB_VA-RTE-Vipera_ammodytes	ACACCAAAAA	A-TGATGTCC	TTATCATCAT	GGGGGATTGG	AATGCT-AAA	GTA-GGAAGC -CAAAAAGATA 831	
BovB_ACo-RTE-Agkistrodon_conto	ACACCAAAAA	A-TGATGTCC	TTATCATCAT	GGGGGATTGG	AATGCT-AAA	GTA-GGAAGC -CAAAAAGATA 833	
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----	
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----	
BovB_Ma-RTE-Macropus_antilopin	TCTTCTAGAA	ATAACACAAA	AAAAAGATAT	CACATTTCATC	ATAGAGGATT	GGA- - -ATG -CTAAAGAAA 941	
BovB_Af-RTE-Antechinus_flavipe	ATCTCCAGTC	ACTGAGGCCA	AAGAGGCTTA	AAATTGCTCA	GTTTTATGAA	GAC- - -CTA -CAACAATT 141	
BovB_Ac-RTE-Anolis_carolinensi	ACACCAAAAA	G-AGACATTA	TTCTAATTAC	AGGAGATTGG	AATGCT-AAA	GTG-GGCAGT -CAAATGACA 795	
BovB_BM-RTE-Bombyx_mori	ATACCTAATC	G-AGAGATAA	CCTTATTCC	TGGGGACTGG	AATGCAAAA	TCGGTGAAC	GACAGCGGAT 655
BovB_Dr-RTE-Christinus	GCACCAACAA	A-GGACACCA	TATATATTGG	TGGGGATTTC	AACGCAAAAG	TAGGG- - - -CTGATGAA 699	
BovB_La-RTE-Loxodonta_africana	ACATGCAATC	A-AGATGCAC	TGATAATTAC	TGGCGATTGG	AATGCAAAA	TTGAAACA - -AAAAAAA 825	
BovB_Pc-RTE-Procavia_capensis	ACATGCAATC	A-GGATGCAT	TGATAATTAC	TGGTGACTGG	AATGCAAAA	TTGAAACA - -AAGAAGAA 829	
BovB_Et-RTE-Christinus	AAATGCAATC	A-AGATGCAT	TGA- - -TTAT	TGGTAATTGG	AATGCAAAA	TTG-AAACA - -AAGAGAA 678	
BovB-Ta-RTE-Tachyglossus_acule	AGCTGCAAGC	A-AGATGTGT	TGATTATCAC	TGGGGATTGG	AATGCAAAA	TTGGTAATG - -GAATGGAA 967	
BovB_Plat-RTE-Ornithorhynchus	AGCTGCAAGC	A-AGATGTGT	TGATTATCAC	TGGGGATTGG	AATGCAAAA	TTGGTAATG - -GAATGGAA 955	
BovB_Ec-RTE-Equus_caballus	ACACCAAAAC	A-AGACATGC	TGATAATTAT	AGTTGACTGG	AACGCAAAAG	TAGGAAATA - -AAGTGGAA 725	
BovB_Cg-RTE-Christinus	ACACCTAAAC	A-AGATGTGC	TGATAATCAT	AGTTGACTGG	AATGCAAAA	TAGGAAATA - -AAGTAGAA 366	
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	
Stu-rnd-5_family-3162_LINE_RTE	GAGCGTTTTT	CAGCTTCTCC	GGCGAACTCA	TCTATCTTCT	CCGGCGACCA	GCCCGAAGA GAGACGGCAG 419	
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	
Consensus	-----	-----	-----	-----	-----	-----	



	1,620	1,640	1,660	1,680
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	ACTGGGATA	-----AC	GGGCAAGTTT	TGGCCTTGA GAACAAAATG AAGCTGGGCA AAGGCTAACA 1032
BovB_Gv-RTE-Gehyra_variegata	GCTGGGATA	-----AC	GGGCAAGTTT	-GGCCTTGA GAACAAAATG AAGCTGGGCA AAGGCTAACA 957
BovB_PMo-RTE-Python_molurus	ATCGGAATA	-----AC	AGGCAAGTTT	-GGCCTTGA GTACAAAATG AAGCAGGGCA AAGGCTAATA 899
BovB_Oa-RTE-Ovis_aries	CCTGGAGTA	-----AC	AGGCAAAATTT	-GGCCTTGA GTACAAAATG AAGCAGGGCA AAGGCTAACA 923
BovB-RTE-Bos_taurus	CCTGGAGTA	-----AC	AGGCAAAATTT	-GGCCTTGA ATACGGAATG AAGCAGGGCA AAGACTAATA 1521
BovB_Me-RTE-Macropus_eugenii	ATTGGAATA	-----AC	AGCCAAGTTT	-GGCCTTGA ATACAAAATG AAGCAAGG-A GAAGCCAATA 773
BovB_Ano-RTE-Amphibolurus_norr	AAAGGAATA	-----AC	AGGGAAGTTT	-GGCCTTGA GTTCAAAAACG AAGCAGGGCA AAGGCTAATA 970
BovB_Gd-RTE-Eremiascincus_doug	ATAGGAATA	-----AC	AGGAAAGTTT	-GGTCTTGA ACACAAAATG AAGCAGGGCA AAGACTGATA 556
BovB_Er-RTE-Eremiascincus_rich	ATAGGAATA	-----AC	AGGCAAGTTT	-GGTCTTGA GTACAAAATG AAGCAGGGCA AAGACTGATA 1093
BovB_Ca-RTE-Ctenotus_atlas	GTAGGAATT	-----AC	AGGCAAGTTT	-GGTCTTGA GTACAAAATG AAGCAGGGCA AAGACTGATA 1085
BovB_Es-RTE-Egernia_stokesii	ACAAGAATA	-----AC	AAGCAAGTTT	-GACCTTGA ACACAAAATG AAGCAGGACA AAGGCTAATA 917
BovB_Tr-RTE-Tiliqua_rugosa	ACAAGAATA	-----AC	AGGCAAGTTT	-GGCCTTGA ATACAAAATG AAGCAGGGCA AAGGCTAATA 931
BovB_ALi-RTE-Amblyomma_limbatu	ACCGGAATA	-----AC	AGGCAAGTTT	-GGCCTTGGC GTACAAAATG AAGCAGGGCA CAGGCTGGTA 1053
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	ACCAGAATA	-----AC	AGGCAAGTTT	-GGCCTTGA GTACAAAATG AAGCAGGGCA CAGGCTGATA 891
BovB_ACo-RTE-Agkistrodon_conto	AC - GGAATA	-----AC	AGGCAAGTTT	-GGCCTTGA GTACAAAATG AAGCAGGGCA CAGGCTGATA 892
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	GAAACCAAA	-----AG	ATAACTGGAA	-TAACAGGCA AATTTGGCCT TGGAAATAAAA AATGAAACAA 1001
BovB_Af-RTE-Antechinus_flavipe	TTAGAAATA	-----AC	ACCAAAGAAA	-AGATTTCAT ATTGATCATA GGGTATGGAA ATACTTAGA 201
BovB_Ac-RTE-Anolis_carolinensi	ACCAGGATC	-----AC	AGGCAAGCAT	-GGTCTGGGA CAACAAAATG AAGCAGGACG TAGGCTGATA 855
BovB_BM-RTE-Bombyx_mori	GGACACATAA	GACGCACTGT	AGGAAATTTT	-GGCTTGGGC AAACGAAAATG ACCGTGGAGA ACGATTTTTA 724
BovB_Dr-RTE-Christinus	GAGCAAAATG	-----ATCAT	AGGCAATTTT	-GGTTTAGGG GAACGGAACG AGGCTGGTGA CCGCTTGATC 762
BovB_La-RTE-Loxodonta_africana	GGATT -GTA	-----GT	TGGAAAATAT	-GGCCTTGGT GATAGAAAACA ATGCCGGAGA TCAAAATGATA 884
BovB_Pc-RTE-Procavia_capensis	GGATCAGTA	-----GT	TGGAAAATAC	-GGCCTTGGT GATAGAAAATA ATGCCGGAGA TTGCATGATA 889
BovB_Et-RTE-Christinus	AGAACAAATA	-----GT	CAGA - - - -	- - - CTTGGT CACAGAAAATA AAGCTGGAGA TCACATGACA 729
BovB_Ta-RTE-Tachyglossus_acule	ATGAAGGTT	-----GT	TGGAAAATAT	-GGCCTTGGGA AATCAGAAATC AAGCCAGGGA CCGACTTA -T 1026
BovB_Plat-RTE-Ornithorhynchus	ATGAAGGTT	-----GT	TGGAAAATAT	-GGCCTTGGGA AATCAGAAATC AAGCCAGGGA CCGACTTACT 1015
BovB_Ec-RTE-Equus_caballus	TCAAAACATC	-----AT	CGGAAAATTT	-GGACTAGGG GTCAGAAAACA AAGCAGGAGA CCGGCTCATG 785
BovB_Cg-RTE-Christinus	TCAAAATATT	-----GT	AGGAAAAAAT	AGGAATATGA GCATGAAAATG AAGCAGGAGA GCTACTCATA 427
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	TGCTACTGTT	TGCCGCCGGA	GACCAACCAG	ATCTGGCCGG AAATCANCCA GACCTGGCCC GAAAATTGCC 489
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----
Consensus	-----	-----	-----	-----



	1,700	1,720	1,740	
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	GAAGTTCTGT CAAGAAAACA TGCTGGTCAT AGCGAA - CAC CCTCTTTCAA CAACCTAAGA GGC - GACTCT 1100			
BovB_Gv-RTE-Gehyra_variegata	GAA - TTCTGT CAAGAAAACA TGCTGGTCAT AGCGAA - CAC CCTCTTTCAA CAACCTAAGA GGC - GACTCT 1024			
BovB_PMo-RTE-Python_molurus	GAG - TTCTGT CAAGAGAACA AGCTAGTCAT AGCAAA - CAC TCTTTTCCAA CAACACAAGA GAC - GACTCT 966			
BovB_Oa-RTE-Ovis_aries	GAG - TTTTGC CAAGAGAACG CACTGGTCAT AGCAAA - CAC CCTCTTTCAA CAACACAAGA GAC - GACTCT 990			
BovB-RTE-Bos_taurus	GAG - TTTTGC CAAGAAAATG CACTGGTCAT AGCAAA - CAC CCTCTTTCAA CAACACAAGA GAA - GACTCT 1588			
BovB_Me-RTE-Macropus_eugenii	GAG - TTGTGT CAAGAAAATC TGCTGGTGT AAAAA - CAT TCTTTGTCAA CAACCGAAAA AAGTGACTCT 841			
BovB_Ano-RTE-Amphibolurus_norr	GAG - TTTTGT CAAGAGAACA AGCTGGTCAT AAAAA - CAC TCTTTTCCAA CAACACAAGA GGC - GACTCT 1037			
BovB_Gd-RTE-Eremiascincus_doug	GAG - TTCTGT CAGGAGAACA CATTAGTCAT AAAAA - CAC CCTTTTCCAG CAGCACAAC GGC - GACTGT 623			
BovB_Er-RTE-Eremiascincus_rich	GAG - TTCTGT CAGGAGAACA CATTAGTCAT AAAAA - CAC CCTTTTCCAG CAACACAAC GGC - GACTGT 1160			
BovB_Ca-RTE-Ctenotus_atlas	GAG - TTTTGT CAGGAGAACG CATTAGTCAT AGCAAA - CAC CCTTTTCCAG CAACACAAC GGC - GACTGT 1152			
BovB_Es-RTE-Egernia_stokesii	GAA - TTTTGT CAAGAGAACA CACTGGTCAT AGCAAA - CAC CCTTTTCCTA CAACCCAAGC AGC - GACTCT 984			
BovB_Tr-RTE-Tiliqua_rugosa	GAG - TTTTGT CAAGAGAACA CACTGGTCAT AGCAAA - CAC CCTTTTCCTA CAACCCAAGC GAC - GACTCT 998			
BovB_ALi-RTE-Amblyomma_limbatu	GAA - TTTTGT CAAGAGAATA CGATGGTCAT AGCTAA - CAC TCTCTTTCAA CAACCTAAGA GAC - GACTCT 1120			
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	GAA - TTTTGT CAAGAGAATA CGATGGTCAT AGCAAA - CAC TCTTTTCCAA CAACCCAAGA GAC - GGCTGT 958			
BovB_ACo-RTE-Agkistrodon_conto	GAA - TTTTGT CAAGAGAATA CGATGGTCAT AGCAAA - CAC TCTTTTCCAA CAACCCAAGA GAC - GGCTCT 959			
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	GGCAGAGACT GATAAAGTTT TGTCAGAAAA ACTCAC - TGG TCAGAGCAA CACTGTTTTT AAACAACCCA 1070			
BovB_Af-RTE-Antechinus_flavipe	GTAGGAAATC AAAACATAAT TAGAATAAAA AGCAAG - TTT GGCTTTAGGA TACAAAATGA AGCAGGACAG 270			
BovB_Ac-RTE-Anolis_carolinensi	GAA - TTTTGC CAGGAAAACCT CACTGTGCAC AAAAA - CAC CCTCTTTCAA CAACCTAAAA GAACGGCTTT 923			
BovB_BM-RTE-Bombyx_mori	GAA - TTTTGC GTGGA AAAAG ATCTCAGCAT TCTCAA - TAC CTGCTTTCAA CATCATGCGA GGC - GACTGT 791			
BovB_Dr-RTE-Christinus	CAG - TGCTGC CAAGAAAATC AATTAGTGAT TGTA AAA - CAC CTGGTTTGAA CAGCGAAGC GTC - GGTTAT 829			
BovB_La-RTE-Loxodonta_africana	GAA - TTTTGC AAGACCAACG ACTTCTTCAT TGCAAAAATAC CTTTTTTTAC CAACATAAAC GAC - GACTAT 952			
BovB_Pc-RTE-Procavia_capensis	GAA - TTTTGC AAGACTAATG ACTTCTTCAT TGCAAA - TAC CTTTTTTTAC CAACACAAT GGT - GACTGT 956			
BovB_Et-RTE-Christinus	AAA - TTTTGC AAAACCAACG ACTTGCTCAT AGAAAA - CAC CTTTTTCAA - AACACAAAA GGG - CACTAC 795			
BovB_Ta-RTE-Tachyglossus_acule	GAT - TTCTGT GAATCAAATG ACTTTTTTAT TGCCAA - CAC CTCTTTTATC CAACGTAAC GAC - GACTGT 1093			
BovB_Plat-RTE-Ornithorhynchus	GAT - TTCTGT GAATCAAATG ACTTTTTTAT TGCCAA - CAC CTCTTTTATC CAACCTAAC GAC - GACTGT 1082			
BovB_Ec-RTE-Equus_caballus	GAT - TTCTGT GAAGCCAACA ACTGTCCAT CGCAAA - TAC ATGCTTCAAG CAACCGAACA GAC - GACTGT 852			
BovB_Cg-RTE-Christinus	GAA - TTCTGT GAAGACGACT ----- TAACCGTGAA CAC - GATTGT 465			
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	CATTGACCAC CGAAGCCCTC CATCTTCACC GACTCAGGT CTATCTATCC TTTTCTCTCT CTTTTTCGCT 559			
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----
Consensus	-----	-----	-----	-----



	1,760	1,780	1,800	1,820
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	ACACATGGAC ATCACCAGAT --GGGCAACA CCGAAATCAG ATTGATTATA TCATCTG-CA GTCAAAGATG 1167			
BovB_Gv-RTE-Gehyra_variegata	ACACATGGAC ATCACCAGAT --GGGCAACA CCGAAATCAG ATTGATTATA TCATCTG-CA GTCAAAGATG 1091			
BovB_PMo-RTE-Python_molurus	ACACATGGAC ATCACCAGAT --GGTCAATA CCGAAACAG ATTGATTATA TACTTTG-CA GCCAAAGATG 1033			
BovB_Oa-RTE-Ovis_aries	ACACATGGAC ATCACCAGAT --GGTCAATA CCGAAATCAG ATTGATTATA TTCTTTG-CA GCCAAAGATG 1057			
BovB-RTE-Bos_taurus	ATACATGGAC ATCACCAGAT --GGTCAACA CCGAAATCAG ATTGATTATA TTCTTTG-CA GCCAAAGATG 1655			
BovB_Me-RTE-Macropus_eugenii	ATACATGGAT GTCACCATAT AGGGTCAATA TTGAAATCAG ATTGAATATA TACTTTG-TA GTCAAAGGTG 910			
BovB_Ano-RTE-Amphibolurus_norr	ATACATGGAA ATCACCAGAT --GGGCAATA CCGAAATCAG ATTGATTATA TTCTCTG-CA GCCAAAGATG 1104			
BovB_Gd-RTE-Eremiascincus_doug	ACACATGGAC TTCACCAGAT --GGTCTACA TCGAAATCAG ATTGATTACA TTCTTTG-CA GCCAAAGGTG 690			
BovB_Er-RTE-Eremiascincus_rich	ACACATGGAC TTCACCAGAT --GGTCTACA CCGAAATCAG ATTGATTACA TTCTTTG-CA GCCAAAGGTG 1227			
BovB_Ca-RTE-Ctenotus_atlas	ACACATGGAC TTCACCAGAT --GGTCTACA TCGAAATCAG ATTGATTACA TCCTTTG-CA GCCAAAGGTG 1219			
BovB_Es-RTE-Egernia_stokesii	ACACATGGAA ATCACCAGAT --GATCTACA CTGAAATCAG ACTGAATATG TTCTCTG-CA GCCAAAGATG 1051			
BovB_Tr-RTE-Tiliqua_rugosa	ACACATGGAC ATCACCAGAT --AGTCTACA CTGAAATCAG ATTGATTATA TTCTCTG-CA GCCAAAGATG 1065			
BovB_ALI-RTE-Amblyomma_limbatu	ACACATGGAC AGCACCTTAT --GGCCAACA CATAAATCAG ATTGACTATG TGATCTGACA GCCAAAGATG 1188			
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	ACACATGGAC ATCACCAGAT --GGTCAATA CAGAAATCAG ATTGACTATG TGCTCTG-CA GCCAAAGATG 1025			
BovB_ACo-RTE-Agkistrodon_conto	ACACATGGAC ATCACCAGAC --GGTCAACA CAGAAATCAG ATTGACTATG TGCTCTG-CA GCCAAAGATG 1026			
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	AAAGGCAACT CTACACATGG ACATACCAG ATAGTCAATA TCAAAATCAG ATTGATTATA CACTTTGCGAG 1140			
BovB_Af-RTE-Antechinus_flavipe	AGACAAACAG AGTTTTATAA CTCTATTTG AACTTTCTG TCATAGCAAA CATACTTCTT TTCAACAATC 340			
BovB_Ac-RTE-Anolis_carolinensi	ACACATGGAC TTCACCAGAT --GGTCAACA CCGAAATCAA ATTGACTACA TACTCTG-CA GACAAAGGTG 990			
BovB_BM-RTE-Bombyx_mori	ATACATGGAA ATCACCAGGT --GACAGATT CAGGAACAG ATTAACATA TATTGAT-CA ACTCTCGCTG 858			
BovB_Dr-RTE-Christinus	ACACATGGAC GGCCCAAAT --G--GATA TGGCAACAG ATTGACTACA TCCTGTG-TC AAAAAAGCTG 893			
BovB_La-RTE-Loxodonta_africana	ACACATGGAC CTCACCAGAT --GGAACACA CAGAAATCAA ATCGACTACA TCTGTGG-AA AGAGACGATG 1019			
BovB_Pc-RTE-Procavia_capensis	ACACATGGAC CTCACCAGAT --GGAATACA CAGGAACCAA ATTGACTACA TCTGTGG-AA AAAGATGATG 1023			
BovB_Et-RTE-Christinus	ACACATGGAC TTCCCCAGAT --GAAATACA CAGAAATCAA ATTGACTACA TTTGTGG-GA AGTCAGGATG 862			
BovB-Ta-RTE-Tachyglossus_acule	ACACATGGAC TTCACCAGAT --GGACTATA TAGAAATCAA ATAGACTATA TTATTTG-TA GAAAGAGATG 1160			
BovB_Plat-RTE-Ornithorhynchus	ACACATGGAC TTCACCAGAT --GGACTATA TAGAAATCAA ATAGACTATA TTATTTG-TA GAAAGAGATG 1149			
BovB_Ec-RTE-Equus_caballus	ATACATGGAC ATCACCAGAT --GGCCAATA TAGAAATCAA ATAGACTATG TAATTGG-AA GCAGGAGATG 919			
BovB_Cg-RTE-Christinus	ATATGTGGAC ATCACTAGAT --GGCCAATA CAGAAATCAA ATAGATTACA TAATAGG-AA AAAAAAGATG 532			
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	GAACCTAGTT GCTGCTGGGC CCTGTCTTGC AGACTCCTTA TCCCGGAACA GTACTTCCCA GTTTTCTTAA 629			
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----
Consensus	-----	-----	-----	-----



	1,840			1,860			1,880	
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	GAGAAGCTCT	A - TACAGTCA	GCAAAAAACAA	G - - - ACCTGG	AGCTGACTGT	GGCTCAGATC	ATGAGCTACT	1233
BovB_Gv-RTE-Gehyra_variegata	GAGAAGCTCT	A - TACAGTCA	GCAAAAAACAA	G - - - ACCTGG	AGCTGACTGT	GGCTCAGATC	ATGAGCTACT	1157
BovB_PMo-RTE-Python_molurus	GAGAAGCTCT	A - TACAGACA	GCAAAAAACAA	G - - - ACCAGG	AGCTGACTGT	GGCTCAGATC	ATGAGCTTCT	1099
BovB_Oa-RTE-Ovis_aries	GAGAAGCTCT	A - TACAGTCA	GCAAAAAACAA	G - - - ACCTGG	AGCTGACTGT	GGCTCAGATC	ATGAACTCCT	1123
BovB-RTE-Bos_taurus	GAGAAGCTCT	A - TACAGTCA	GCAAAAAACAA	G - - - ACCAGG	AGCTGACTGT	GGCTCAGACC	ATGAACTCCT	1721
BovB_Me-RTE-Macropus_eugenii	GAAAAGCTCT	A - TGCAGTCA	GTTAAAAACAA	AGATACCTGG	AGCTGACTGT	GGCTCAGATC	TTGAGTTTCT	979
BovB_Ano-RTE-Amphibolurus_norr	GAGAAGCTCT	A - TACAGTCA	GCAAAAAACAA	G - - - ACCTGG	AGCTGATTGT	GGCTCTGATC	ATCAGCTTCT	1170
BovB_Gd-RTE-Eremiascincus_doug	GAGAAGCTCT	A - TACAGGCA	GTCAAAAACAA	G - - - ACCTGG	AGCTGACTGT	GGCTCAGATC	ATGAGCTTCT	756
BovB_Er-RTE-Eremiascincus_rich	GAGAAGCTCT	A - TACAGGCA	GTCAAAAACAA	G - - - ACCTGG	AGCTGACTGT	GGCTCAGATC	ATGAGCTTCT	1293
BovB_Ca-RTE-Ctenotus_atlas	GAGAAGCTCT	A - TACAGGCA	GTCAAAAACAA	G - - - ACCTGG	AGCTGACTGT	GGCTCAGATC	ATGAGCTTCT	1285
BovB_Es-RTE-Egernia_stokesii	GAGAAGCTCT	A - TACAGTCA	GTCAAAAACAA	A - - - ACCTGG	AGCTGACTGT	GGATCAGATC	ATGAGCTTCT	1117
BovB_Tr-RTE-Tiliqua_rugosa	GAGAAGCTCT	A - CACAGTCA	GTCAAAAACAA	G - - - ACCTGA	AGCTGACTGC	AGATCAGATC	ATGAGCATCT	1131
BovB_ALI-RTE-Amblyomma_limbatu	GAGAAGTTCT	AGTACAGTCA	GTCAAAAACTA	G - - - ACCACG	AACTGATTGT	GGCTCAGATC	ATCAGCTTCT	1255
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	GAGAAGCTCT	A - TACAGTCA	GTCAAAAACAA	G - - - ACCAGG	AGCTGACTGT	GGCTCAGACC	ATGAGCTTCT	1091
BovB_ACo-RTE-Agkistrodon_conto	GAGAAGCTCT	A - TACAGTCA	GTCAAAAACAA	G - - - ACCAGG	AGCTGACTGT	GGCTCAGATC	ATGAGCTTCT	1092
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	CCA AAGGTGA	AGAAGCAATA	TACAGTCAGT	TAAAGCAAAA	CCTGAAGCTG	ACTGTGACTG	AGATCATGAG	1210
BovB_Af-RTE-Antechinus_flavipe	CAAAAAGATGA	TTACATACGT	AGCATCACC	AGATAGATGG	TCGATATAGA	AATAAAATTG	ATTATTTACT	410
BovB_Ac-RTE-Anolis_carolinensi	GCAGACATCC	A - TCCAGTCG	GCGAAAAACAA	G - - - ACCTGG	AGCTGACTGT	AGCTCAAATC	ACAAACTTCT	1056
BovB_BM-RTE-Bombyx_mori	GAGGTCCACC	G - TATCAAAT	GTCAGACCT	A - - - TCCTGG	GGCGGACTGT	GGTTCCAGAC	ATGTGCTCCT	924
BovB_Dr-RTE-Christinus	GAAGAACTCA	G - TACAGGTA	GTCAAAACCG	T - - - TCCTGG	TGCAGACTGC	GGCTGTGACC	ACCAGCTACT	959
BovB_La-RTE-Loxodonta_africana	GAAAAGCTCA	A - TATCATCA	GTCAGAACAA	G - - - GCCAGG	GGCCGACTGT	GGAACAGACC	ATCAATTGCT	1085
BovB_Pc-RTE-Procavia_capensis	GAAAAGCTCC	A - TATCAGCA	GTCAGAACAA	G - - - ACCAGG	TGCTGACTGT	GGCACAGATC	ATCAATTGCT	1089
BovB_Et-RTE-Christinus	GAGAAGCTTG	A - TATCAACC	GCTAAAACCA	G - - - ACCAGG	AGCTGACTGT	GGAACAGACC	ATCAATGGCT	928
BovB_Ta-RTE-Tachyglossus_acule	GAGGAGTTCT	A - TTTTGGCA	GCAAAAACAT	G - - - GCCTGG	AGCTGATTGT	GGAACAGATC	ACGAGCTGTT	1226
BovB_Plat-RTE-Ornithorhynchus	GAGGAGTTCT	A - TTTTGGCA	GCAAAAACAT	G - - - GCCTGG	AGCTGACTGT	GGAACAGATC	ATGAGCTGTT	1215
BovB_Ec-RTE-Equus_caballus	GAGAAGCTGT	A - TTCTCTCT	GCCAAAAACAA	G - - - ACCAGG	AGCAGATTGT	GGTACTGACC	ACGAACTGTT	985
BovB_Cg-RTE-Christinus	GAGAA - CAGT	T - GACACACA	GCCTTTACAA	A - - - CTTGGG	AA - AGATTTT	G - - - - - - -	-----	577
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	TAAAGCTCTG	ACCTGTGCTT	CAGTCTTTAG	TAGAGTGGGT	GCTATCGTGG	CCTCTGGATT	ACACACTGTT	699
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Consensus	-----	-----	-----	-----	-----	-----	-----	-----
Conservation								

	1,900	1,920	1,940	1,960					
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----				
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----				
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----				
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----				
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----				
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----				
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----				
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----				
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----				
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----				
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----				
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----				
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----				
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----				
BovB_GI-RTE-Gehyra_lazelli	CAT - TGCAA	ATTTAGGCTT	AAACTGAAGA	AA - ATTGGGA	AAAC - -CACT	AGGCC - TTTC	AGGTTTGACT	1298	
BovB_Gv-RTE-Gehyra_variegata	CAT - TGCAA	ATTTAGGCTT	AAACTGAAGA	AA - ATTGGGA	AAAC - -CACT	AGGCCCTTTC	AGGTTTAACT	1223	
BovB_PMo-RTE-Python_molurus	TAC - TGCAA	ATTTAGGCTT	AAATTGAAGA	AT - GTAGGGA	AAAC - -CACT	AGACC - ACTC	AGGTATGACT	1164	
BovB_Oa-RTE-Ovis_aries	TAT - TGCAA	ATTCAGACTT	AAATTGAAGA	AA - GTAGGGA	AAAC - -CACT	AGACC - ATTC	AGGTATGACC	1188	
BovB-RTE-Bos_taurus	TAT - TGCAA	ATTCAGACTT	AAATTGAAGA	AA - GTAGGGA	AAAC - -CACT	AGACC - ATTC	AGGTATGACC	1786	
BovB_Me-RTE-Macropus_eugenii	TGC - TGAAA	ATTCAGAC - -	AAATTGAAGA	AA - GTAGGGA	AATC - -AATC	ATACC - ATAT	AGGTATGACA	1042	
BovB_Ano-RTE-Amphibolurus_norr	CAT - AGCAA	ATTCAGACTT	AGACTGAAGA	GA - GTAGGAA	AAAC - -CACT	GGGCC - ACTC	AGGTATAATC	1235	
BovB_Gd-RTE-Eremiascincus_doug	TATAGGCAAA	ATTCAGGCTT	AAACTTAAAA	AA - GTAGGGA	AAAC - -CACT	AGGCC - CTCC	ACGTATGACC	822	
BovB_Er-RTE-Eremiascincus_rich	TAT - GGCAA	ATTCAGGCTT	AAACTGAAAA	AA - GTAGGGA	AAAC - -CACT	AGGCC - CTCC	ACGTATGACC	1358	
BovB_Ca-RTE-Ctenotus_atlas	TAT - TGCAA	ATTCAGGCTT	AAACTGAAAA	AAAGTAGGGA	AAAC - -CACT	AGGCC - CTCC	ACGTATGACC	1351	
BovB_Es-RTE-Egernia_stokesii	TAT - TGCAA	ATTCAGGCTT	AAACTGAAGA	AA - GTAGGGA	AAAAAACATT	AGGCC - ATTC	AGGTACGACC	1184	
BovB_Tr-RTE-Tiliqua_rugosa	TAT - TACAAA	ATTCAGGCTT	AAACTGAAGA	AA - GTAGGGA	AAAA - CATT	AGGCC - AATC	AGGTATGACC	1196	
BovB_ALi-RTE-Amblyomma_limbatu	TTT - TGCAA	ATTTAGGCTT	AAGTTGAAGA	AA - GTAGGAA	AAAG - -CACA	ATGCC - ACTC	AAGTATTACC	1320	
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----	-----	
BovB_VA-RTE-Vipera_ammodytes	CGT - TGCAA	GTTTAGGCTT	AAACTGAAGA	AA - GTAGGGA	AAAG - -CACT	AGGCC - ACTC	AGGTATGAAT	1156	
BovB_ACo-RTE-Agkistrodon_conto	CGT - TGCAA	ATTTAGGCTT	AAATTGAAGA	AA - GTAGGGA	AAA - -CACT	AGGCC - ACTC	AGGTATGAAC	1156	
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----	-----	
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----	-----	
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----	-----	-----	
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----	-----	-----	
BovB_Ma-RTE-Macropus_antilopin	TTTCTTATTC	CAAAATTCAC	ACTTAAATGG	AAGAAAGTAG	GAAA - -AACC	ATCAGAACAT	ATAGGTATGA	1278	
BovB_Af-RTE-Antechinus_flavipe	TTGCCATGAA	AGGCAAAGTT	CTATATAGCT	AGTTAAAACG	CAAA - -ATTC	AGACGAAAAT	TTGAAGAAAG	478	
BovB_Ac-RTE-Anolis_carolinensi	TAT - TGCAA	ATTCAGAATC	AAACTAAAAGA	GA - ATGGGGA	AAAT - -ACAC	AGACC - AATT	AGATATGACA	1121	
BovB_BM-RTE-Bombyx_mori	GGT - TGCAA	CTTCGGCTG	CGCCTCAAAG	CG - -CAAAA	CGTA - - -AA	TGCAATTTAT	AGACCCGG - A	986	
BovB_Dr-RTE-Christinus	CAT - TGCAA	AGTCAAATTT	CGATTCAACA	CCATCAAAG	GCTT - - -CC	TACAAATGCCG	CGTTTTGACA	1024	
BovB_La-RTE-Loxodonta_africana	CAT - ATGCAA	GTAAGAGC - -	AAACTGAAGA	AAATCAGAGC	AAGT - - -CC	ATGAGAGCCA	AAGTACAACC	1148	
BovB_Pc-RTE-Procavia_capensis	CAT - ATGCAA	ATTCAAATTC	AAACTGAAGA	AAATTAGAAC	AAGT - - -CC	ACGAGAGCCA	AAGTATGACC	1154	
BovB_Et-RTE-Christinus	CCT - ATATA	GTTTAGGATA	AAGCTGAAGA	AAATTAATAA	AAGT - - -CC	ACAAGAGCCA	AAATATGACC	993	
BovB_Ta-RTE-Tachyglossus_acule	AAT - GTGTAA	ACTCAGGCTA	AAACTTAGAA	AGATCAATCA	TGCC - - -TT	ACAGCTGCC	AAATATGACC	1291	
BovB_Plat-RTE-Ornithorhynchus	AAT - GTGTAA	ACTCAGGCTA	AAACTTAGAA	AGATCAATCA	TGCC - - -TT	ACAGCTGCC	AAATATGACC	1280	
BovB_Ec-RTE-Equus_caballus	AAT - ATCAAA	TATCAGAGTA	AAGCTGAAGA	AGAGCACTAA	AAGA - - -AT	CGTAGTGCCA	AAATATAACG	1050	
BovB_Cg-RTE-Christinus	-----	ATCAGC	TACCGGGGAA	GAGCAGAAGA	AAAAACCCCA	AACA - - -GT	CAAAGTACAA	AAATATAATA	639
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----	-----	
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	-----	
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----	
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----	
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----	
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----	
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----	
Stu-rnd-5_family-3162_LINE_RTE	CTGGACACTA	TAGTGTAGCT	GCTGTATAC	TGTCCTTAG	AGTGACTAC	TGCTGCAGCT	TGTTTTAAG	769	
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----	
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----	
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----	
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----	
Consensus	-----	-----	-----	-----	-----	-----	-----	-----	



	1,980	2,000	2,020	
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	TAGATCACAT	TCCTTATGAA	TATACAGTGG	AGGT-----G AAAAATAGGT TTAAGGGACT -AGATTTGAT 1362
BovB_Gv-RTE-Gehyra_variegata	TAGATCACAT	TCCTTATGAA	TATACAGTGG	AGGT-----G AAAAATAGGT TTAAGGGACT -AGAGTTGAT 1287
BovB_PMo-RTE-Python_molurus	TAGATCATAT	TCCTTGTGAG	TACACAGTGA	AGGT-----G ATGAATAGAT TTAGAGGATT -AGATTTGGT 1228
BovB_Oa-RTE-Ovis_aries	TAAATCAAAAT	CCCTTATGAT	TATACAGTGG	AAGT-----G ACAAATAGAT TCAAGGGATT -AGATCTGAT 1252
BovB-RTE-Bos_taurus	TAAATCAAAAT	CCCTTATGAT	TATACAGTGG	AAGT-----G AGAAATAGAT TTAAGGGCCT -AGATCTGAT 1850
BovB_Me-RTE-Macropus_eugenii	TATA--ATAT	CCCTTATGAA	TGTGAAGTGG	AAGT-----G ATGAATAGAT TTAAGGCTTT -AGATATGGT 1104
BovB_Ano-RTE-Amphibolurus_norr	TAAACCAAAT	CCCTTATGAA	TACACAGTGG	AAGT-----G AAGAACAGAT TTAAGGAAC T -AGATTTGGT 1299
BovB_Gd-RTE-Eremiascincus_doug	TAAATCAGAT	CCCATATGAA	TATACAGTGG	AGGT-----G ACCAATAGAT TTAGGGGCTT -AGATTTGGT 886
BovB_Er-RTE-Eremiascincus_rich	TAAATCAGAT	CCCATACGAA	TATACAGTGG	AGGT-----G ACCAATAGAT TTAGGGGCTT -AGATTTGGT 1422
BovB_Ca-RTE-Ctenotus_atlas	TAAATCAGAT	CCCATACGAA	TATACAGTGG	AGGT-----G ACTAATAGAT TTAGGGGCTT -AGATTTGGT 1415
BovB_Es-RTE-Egernia_stokesii	TAAATCATAT	TCCATATGAA	TACACAGTGG	AGGT-----G ACAAATAGAT TTAAGGTTT -AGATTTGGT 1248
BovB_Tr-RTE-Tiliqua_rugosa	TAAATCATAT	TCCACATGAA	TACACAGTGG	AGGT-----G ACAAATAGAT TTAAGGTTT -AGATTTGAG 1260
BovB_ALi-RTE-Amblyomma_limbato	TAAATCATAT	CTCATATGAA	TATACAGTAA	AGGT-----G ACAAATAGAT TTAAGGAAT -AGATCTGAT 1384
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	TAAATCATAT	CCCTGTTGAA	TATACAGTAG	AGGT-----G ACAAATAGAT TTAAGGAAT -AGATCTGAT 1220
BovB_ACo-RTE-Agkistrodon_conto	TAAATCATAT	CCCTGATGAA	TATACAGTAG	AGGT-----G ACAAATAGAT TTAAGGAAT -AGATCTGAT 1220
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----
BovB_Ma-RTE-Macropus_antilopin	CCTAAATAAC	ATCCCTTATG	AATATGAAGT	GGAA-----G TGATGAATAG ATTTAAGGGA -TTAGATCTG 1342
BovB_Af-RTE-Antechinus_flavipe	TAGGGGAAAT	CATCAGATCA	TATAGGTATA	ATCT-----A AACAAATCC CTTATAATAT -AAAGTAAA 542
BovB_Ac-RTE-Anolis_carolinensi	TAAACAAACAT	TCATAGTGAA	TATGCAAGTGG	AGGT-----G AAGAATAGAT TTAGGAACT -AGATGTAAT 1185
BovB_BM-RTE-Bombyx_mori	CAAGCAAGAT	AGCTTC-CGC	AATGCTCTCG	AAA-----G AACAGCT TTTAGGTACA ACACCAACCAG 1045
BovB_Dr-RTE-Christinus	CCAGTAAGAT	CCCAACACAA	TATGCAAGTGG	AGGT-----A AATAATAGAT TTGATCACT -CGCTACAAC 1088
BovB_La-RTE-Loxodonta_africana	TTGAGTATAT	CCCACCTGAA	TTTAGAGACC	ATATGATGAC AGCAAGAGAT TTGACACATT -GAACACTAA 1217
BovB_Pc-RTE-Procavia_capensis	TTGAGTATAT	CCCTCCTGAG	TTTTAAGACC	ATCT-----C AAGAACAGAT TTGATGTGTT -GATCACTAA 1218
BovB_Et-RTE-Christinus	TTGAGTCTAT	CTCAGCTGAA	TTTTGAGAGC	ATCT-----T AAGAGCAGAT TTGATGCACT -GAACAATAG 1057
BovB_Ta-RTE-Tachyglossus_acule	TGATGAATAT	TCCCCTGTGA	TTTTAAGGATC	ATGT-----A AAAAATAGAT TTAGGTTGCT -TAATCTCAC 1355
BovB_Plat-RTE-Ornithorhynchus	TGACGAATAT	TCCCCTGTGA	TTTTAAGGATC	ATGT-----A AAAAATAGAT TTAGGCGCT -TAATCTCAC 1344
BovB_Ec-RTE-Equus_caballus	TAAACAACAT	TCCCAATGAA	TTTTAAGTCC	ACAT-----A AAAAACAGAT TTGCATTGTT -AAACTTAAT 1114
BovB_Cg-RTE-Christinus	TAAACAACAT	TCTTAAAGAA	TTTGAAGAAC	ATAT-----A AGGAACATA TAGCATTATT -AAGTTAAT 703
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	TGTTTGTCTG	TGTAGATCTT	TCATTAGTTT	CAGTATTTTC TAGTGGATTT GGTATCCGAT GGTGGTACTA 839
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----
Consensus	-----	-----	-----	-----A-----

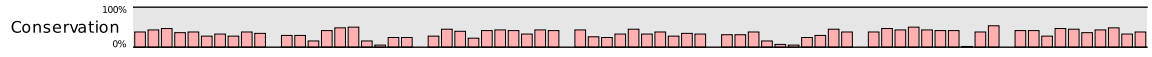


	2,040	2,060	2,080	2,100				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----			
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----			
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----			
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----			
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----			
BovB_GI-RTE-Gehyra_lazelli	AGACAGAGCA	C-CTGAAGAA	CTATGGACGG	AAGTTCGTGA	CATTGTACAG	GAGGCAGCAA	TCAGCACCA	1430
BovB_Gv-RTE-Gehyra_variegata	AGACAGAGCA	C-CTGAAGAA	CTATGGACGG	AAGTTCGTGA	CATTGTACAG	GAGGCAGCAA	TCAGCATCA	1355
BovB_PMo-RTE-Python_molurus	AGACAGAGTG	C-CTGAAGAA	CTATGGACGG	AGGTCCGTAA	CATTGTACAG	GAGGCAGCAA	CTAAAACCA	1296
BovB_Oa-RTE-Ovis_aries	AGACAGAGTG	C-CTGAAGAA	CTATGGACAG	AGTTCATAA	CATTGTACAG	GAGGCAGTGA	TCAAAACCA	1320
BovB-RTE-Bos_taurus	AGATAGAGTG	C-CTGATGAA	CTATGGAATG	AGTTCGTGA	CATTGTACAG	GAGACAGGGA	TCAGACCA	1918
BovB_Me-RTE-Macropus_eugenii	AGATAAAGTG	C-CTGAAGAA	CTATGGACAG	AAGTTCCTAA	TATTTTATAA	GGAGCAGCAG	A-AAAAACA	1171
BovB_Ano-RTE-Amphibolurus_norr	GGACAGAGTG	C-CTGAAGAA	CTTTGGATAG	AGGCTCGTAA	CATTGTACAG	GAGGCAGCAA	CAAAAACCA	1367
BovB_Gd-RTE-Eremiascincus_doug	AGACAGAGTG	C-CTGAAGAA	CTTTGGATGG	AGGTCTGTAA	CATTGTACAG	GAGGCAGCAA	CTAAAACCA	954
BovB_Er-RTE-Eremiascincus_rich	AGACAGAGTG	C-CTGAAGAA	CTTTGGACGG	AGGTCTGTAA	CATTGTACAG	GAGGCAGCAA	CTAAAACCA	1490
BovB_Ca-RTE-Ctenotus_atlas	AGACAGAGTG	C-CTGAAGAA	CTTTGGACGG	AGGTCTGTAA	CATAGTACAG	GAAGCAGCAA	CTAAAACCA	1483
BovB_Es-RTE-Egernia_stokesii	AGACAGAGTA	C-CTGAAGAA	CTATGGATGG	AGGCTTGCAA	CATTGTTCAG	GAGGTAGCAA	CTAGAACTAG	1317
BovB_Tr-RTE-Tiliqua_rugosa	AGACAGAGTG	C-CTGAAGAA	CTGTGGACAG	AGGCTCGCAA	CTTTGTTTCA	GAGGTGGCAA	CTGGAACCA	1328
BovB_ALI-RTE-Amblyomma_limbatu	AGACAGAGGG	C-CTGAATAA	CTATGAACGG	AGTTCGAAA	CATTGTACAA	GAGGCAGAAA	CTAAAACAT	1453
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	AGACAGAGTG	C-CTGAAGAA	CTATGGACAG	AGTTCGCAA	CATTGTATAA	GAGGTAGCAA	CTAAAACCAT	1289
BovB_ACo-RTE-Agkistrodon_conto	AGACAGAGTG	C-CTGAAGAA	CTATGGACGG	AGTTCGCAA	CATTGTACAA	GAGGTAGCAA	CTAAAACCAT	1289
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	CTAC	TATCATCAAG	AGGTATCTTA	ATTCTTCACT	TTCTGCCATC	AAAGTGGTAT 54
BovB_Ma-RTE-Macropus_antilopin	GTAGAGAGAG	T-GCCTGAAG	AACTATGGAC	AGAGGTTTCA	CAATATTGCA	CAGGAGACAG	CAACAAAAAA	1411
BovB_Af-RTE-Antechinus_flavipe	GGTCAATGAA	T-AGATTTAA	GGGATTAGAT	CTGGCAGGTA	GAATATCTGG	GAAATAAGGA	CAGAGGTTTG	611
BovB_Ac-RTE-Anolis_carolinensi	AAATAGAAATC	C-CAGAAGAA	CTATGGACAG	AAGTCCACAA	CATTGTTCAG	GAGGCAGCAA	CAAAATACA	1253
BovB_BM-RTE-Bombyx_mori	CCAGTGAGTC	CGCCGAAGGG	CTGTGGCAG	CGGCTGAAAT	CATCTATTGC	ATCGGCCGTC	TCAGAAACA	1113
BovB_Dr-RTE-Christinus	TGAAAGAGCT	C-CAGATGAA	CTATGGGAA	GAGATAAAAT	TG--ATCAT	AATGGATACA	GCAGAAGGAT	1153
BovB_La-RTE-Loxodonta_africana	CGACCGAAGA	C-CAGACAAG	TTGTGGAAT	GACATCAAGG	ACATCATACA	TGAAGAAAGC	CAAGAGACCA	1285
BovB_Pc-RTE-Procavia_capensis	TGACCGAAGA	C-CAGATGAA	TTGTGGAAT	GACATCAAGG	ACATCATCCA	TGAAGAGAGC	-AAGAGGTC	1285
BovB_Et-RTE-Christinus	TGACAGAAAG	C-CTGATGAG	CTGTGGGGGA	GACATCAAGA	CCATCATTCA	AGAAGAAAGC	TAA-AGGTCA	1125
BovB-Ta-RTE-Tachyglossus_acule	AGACAAGGAA	C-CAGAGGAA	ATGTGGACG	GAGATTAATA	ATGTCATCAA	GGAAGAAAGT	GACACAGTAT	1423
BovB_Plat-RTE-Ornithorhynchus	AGACAAGGAA	C-CAGAGAA	ATGTGGACG	GAGATTAATA	ATGTCATCAA	GGAAGAAAGC	GACACGGTAT	1412
BovB_Ec-RTE-Equus_caballus	TGACCAAGAA	C-CAGAAGAA	CTATGGACT	GAAACCAGAA	ATATTATTA	GGAAGAAATG	GAAAAGACAA	1182
BovB_Cg-RTE-Christinus	TGAAAAAGAA	C-TGGAAGAA	CTATGGTTT	AAAACCAGAA	AAATTATTA	AGAACAATGC	ACTAAA-AA	770
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	GGGT CATGTC	NTCGGTTGAG	GCCGAGGGCG	AGGGGAAGTA	GGGGTAAGTG	GGTTACGGGT	TCTCNTAAGN	909
Sly-rnd6_family1960-LINE/RTEBo	GATT--TGCA	GCNCGNACGG	GGCGGGGGCG	AGGGTGTTAA	GAGG-----G	TACCAAGGGA	GATCCTAGGT	88
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Consensus	-----	-----	-----	-----	-----	-----	-----	-----
Conservation	0%	100%	0%	100%	0%	100%	0%	100%

	2,120	2,140	2,160				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	--TCCCAAAG	AAACAGAAAC	ACAAGAAAGC	AAA-GTGGCT	GTCTGAGGAG	GACTTACAAA	TAGCAGAGGA 1497
BovB_Gv-RTE-Gehyra_variegata	--TCCCAAAG	AAACAGAAAC	ACAAGAAAGC	AAAAGTGGCT	GTCTGAGGAG	GCTTTACAAA	TAGCAGAGGA 1423
BovB_PMo-RTE-Python_molurus	--TCCCAAAG	AAAAAGAAAT	GCAAGAAAGC	AAA-ATGGCT	GTCTGATGAG	GCTTTACAAA	TAGCTGTGGA 1363
BovB_Oa-RTE-Ovis_aries	--TCCCAAAG	AAAAAGAAAT	GCAAGAAAGC	AAA-ATGGTT	GTCTGAGGAG	GCCTTACAAA	TAGCTGAGAA 1387
BovB-RTE-Bos_taurus	--TCCCCATG	GAAAAGAAAT	GCAAGAAAGC	AAA-ATGGCT	GTCTGGGGAG	GCCTTACAAA	TAGCTGTGAA 1985
BovB_Me-RTE-Macropus_eugenii	--AACAAACC	CCAAAAAGAT	TCCAAGAAAG	AAG-AAGAGC	AAG-AATGAG	GCCTTACAAA	TAGCTGAGGA 1237
BovB_Ano-RTE-Amphibolurus_norr	--TCCCAAAG	AAAAAGAAAG	GCAAGAAAGC	AAA-GTGGCT	GTCCAATGAG	GCCTTACAAA	TAGCAGAGAA 1434
BovB_Gd-RTE-Eremiascincus_doug	--TCCCAAAG	AGAAAGAAAT	GCAAGAAAGC	AAA-GTGGCT	GTCTGACGAG	GCTTTACAAA	TAGCTGAGGA 1021
BovB_Er-RTE-Eremiascincus_rich	--TCCCAAAG	AGAAAGAAAT	GCAAGAAAGC	AAA-GTGGCT	GTCTGATGAG	GCTTTACAAA	TAGCTGAGGA 1557
BovB_Ca-RTE-Ctenotus_atlas	--TCCCAAAG	AGAAAGAAAT	GCAAGAAAGC	AAA-GTGGCT	ATCTGAGGAG	GCTTTACAAA	TAGCTGAGGA 1550
BovB_Es-RTE-Egernia_stokesii	AAATCCCTAAG	GAAAAGAAAT	GCAAGAAAGC	AAA-ATGGCT	GTCTGAAGAA	GCTGTAGGAA	TTGCTGAGGA 1386
BovB_Tr-RTE-Tiliqua_rugosa	--TCCCTAAG	GAGAAGAAAT	GCAAGAAAGC	AAA-ATGGCT	GTCTGAAGAA	GCTTTACAAA	TTGCTGAGGA 1395
BovB_ALi-RTE-Amblyomma_limbatu	--ACCAAAC	AAAAAATAAT	GCAAGAAAGC	AAA-ATGGCT	GTCTGAGAAA	GCTTTACAAA	TAGCTGAGGA 1520
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	--CCCAAAG	AAAAAGAAAT	GCAAGAAAGC	AAA-ATGGCT	GTCTGAGGAA	GCTTTGCAAA	TAGCTGACGA 1355
BovB_ACo-RTE-Agkistrodon_conto	--CCCAAAG	AAAAAGAAAT	GCAAGAAAGC	AAA-ATGGCT	GTCTGAGGAA	GCTTTGCAAA	TAGCTGAGGA 1355
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	-----	-----AGAAGA	GCAAGAAAGC	AAAATGATGA	TTGTTTTA--	GCTTTGCAAA	TAGTGGAGGA 54
BovB_Pb-RTE-Petaurus_breviceps	CATCTCCAAA	TCTGAGATTA	CTGATCTTT	TCTGGCAAC	CTTAATTACT	GGGTTAAAC	TGAGGAAAGA 124
BovB_Ma-RTE-Macropus_antilopin	CATTCCAAA	AAAAAGAAAT	GCAAGAAAGC	AAAATGGCTG	TCTGAAGAG-	GCTTTACAAA	TAGCTGAAGA 1480
BovB_Af-RTE-Antechinus_flavipe	CAATATTGTA	CAGGAGGCAA	CAACAAAAA	AACATTTCAA	AGAAAAAAA	AGCAAGAAAG	CAATAGCTGA 681
BovB_Ac-RTE-Anolis_carolinensi	--TCCCAAAG	AAAAAGAAAT	CCAAGAAAGC	AAG-ATGGTT	GTCTGCTGAG	ACACTGGAAG	TAGCCCAAGA 1320
BovB_BM-RTE-Bombyx_mori	GTGCCTAAAC	AAGCAAAACA	--AAAAAGAT	CTATGTGGAT	TTCAAACGAT	ACATGGGAAT	TGATTTGAACG 1181
BovB_Dr-RTE-Christinus	GCATCCCCTA	TAGGAAATCA	GCAAGAAAGC	CACCATGGCT	CTCAGACTCA	TGATTTGAAA	TAGCCAAATA 1223
BovB_La-RTE-Loxodonta_africana	TTAAAAAGAC	AGGAAAGAAA	--GAAAAGAC	CAAAATGGAT	GTCAAGAGAG	ACTCTGAAAC	TTGCTCTTGA 1353
BovB_Pc-RTE-Procavia_capensis	TTAAAAAGAC	AGGAAAGAAA	--GAAAAGAC	CAAAATGGAT	GTCAAGAGAG	ACTCTGAAAC	TTGCTCTTGA 1353
BovB_Et-RTE-Christinus	TTAAAA-GAC	AGGAAAGAAA	--GAAAAGGT	CAAAGCAGAT	GTCAAGAAAG	ACTTGGAG--	TTGCTCTTAA 1190
BovB-Ta-RTE-Tachyglossus_acule	TGCAAAAGGT	CAGGAAGCA-	--GAAAAGAC	CAAAATGGAT	GTCAAACATA	ACTCTGGAAG	TAGCCAAAAA 1490
BovB_Plat-RTE-Ornithorhynchus	TGCAAAAGGT	CAGGAAGAA-	--GAAAAGAC	CAAAATGGAT	GTCAAGACATA	ACTCTGGAAG	TAGCCAGAAA 1479
BovB_Ec-RTE-Equus_caballus	TGCCTGAAGT	AAAAAGAAAT	--GAAAAAT	CAAGATGGAT	GACAGAAAG	ACACTAAAAA	TTGTTAAGGA 1249
BovB_Cg-RTE-Christinus	TTCTGTAGT	AAAAATAAAA	--GAAAAAA	CAAGATGGAT	GTCTGATGAA	ACTATTAATA	TTGTTAAGGA 837
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	TGAGGGTAGG	GTCTNTGAAAC	ATAGGTTTCGT	TGACGGGGAA	GTCCATAGAG	CTAGTGAAGA	TTCTCAAGAA 979
Sly-rnd6_family1960-LINE/RTEBo	TGAGAGTTGG	GTCTTGAAAC	ATAGGNGCGT	TGACGAGGAA	GTCCATAGAG	TTAGTGAAGA	TTCTTATGAA 158
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----
Consensus	-----A-----	-----A-AA---	-A-----GG--	-T-----	-----T-AA-	T-----A	



	2,180	2,200	2,220	2,240				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----				
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----				
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----				
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----				
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----				
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----				
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----				
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----				
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----				
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----				
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----				
BovB_GI-RTE-Gehyra_lazelli	AAGAAAAAAA	GCAAAA--GG	CAAAGGTGAA	AAGGAAAGAT	TTAC--ACAA	CTGAATG-CA	GATTCCAGA	1562
BovB_Gv-RTE-Gehyra_variegata	AAGAAGGAAA	GCAAAA--GG	CAAAGGTGAA	AAGGAAAGAT	TTAC--CCAA	CTGAATG-CA	GATTCCAGA	1489
BovB_PMo-RTE-Python_molurus	AAGAAGGAAT	GCGAAA--AG	CAAGGGTGAA	AGGGAAAGAT	ATAA--GCAA	CTGAATG-CA	GATTCCAGA	1428
BovB_Oa-RTE-Ovis_aries	AAGAAGAGAA	GCGAAA--GG	CAAAGGAGAA	AAGGAAAGAT	ATAC--CCAT	CTGAATG-CA	GAGTTCCAAA	1452
BovB-RTE-Bos_taurus	AAGAAGAGAA	GCGAAA--AG	CAAAGGAGAA	AAGGAAAGAT	ATAA--ACAT	CTGAATG-CA	GAGTTCCAAA	2050
BovB_Me-RTE-Macropus_eugenii	AAGAAGGAAA	GGGAAA--GG	GAAAGGAGAA	AGGGAACAAT	ATAC--CTAA	CTGAATG-CA	GAATTCCAGA	1302
BovB_Ano-RTE-Amphibolurus_norr	GAGAAGGGAA	GCAAAA--TG	CAAGGGAGAT	AGGGAAAGTT	ACAG--AAAA	TTGAATG-CA	GACTTCCAAA	1499
BovB_Gd-RTE-Eremiascincus_doug	AAGAAGGGAA	GCCAAA--AG	CAAGGGAGAA	AGGGAAAGAT	ATAG--CCAA	CTGAATG-CA	GATTTCAGAA	1086
BovB_Er-RTE-Eremiascincus_rich	AAGAAGGGAA	GCCAAA--AG	CAAGGGAGAA	AGGGAAAGAT	ATAG--CCAA	CTGAATG-CA	GATTTCAGAA	1622
BovB_Ca-RTE-Ctenotus_atlas	AAGAAGGGAA	GCCAAA--AG	CAAGGGAGAA	AGGGAAAGAT	ATAG--CCAA	CTGAATG-CA	GATTTCAGAA	1615
BovB_Es-RTE-Egernia_stokesii	AAGAAGGAAA	GCAAAA--GG	CAAGGGAGAA	AGGGAAAGAT	ATATACCCAA	CTGAATG-CA	GATTTCAGAA	1453
BovB_Tr-RTE-Tiliqua_rugosa	AAGAAGGAAA	GCAAAA--GG	CAAGGGAGAA	AGGGAAAGAT	ATAT--CCAA	CTGAATG-CA	GATTTCAGAA	1460
BovB_ALi-RTE-Amblyomma_limbatu	AAAAAAGTAA	GCAAAA--GG	CAAGGAAGAA	AAAGAAAGAT	ACTAAACAAT	TAGATGACA	GAATTCCACA	1589
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	AAGGAGGGAA	GCGAAA--GG	CAAGGGAGAA	AAAGAAATTT	AC--GCCCAA	TTGAATG-CA	GAATTCCAGA	1420
BovB_ACo-RTE-Agkistrodon_conto	AAGAAGGGAA	GCGAAA--GG	CAAAGGAGAA	AGAGAAAGAT	AC--ACCCAA	TTGAATG-CA	GAATTCCAGA	1420
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----	-----
BovB_Bp-RTE-Burramys_parvulus	AAGAAGTAA	ATGAAAGGGA	AAGGAGAAAG	GGAAAAATAT	GCCAGACCAA	CTGAATG-CA	AAATTCCAAA	123
BovB_Pb-RTE-Petaurus_breviceps	AGGAAAAGAC	A-AAAGGGAA	AAAAATAAAA	GGAAAGATAT	AC--CCAA	GTGAATG-CA	GAATTCTAGA	188
BovB_Ma-RTE-Macropus_antilopin	AACAAGGAAA	AGAAAAGGTA	AAAGAGAAAA	GGAAAGATAA	AC--CCAA	CTGAATG-CA	GAATTCCAGA	1545
BovB_Af-RTE-Antechinus_flavipe	AGTAACAATA	GCTGAAGAAA	AAAAGGAGAA	AGGGAAAGTT	AT--ATCTAA	CTGAATG-CA	GAATTCTAAA	748
BovB_Ac-RTE-Anolis_carolinensi	AAGAAGAAA	ACGAAAAGGAA	ACAGCAATGG	GGAGGGGGAG	ATATGCACAA	TTAAATG-CA	CAATACCAGA	1389
BovB_BM-RTE-Bombyx_mori	CAGAAAAGAAC	TTGCAAG-GA	T-CAGATAAA	ATTGAAAAC	ACAA--TGCA	CTCAGTA-AA	GACATAAAAC	1246
BovB_Dr-RTE-Christinus	GAGACGGAAC	AGCCAAA-GC	CACTGGCAAG	AGTTTTGAAT	TCAG--ATCT	CTAAATG-CA	GAATTTCAAC	1289
BovB_La-RTE-Loxodonta_africana	ACG-TCGAGC	AGCTAAA-GC	AAAAGGAAGA	AATGATGAAG	TAAA--AGAA	CTGAACA-GA	AGATTTCAA	1418
BovB_Pc-RTE-Procavia_capensis	ATG-TCGAGC	AGCTAAA-GC	AAAAGGAAGG	AATGGCGAAG	TAAA--AGAC	CTAAACA-GA	AGATTTCAA	1418
BovB_Et-RTE-Christinus	TTG-TAGAGT	TGCTAAA-GC	AAATGGAAGA	AACAATGAAG	TCAA--GGAG	CTGAACA-GA	ACATTTCAA	1255
BovB-Ta-RTE-Tachyglossus_acule	AAG-GAAGGA	AGCAAAA-AT	CAGAGGACAA	AAGAACCTGG	TTAA--AGAA	CTGAGCC-GA	GAATTCAGC	1555
BovB_Plat-RTE-Ornithorhynchus	AAG-GAAGGA	AGCAAAA-AT	CAGAGGACAA	AAGAACCTGG	TTAA--AGAA	CTGAGCC-GA	GAATTCAGC	1544
BovB_Ec-RTE-Equus_caballus	CAGGTAAGAA	GCAAAAAG-TA	AAA-GGTGAC	AAAAGCAGGG	TTAG--AATC	CTGAATG-CA	GTTTTTCAGC	1314
BovB_Cg-RTE-Christinus	TAGACAAGAA	GCAAAAAG-TA	AAAAGGTGAC	AAAAACAGG	----AAAT	CTAAATG-AA	GTATTTTCAGC	898
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	GAGGAAGATA	AATATAGCTT	GTGTCAGGGA	GACCAGATGG	GTAGGTACCA	AGGCTCGGGA	TGTNGA-CGG	1048
Sly-rnd6_family1960-LINE/RTEBo	GAGGAAGATC	AATATAGCTT	GTGTCAGGGA	AACCAAATGG	GTAGGAACCA	AGGCCAGGGA	TGTGGAATGG	228
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Consensus	--G-----	----AA----	-----G--A-	A--A-----	-----A-	-TGAA----	A---TT--A--	



	2,260	2,280	2,300		
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	
BovB_GI-RTE-Gehyra_lazelli	GAACAGCAAG AAGAGATAAG GAGGCCATT-- CATGAACGAA CAGTG---CA AAGTAACAGA GGAAAAACAAT 1627				
BovB_Gv-RTE-Gehyra_variegata	GAACAGCAAG AAGAGATAAG GAGGCCATT-- CATGAACGAA GAGTG---CA AAGTAATAGA GGAAAAACAAT 1554				
BovB_PMo-RTE-Python_molurus	GAATAGCAAG GAGAGATAAG AAGGCCCTT-- CTTAAATGAA CAATG---CA AAGAAATCGA GGAAAAACAAT 1493				
BovB_Oa-RTE-Ovis_aries	GAATAGCAAG GAGAGATAAG AAAGCCCTT-- CCTCAGTGAA CAATG---CA AAGAAATAGA GGAAAAACAAT 1517				
BovB-RTE-Bos_taurus	GAATAGCAAG AAGAGATAAG AAAGCCCTT-- CTTACGCGAT CAATG---CA AAGAAATAGA GGAAAAACAAC 2115				
BovB_Me-RTE-Macropus_eugenii	GAATAGCAGG AAGAGATAAG AACATTTT-- CTTAAATAA CAATG---CG ATGAAATAGA AGAAAAACAAT 1367				
BovB_Ano-RTE-Amphibolurus_norr	GAATAGCAAG GAGAGACAAG AGGGCCCTT-- CTTAAATGAA CAATG---CA AAGAAATAGA GGAAAAATAAC 1564				
BovB_Gd-RTE-Eremiascincus_doug	GAACAGCAAG GAGAGATAGG AAGGCCCTT-- CCTAAATGAG CAATG---CA AAGAAATAGA GGAAAAACAAT 1151				
BovB_Er-RTE-Eremiascincus_rich	GAACAGCAAG GAGAGATAGG AAGGCCCTT-- CTTAAATGAG CAATG---CA AAGAAATAGA GGAAAAACAAT 1687				
BovB_Ca-RTE-Ctenotus_atlas	GAACAGCAAG GAGAGATAGG AAGGCCCTT-- CTTAAATGAG CAATG---CA AAGAAATAGA GGAAAAACAAT 1680				
BovB_Es-RTE-Egernia_stokesii	GAATAGCAGG GAGAGATAGG AATGCCCTT-- CTTAAATGAG CAATG---CA GAGAAATAGA GGCAAAACAAT 1518				
BovB_Tr-RTE-Tiliqua_rugosa	GAATAGCAAG GAGAGATAGG AATGCCCTT-- CTTAAATGAG CAATG---CA GAGAAATAGA GGAAAAACAAT 1525				
BovB_ALI-RTE-Amblyomma_limbatu	GAACAGCTAG AAGAGATAAG AATGTATTTA CTTAAATGAA CAGTAA--CA AAGAAATAG AAGAAATAT 1657				
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	
BovB_VA-RTE-Vipera_ammodytes	CAATAGCTAG AAGAGATAAG AATGCCCTT-- CTTAAATGAA CAGTG---CA AAGAAATAGA AGAAAAACAAT 1485				
BovB_ACo-RTE-Agkistrodon_conto	GAATAGCTAG AAGAGATAAG AATGCCCTT-- CTTAAATGAA CAGTG---CA AAGAAATAGA AGAAAAACAAT 1485				
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	
BovB_lo-RTE-Isodon_obesulus	AAGGAGAAGA TTAAAAAAAAA AAAGATTT-- CTTAAATGAG CAGTAGAGAA AAA-AATAGA AGAAAAACAAT 111				
BovB_Bp-RTE-Burramys_parvulus	GAATAGAAAG GAGAGATAAA GAGGTTTT-- CTTAAATGAG CAATGC--AA AGA-AATAGA AGAAAAACAAG 188				
BovB_Pb-RTE-Petaurus_breviceps	GAATAGCAAG GAAAGATAA - -GTTTT-- CTTAAATAAG CAATGC--AA AGA-AATAGG AGAAAAATAA 249				
BovB_Ma-RTE-Macropus_antilopin	GAATAGCAAG GAAAGATAAG AAAGTTTT-- CTTAAATGAG CAATGC--AA AGA-AATAGA AGAAAAACA- 1609				
BovB_Af-RTE-Antechinus_flavipe	TAATAACAAA AAGAAATAA - -GGTTAT-- CCTACATGAG CAATGCAAAG AAATAGGAGG GAAAAACCAA 813				
BovB_Ac-RTE-Anolis_carolinensis	AGTTAGCCAG AAGAGACAAG GAACTATT-- TTTAAACAAG CAATG---CA TGGAACTGGA AGAAGACAAC 1454				
BovB_BM-RTE-Bombyx_mori	AACGCTGCCG ACGTGACAAG AATATTTT-- CATTGAAAA ATTFTA--TA AAGGAATTGA GTCGCACTCC 1311				
BovB_Dr-RTE-Christinus	GGGAAGCAAG GCGGACAAG GAGCGCTA-- CTGGGATGAG CGGTG---TT CAAAACCTGGA AGCTGCTAGC 1354				
BovB_La-RTE-Loxodonta_africana	GGGCAGCTCG AGAAGACAAA GTAAAGTA-- TTATAATGAC ATGTA---CA AAGACCTGGA GATAGAAAAC 1483				
BovB_Pc-RTE-Procavia_capensis	GAGCAGCTCG AGAAGACAAA AGAAAGTA-- TTATAATGAC ATGTG---CA AAGAGCTGGA AATGGAAAAAC 1483				
BovB_Et-RTE-Christinus	----- AGGCAAA GCCAAATA-- TTATAACGAA ATGTT---CA CAGACTAGA ATTAGA--- 1303				
BovB_Ta-RTE-Tachyglossus_acule	GCTCTGCCAG GAAGGACAAA CAGGAATA-- TTATAACAGC ATATG---TA AAGAAATGGA AGTCAATAAC 1620				
BovB_Plat-RTE-Ornithorhynchus	GCTCTGCCAG GAAGGACAAA CAGGAATA-- TTATAACAGC ATATG---TA AAGAAATGGA AGTCAATAAC 1609				
BovB_Ec-RTE-Equus_caballus	GACTGTCCAG TAGAGATAAA GAGAACTA-- CTATAATGGC CAATG---CA AAGAGATAGA AGAAAAACAAC 1379				
BovB_Cg-RTE-Christinus	CACTGGCATG TAGAGACAAA GAGAAATA-- ATATAAAAC CATTG---AA AAGAAATAGA AGAGAAACAAC 963				
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	
Stu-rnd-5_family-3162_LINE_RTE	GTTTAAGTTG TGGTACTCAG GAGGNTCGAG GGATAGAAAT GGAGTGGGT TA TTTAGTAGA CGGGGATTTG 1118				
Sly-rnd6_family1960-LINE/RTEBo	ATTTAAGTTG TGGTACTCAG GAGGATCGAG GAATAGGAAT GGAGTAGGCA TTTAGTAGA CGGGGAACCT 298				
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	
Consensus	-----G - - - AGA - AA - - - - - T - - - - - AA - - A - - - TG - - - A - - - - A - T - GA - G - AAA - AA -				



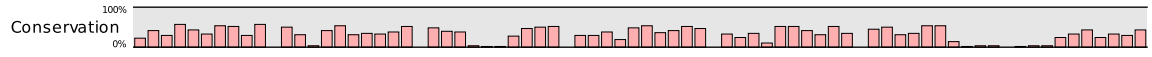
	2,320	2,340	2,360	2,380				
Stu-rnd-1_family417_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----			
Stu-rnd-1_family489_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family607_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family645_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----			
Stu-rnd-6_family408_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family351_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family382_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----			
Stu-rnd-5_family325_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----			
Stu-rnd-1_family513_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----			
BovB_GI-RTE-Gehyra_lazelli	AGAA - TGGGA	AGGACTAGAG	AC-CTCTTCA	AGAAAAATCG	GAGAAATCAA	GGGAACGTTT	CAGGGCAA -G	1694
BovB_Gv-RTE-Gehyra_variegata	AGAAATGGGA	AGGACTAGAG	AC-CTTTTCA	AGAAAA - TCG	GAGAAATCAA	GGGAACGTTT	CAGG - CAA -G	1620
BovB_PMo-RTE-Python_molurus	AGAA - TGGGG	AAGACTAGAG	AT-CTCTTCA	AGAAAA - TTG	GAGATATCAA	AGGAACGTTT	- AGTGCAA -A	1558
BovB_Oa-RTE-Ovis_aries	AGAA - TGGGA	AAGACTAGAG	AT-CTCTTCA	AGAAAAATTAG	A - GATACCAA	GGGAACATTT	CATGCAAA -G	1583
BovB-RTE-Bos_taurus	AGAA - TGGGA	AAGACTAGAG	AT-CTCTTCA	AGAAAAATCAG	A - GATACCAA	GGGAACATTT	CATGCAAA -G	2181
BovB_Me-RTE-Macropus_eugenii	AGAA - TGGGA	AAGATAAGAG	AT-CTCTTCA	AGAAAAATTAG	A - GATA - - - A	AGATATTTTT	CATGCAAA -A	1430
BovB_Ano-RTE-Amphibolurus_norr	AGAA - AAGGA	AAAACCAGAG	AT-CTGTACA	GGAAAAATTGG	A - GATATTA	AGGAACATTT	TGCGCAAA -G	1630
BovB_Gd-RTE-Eremiascincus_doug	AGAA - TGGGA	AAGACTAGAG	AT-CTTTTCA	AGAAAAATAG	AAGATGTCAA	AGGACAATTT	CATGCTAA -G	1218
BovB_Er-RTE-Eremiascincus_rich	AGAA - TGGGA	AAGACTAGAG	AT-CTTTTCA	AGAAAAATTGG	A - GATGTCAA	AGGACAATTT	CATGCTAA -G	1753
BovB_Ca-RTE-Ctenotus_atlas	AGAA - TGGGA	AAGACTAGAG	AT-CTTTTCA	AGAAAAATTGG	A - GATGTCAA	AGGACAATTT	CGTGCTAG -G	1746
BovB_Es-RTE-Egernia_stokesii	AGAA - GGGGG	AAGACTAGAG	AT-CTCTTCA	AGAAAAATTGG	A - GATATCAC	AGGAACATTT	CATGTAAA -G	1584
BovB_Tr-RTE-Tiliqua_rugosa	AGAA - GGGGA	AAGACTAGAA	AT-CTCTTCA	AGAAAAATTGG	A - GATATCAC	AGGAACATTT	CATGCAAA -G	1591
BovB_ALI-RTE-Amblyomma_limbatu	AGAA - TAGGG	AGGACCAGAG	ATACTCTTCA	AGAAAAATTGG	A - GATATGAA	GGGAACATTT	CATGCAAA -G	1724
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	AGAA - TAGGG	AGGACCAGAG	AT-CTTTTCA	AGAAAAATTGG	A - GAGATGAA	GGGAACGTTT	CATGCAAA -A	1551
BovB_ACo-RTE-Agkistrodon_conto	AGAA - TAGGG	AGGACCAGAG	AT-CTCTTCA	AGAAAAATTGG	A - GATATGAA	GGGAACGTTT	CATGCAAA -G	1551
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	AGAATGAGGA	CAAGCAAGCT	ACTTCAAAAA	AAAAAAATTA	GAGATAGCAA	AGGAAACTTT	CATGCAAA -A	180
BovB_Bp-RTE-Burramys_parvulus	TAGAATTGGA	AAAATGAGA	- TCTCTTCAA	GAAAAAAGA	GATATCA - - -	- - GAATATTT	CATGCAAA -A	250
BovB_Pb-RTE-Petaurus_breviceps	TAGAATGGGA	AAGACAAGAA	ATCTCTTCAA	GAAAAATTAGA	GATATCACAG	GGGAACATTT	TATGCAAA -A	318
BovB_Ma-RTE-Macropus_antilopin	TAGAATGGGA	AAGAAAAGA	- TCTCTTCAA	GAAAAATTAGA	GATATCA - - A	GGGAATGTTT	CACGCAAA -A	1674
BovB_Af-RTE-Antechinus_flavipe	CATAATGGGA	AAGACAAGAG	ATCTTAGCAA	GAAAAATTAGA	AAGATTAT - -	GAAAAATGTTG	CATGCTGA -A	880
BovB_Ac-RTE-Anolis_carolinensi	AGAA - TAGGA	AGGACAAGAG	AC-CTTTTCC	AGAAAAATCAG	A - AACATCGG	AGGCAAAATTT	CAGGCAAA -A	1520
BovB_BM-RTE-Bombyx_mori	CTAAAGTT - A	CAATCTCT - CT	GATTTATTTA	AGAAAGTTCC	T - CTGCTGTC	GAAAAAATAC	AAAGCA - - -A	1375
BovB_Dr-RTE-Christinus	AAGAAAGG - C	CACACCC - GT	GAGCTTTTTG	ACCATGTGAA	G - CAGGGGCG	GGCATCATTT	GCGCCCGCA	1421
BovB_La-RTE-Loxodonta_africana	CAAAAGAA - A	AGAACAC - GC	TCAGCATTTT	TCAAGCTGAA	A - GAACTGAA	AAAAAAATTC	AAGCCTC - - -	1547
BovB_Pc-RTE-Procavia_capensis	CAGAAGGG - A	AGAACAC - GT	TCTGCATTTT	TCAAGCTGAA	A - GAACTGAA	AAAAAAATTC	AAGCCTC - - -	1547
BovB_Et-RTE-Christinus	- - - - GGG - A	AGAACGT - AC	- CAGCATACC	TGAAACGGAA	A - GACCCAG	GAAAAAATTC	AAGCCTC - - -	1361
BovB_Ta-RTE-Tachyglossus_acule	AAATGTGG - G	CGGACAA - GA	TCACTATTTT	AGAAGATTAA	G - GAAATTA	GGGAACATTT	CGTCCTT - - -	1684
BovB_Plat-RTE-Ornithorhynchus	AAATGTGG - G	CGGACAA - GA	TCACTATTTT	AGAAGATTAA	G - GAAATTA	GGGAACATTT	CGTCCTC - - -	1673
BovB_Ec-RTE-Equus_caballus	AAAAAAGG - A	AGAACAA - GA	GGTCTTTCC	AGAAGATTCA	A - GAAATCAA	AGGCAAAATTT	AAACCTA - - -	1443
BovB_Cg-RTE-Christinus	AAAAAATGTA	AGAACAACAA	AATTGATTAC	ACAAAAATCA	A - GAAATCAT	AATGAAATTT	AAACCAT - - -	1029
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----	-----
BovB_MI-RTE-Gehyra_variegata	ATCATTTAGT	TTGATTATAT	ACTTTGCAGT	CAAAAAATAGA	AAAGCACTGT	AAAGTCAGTT	AAAACCTAG - -	97
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family3162_LINE_RTE	AGGGAGCGAG	TGGTGGAGGT	TAGGAGGATC	AATGATAGGN	TGATGACGAT	TAAGCTAGTC	ATTGGTAGGA	1188
Sly-rnd6_family1960-LINE/RTEBo	AGGGAGCAAG	CGGTAGAGGT	TAGGAGGGTN	AATGATAGGA	TGATGATNAT	TAAGCTAGTC	GTTGG - AGGG	367
Stu-rnd-5_family2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Consensus	- - - A - - - G - - -	A - - AC - A - - -	- - - - - T - - -	- - AAA - - - -	- - - A - - - - -	- - - AA - - TT -	- A - - C - - - -	
Conservation								

	2,400	2,420	2,440					
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	GCTGG-CCAC	AATAAA-GGA	CAAAAATGG-	CAGGGACCTA	ACAG--AAGC	AGAAGAGATC	AGGAAAAGAT	1759
BovB_Gv-RTE-Gehyra_variegata	GCTGGGCCAC	AATAAAAGGA	CAAAAATGGA	CAGGGACCTA	ACAGT-AAGC	AGAAGAGATC	AGGAAAAGAT	1689
BovB_PMo-RTE-Python_molurus	GATGG-GCAT	GATAAA-GGA	CAAAAAAGG-	CAGGGACCTA	ACAG--AAGC	AGAAGAGATT	AAGAAGAGGT	1623
BovB_Oa-RTE-Ovis_aries	A-TGG-GCAC	AATAAA-GGA	CAGAAATGG-	TATGGACCTA	ACAG--AAGC	AGAAGAGATT	AAGAAGAGGT	1647
BovB-RTE-Bos_taurus	A-TGG-GCTC	GATAAA-GGA	CAGAAATGG-	TATGGACCTA	ACAG--AAGC	AGAAGATATT	AAGAAGAGAT	2245
BovB_Me-RTE-Macropus_eugenii	AATGA-GCAT	GGTAAA--A	CAAAAATGG-	TAGGGACTTA	ACAG--AAG-	-----	-----	1472
BovB_Ano-RTE-Amphibolurus_norr	A-TGG-ACAT	GATAAA-GGA	CAAAAATGG-	GAGGGACCTA	ACAG--AAGC	AGAAGACGTC	AAGAAGAGGT	1694
BovB_Gd-RTE-Eremiascincus_doug	G-TGG-GCAC	AATAAA-GGA	CAAGAACGG-	CAAGGACCTA	ACAG--AAGC	AGATGAGATT	AAGAAGAGGT	1282
BovB_Er-RTE-Eremiascincus_rich	G-TGG-GCAC	AATAAA-GGA	CAAGAACGG-	CAAGGACCTA	ACAG--AAGC	AGATGAGATT	AAGAAGAGGT	1817
BovB_Ca-RTE-Ctenotus_atlas	G-TAG-GCAC	AATAAA-GGA	CAAGAACGG-	CAAGGACCTA	ACAG--AAGC	AGATGAGATT	AAGAAGAGGT	1810
BovB_Es-RTE-Egernia_stokesii	A-TGG-GCAT	GATAAA-GAA	CAAGAATGG-	TAGGGACCTA	ATGG--AAGC	AGACAAAATT	AAGAAGAGCT	1648
BovB_Tr-RTE-Tiliqua_rugosa	A-TGG-GCAT	GATAAT-GGA	CAAGAATAG-	TAGGAACCTA	ACGG--AAG-	---AAGATT	AAGAAGAGAA	1650
BovB_ALI-RTE-Amblyomma_limbatu	ATGGG--CAT	AATAAA-GGA	CAAAAATGG-	CAGGGACCTA	ACAG--AGAC	AGAAGAGATC	AAGAAGAGGT	1788
BovB_Hs-RTE-Hydrophis_spiralis	-----	-----	-----	-----	-----	-----	-----	-----
BovB_VA-RTE-Vipera_ammodytes	ATGGG--CAT	GATAAA-GGA	CAAAAATGG-	CAGGGACCTA	ACAG--AGGC	AGAAGAGATT	AAGAAGAGGT	1615
BovB_ACo-RTE-Agkistrodon_conto	ATGGG--CAT	GATAAA-GGA	CAAAAATGG-	CAGGGACCTA	ACAG--AGGC	AGAAGAGATT	AAGAAGAGGT	1615
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isodon_obesulus	ATCGT--CAT	GATAAA-AGA	CAAAAATAGGG	TA-----	--GA--CAAC	AGAAGTGATT	AA-AATAGAT	234
BovB_Bp-RTE-Burramys_parvurus	ATGGG--CAT	GATAAA-AGA	CAAAACATGG	TAGGGAATTA	ACAG--AAGC	AAAAGAGATT	AAGAAGAGGT	315
BovB_Pb-RTE-Petaurus_breviceps	ATAGG--CAT	GATAAA-AGA	CAAA--AATGG	TATGGACCTA	ATAG--AAGC	AGAAGAGATT	AA--GAGGT	379
BovB_Ma-RTE-Macropus_antilopin	ATGGG--ATT	AAAAAA-AAA	AAAGATAGGA	AAT-----	-TAG--CAAC	AGAAGAGAAT	AAGAAGAGGT	1731
BovB_Af-RTE-Antechinus_flavipe	AGAGG--TAT	AATAAA-AGT	CAAA-AAGGA	CAAAGTCTTG	ACGG--AAGT	AGAAGAGATT	AAGATGAAGT	944
BovB_Ac-RTE-Anolis_carolinensi	AAGGG--CAT	GATCAA-AAA	CAAAGATGG-	CAAGAACCTA	ACAG--AAGC	TGAAGAGATC	AAGAAAAGGT	1584
BovB_BM-RTE-Bombyx_mori	AGACCTGGGT	TATCGG-CGA	CGAGGATGGC	GACTCCATCA	CTGA--CCTT	CAGCTGA-TC	ACAGAAAGAT	1441
BovB_Dr-RTE-Christinus	AAGCAGCAAA	TGTCAA-AGA	TCGGAATGGT	AAAGT-ACTA	CAGA--ATGA	AGACCAAATC	AAGAAGAGGT	1487
BovB_La-RTE-Loxodonta_africana	AAGTTGCAAT	ACTGAA-GGA	TTCCATGGGG	AAAATATTAA	ACGA--CGC	AGAAAAGCATC	AAAAGAAGAT	1613
BovB_Pc-RTE-Procavia_capensis	GAGTTGCAAT	AGTGAA-GGA	TTCTACAGGG	AAAATATTAA	ATGA--CTC	AGGGAGCATC	AAAAGAAGAT	1613
BovB_Et-RTE-Christinus	AAACTTCAAT	TCTGAA-AGA	TTCTATAGGC	AAAATATTGA	ATGA--TGC	AGGAAGCATC	AAGAAGAGAT	1427
BovB-Ta-RTE-Tachyglossus_acule	GGATTGGCTT	TGTCAA-AAG	CAAAGATGGA	CTGACGATAA	ATGA--TGC	CAGTGGAAATC	AAACAGAGAT	1750
BovB_Plat-RTE-Ornithorhynchus	GGATTGGCTT	TGTCAA-AAG	CAAAGATGGA	CTGACGATAA	ATGA--TGC	CAGTGGAAATC	AAACAGAGAT	1739
BovB_Ec-RTE-Equus_caballus	GATTAGGAAT	GCTGAA-CGA	CCAACAGGGA	AGCACACTAT	CTGA--TCA	GGAGAAAATA	AAGGGAAGGT	1509
BovB_Cg-RTE-Christinus	GTTTAGGAAT	GCTAGA-AGA	ACAACATGGA	AAATCATGAT	CTGA--TCA	AGAAAAAATT	AAGAAGAGAT	1095
BovB_Bh-RTE-Bothriocroton_hydr	-----	---AATGAGA	CAGAGTGGGA	AACGCGCCT	CTCATCCTGC	CCACTGACTC	CCTCTATGGT	57
BovB_MI-RTE-Gehyra_variegata	-ACCTAGAAC	TGAATACAGA	CTAGATTAT-	GAGTTTTTTA	TTAA---AAA	ATTTTGACTT	AAATTGAAGT	162
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	TGTACTTTGA	GTGTTATTAG	TGCTTATGCG	CCTCAAGTGG	GCNTGGACGA	GGAGGCCAAA	AAGCTTTTT	1258
Sly-rnd6_family1960-LINE/RTEBo	CTTACTTTGA	ACATNATTAG	TGCNTACGCG	CGCAAGCGG	GCTTGGACGA	GGAGGNCAAA	AAGCTNTTTT	437
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Consensus	-----A-	--T-AA--GA	C-A--A-GG-	-A-----A	A-----GC	-GA---AT-	AA---AG-T	
Conservation								



	2,540	2,560	2,580					
Stu-rnd-1_family-417_LINE_RTE	----	----	----	----	----	----	----	
Sly-rnd1_family377-LINE/RTEBov	----	----	----	----	----	----	----	
Stu-rnd-1_family-489_LINE_RTE	----	----	----	----	----	----	----	
Stu-rnd-1_family-607_LINE_RTE	----	----	----	----	----	----	----	
Stu-rnd-1_family-645_LINE_RTE	----	----	----	----	----	----	----	
Sly-rnd4_family81-LINE/RTEBovB	----	----	----	----	----	----	----	
Stu-rnd-6_family-408_LINE_RTE	----	----	----	----	----	----	----	
Stu-rnd-1_family-351_LINE_RTE	----	----	----	----	----	----	----	
Stu-rnd-1_family-382_LINE_RTE	----	----	----	----	----	----	----	
Sly-rnd6_family746-LINE/RTEBov	----	----	----	----	----	----	----	
Stu-rnd-5_family-325_LINE_RTE	----	----	----	----	----	----	----	
Sly-rnd4_family509-LINE/RTEBov	----	----	----	----	----	----	----	
Stu-rnd-1_family-513_LINE_RTE	----	----	----	----	----	----	----	
Sly-rnd5_family1442-LINE/RTEBo	----	----	----	----	----	----	----	
BovB_GI-RTE-Gehyra_lazelli	GGGAGATCA - CTGACCTCGA	GCCAGACATC	CTGGAGTGCG	AA - GTCAAAT	GG - - - GCCTT	AGAAAGCATT	1884	
BovB_Gv-RTE-Gehyra_variegata	GGGAGATCA - CTGACCTCGA	GCCAGACATC	CTGGAGTGCA	AA - GTCAAAT	GG - - - GCCTT	AGAAAGCATT	1814	
BovB_PMo-RTE-Python_molurus	GGTGTGTCA - CTGACCTTGA	GCCAGACATC	CTAGAGAGTG	AA - GTCAAAGT	GG - - - GCCTT	AGGAAGCATT	1746	
BovB_Oa-RTE-Ovis_aries	GTGTGATCA - CTCACCTAGA	GCCAGACATC	CTGGAGTGTG	AA - GTCAAAGT	GG - - - GCCTT	AGGAAGCATC	1772	
BovB-RTE-Bos_taurus	GTGTGATCA - CTGACCTAGA	GCCAGACATC	CTGGAATGTG	AA - GTCAAAGT	GG - - - GCCTT	AGAAAGCATC	2370	
BovB_Me-RTE-Macropus_eugenii	-----	- CATATATA	-----	-----	-----	-----	1517	
BovB_Ano-RTE-Amphibolurus_norr	ATGTAGTTG - CTGACCTTGA	GCCAGACATC	CTGGAGAGCG	AA - GTCAAAGT	GG - - - GCCTT	AGAAAGCCTG	1819	
BovB_Gd-RTE-Eremiascincus_doug	GTGCGGTCA - CTGAACTTGA	ACCTGACATC	CTGGAGTGTG	AA - GTCAAAGT	GG - - - GCCTT	AGAAAGCATC	1407	
BovB_Er-RTE-Eremiascincus_rich	GTGCGGTCA - CTGAACTTGA	ACCTGACATC	CTGGAGTGTG	AA - GTCAAAGT	GG - - - GCCTT	AGAAAGCATC	1942	
BovB_Ca-RTE-Ctenotus_atlas	GTGCGGTCA - CTGAGCTCGA	ACCTGACATC	CTGGAGTGTG	AA - GTCAAAGT	GG - - - GCCTT	AGAAAGCCTC	1935	
BovB_Es-RTE-Egernia_stokesii	GTGTGATCG - CTGAACTTGA	GCCAGACATC	CTGGAGTGTG	AA - GTCAAAGT	GG - - - GTCCT	AGGAAGCATC	1769	
BovB_Tr-RTE-Tiliqua_rugosa	GTGTGACTG - CTGAACTTGA	GCCAGACATC	CTGGAGTGTG	AA - GTCAAAGT	GG - - - GCCCT	AGAAAACATC	1775	
BovB_ALi-RTE-Amblyomma_limbatu	GAGAGGACA - CCGAACTAGA	GCCAGACATC	CTGGAATGTG	AA - GTCAAAT	GG - - - GCCTT	AGGAAGTTTG	1915	
BovB_Hs-RTE-Hydrophis_spiralis	AGGTGGTCA - CTGACCTCGA	GCCAGAGATC	CTGGAATGTA	AA - GTCAAAT	GG - - - GCCTT	AGGAAATCTG	155	
BovB_VA-RTE-Vipera_ammodytes	AGGTGGTCA - CTGACCTCGA	GCCAGACATC	CTAGAATGTG	AA - GTTAAAGT	GG - - - GCCTT	AGAAAAGCTG	1740	
BovB_ACo-RTE-Agkistrodon_conto	GGTGGTCA - CTGACCTCGA	GCCAGACATC	CTAGAATGTG	AA - GTGAAAT	GG - - - GCCTT	AGGAAATCTG	1740	
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-	
BovB_lo-RTE-Isodon_obesulus	GTATGGTTC - CTAGGCTACT	GACTTAGAGC	C - AGAATATG	AA - ATTAAGT	AA - - - GCATT	AGGAAGTACT	352	
BovB_Bp-RTE-Burramys_parvulus	GTGTGGTTA - CTGATCTAGA	GCCAGACATC	CTGGAGAATG	AA - GTCAAAGT	GG - - - GC - TT	AGGAAACATT	439	
BovB_Pb-RTE-Petaurus_breviceps	GTGTGGTTA - CTGATCTAGA	GCCAGACATC	CTGGAGAATG	AA - GTCAAAGT	GG - - - GCCTT	AGGAAGCATT	504	
BovB_Ma-RTE-Macropus_antilopin	GTGTGGTTA - CTGATCTAGA	GCCAGACATC	CTGGAGAATG	AA - GTCAAAGT	GG - - - GCCTT	AGGAAGCATT	1854	
BovB_Af-RTE-Antechinus_flavipe	AAATGCTTAA - CTGATTTAGA	ACTAAAAAT	CAGAAAAATG	AA - GTTAAAGT	GA - TGA - ACCTT	AGAAAGCATT	1074	
BovB_Ac-RTE-Anolis_carolinensi	GTGTGGTGA - GTGAAGTAGA	ACCAGACATC	CTGAGGAGTG	AG - GTTGAAC	GG - - - GCCTT	AAGAAGCATT	1709	
BovB_BM-RTE-Bombyx_mori	GGGCTGTGA - TAGTTCAAGA	ACCAATCCATA	TTGCATTCGG	AA - ATTAAGGC	GA - - - - CCTT	GAAAAAATA	1575	
BovB_Dr-RTE-Christinus	ACCCCAAAA - GCGAGCAGGA	ACCAGATATT	CTGGAGGAGG	AGGTAGCCTG	GG - - - CCTT	GAAAGAACTA	1615	
BovB_La-RTE-Loxodonta_africana	AGGTAGCAT - ATGATCAGGA	ACCGATGGTA	CTGAAGGAAG	AA - GTCCAAGC	TG - - - - CACT	GAAGGCATTG	1738	
BovB_Pc-RTE-Procavia_capensis	AGGTAGCAT - ATGATCAGGA	ACCAATGGTA	CTGAAGGAAG	AA - GTCCAAGC	TG - - - - CATT	GAAGGCATTG	1738	
BovB_Et-RTE-Christinus	AGGTGGCAT - ATGAGCAAGA	ATCAATGGTG	CTGAAGGA - G	AA - GTTCAAAC	TG - - - - CACT	GAATGC - TTA	1539	
BovB_Ta-RTE-Tachyglossus_acule	AAGCTCCTT - TTGAATTAGA	GCCACTCATC	ATGGAAGATG	AA - GTTAGATC	AG - - - - CTTT	ACACTGCCTC	1875	
BovB_Af-RTE-Antechinus_flavipe	AAATGCTTAA - CTGATTTAGA	ACTAAAAAT	CAGAAAAATG	AA - GTTAAAGT	GA - TGA - ACCTT	AGAAAGCATT	1074	
BovB_Plat-RTE-Ornithorhynchus	AAGTTCCTT - TTGAATTAGA	GCCACTCATC	ATGGAAGATG	AA - GTTAGATC	AG - - - - CTTT	ACACTGTCTC	1864	
BovB_Ec-RTE-Equus_caballus	AAGATTCCT - ATGAGGAAGA	ACCCATAATT	CTAGAAAAGT	AA - GTGAAAAGC	TG - - - - CCCT	GAAAAGTACTG	1634	
BovB_Cg-RTE-Christinus	----- CTCT	GTTAG - - - -	ACCCCAAA - - -	GAAAATG	AA - - - - AC	TC - - - - ATCA	GAATATACTG	1155
BovB_Bh-RTE-Bothriocroton_hydr	TTACGGTCTC - ATGGATCAGT	GCCTTGTTCG	GGCGAAGGTG	CTTTAGTAGC	TC - AATGAAGC	TATGAGTTAT	184	
BovB_MI-RTE-Gehyra_variegata	ATGAACAGA - TTAATTTAAA	GAGATGAAAT	CTAGCAGATA	AGGGT - - - -	- - - - - GCCTG	AAGAACTTTA	282	
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-	
Sly-rnd5_family2019-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-	
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-	
Sly-rnd5_family1698-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-	
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-	
Stu-rnd-5_family-3162_LINE_RTE	TGGCCACATC	GGGGCAACTT	CTAGTGGATT	TGACGATGTG	CATGGAGGCT	TT - GGTTTTG	GGGANAGAAA 1397	
Sly-rnd6_family1960-LINE/RTEBo	TGGCCACATC	GAGACCACTT	CAAG - GGNTN	CGATGATGTT	CATGGAGGCT	TT - CGGTTTCG	GGGAT - - GAA 574	
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-	
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-	
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-	
Consensus	-- G - - - - -	- TGA - C - - GA	- CCA - A - AT -	CT - GA - - - TG	AA - - T - - A - -	- G - - - - C - TT	A - - AA - - - T -	
Conservation								

	2,600	2,620	2,640	2,660				
Stu-rnd-1_family417_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----			
Stu-rnd-1_family489_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family607_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family645_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----			
Stu-rnd-6_family408_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family351_LINE_RTE	-----	-----	-----	-----	-----			
Stu-rnd-1_family382_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----			
Stu-rnd-5_family325_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----			
Stu-rnd-1_family513_LINE_RTE	-----	-----	-----	-----	-----			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----			
BovB_GI-RTE-Gehyra_lazelli	ACTAACAAACA	AA - GCTAGTG	GAG - - - ATGA	TGGGATCCCA	GCT - GAGCTT	TTCAAAA - - - -	- - - - GTCTTAA	1942
BovB_Gv-RTE-Gehyra_variegata	ACTAACAAACA	AA - GCTAGTG	GAG - - - ATGA	TGGGATCCCA	GCT - GAGCTT	TTCAAAA - - - -	- - - - GTCTTAA	1872
BovB_PMo-RTE-Python_molurus	GCTAACAAACA	AA - GCTAGTG	GAG - - - ATGA	CAGTATTCCA	GCT - GAGTTA	TTTAAAA - - - -	- - - - ATACTAA	1804
BovB_Oa-RTE-Ovis_aries	ACTATGAAACA	AA - GCTAGTG	GAG - - - GTGA	TGGAATTCCA	GCT - GAGCTA	TTTCAA - - - -	- - - - ATCCTAA	1830
BovB-RTE-Bos_taurus	ACTACGAACA	AA - GCTAGTG	GAG - - - GTGA	TGGAATTCCA	GTT - GAGCTA	TTCAA - - - -	- - - - ATCCTGA	2428
BovB_Me-RTE-Macropus_eugenii	- - TACAAACA	GT - ACAAG - -	- - - - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - - - A	1533
BovB_Ano-RTE-Amphibolurus_norr	GCTAACAAACA	AG - GCCAGTG	GAG - - - GTGA	TGGCATTCCA	GTT - GAACATA	TTTAAA - - - -	- - - - ATCTTGA	1877
BovB_Gd-RTE-Eremiascincus_doug	ACTAACAAACA	AA - GCGAGTG	GGG - - - GTGA	CAACATTCCA	GCT - GAGTTA	CTCAAA - - - -	- - - - ACCTTAA	1465
BovB_Er-RTE-Eremiascincus_rich	ACTAACAAACA	AA - GCGAGTG	GAG - - - GTGA	CAACATTCCA	GCT - GAGTTA	CTCAAA - - - -	- - - - ACCTTAA	2000
BovB_Ca-RTE-Ctenotus_atlas	ACTAACAAACA	AA - GCTAGTG	GAG - - - GTGA	CAGCATTCCA	GCA - GAATTA	CTCAAA - - - -	- - - - ATCTTAA	1993
BovB_Es-RTE-Egernia_stokesii	ACTAACAAAA	AA - ACCAGAG	GAG - - - GTGA	CAGTATTCCA	GCT - GAGCTC	CTGAAA - - - -	- - - - AGTTTAA	1827
BovB_Tr-RTE-Tiliqua_rugosa	ACTAACAAACA	AA - GCTAGCG	GAG - - - GCAA	CAGTATTCCA	GTT - GAGCTC	CTTAAA - - - -	- - - - ACCTTAA	1833
BovB_ALi-RTE-Amblyomma_limbatu	TCCAACAACA	AA - GCTAGTG	GAGACAGTGA	CAGTATTCCA	GCTCGAGCTA	TTCAAATCC	AAAATCCTGA	1984
BovB_Hs-RTE-Hydrophis_spiralis	AGCAACAACA	AA - GT - - - -	G - - - - - GTGA	CAGTATTCCA	GCT - GAGCTA	TTCAA - - - -	- - - - ATCTTAA	209
BovB_VA-RTE-Vipera_ammodytes	AGCAACAACA	AA - GCTAGTG	GAG - - - GTGG	CAATATTCCA	GCT - GAACATA	TTCAA - - - -	- - - - ATCTTAA	1798
BovB_ACo-RTE-Agkistrodon_conto	AGCAACAACA	AA - GCTAGTG	GAG - - - GTGA	CAGTATTCCA	GCT - GAGCTA	TTCAA - - - -	- - - - ATCTTAA	1798
BovB_Pg-RTE-Perameles_gunnii	-----	-----	-----	-----	-----	-----	-----	-----
BovB_lo-RTE-Isoodon_obesulus	GCTAACAAATA	AGAGCTAATG	AAA - - - CTGA	ATTAATTCCA	- ACTGAGCTA	TAAAAA - - - -	- - - - TCTCAA	411
BovB_Bp-RTE-Burramys_parvulus	GCTAACAAATA	AG - GCTAGTG	GAG - - - GTGA	TAGAATTCCA	- GCTGAGCTA	TTTAAAA - - - -	- - - - TCCTAA	497
BovB_Pb-RTE-Petaurus_breviceps	GCTAACAAATA	AG - GCTAGTG	GAG - - - GTGA	TGGAATTCCA	AGCTGAGCTA	TTTAAAA - - - -	- - - - TCCTAA	563
BovB_Ma-RTE-Macropus_antilopin	GCTAACAAATA	AG - GCTAGTG	GAG - - - GTGA	TGGAATTCCA	- GCTGAGCTA	TTTAAAA - - - -	- - - - TCCTAA	1912
BovB_Af-RTE-Antechinus_flavipe	CCTAATAATA	AA - ATTAGTG	GAG - - - GTGA	TAAAATTCCA	- GCTGAACATA	TTTAAAAA - - - -	- - - - TCTTAA	1133
BovB_Ac-RTE-Anolis_carolinensi	GCTAACAAACA	AG - GCAGCAG	GAG - - - ACGA	CGGGATCCCA	GCT - GAGCTG	TTTAAA - - - -	- - - - ATCTTGG	1767
BovB_BM-RTE-Bombyx_mori	AAGGATAATA	AA - GCGCCAG	GAC - - - ATGA	TAACATCACA	GCA - GAGAC -	TTTAAAG - - - -	- - - - CACTC	1631
BovB_Dr-RTE-Christinus	CCAACACAGGA	AA - GCCCCAG	GCA - - - TTGA	TGGCATACCA	ACT - GAATT -	ACTCAAA - - - -	- - - - C - - - C	1668
BovB_La-RTE-Loxodonta_africana	GCGAAAAAAA	AG - GCTCCAG	GAA - - - TTGA	CGGAATATCA	ATT - GAGATG	TTTCAAC - - - -	- - - - AAACG	1795
BovB_Pc-RTE-Procavia_capensis	GCAAAAAACA	AG - GCTCCAG	GAA - - - TTGA	TGGAATATCA	ATT - GAGATA	TTTCAAC - - - -	- - - - AAACA	1795
BovB_Et-RTE-Christinus	TCCAAAAAACA	AG - CCTCAAG	GAA - - - TTGA	TGAAATGCCC	ATT - GAAATG	TTTCAAC - - - -	- - - - AAAAA	1596
BovB_Ta-RTE-Tachyglossus_acule	ACCAAAAAATA	AG - GCACCTG	GCT - - - TTGA	TAGGCTTCCT	ATT - GAGGTG	TTTCAGG - - - -	- - - - CAGCT	1932
BovB_Plat-RTE-Ornithorhynchus	GCCAAAAATA	AG - GCACCTG	GCT - - - TTGA	TAGGCTTCCT	ATT - GAGGTG	TTTCAGG - - - -	- - - - CAGCT	1921
BovB_Ec-RTE-Equus_caballus	GGAAGAAATA	AG - TCACCAG	GGG - - - TAGA	TGGGATATCG	ATA - GAATTA	TTTCAAG - - - -	- - - - CCACA	1691
BovB_Cg-RTE-Christinus	G - AAGAATTA	TA - ACAAAAAG	AGA - - - AAAA	TAGGATATCA	ATA - GAGCTA	TTTCAAG - - - -	- - - - CCACA	1211
BovB_Bh-RTE-Bothriocroton_hydr	GCCATCTAGG	ATTACCCAAAG	ATG - - - GACA	GGTCATAGTA	GAGAGTTCTG	ACTAAACGT - - -	- - - - GATCCGCT	248
BovB_MI-RTE-Gehyra_variegata	TAAAGAAATA	TAAATATTTTG	GAT - - - - - A	GGAGGTAGCA	AAAAAAAATG	TTACAA - - - -	- - - - - - - - A	333
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-5_family3162_LINE_RTE	CGGAGGTGGA	GCTTCGCTTC	TGGATTTTGC	TAAAGCTTTT	GAGTTGGTGA	TNGCTAACTC	GAGCTTCCG	1467
Sly-rnd6_family1960-LINE/RTEBo	CGGAGG - - - A	GTTTCGCTTT	TGGATTTTGC	GAAAGCTTTT	GAGTTGGTGA	TTGCTAACTC	GAGCTTCCG	641
Stu-rnd-5_family2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----
Stu-rnd-6_family2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----
Consensus	- C - AA - AA - A	A - - GC - - - - G	G - - - - - TGA	- - - - - AT - CCA	- - - - - GAG - T -	TT - - AA - - - -	- - - - - C - - - A	



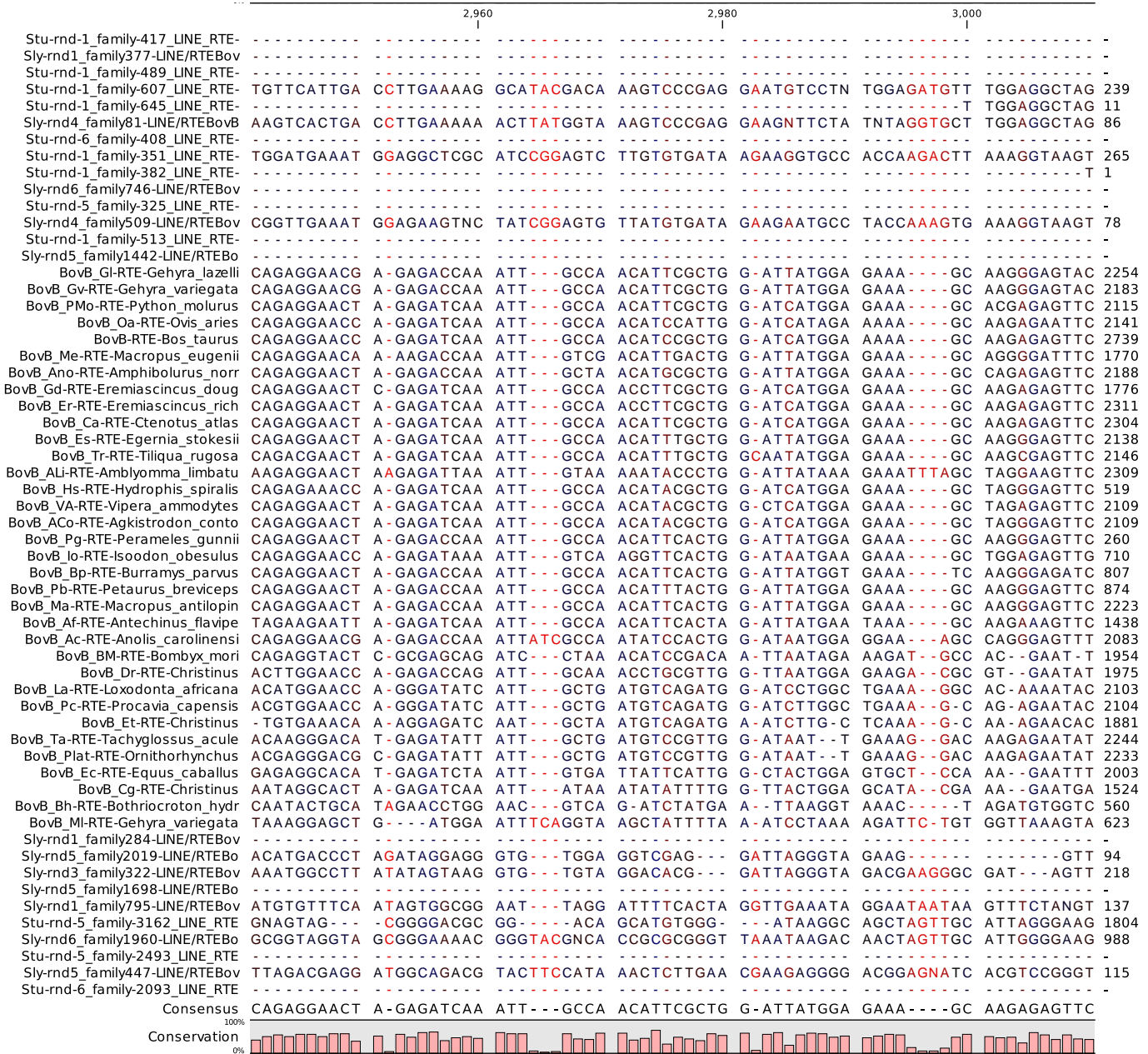
	2,680	2,700	2,720	
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	AAGA -GGACG CCGT TAAAGT GCTGCACTCA ATATGCCAGC AAATTTGGAA AACGCAACAG TGGCCACA-- 2009			
BovB_Gv-RTE-Gehyra_variegata	AACA -TGATG CCGT TAAAGT GCTGCACTCA ATATGCCAGC AAATTTGGAA AACGCAACAG TGGCCACA-- 1939			
BovB_PMo-RTE-Python_molurus	AAGA -TGATG CTGT TAAAGT GCTGCACTCA ATATGCCAGC AAGTTTGGAA AACGCAACAG TGGCCACG-- 1871			
BovB_Oa-RTE-Ovis_aries	AAGA -TGATG CTGT GAAAGT GCTGCACTCA ATATGCCAGC AAATTTGGAA AACTCAGCAG TGGCCACA-- 1897			
BovB-RTE-Bos_taurus	AAGA -TGATG CTGT GAAAGT GCTGCGCTCA ATATGCCAGC AAATTTGGAA AACTCAGCAG TGGCCACA-- 2495			
BovB_Me-RTE-Macropus_eugenii	AAAA -T----- -CTTA ACAT----- -CACTGA TAATCACA-- 1560			
BovB_Ano-RTE-Amphibolurus_norr	AAGA -TGATG CTGT TAAGGT GCTACATTC A ATATGCCAGC AAGTTTGGAA AACTCAACAG TGGCCAGA-- 1944			
BovB_Gd-RTE-Eremiascincus_doug	AAGA -TGATG CTGT CAAAGT GCTGCACTCC ATATGCCAGC AAATTTGGAA AACCCAGCAG TGGCCACA-- 1532			
BovB_Er-RTE-Eremiascincus_rich	AAGA -TGATG CTGT CAAAGT GCTGCACTCC ATATGCCAGC AAATTTGGAA AACCCAGCAG TGGCCACA-- 2067			
BovB_Ca-RTE-Ctenotus_atlas	AAGA -TGATG CTGT CAAAGT GCTGCACTCC ATATGCCAGC AAATTTGGAA AACCCAACAG TGGCCGCA-- 2060			
BovB_Es-RTE-Egernia_stokesii	AAGA -TGATG CTGT TAAAGT GCTGCACTCA ATCTGCCAGC AAATTTGGAA AACTCAACAG TGGCCTCA-- 1894			
BovB_Tr-RTE-Tiliqua_rugosa	AAGA -TGAAG CTGT TAAAGT GCTGCACTCA ATCTGCCAGC AAAGTTGGAA AACTCAACAG TGGCCTCA-- 1900			
BovB_ALi-RTE-Amblyomma_limbatu	AAGA -CGATG CAGT AAAAGT GCTACTCTCA ATATGCCAGC AAATTTGGAA AACTCAACAG TTGCCACACG 2053			
BovB_Hs-RTE-Hydrophis_spiralis	AACA -CGATG CAGT AAAAGT GCT -CACTCA ATTTGCCAGC AAATTTGGAA AACTCAACAG TGGCCACA-- 275			
BovB_VA-RTE-Vipera_ammodytes	AAGA -CAA TG CAGT AAAAGT GCTACTCTCA ATTTGCCAGC AAATTTGGAA AACTCAACAG TGGCCACA-- 1865			
BovB_ACo-RTE-Agkistrodon_conto	AAGA -CGATG CAGT AAAAGT GCTACTCTCA ATTTGCCAGC AAATTTGGAA AACTCAACAG TGGCCACA-- 1865			
BovB_Pg-RTE-Perameles_gunnii	----- -AT GTT----- -C AAATTTGGAA AACTCAACAG TAGCCACT-- 34			
BovB_lo-RTE-Isodon_obesulus	AAGA -TGATA CTGT TAAAGT ATTGCACTTT AAA----- -C TAATTTGGAA AACTAAACAG TGGTCACT-- 472			
BovB_Bp-RTE-Burramys_parvulus	AAGA -TGATG CTGT TAAAGT GCTGTACTCA ATATGCCAGC AAATTTGGAA AACTCAACAG TGGCCACT-- 564			
BovB_VA-RTE-Petaurus_breviceps	AAGA -TGATG CTGT TAAAGT GCTGCACTCA ATATGCCAGC AAATTTGGAA AACTCAACAG TGACCACT-- 630			
BovB_Ma-RTE-Macropus_antilopin	AAGA -TGATG CTGT TAAAGT GCTGCACTCA ATATGCCAGC AAATTTGGAA AACTCAACAG TGGCCACT-- 1979			
BovB_Af-RTE-Antechinus_flavipe	AAGA TGATG CTGT CAAAGA GCTGCATTTA ATATGTTAA AAATTTAGAA AACTTAAAC TGACCACT-- 1201			
BovB_Ac-RTE-Anolis_carolinensi	AAGA -TCATG CTGT CAAAGCT GATGCATGCA ATATGCCAGC AAATATGGAA AACACAAAAA TGGCCATC-- 1834			
BovB_BM-RTE-Bombyx_mori	AGCGACG CAG GAATAGATGT ACTGCATAAA ATCTGCCAATC ATATCTGGCA GAATGGTGAA TGGCCGGA-- 1699			
BovB_Dr-RTE-Christinus	AATTC CCG - - - - - ATTCATGT ATTAACAACG CTGTGTGCAG AGATATGGAA GACCAATCA TGGCCTAA-- 1731			
BovB_La-RTE-Loxodonta_africana	GATGCAGCG TGG - - - AAGT GCTCACTCGT CTATGCCAAG AAATATGGAA GACAGCTACC TGGCCAAC-- 1860			
BovB_Pc-RTE-Procavia_capensis	GATGCAGCAC TGG - - - AAGT GCTCACTCAT CTATGCCAAG AAATTTGGAG GACAGCTACC TGGCCAAC-- 1860			
BovB_Et-RTE-Christinus	GA - - - AGCAC TGG - - - AAGC ACTCACTTGT CTATACCAGG AAATTTGGAA GACAGGCACT TGGCCAAG-- 1658			
BovB_Ta-RTE-Tachyglossus_acule	GAGAGGAAAT CCGT TAAAGT CTTACCAAAA TTATGTCAAC AGGTATGGCT AACCACTCAA TGGCCATC-- 2000			
BovB_Plat-RTE-Ornithorhynchus	GGAGAGGAAAT CCGT TAAAGT CTTACCAAAA TTATGTCAAC AGGTATGGCT AACCACTCAA TGGCCATC-- 1989			
BovB_Ec-RTE-Equus_caballus	GAGACTGAAT CTGT CAAAAA CCTAACAAAGA ATATGCCAAC AAATATGGAA AACAAAACAA TGGCCTAC-- 1759			
BovB_Cg-RTE-Christinus	GAAA TAGAAT ATAT CAAAAA CTTAACAAAGA ATATGCCAAC AAAAAATGGAA AACAAAACAA TGGCCTAT-- 1279			
BovB_Bh-RTE-Bothriocroton_hydr	GGAAAGGAA ATGGCAATCC ACTCCAGTAG TCCTGCCAA - - - - - GAAA ACCCGATGAA TTGCAGAACT 311			
BovB_MI-RTE-Gehyra_variegata	GAAA - - - - - AGAGC AGGAACACAA ACTGGCTAAC TAAT - - - GAG GCTTTACAAA TAGCTGAG-- 387			
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	AAGAAGGAGG ACCACTTGGT NACCTTTCGT AGCNCGGTGG CTAAGACCCA GATAGATTAC TTACTCCTTA 1537			
Sly-rnd6_family1960-LINE/RTEBo	A - - - AGGAGG ATCACTTGGT TACCTTCCGT AGCACGGTGG NTAAGACTCA NATAGATTAC TTACTCCTTA 708			
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----
Consensus	AA - A - - GA - - - - G - - AAAGT - CT - - - - T - A ATATGCCA - C AAAT - TGGAA AAC - - A - CA - TGGCCAC - - -			





	2,820	2,840	2,860	
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-607_LINE_RTE	GGAGATGAGG	GTGAGGAGAG	GGGTGTCCAT	TTCCGAGAAC
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family81-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----
Stu-rnd-1_family-351_LINE_RTE	ACGCGACGCA	TGAGGCGGAC	GTGGAAGTGA	GGCTTGACGC
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	----ATGTTT	CAACTATCGC	A-CAATTGCA	CTCATTTTCC
BovB_Gv-RTE-Gehyra_variegata	----ATGTTT	CAACTATTGC	A-CAATTGCA	CTCATTTTCC
BovB_PMo-RTE-Python_molurus	----ATGTTT	AAACTATCGC	A-CAATTGCA	CTCATTTTCC
BovB_Oa-RTE-Ovis_aries	----ATGTTT	AAACTACCAC	A-CAATTGCA	CTCATTTTCC
BovB-RTE-Bos_taurus	----ATGTTT	AAACTACCGC	A-CAATTGCA	CTCATTTTCC
BovB_Me-RTE-Macropus_eugenii	----ATCTTC	CAGGTACAAA	A-CAAAAACA	CTCACTTCC
BovB_Ano-RTE-Amphibolurus_norr	----ATGTTT	CAACTACCGT	A-CAATTGCA	CTCATTTTCC
BovB_Gd-RTE-Eremiascincus_doug	----TTGTTT	CAACTACCGC	A-CCATTGCA	CTCATTTTCC
BovB_Er-RTE-Eremiascincus_rich	----TTGTTT	CAACTACCGC	A-CCATTGCA	CTCATTTTCC
BovB_Ca-RTE-Ctenotus_atlas	----TTGTTT	GAACTACCGC	A-CCATTGCA	CTCATTTTCC
BovB_Es-RTE-Egernia_stokesii	----AAGTTT	AAACCACCGC	G-CAATTGCG	CTTATTTTCC
BovB_Tr-RTE-Tiliqua_rugosa	----ATGTTT	AAACTACCGC	A-CAACTGCG	CTTATTTTCC
BovB_ALi-RTE-Amblyomma_limbatu	----TTGTTT	AAACTACCGC	A-CCATTGCA	CTAATTTTAC
BovB_Hs-RTE-Hydrophis_spiralis	----ATGTTT	AAATTATTGC	A-CCATTGCA	CTCATTTTCC
BovB_VA-RTE-Vipera_ammodytes	----ATGTTT	AAACTATCGC	A-CCATTGCA	CTCATTTTCC
BovB_ACo-RTE-Agkistrodon_conto	----ATGTTT	AAACTATCGC	A-CCATTGCA	CTCATTTTCC
BovB_Pg-RTE-Perameles_gunnii	----ATGTTT	AAATTAATGA	A-CTATTGTT	-----
BovB_lo-RTE-Isodon_obesulus	AACTGTGCTT	ATTTCAAGAA	G-TTCATGC-	-----
BovB_Bp-RTE-Burramys_parvulus	----ATGTTT	AAATTAATGA	A-CAATTGCA	CTCATTTTCC
BovB_VA-RTE-Petaurus_breviceps	----ATGTTT	AAATTAATGA	A-CAATTGCA	CTCATTTTCC
BovB_Ma-RTE-Macropus_antilopin	----ATGTTT	AAATTAATGA	A-CAATTGCA	CTCATTTTCC
BovB_Af-RTE-Antechinus_flavipe	----ATGTTT	ACATTAATGA	A-CAATTGCA	CTCATTTTCC
BovB_Ac-RTE-Anolis_carolinensi	----ATGTTT	AAACTTCCGT	A-CAGTGGCA	CTTATTTTCC
BovB_BM-RTE-Bombyx_mori	----CTGTAA	CAACTATCGG	A-CCCTTGCT	CTTATTTTCC
BovB_Dr-RTE-Christinus	----ATGCTG	CAACTATCAG	A-CAATCGCG	CTCATTTTCC
BovB_La-RTE-Loxodonta_africana	----ATGCGG	AAATTAATGA	A-CAATATCA	TTAATATCAC
BovB_Pc-RTE-Procavia_capensis	----ATGTGG	AAATTAATGA	A-CAATATCA	TTAATATCAC
BovB_Et-RTE-Christinus	----ATA---	-----GA	A-CAATATCC	TTA-TATCAC
BovB_Ta-RTE-Tachyglossus_acule	----ATGTGA	CAATTAATCGT	A-CAATTTCC	TTGATCTCAC
BovB_Plat-RTE-Ornithorhynchus	----ATGCGA	CAATTAATCGT	A-CAGTTTCC	TTGATCTCAC
BovB_Ec-RTE-Equus_caballus	----GTGCAG	TAACATATAGG	A-CCATTGCT	CTAATTTTCC
BovB_Cg-RTE-Christinus	----CTGCAG	CAACTATCAG	A-CCATTGCA	TTAATTTTCC
BovB_Bh-RTE-Bothriocroton_hydr	GCTACTGGGG	GAAGAGCAGA	G-CAGGAGTA	CTGA- - -CAC
BovB_MI-RTE-Gehyra_variegata	----TTG---	---AATGTAGA	ATTAAGTTC-	TTAATATCAC
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd3_family322-LINE/RTEBov	GGCCCAA TGA	GGAGGTGCGA	GANGTTGGCT	ATGGATGGAT
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-5_family-3162_LINE_RTE	GCTTTTGGTG	ATGGACCTGG	AGATTAAGAG	GGAGAGGAGG
Sly-rnd6_family1960-LINE/RTEBo	GCTCNTTGGC	ATGGATTTGG	AGATTAAGAG	GGAGATGAGG
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----
Consensus	----ATGTTT	-AA-TA-CG-	A-CAATTGCA	CT-ATTTTCC





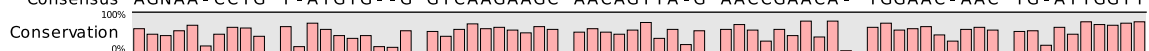
	3,020	3,040	3,060	3,080	
Stu-rnd-1_family417_LINE_RTE	-----	-----	-----	-----	-----GTGG TGGACAAGAT 14
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----
Stu-rnd-1_family489_LINE_RTE	-----	-----	-----	-----	-----
Stu-rnd-1_family607_LINE_RTE	AGGTGTACCG GTGGCTTACA	TTAGGGCGAT NAAGGACATG	TACGATGGAG -CCAAGACTC	GGGTNAGAAC	308
Stu-rnd-1_family645_LINE_RTE	AGGTGTACCG GTGGCTTACA	TTAGGGCGAT NAAGGACATG	TACGATGGAG -CCAAGACTC	GGGTNAGAAC	80
Sly-rnd4_family81-LINE/RTEBovB	AGGTGTACTT GTGGCNTACA	CTAGGGCGAT TAAAGACATG	TATGATGGAG -CCAAGACTC	GGGTAAGAAT	155
Stu-rnd-6_family408_LINE_RTE	-----	-----	-----AAG	-ACGTCACTA	CGGTGAGAAC 22
Stu-rnd-1_family351_LINE_RTE	TCTACAGAGT GGTGGTTAGA	CCGACTTTGT TGTATGGGGC	GGAGTGTGG CCAGTCAAGA	ACTCNCACGT	335
Stu-rnd-1_family382_LINE_RTE	TCTACAGAGT GGTGGTTAGA	CCGACTTTGT TGTATGGGGC	GGAGTGTGG CCAGTCAAGA	ACTCNCACGT	71
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----
Stu-rnd-5_family325_LINE_RTE	-----	-----	-----	-----	-----
Sly-rnd4_family509-LINE/RTEBov	TTTACGAAAC AGTTGTAAGA	CCGACAATGT TATATGAGAG	TGAATGTTGG GCCGCTAAAG	TCCAACATAT	148
Stu-rnd-1_family513_LINE_RTE	-----	-----	-----	-----	-----
Sly-rnd5_family1442-LINE/RTEBov	-----	-----	-----	-----	-----
BovB_GI-RTE-Gehyra_lazelli	CAGAAAAAC -	CTACT-TCTG	CTTCATTGAC	TATGCTAAAG	-CCTTTGATT GTGTGG - 2309
BovB_Gv-RTE-Gehyra_variegata	CAGAAAAAC -	CTACT-TCTG	CTTCATTGAC	TATGCTAAAG	-CCTTTGATT GTGTGG - 2238
BovB_PMo-RTE-Python_molurus	CAGAAAAAT -	CTACT-TCTG	CTTCATTGAC	TATGCAAAAAG	-CCTTTGATT GTGTGG - 2170
BovB_Oa-RTE-Ovis_aries	CAGAAAAAC -	CTACT-TCTG	CTTCATTGAC	TATGCCAAAG	-CCTTTGACT GTGTGG - 2196
BovB-RTE-Bos_taurus	CAGAAAAAC -	CTATT-TCTG	CTTTATTGAC	TATGCCAAAG	-CCTTTGACT GTGTGG - 2794
BovB_Me-RTE-Macropus_eugenii	CAGGGAAAGC -	AAG ATACT-TCTG	CTTCATAGAC	TACACGAAAAG	-CCTTTGACT TTGCAG - 1827
BovB_Ano-RTE-Amphibolurus_norr	CAGAAAAAT -	CTACT-TCTG	CTTCATTGAC	TATGCAAAAAG	-CCTTTGACT GTGTGG - 2243
BovB_Gd-RTE-Eremiascincus_doug	CAGAAAAA -	CAT CTACC-TCTG	CTTCATTGAC	TATGCTAAAAG	-CCTTTGATT GTGTGG - 1831
BovB_Er-RTE-Eremiascincus_rich	CAGAAAAA -	CAT CTACC-TCTG	CTTCATTGAC	TATGCTAAAAG	-CCTTTGATT GTGTGG - 2366
BovB_Ca-RTE-Ctenotus_atlas	CAGAAAAA -	CAT CTACC-TCTG	CTTCATTGAC	TATGCTAAAAG	-CCTTTGATT GTGTGG - 2359
BovB_Es-RTE-Egernia_stokesii	CAGAAAAA -	CAT CTACT-TCTG	CTTCACTGAC	TACGCTAAAAG	-CCTTTGATT GTGTGG - 2194
BovB_Tr-RTE-Tiliqua_rugosa	CAGAAAAA -	CAT CTACA-TCTG	CTTCATTGAC	TACACTAAAAG	-CCTTTGATT GTGTGG - 2201
BovB_ALi-RTE-Amblyomma_limbatu	TAGAAAAA -	CAATT-TTTA	CTTCTTAAT	AAAATTAAT	ACTTTTAATA TTTTATAAT 2369
BovB_Hs-RTE-Hydrophis_spiralis	CAGAAAAAC -	CTACT-TCTG	CTTCATTGAC	TATGCTAAAAG	-CCTTTGATT GTGTGG - 574
BovB_VA-RTE-Vipera_ammodytes	CAGAAAAAC -	CTACT-TCTG	CTTCATTGAC	TATGCTAAAAG	-CCTTTGATT GTGTGG - 2164
BovB_ACo-RTE-Agkistrodon_conto	CAGAAAAAC -	CTACT-TCTG	CTTCATTGAC	TATGCTAAAAG	-CCTTTGATT GTGTGG - 2164
BovB_Pg-RTE-Perameles_gunnii	CAGAAAAA TA TCTTCTTA	CTACT-TCTG	CTTCATTGAC	TACACTAAAAG	-CCTTTGATT GTGTGG - 325
BovB_Io-RTE-Isodon_obesulus	TAGAAAAA AC AAT -	CTGCT-TTTG	CTACTTTTTT	TACATTAGAA	-CCTTTGACT GTG - 764
BovB_Bp-RTE-Burramys_parvulus	CAGAAAAA -	T CTATT-TCTG	CTTCATTAAC	TACACTAAAAG	-CCTTTGACT GTATGA - 861
BovB_VA-RTE-Petaurus_breviceps	CAGAAAAA GCA -	T CTACT-TCTG	CTTCATTGAC	TACACTAAAAG	-CCTTTGACT GTGTG - 931
BovB_Ma-RTE-Macropus_antilopin	CAGAAAAA CA -	T CTACT-TCTG	CTTCATTGAC	TACACTAAAAG	-CCTTTGACT GTGTG - 2277
BovB_Af-RTE-Antechinus_flavipe	CAGAAAAA CA -	T CCATC-ATAG	C-ATGCTGCT	TTCAATTA -	-CCTTTGACC ATGTA - 1488
BovB_Ac-RTE-Anolis_carolinensi	CAGAAAAA AC -	AT CTACT-TCTG	CTTTATTGAC	TATTCCAAAG	-CCTTCGACT GCGTGG - 2139
BovB_BM-RTE-Bombyx_mori	CGATACACC -	TA TTACTCTGTG	CTTCGTTGAC	TACAGCAAAG	-CGTTTGACT GCGTTG - 2010
BovB_Dr-RTE-Christinus	CAAAAGAAC -	GT GTATA-TGTG	CTTCATCGAC	TACAGCAAAG	-CCTTCGACT GTGTCA - 2030
BovB_La-RTE-Loxodonta_africana	CAGAAAGAT -	GT TTACC-TGTG	TTTTATTGAC	TATGCAAAGG	-CATTTCGACT GTGTGG - 2158
BovB_Pc-RTE-Procavia_capensis	CAGAAAGAT -	GT TTACT-TGTG	TTTTATTGAC	TATGCAAAGG	-CATTTCGACT GTGTGG - 2159
BovB_Et-RTE-Christinus	CAGAAAGAT -	GT TTACT-TCAG	TTTTACTGAC	TATGCAAAGG	-CATTTCG - T GGGTGG - 1934
BovB-Ta-RTE-Tachyglossus_acule	CAAAAGGAA -	GT CAGCA-TGTG	CTTTATTGAT	TATAGTAAAG	-CCTTTGACT GTGTGG - 2299
BovB_Plat-RTE-Ornithorhynchus	CAAAAGGAA -	GT CAGCA-TGTG	CTTTATTGAT	TATAGTAAAG	-CCTTTGACT GCGTGG - 2288
BovB_Ec-RTE-Equus_caballus	CAGAAGAAG -	GT TAGTC-TATG	TTTTATAGAC	TACAGTAAAG	-CCTTTGACT GCA TGG - 2058
BovB_Cg-RTE-Christinus	CAGAAGAAG -	AT CAGCT-TGTG	TTTTAAAGAA	TACAGTAAAG	-TTTTTGACA ACATGG - 1579
BovB_Bh-RTE-Bothriocroton_hydr	AAACGCGAGA -	TGT CAAGACTGAA	C - - ATCGAC	ATCATGGGAA	TTAGTCAACT AAA - 613
BovB_MI-RTE-Gehyra_variegata	CAGGACCCA -	AT GTGCCAGCAA	ATTTGAAAA	CTCTACAGTG	ATCACTGTT TAGAAA - 680
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----
Sly-rnd5_family2019-LINE/RTEBo	AGTAGGTAGT -	C GAGTCTTGTC	TTGTTTTTCG	ACGGGTTA -	GTAGGTTAGT TGGTATT - 150
Sly-rnd3_family322-LINE/RTEBov	NGTAGGACTN -	A GGGTGCATC	CTGCNTTACN	ATTAGTCG - T	ACNANTGTAT TAGTNTG - 276
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----
Sly-rnd1_family795-LINE/RTEBov	TTTGGATAAC -	T AAAACAACAC	TTATTTTACT	TGGATTTGAT	ACACTTGAGT TGTGGTC - 196
Stu-rnd-5_family3162_LINE_RTE	TNGCTTTAA GGTGTTAGGG	GTNTC-GAGG	GGTAAAT -	-CCGNGGAC	ATAGAGGAGA TTG-GTGGTG 1868
Sly-rnd6_family1960-LINE/RTEBo	AAGCTACAAA GGTGCAAAAG	GTATC-GAGG	GGTATGTACC	TCTAGTCGAG	ATCAGAGGAGA CTGAGTGGTG 1057
Stu-rnd-5_family2493_LINE_RTE	-----	-----	-----	-----	-----
Sly-rnd5_family447-LINE/RTEBov	GATTTGGAGC ACTCCGAGAG	ACGTC-GNGA	TTTCGGG -	- TANTGTAG	GTGTATAAAG TTAGGTTGGA 179
Stu-rnd-6_family2093_LINE_RTE	-----	-----	-----	-----	-----
Consensus	CAGAAAAA -	AT CTACT-TCTG	CTTCATTGAC	TATGCTAAAAG	-CCTTTGACT GTGTGG -



	3,100			3,120			3,140	
Stu-rnd-1_family-417_LINE_RTE	GAGGGAAGCG	AGACTGAGAT	GGTTCGGACA	TGTGAAGAGG	AGATGCGCAG	ACGCCCCAGT	GAGGAGGTGC	84
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-
Stu-rnd-1_family-607_LINE_RTE	GGTGGGAGGA	GACTCGGAGC	ACTTCCCAGT	TGTGATGGGG	TTGCACCAGG	GATCAACCCCT	TAGCCCGTTT	378
Stu-rnd-1_family-645_LINE_RTE	GGTGGGAGGA	GACTCGGAGC	ACTTCCCAGT	CGTGTATGGG	TTGCACCAGG	GATCAACCCCT	TAGCCCGTTT	150
Sly-rnd4_family81-LINE/RTEBovB	AGTGGGAGGA	GACTCGGAGC	ACTTCCCAGT	TGNATGGGG	TTGCACCAGG	GATCAGCNC	TAACCCGTTT	225
Stu-rnd-6_family-408_LINE_RTE	AGTGGTAGGA	GATACAAAGG	AGTTTCCCAT	AATCGTGGCT	TTACACTAGG	GATCGGCATT	GATNNCNCTA	92
Stu-rnd-1_family-351_LINE_RTE	TCAGAAGATG	AAAGTTGCGG	AAATGAGGAT	GTTGAGATGG	ATGTGTGGGC	ATACTAGGAG	AGATAAGATT	405
Stu-rnd-1_family-382_LINE_RTE	TCAGAAGATG	AAAGTTGCGG	AAATGAGGAT	GTTGAGATGG	ATGTGTGGGC	ATACTAGGAG	AGATAAGATT	141
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd4_family509-LINE/RTEBov	CCACAAGACG	AGTGTGCTAG	AAATGCGGAT	GCTAAGATGG	ATGTGCGGTC	ATACAAGATT	AGACAAGATT	218
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-
BovB_GI-RTE-Gehyra_lazelli	-----ATCAC	ACCAACTATG	GCAAGTCTT	AAAGAGATGG	GAGTACCAGA	CCACCTCAC	ACGTCTCTTG	2374
BovB_Gv-RTE-Gehyra_variegata	-----ATCAC	ACCAACTATG	GCAAGTCTT	AAAGAGATGG	GAGTACCAGA	CCACCTCAC	ACGTCTCTTG	2303
BovB_PMo-RTE-Python_molurus	-----ATCAC	ACAAACTGTG	GCAAAATCTT	AAAGAGATGG	GAGTACCAGA	CCACCTTAC	CTGTCTCCTG	2235
BovB_Oa-RTE-Ovis_aries	-----ATCAC	ACAAACTGTG	GAAAAATCTT	AAAGAGATGG	GAATACCAGA	CCACCTTAC	CTGCCTCCTG	2261
BovB-RTE-Bos_taurus	-----ATCAC	ATAAACTGTG	GAAAAATCTG	AAAGAGATGG	GAATACCAGA	CCACCTGAC	CTGCCTCTTG	2859
BovB_Me-RTE-Macropus_eugenii	-----ATCAC	ACAAAATATA	GCAAGTCTC	AAAGAGATGG	GAGCACTGCA	TCACCTTAC	TTGCCT--G	1889
BovB_Ano-RTE-Amphibolurus_norr	-----ACCAC	GCAAACATG	GCAAGTCTT	AAAGAAATGG	GAGTGCCTGA	CCACCTTAT	CTATCTCCTG	2308
BovB_Gd-RTE-Eremiascincus_doug	-----ATCAC	ACAAACTGTG	GCAAGTCTG	GAAGAGATGG	GAGTACCAGA	CCACCTGAT	CTGTCTCTTG	1896
BovB_Er-RTE-Eremiascincus_rich	-----ATCAC	ACAAACTGTG	GCAAGTCTG	GAAGAGATGG	GAGTACCAGA	CCACCTGAT	CTGTCTCTTG	2431
BovB_Ca-RTE-Ctenotus_atlas	-----ATCAC	ACAAACTGTG	GCAAGTCTT	GAAGAGATGG	GAGTACCAGA	CCACCTCAT	CTGTCTCTTG	2424
BovB_Es-RTE-Egernia_stokesii	-----ATCAC	ACAAATTGTG	GCAAGTCTT	AAAGAGATGG	GAGTACCAA	CCACCTTAT	CTGTCTCCTG	2259
BovB_Tr-RTE-Tiliqua_rugosa	-----ATCAC	ACAAATTGTG	GCAAGTCTT	AAAGAGATGG	GAGTACCAA	CCACCTTAT	CTGTCTCCTG	2266
BovB_ALI-RTE-Amblyomma_limbatu	ATCCAACACA	AAAAATAGTA	CCAAATTTT	AGAGAGATGG	GAGCACCAGG	CCATCTTAT	TTGTCTCTTG	2438
BovB_Hs-RTE-Hydrophis_spiralis	-----AACAC	ACAAATTGTG	GCAAGTCTT	AAAGAGATGG	GAGTACCAGA	CCATCTTAT	TTGTCTCTTG	639
BovB_VA-RTE-Vipera_ammodytes	-----ATCAC	ACAAACTGTG	GCAAGTCTT	AAAGAGATGG	GAGTACCAGA	CCATCTTAT	TTGTCTCTTG	2229
BovB_ACo-RTE-Agkistrodon_conto	-----ATCAC	ACAAATTGTG	GCAAGTCTT	AAAGAGATGG	GAGTACCAGA	CCATCTTAT	TTGTCTCTTG	2229
BovB_Pg-RTE-Perameles_gunnii	-----AATAC	ACAAATTGTG	ACACGGCTC	AAAGAGATGG	GAATACCAGA	TCATCTTAC	TTGTCTCTTG	391
BovB_lo-RTE-Isodon_obesulus	-----TTGCC	ACACAATT--	GCAAGTCTC	AAATAAGTGA	AAATATCAA	TCATCTTCC	TTGTCTCTTG	827
BovB_Bp-RTE-Burramys_parvus	-----GATCA	ACAAAATGTG	GCAAGTCTC	AAAGAGATGG	GAGTACCAGG	TCATCTCAC	TTGTCTCTTG	927
BovB_VA-RTE-Petaurus_breviceps	-----GATCA	ACAAAATGTG	GCAAGTCTC	AAAGAGATGG	GAGTACCAGA	TCATCTTAC	TTGTCTCTTG	997
BovB_Ma-RTE-Macropus_antilopin	-----GATCA	ACAAAATGTG	GCAAGTCTC	AAAGAGATGG	GAGTACCAGA	TCATCTTAC	TTGTCTCTTG	2343
BovB_Af-RTE-Antechinus_flavipe	-----ACTTA	ACATA-TGT	GGAAGTCTC	AAAGAGATG	---TACTAGA	CCACCCTAC	-TGCAGCCC	1548
BovB_Ac-RTE-Anolis_carolinensi	-----ATCAT	ATAAACTATG	GCATGTTCT	GGTGGTATGG	GGATACCAAG	TCACCTTGT	CTGTCTCCTG	2204
BovB_BM-RTE-Bombyx_mori	-----GCTGG	ACTGCTTATG	GCGGTCTCT	CAGGAACCTG	GAGTACCCAT	GCACCTTAA	-AGCTTTTCT	2074
BovB_Dr-RTE-Christinus	-----ATCAT	GCGAGCTATG	GAAAATGTCT	AAGCAGATGG	GATCCCGCA	GCATTTAAT	-AGATCTGAC	2094
BovB_La-RTE-Loxodonta_africana	-----ATCAT	ACAAAT-ATG	GATAACACTG	CGAAGAATGG	GAATCCAGA	ACACTTAAT	-TGTGCTCAT	2221
BovB_Pc-RTE-Procavia_capensis	-----ATCAT	CTAAATTATG	GCTAACATG	TGGAGAATGG	GAATCCAGA	ACACCTAAT	-TGTGCTCTT	2223
BovB_Et-RTE-Christinus	-----ACCAT	ACAAACTACG	AAGAACAATC	AAAAGAATGG	GAATCCACA	ACACTTAT	-TGTGCTAAT	1998
BovB_Ta-RTE-Tachyglossus_acule	-----ATCAG	AGAAACTCTG	GAGCACATTA	AGGAAAATGG	GATGCTGGA	CCATTTAAT	-TGCATTAAT	2363
BovB_Plat-RTE-Ornithorhynchus	-----ATCAG	AGAAACTCTG	GAGCACATTA	AGGAAAATGG	GATGCTGGA	CCATTTAAT	-TGCATTAAT	2352
BovB_Ec-RTE-Equus_caballus	-----ATCAT	AAAAGCTATG	GAGTGTCTG	AAAGAAAATGG	GATGCTGGA	GCACCTTAT	-TGTGCTGAT	2122
BovB_Cg-RTE-Christinus	-----ATCAT	AAAAGTATG	GTTGGTTTT	AAAGAAAATGG	ATATGCCACA	ACATCTGAT	-TGTTTTATG	1643
BovB_Bh-RTE-Bothriocroton_hydr	-----AATAG	GCAGGA-ATG	GGAGAATTTA	TTTCAGATG	---ACCATT	ACATCTACT	-ACTATGGGC	671
BovB_MI-RTE-Gehyra_variegata	-----TAATT	GTTTTATGT-	CCCAATCATA	AAGAAGAGCA	AAATGTTAAA	TTACTGGAC	-AATTTTATT	742
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd5_family2019-LINE/RTEBo	--CGGATATC	GTATTAGCC-	---TATT-CT	CGTACGTATC	TTGNTCCTTC	GATTTCCGTT	--ATCACCTG	211
Sly-rnd3_family322-LINE/RTEBov	--CTGTACAT	CTAGTAGTCG	TAGTATTACT	CTTGTAGTTT	CTTGTNCTTC	CTTTTCTGTT	--ACTATTTA	342
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd1_family795-LINE/RTEBov	--TTTCGAAA	ACAACTCTCT	TTTCAATACA	CAAGTAAACT	AGGTAGTGTG	TACTCTAAC	GGACAGTTTC	264
Stu-rnd-5_family-3162_LINE_RTE	GAATGGGAA	GTCCAAGGCA	AAGTGAAGC	GAAGAAGGCT	GCGTACGCGA	AGTTGGCGGA	GTTGGTAGAC	1938
Sly-rnd6_family1960-LINE/RTEBo	GAATGGTAA	GTGNAAGGNA	AAGTGAAGC	AAAGTAGGCG	GCAATGCAA	AGTTGGCGGA	GTTGGTAGAC	1127
Stu-rnd-5_family-2493_LINE_RTE	GAGTAGGGGA	AGAGCGACCG	GACCGGATGA	GATTCCGGTG	GAATTTTGA	AGAGCGCAGA	CAAGGCAGGT	70
Sly-rnd5_family447-LINE/RTEBov	GCGTAGGGGA	AGAGCGACCG	GGCCGGACGA	GATCCNGATG	GAATTTTGA	AGAGCGCGGG	CAAGGCAGGT	249
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-
Consensus	-----ATCAC	ACAAACTGTG	GCAAGTCTT	AAAGAGATGG	GAGTACCAGA	CCACCTTAT	-TGTCTCCTG	



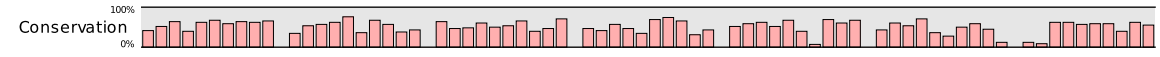
	3,160	3,180	3,200	3,220				
Stu-rnd-1_family-417_LINE_RTE	GAGAGGTTGG	CTATAGTGGG	TNCGAGGAGA	GGTAGAGGTA	GGCCGAAGA	AGTATTGGGG	AGAGGTGATT	153
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----AAGA	AGTATTGGGG	AGAGGTGATT	24
Stu-rnd-1_family-489_LINE_RTE	-----	-----	TAAGGAGA	GGTAGAGGTA	GGCCGAAGA	AGTATTGGG	AGAGGTGATT	46
Stu-rnd-1_family-607_LINE_RTE	TTATTTGCCT	TGGTGATGGA	TGAATTGACG	CGACATATTC	AAGANGAGG	TGTCGTGGT	TATGTTATTT	447
Stu-rnd-1_family-645_LINE_RTE	TTATTTGCCT	TGGTGATGGA	TGAATTGACG	CGACATATTC	AAGANGAGG	TGTCATGGT	TATGTTATTT	219
Sly-rnd4_family81-LINE/RTEBovB	TTATTTGCCT	TGGCGATGGA	TGAATTGACG	CGGCATATTC	AAGGCGAGG	TGCCATGGT	TATGTTATTT	294
Stu-rnd-6_family-408_LINE_RTE	TTGCGTTGCC	CAATNATA	-----	-----ATAC	AAGATGAGG	TCTCATGAT	CATGCTATTT	143
Stu-rnd-1_family-351_LINE_RTE	AGGAAT--GA	GGATATCCGG	GACAAGGTGG	GAGTGGCCTC	CGTGGTGG	CAAGATGAGG	GAGCGGAGAC	472
Stu-rnd-1_family-382_LINE_RTE	AGGAAT--GA	AGATATCCGG	GACAAGGTGG	GAGTGGCCTC	CGTGGTGG	CAAGATGAGG	GAGCGGAGAC	208
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----AGA	CAAGATGAGG	GAGCGGAGG	23
Stu-rnd-5_family-325_LINE_RTE	AGAAANATGA	TCACATTCCG	CAGAAGGTGC	AAGTAGCAGC	CATNGAGGA	TAAATGAGA	GAGGTGCGCT	91
Sly-rnd4_family509-LINE/RTEBov	AGAAAAC--GA	CCACGTTCCG	CAGAAGGTGC	AAGTAGCACA	CATCGAGGA	TAAATGAGA	GATGTGCGCT	285
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----ATCT	ACCGATCATG	CTTGCGAAA	TGAAATGGAC	CCGAATAGAG	43
BovB_GI-RTE-Gehyra_lazelli	AGAAA--CCTG	T-ATAAG--G	GTCAAGAAGC	AACAGTCC-G	AACCGGATA	TGGAAC-AAC	TG-ATTGGTT	2436
BovB_Gv-RTE-Gehyra_variegata	AGAAA--CCTG	T-ATAAG--G	GTCAAGAAGC	GACAGTCA-G	AACCGGATA	TGGAAC-AAC	TG-ATTGGTT	2365
BovB_PMo-RTE-Python_molurus	AGAAA--TCTG	T-ATGCG--G	GCCAAGAAGC	AACAGTTA-G	AACCGGTA	TGGAAC-AAC	CG-ATTGGTT	2297
BovB_Oa-RTE-Ovis_aries	AGAAA--CCTG	T-ATGCA--G	GTCAAGAAGC	AACAGTTA-G	AACCGGACA	TGGAAC-AAC	AG-ACTGGTT	2323
BovB-RTE-Bos_taurus	AGAAA--TCTG	T-ATGCA--G	GTCAGGAAGC	AACAGTTA-G	AACCTGGACA	TGGAAC-AAC	AG-ACTGGTT	2921
BovB_Me-RTE-Macropus_eugenii	AGGAA--CCTA	T-ATGTA--G	ATCAAGAAGC	AACAGTTA-G	AACCAAACA	TGGAAT-AAC	TG-ATTGGTT	1951
BovB_Ano-RTE-Amphibolurus_norr	AGAAA--CCTA	T-ATGTG--G	GACAAGAAGC	AACAGTTA-G	AACCTGGATA	TGGAAC-AAC	TG-ATTGGTT	2370
BovB_Gd-RTE-Eremiascincus_doug	AGAAA--CCTG	T-ATGCG--G	GTCAGGAAGC	AACAGTTA-G	AACCTGGACA	TGGAAC-AAC	CG-ACTGGTT	1958
BovB_Er-RTE-Eremiascincus_rich	AGAAA--CCTG	T-ATGCG--G	GTCAGGAAGC	AACAGTTA-G	AACCTGGACA	TGGAAC-AAC	CG-ACTGGTT	2493
BovB_Ca-RTE-Ctenotus_atlas	AGAAA--CCTG	T-ATGTG--G	GCCAAGAAGC	AACAGTTA-G	AACCTGGACA	TGGAAC-AAC	TG-ATTGGTT	2486
BovB_Es-RTE-Egernia_stokesii	AGAAA--TCTG	T-ATGCG--G	GTCAAGAAGC	AACCGTTA-G	AACCAGATA	TGGAAC-AAC	TG-ATTGGTT	2321
BovB_Tr-RTE-Tiliqua_rugosa	AGAAA--CCTG	C-ATGAA--A	GTCAGAAGC	AACAGTTA-G	AACCAGATA	TGGAACCAAA	TA-ATTGGTT	2329
BovB_ALi-RTE-Amblyomma_limbatu	AGAAA--CCTA	T-ATGCA--G	GTCAAGAGGC	AACAGTGA-G	AACCTGGACA	TGGAAC-AAC	TG-ATTGGTT	2500
BovB_Hs-RTE-Hydrophis_spiralis	AAAAAACCTA	T-ATGCG--G	GTCAGAAGC	AACAGTGA-C	AACCTAGACA	TGGAAC-CAC	TG-ATTGGTT	702
BovB_VA-RTE-Vipera_ammodytes	AGAAA--CCTA	T-ATGCG--G	GCCAAGAAGC	AACAGTGA-G	AACCTGGACA	CGGAAC-CAC	TG-ATTGGTT	2291
BovB_ACo-RTE-Agkistrodon_conto	AGAAA--CCTA	T-ATGCG--G	GTCAGAAGC	AACAGTGA-G	AACCTGGACA	CGGAAC-CAC	TG-ATTGGTT	2291
BovB_Pg-RTE-Perameles_gunnii	AGGAA--TCTG	TTACATG--G	ACCAAGAAAT	AACAGTTA-A	AATTGAACA	TGGAAC-AGC	TG-ATAGATT	454
BovB_Io-RTE-Isodon_obesulus	AGGAA--CTTG	T-ATGTG--G	GCCAAGAAGC	AATAGTTA-A	AACCTGAATA	TGGAAC-AAC	TA-ATTGGAT	890
BovB_Bp-RTE-Burramys_parvulus	AGGAA--CCTG	T-ATATGCCA	GCCAAGAAGC	AGCAGTTA-G	AACCAAACA	TGGAAC-AAT	TG-ATTGGTT	991
BovB_Pb-RTE-Petaurus_breviceps	AGGAA--CCTG	T-ATGTG--G	GGCAAGAAGC	AACAGTTA-G	AACCAAACA	TGGAAC-AAC	TG-ATTGGTT	1058
BovB_Ma-RTE-Macropus_antilopin	AGGAA--CCTG	T-ATGTG--G	GCCAAGAAGC	AACAGTTA-G	AACCTGAACA	TGGAAC-AAC	TG-ATTGGTT	2405
BovB_Af-RTE-Antechinus_flavipe	AGGAA--CATG	A-ATGTG--G	ATCAAGAAGT	AA-AGATA-C	AACCTAAACA	TGCAAC-AAC	TA-ATTGCTT	1609
BovB_Ac-RTE-Anolis_carolinensi	AGAAA--TCTG	T-ATAAA--G	ACCAAGTAGC	CACAATAA-G	AACAGACCA	CGGAAC-AAC	AG-ACTGGTT	2266
BovB_BM-RTE-Bombyx_mori	CCAATCCCTT	T-ACAT--G	GCAGTCAGGG	CACGTAA-G	GGTCGACTA	CACATA-GTC	AA-ACCGTTT	2137
BovB_Dr-RTE-Christinus	ACAACTCACTC	T-ATAAG--A	ATCAAAGGC	CACGGTCA-G	GACAGCATT	TGGCAA-CAC	TG-ACTGGTT	2157
BovB_La-RTE-Loxodonta_africana	GAGGAACCTG	T-ACATA--G	ATCAAGAGGC	AGTCGTTG	AACAGAACA	AGGGGA-TAC	TG-AGTGGTT	2284
BovB_Pc-RTE-Procavia_capensis	AAGGAATCTG	T-ATATG--G	ATCAAGAGGC	AGTCGTTG	AACAGAACA	AGGGGA-CAC	TG-CATGGTT	2286
BovB_Et-RTE-Christinus	GCA-AACTTG	T-ACATG--G	ATCAAGAGAC	AGTGGTGG-G	AATAGAACA	AAGGAA-TAC	TG-AACAGCT	2060
BovB-Ta-RTE-Tachyglossus_acule	ATGGAACCTG	T-ATGCC--A	AACAGGAGGC	TACAATAA-G	AACAGAATA	TGGAGA-AAC	AG-ATTGGTT	2426
BovB_Plat-RTE-Ornithorhynchus	ACGGAACCTG	T-ATGAC--G	AACAGGAGGC	TACAATAA-G	AACAGAATA	TGGAGA-AAC	AG-ATTGGTT	2415
BovB_Ec-RTE-Equus_caballus	GCGTAACCTG	T-ATTGT--G	GACAAGAAGC	CACGTGCA-G	GACAGAATA	TGGAGA-GAC	AG-AATGGTT	2185
BovB_Cg-RTE-Christinus	GCACAACCTA	T-ACTCT--G	GACAAGAAGC	TACTGTGA-G	GACAGAATA	TGGAGA-AAC	AG-AATGGTT	1706
BovB_Bh-RTE-Bothriocroton_hydr	AGGAATCCCT	TAGAAG--A	ATGGAGTAGC	CTTCATAGT	AACAAGAGAG	TGAAAACAG	AGTACTGGCG	739
BovB_MI-RTE-Gehyra_variegata	-----CATT	TTACATC--	-CAGCAAGT	TATACTTG-A	AATTTTACTT	CAGCAA----	TATGTGAATT	797
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-
Sly-rnd5_family2019-LINE/RTEBo	TTGTTTCGCTT	GTG-CTTC-G	GTTATCGCAT	TATT-TTGT	GTTGTTACTG	TTCCTT--AA	TTAGTTG-CT	275
Sly-rnd3_family322-LINE/RTEBov	TTGTAT-CTT	GTA-GTTT-G	ATTATTGTAT	TATT-TCGTA	GT-ATTGTTA	TGCTAT--TA	TTGCTA-TA	404
Sly-rnd5_family1698-LINE/RTEBo	ATGTTT---	-TG-ATG-T	GTTATTGTTT	CTTTCTCGTA	GACTTTAC	TGCTTT--TC	TTATTAAC	91
Sly-rnd1_family795-LINE/RTEBov	GAGATTCCTT	ACATATTG-T	GTTCTTGT	ATTTTCTACA	GA-TTCTTG	TGTAGT--AG	TCAATTTGATG	330
Stu-rnd-5_family-3162_LINE_RTE	GAGGAGGAGA	AGC--GGAC	GNNTAAGGAA	GTCTATAAGA	CGGCGAAGC	GGAGCGAAG	TT-AGCGGTT	2004
Sly-rnd6_family1960-LINE/RTEBo	GAGGAAGCGA	AGC--GGAC	GNNTAAGGAA	GTCTATATGG	TGGCGAAA	-GAGCGAAG	TT-AGCGGTT	1191
Stu-rnd-5_family-2493_LINE_RTE	ATGGAGTGGC	TGACTGGGTT	GTTTAAATGTC	ATTTTAAAGA	CGGCGAAAAT	--GCCGGAAG	---AATGG--	133
Sly-rnd5_family447-LINE/RTEBov	ATGGAGTGGT	TGACTGGGTT	GTTTAAATGTC	ATTTTAAAGA	CGGCGAAAAT	--GCCGGAAG	---AATGG--	312
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-
Consensus	AGNAA--CCTG	T-ATGTG--G	GTCAAGAAGC	AACAGTTA-G	AACCGAACA	TGGAAC-AAC	TG-ATTGGTT	

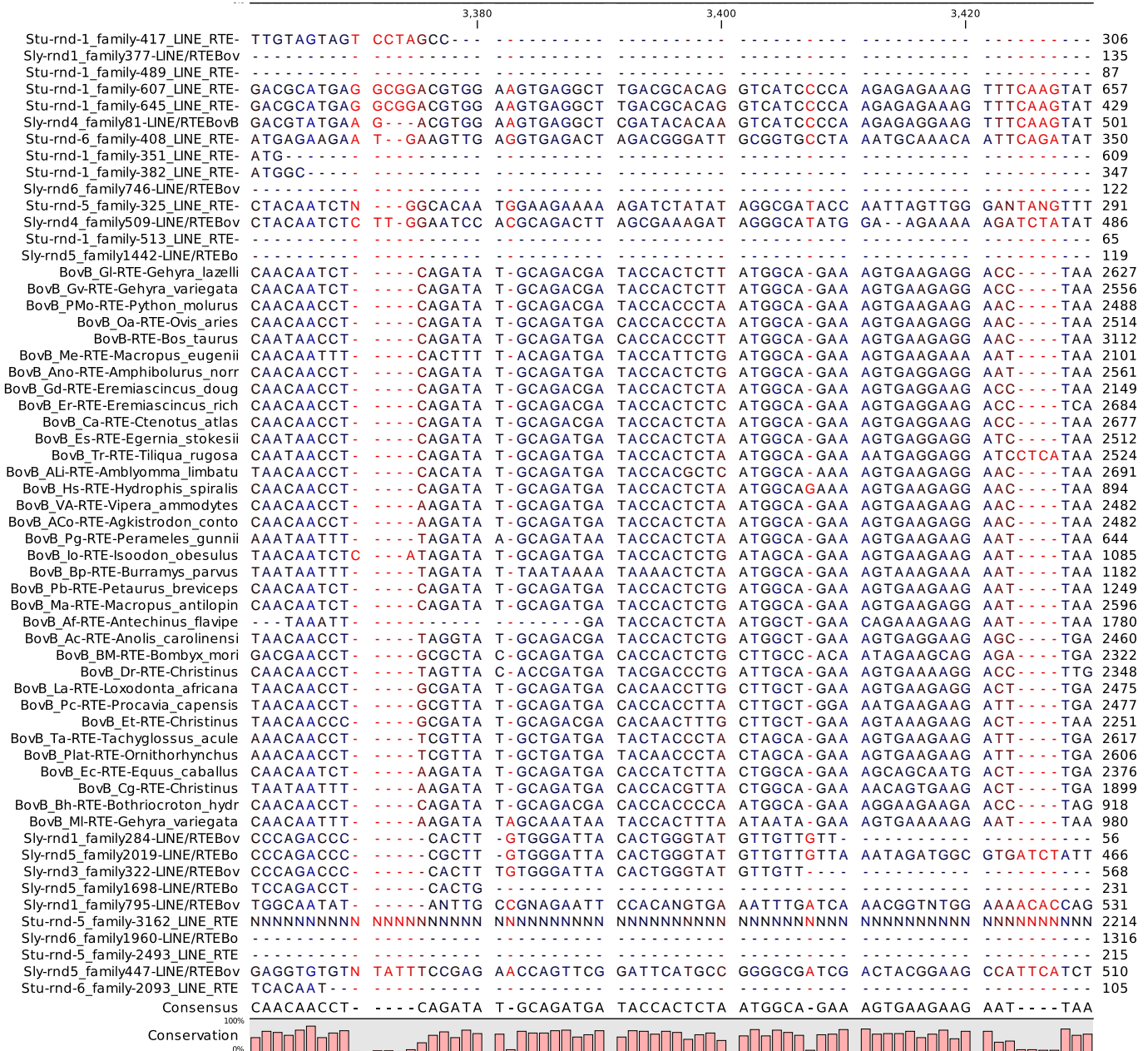


	3,240	3,260	3,280					
Stu-rnd-1_family-417_LINE_RTE	AGACAGGACA	TGACGCANCT	TCA - - - -GCT	TACCGAGGAC	ATGACCCTAG	ATAGGAAGGT	GTGGAGGTCG	219
Sly-rnd1_family377-LINE/RTEBov	AGACANGACA	TGACGCANCT	TCA - - - -GCT	TACCGAGGAC	ATGACCCTAG	ATAGGAGGGT	GTGGAGGTCG	90
Stu-rnd-1_family-489_LINE_RTE	AGACAGGACA	TGACGCANCT	TCA - - - -GCT	TACCGAGGAC	ATGAC - - - -	- - - - -	- - - - -	87
Stu-rnd-1_family-607_LINE_RTE	GCGGATGACA	TAGTACTGAT	TGACGAGACG	CGCGACGGAG	TAAACGCTAG	GTTGGAGGTT	TGGAGACAAA	517
Stu-rnd-1_family-645_LINE_RTE	GCGGATGACA	TAGTACTGAT	TGACGAGACG	CGCGACGGAG	TAAACGCTAG	GTTGGAGGTT	TGGAGACAAA	289
Sly-rnd4_family81-LINE/RTEBovB	GCGAATGACA	TAGT TCTGAT	TGACGAGACT	CGCGACGGAG	TAAACGCTAG	GTCGGAGGTT	TGGAGACAAA	364
Stu-rnd-6_family-408_LINE_RTE	CGACATNATA	TTANGTTAAT	TGACGAAACT	AGCGAGGGAG	TGCACCAAAA	GCTCGAACTA	TGGAGAANCA	213
Stu-rnd-1_family-351_LINE_RTE	TGAGATGGTT	CGGACATG - -	TGAAGAGGAG	ATGCGC - -GG	ACGCCCCAGT	GAGGAGGTGC	GAGAGGTTGG	538
Stu-rnd-1_family-382_LINE_RTE	TGAGATGGTT	CGGACATG - -	TGAAGAGGAG	ATGCGC - -GG	ACGCCCCAGT	GAGGAGGTGC	GAGAGGTTGG	274
Sly-rnd6_family746-LINE/RTEBov	TGAGATGGTT	CGGACATG - -	TGAAGAGGAG	ATGCGC - -AG	ATGCCCCAGT	GAGGAGGTGT	GAGAGGTTGG	89
Stu-rnd-5_family-325_LINE_RTE	TGAGATGGTT	TGGTCATG - -	TCCTGCGTCC	ACCTCC - -AG	ATGCACCGT	CCGTAGGTGT	GA AACCATGG	157
Sly-rnd4_family509-LINE/RTEBov	TGAGATGGTT	TGGTCATG - -	TCCTGCGTCC	ACCTCC - -AG	ATGCACCGGT	CCGTAGGTGT	GA AACCATGG	351
Stu-rnd-1_family-513_LINE_RTE	- - AAATGGAA	TAGTGAGGAT	TCATATAGCC	GACCCC - -AA	CTTGTTTGGG	ATTGAGGCGT	AGTTG - TTGT	65
Sly-rnd5_family1442-LINE/RTEBo	CGGAATGGA -	TACAGAGGAT	TCATATAGCC	GACCCC - -AA	CTAATTTGGG	ATTGAGGTGT	AGTTGATTGA	110
BovB_GI-RTE-Gehyra_lazelli	TAGCATAG - G	AAAAGGAGTA	CGACAAGGAT	GTATAT - -T	GTACCCCTGC	TTATTTAATT	TATATGCAGA	2502
BovB_Gv-RTE-Gehyra_variegata	TAGCATAG - G	AAAAGGAGTA	CGACAAGGAT	GTATAT - -T	GTACCCCTGC	TTATTTAATT	TATATGCAGA	2431
BovB_PMo-RTE-Python_molurus	CAAAATAG - G	GAAAGGAGTA	CGACAAGGCT	GTATAC - -T	GTACCCCTGC	TTATTTAACC	TATATGCAGA	2363
BovB_Oa-RTE-Ovis_aries	CAAAATAG - G	GAAAGGAGTA	CGACAAGGCT	GTATAT - -T	GTACCCCTGC	TTATTTAACC	TATATGCAGA	2389
BovB-RTE-Bos_taurus	CCAAATAG - G	AAAAGGAGTA	CGTCAAGGCT	GTATAT - -T	GTACCCCTGC	TTATTTAACC	TATATGCAGA	2987
BovB_Me-RTE-Macropus_eugenii	TAAACAT - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- TATTTAACC	TATATGCCGA	1976
BovB_Ano-RTE-Amphibolurus_norr	CAAAATTTG - G	GAAAGGAGTA	CGACAAGGCT	GTATAT - -T	GTCCCCCAGC	TTATTTAACC	TATATGCAGA	2436
BovB_Gd-RTE-Eremiascincus_doug	TCAAATTTG - G	GAAAGGAGTA	CGACAAGGCT	GTATAC - -T	GTACCCCTGC	TTATTTAACC	TATATGCAGA	2024
BovB_Er-RTE-Eremiascincus_rich	TCAAATTTG - G	GAAAGGAGTA	CGACAAGGCT	GTATAC - -T	GTACCCCTGC	TTATTTAACC	TATATGCAGA	2559
BovB_Ca-RTE-Ctenotus_atlas	TCAAATTTG - G	GAAAGGAGTA	CGACAAGGCT	GTATAC - -T	GTACCCCTGC	TTATTTAACC	TATATGCAGA	2552
BovB_Es-RTE-Egernia_stokesii	TAAAATTTG - G	GAAAGGAGTA	TGACAAGGCT	GTATAT - -T	GTACCCCTGC	TTATTTAACC	TATATGCAGA	2387
BovB_Tr-RTE-Tiliqua_rugosa	TAAAATTTG - G	GAAAGGAGTA	CAACAAGACT	GCAAAAT - -T	GTACCCCTGC	TTATTTAACC	TATATGCAGA	2395
BovB_ALI-RTE-Amblyomma_limbata	CGAAATTTG - C	GAAAGAAGTT	CGGCAAGGCT	GTATAC - -T	GTGCCCCCTC	CTATTTAATT	TATATGCAGA	2566
BovB_Hs-RTE-Hydrophis_spiralis	CAAAATTTG - G	GAAAGGAGTT	TGGCAAGGCT	GAATAC - -T	GTGCCCCCTC	CTATTTAACC	TATATGCAGA	768
BovB_VA-RTE-Vipera_ammodytes	CAAAATTTG - G	GAAAGGAGTC	CGGCAAGGCT	GTATAC - -T	GTTGCCCTGC	CTATTTAACC	TATATGCAGA	2357
BovB_ACo-RTE-Agkistrodon_conto	CAAAATTTG - G	GAAAGGAGTC	CGGCAAGGCT	GTATTC - -T	GTGCCCCCTC	CTATTTAACC	TATATGCAGA	2357
BovB_Pg-RTE-Perameles_gunnii	TAAAGATTG - G	AAAAGGAATA	TGCCAAGGCT	ATATAT - -G	GTCTCTTAT	TTATTTAATT	TATATGCAAA	520
BovB_lo-RTE-Isodon_obesulus	AAAGATTGTA	AAAAGGAGTA	TGACAAGGCT	GCATAT - -T	ATCACCATTAT	TTATTTAACC	TATATGCAGA	957
BovB_Bp-RTE-Burramys_parvulus	TAAAGATTG - G	AAAAGGAGTA	TGACAAGGCT	GTATAT - -T	GTACCCCTAT	TTATTTAACC	TATATGCAGA	1057
BovB_Pb-RTE-Petaurus_breviceps	TAAAGATTG - G	AAAAGGAGTA	CGACAAGGCT	GTATAT - -T	GTACCCCTAT	TTATTTAACC	TATATGCAGA	1124
BovB_Ma-RTE-Macropus_antilopin	TAAAGATTG - G	AAAAGGAGTA	TGACAAGGCT	GTATAT - -T	GTACCCCTAT	TTATTTAACC	TATATGCAGA	2471
BovB_Af-RTE-Antechinus_flavipe	TCTGATTGGA	AAAAGATTA	TGATCATATT	GTATGC - -T	TCTCTTTAT	TTAGTTAATT	TATATGTAGA	1676
BovB_Ac-RTE-Anolis_carolinensi	CAAGATTG - G	GAAAGGAGTA	CGGCAAGGCT	CCATACCTA	TTCACCCTAC	CTATTTAACC	TATATGCAGA	2335
BovB_BM-RTE-Bombyx_mori	TAAAT - TCAG	AAGAGGAGTT	CGCCAGGGGT	GTATTC - -T	GTACCCCTAT	CTATTTAACC	TATACGGCGA	2203
BovB_Dr-RTE-Christinus	TGGGA - TTGA	GAAAGGTGTT	TGACAAGGAT	GCATTT - -T	ATGCCCCTACC	CTGTTCAATC	TGTATGCTGA	2223
BovB_La-RTE-Loxodonta_africana	TAAAG - TCAG	GAAAGGTGTE	CATCAGGGTT	GTATCC - -T	TTCACCATAC	CTATCCAATC	TGTATGCTGA	2350
BovB_Pc-RTE-Procavia_capensis	TAAAG - TCAG	GAAAGGTGTE	TGTCAGGGTT	GTATCC - -T	TTCACCATAC	CTTTTTAATC	TGTATGCCAA	2352
BovB_Et-RTE-Christinus	TAAAA - TCAG	AAAAGGTGGG	CGGCAAGGTT	GTATCC - -T	ATCACCACAT	TTATTTAATA	AATAGGCAGA	2126
BovB_Ta-RTE-Tachyglossus_acule	TCCCA - TTAG	TAAAGGTGTA	AGACAAGGAT	GTATCT - -T	ATGCCCCTAT	CTGTTTCATC	TTTACACCGA	2492
BovB_Plat-RTE-Ornithorhynchus	TCCCA - TTAG	TAAAGGTGTA	AGACAAGGAT	GTATCT - -T	ATGCCCCTAT	CTGTTTCATC	TTTACACCGA	2481
BovB_Ec-RTE-Equus_caballus	TCCTA - TAGG	CAAAGGTGTC	AGACAAGGTT	GCATTT - -T	ATCTCCCTAT	CTGTTTAAATC	TGTATGCAGA	2251
BovB_Cg-RTE-Christinus	TTCCAATTTGG	CAAAGGTGTC	AGACAAGGAT	GTATTT - -T	ATCTCCCTAT	CTGTTTAAATC	TATATGCAGA	1773
BovB_Bh-RTE-Bothriocroton_hydr	TATAACCTCA	AAAAATGGCA	-GATTGATTT	CAATACAGG	CCAAGGCAAA	CCCTTCAACG	GCCAC - - - A	804
BovB_MI-RTE-Gehyra_variegata	CAGATTTACC	AAAA - - - - -	-GATAGGACT	GTTTTTCAA	GTAGGCAGA -	-NAACAAGA	GACCAAAATTA	858
Sly-rnd1_family284-LINE/RTEBov	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-
Sly-rnd5_family2019-LINE/RTEBo	GTGTTTTCTT	- - - TACGTTG	TNTTCCGTT	T - - CGT - -AG	CTGNITTCGAT	TTGTTTTACT	CGAGCCGAGG	338
Sly-rnd3_family322-LINE/RTEBov	TGTTGCTTCA	- - - TNTACTT	CTATTACTTT	T - - CTT - -NC	ATGATTTGTT	TCGTT - - - CT	TGAGCCGAGG	464
Sly-rnd5_family1698-LINE/RTEBo	CTATGCTTTC	- - - TTCATTG	TTTTT - - - T	T - - CTT - -CT	TTTACTTGAT	TTGATGCAT	TGAGCCGAGG	150
Sly-rnd1_family795-LINE/RTEBov	TCATGCCTCC	GGATGAACAA	AGACTACGTT	TACCTT - -CT	CCTGATCGAC	TTAGCA - ACC	TNCCATTCA	397
Stu-rnd-5_family-3162_LINE_RTE	ACGACGGCNA	AGACGGCAGC	TTTTCAACGC	TTGTATGTCG	AGCTGGANNN	NNNNNNNNNN	NNNNNNNNNN	2074
Sly-rnd6_family1960-LINE/RTEBo	ACGACGGCNA	AAACGACAGC	TTTTGAGCGC	TTGTACGAGG	AGCTAGGGAG	CAAAGGCCGG	GATANGAAGT	1261
Stu-rnd-5_family-2493_LINE_RTE	AGGTGGAGTA	CAATGA - - - -	TTCCG - - - -	TTGTACAAGA	AC - - - AAGGG	TGACATCAA	AATTGCAACA	191
Sly-rnd5_family447-LINE/RTEBov	AGGTGGAGTA	CAATGA - - - -	TTCCG - - - -	TTGTACAAGA	AC - - - AAGGG	TGATATTCC	AATTGCAACA	370
Stu-rnd-6_family-2093_LINE_RTE	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	GTGAGCTTGC	TCACATTGCC	30
Consensus	TAAAATTTG - G	GAAAGGAGTA	TGACAAGGCT	GTATAC - - - T	GTACCCCTAC	TTATTTAACC	TATATGCAGA	



	3,300	3,320	3,340	3,360				
Stu-rnd-1_family-417_LINE_RTE	CGNATTAGGG	TAGAAGGTTA	GTAGGTAGTC	GAGTGTGTG	TTTCCTTGG	AGGGTATGGG	TTGTTAGCGT	289
Sly-rnd1_family377-LINE/RTEBov	CGGATTAGGG	TAGAAGGTTA	GTAGGTAGTC	GAGTGTGTG	TTGTT-----	-----	-----	135
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	87
Stu-rnd-1_family-607_LINE_RTE	CCCTGGAGTC	TAAAGGGTTC	AGGTTGAGCA	GGACCAAGAC	AGAATAATTG	GAGTGCAAGT	TCAGTGACGC	587
Stu-rnd-1_family-645_LINE_RTE	CCCTGGAGTC	TAAAGGGTTC	AGGTTGAGCA	GGACCAAGAC	GAATAATTG	GAGTGCAAGT	TCAGTGACGC	359
Sly-rnd4_family81-LINE/RTEBovB	CTCTGGAGTC	TAAAGGGTTC	AGGTTGAGCA	GGACCAAGAC	AAAGTACTTG	GAGTGTAAT	TCAGTGACGC	434
Stu-rnd-6_family-408_LINE_RTE	CTCTAGAGAG	TAAAGGGTTT	AGGATAAGTA	GAAGTAAGAC	CGAATACATG	CATTGCGAGT	TTAGTCA-GC	282
Stu-rnd-1_family-351_LINE_RTE	CTATAGTGGG	TNCGAGGAGA	GGTAGAGGTA	GGCCGAAGAA	GTATTGGGGA	GAGGTGATTA	--GACAGGAC	606
Stu-rnd-1_family-382_LINE_RTE	CTATAGTGGG	TNCGAGGAGA	GGTAGAGGTA	GGCCGAAGAA	GTATTGGGGA	GAGGTGATTA	--GACAGGAC	342
Sly-rnd6_family746-LINE/RTEBov	CTATAGCGGG	TNTNAGGAGA	GGTAGAGGTA	GAC-----	-----	-----	-----	122
Stu-rnd-5_family-325_LINE_RTE	TGAGTGAAGG	TGTTAAAAGG	G-ACGAGGTA	GACCTAAAAT	CACATGGAAG	GAAGTTGTCT	--CGAAAGAC	224
Sly-rnd4_family509-LINE/RTEBov	TGAGTGAAGG	TGTTAAAAGG	GGACGAGGTA	GACCTAAAAT	CACATGGAAG	GAGGTGTCT	--CGAAAGAC	419
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	65
Sly-rnd5_family1442-LINE/RTEBo	TTGATACCT-	-----	-----	-----	-----	-----	-----	119
BovB_GI-RTE-Gehyra_lazelli	GTACATCATG	CGAAATGCCG	GCCTGGACGA	ATCACAAGCT	GGAATT-AAG	ATCGCTGGG-	--AAAAACAT	2568
BovB_Gv-RTE-Gehyra_variegata	GTACATCATG	CGAAATGCCG	GCCTGGACGA	ATCACAAGCT	GGAATT-AAG	ATCGCTGGG-	--AAAAACAT	2497
BovB_PMo-RTE-Python_molurus	GTACATCATG	AGAAATGCCA	GGCTGGAAGA	ATCACAAGCC	GGAATT-AAG	ATTGCAAGG-	--AGAATCAT	2429
BovB_Oa-RTE-Ovis_aries	GTACATCATG	AGAAATGCTG	GGCTGGATGA	AGCACAAGCT	GGAATC-AAG	ATTGCCAGG-	--AGAAATAT	2455
BovB-RTE-Bos_taurus	GTACATCATG	AGAAACGCTG	GGCTGGAAGA	AACACAAGCT	GGAATC-AAG	ATTGCCGGG-	--AGAAATAT	3053
BovB_Me-RTE-Macropus_eugenii	GTATGTCTAG	TGAAATGCCA	GACTGAGTGA	ATCAAAGCC	AAAATT-AAG	GTTGGTGGG-	--AGAAATAT	2042
BovB_Ano-RTE-Amphibolurus_norr	ATACATCATG	CGGAAGGCTG	GGCTGGATGA	ATCACAAGCC	GGAATT-AAG	ATTGCCGGA-	--AGAAATAT	2502
BovB_Gd-RTE-Eremiascincus_doug	GTACATCATG	AGAAAGGCTG	GGCTGGATGA	TTCAACAAGT	GGAATC-AAG	ATTGCTGGG-	--AGAAATAT	2090
BovB_Er-RTE-Eremiascincus_rich	GTACATCATG	AGAAAGGCTG	GGCTGGATGA	TTCAACAAGT	GGAATC-AAG	ATTGCTGGG-	--AGAAATAT	2625
BovB_Ca-RTE-Ctenotus_atlas	GTACATCATG	AGAAAGGCTG	GGCTGGATGA	TTCAACAAGT	GGAATC-AAG	ATTGCTGGG-	--AGAAATAT	2618
BovB_Es-RTE-Egernia_stokesii	GTACATCATG	CGAAAGGCTG	GGCTGGATGA	ATCACAAGCT	GGAGTT-AAG	ATCGCCAGG-	--AGAAATAT	2453
BovB_Tr-RTE-Tiliqua_rugosa	GTACATCATG	CAAAAGGCTA	GGCTGGATGA	ATCACAAGCT	GGAATT-AAG	ATAGCCAGG-	--AGAAATAT	2461
BovB_ALi-RTE-Amblyomma_limbatu	ACACATCATG	AGAAAGGCGG	GGCTAGATGA	ATCACCTGTC	GGAATT-AAG	ATCGATGGG-	--AGAAATAT	2632
BovB_Hs-RTE-Hydrophis_spiralis	GCACATCATG	AGAAAGGCGG	GGCTAGATGA	ATCAAAGTT	GGAATT-AAG	ATTGCCGGG-	--AGAAATAT	834
BovB_VA-RTE-Vipera_ammodytes	GCACATCATG	AGAAAGGCGG	GGCTAGATGA	ATCAAAGTT	GGAATT-AAG	ATTGCTGGA-	--AGAAATAT	2423
BovB_ACo-RTE-Agkistrodon_conto	GCACATCATG	AGAAAGGCGG	GGCTAGATGA	ATCAAAGTT	GGAATT-AAG	ATTGCCGGG-	--AGAAATAT	2423
BovB_Pg-RTE-Perameles_gunnii	A-ATATCATG	TGAAATACCA	GGCTGGACAA	ATCAAAGCT	AGAAAT-AAG	GTTGCCAGG-	--AGAAAAAA	585
BovB_Io-RTE-Isodon_obesulus	GTACATCATA	TGAAATATCA	GACTGGATGA	ATCAAAGCT	GGAATTTAAG	GTTGACGGG-	--AGAAATAT	1024
BovB_Bp-RTE-Burramys_parvulus	GTACATCATG	TGAAATGCCA	GGCTGGATGA	ATCAAAGCC	AGAATT-AAG	GTTGCTAGT-	--ACAAATAA	1123
BovB_Pb-RTE-Petaurus_breviceps	GTACATCATG	TGAAATGCCA	GGCTGGATGA	ATCAAAGCC	AGAATT-AAG	GTTGCCAGG-	--AGAAATAT	1190
BovB_Ma-RTE-Macropus_antilopin	GTACATCATG	TGAAATGCCA	GGCTGGATGA	ATCAAAGCT	GGAATT-AAG	GTTGCCAGG-	--AGAAATAT	2537
BovB_Af-RTE-Antechinus_flavipe	ACAAGTTATG	AAAAATGACT	GACTGGATGA	AACAAAAAGC	TGAAATCAAG	TTTTTCAGG-	--AG-----	1737
BovB_Ac-RTE-Anolis_carolinensi	ACACATCATG	CGCATGCGAG	GGCTTGACGA	ATCCAAGCC	AGAGTT-AAA	ATTGCTGGA-	--AGAAACAT	2401
BovB_BM-RTE-Bombyx_mori	ATACATCATG	CGCAAGACC-	-CTAGAAAA	CTGG--GAT	GGAGGC-ATA	ACTATAGGT	--GACGAAGT	2263
BovB_Dr-RTE-Christinus	AGTGGTCTAG	AGGCTATCCA	ATCTGGACGA	GTCACCAATC	GGAGTT-AAG	ATCGGCCGG-	--AGAAACAT	2289
BovB_La-RTE-Loxodonta_africana	GCAAATAATC	CGAGAAGCTG	GACTATATGA	AGAAGAACGG	GGCATC-AGG	ATTGGAGGA-	--AGACTCAT	2416
BovB_Pc-RTE-Procavia_capensis	GCAAATAATC	CGAGAAGCTG	GATTATATGA	AGAAGAACGA	GGCATC-AGG	ATTGGAGGA-	--TGACTCAT	2418
BovB_Et-RTE-Christinus	GCAAATCATC	AGAAAAGCTG	AATTACATAA	AGAAGAAGAT	GACATC-AGG	ATTGGAGGA-	--AGGCTTAT	2192
BovB-Ta-RTE-Tachyglossus_acule	ATACATAATG	AGAGAAGCCG	GATTGGATGA	AGACAAACGG	GGAGTA-AAG	ATTGGAGGA-	--AGGAATAT	2558
BovB_Plat-RTE-Ornithorhynchus	ATACCTAATG	AGAGAAGCCG	GATTGGATGA	AGACGAACGG	GGAGTA-AAG	ATTGGAGGA-	--AGGAATAT	2547
BovB_Ec-RTE-Equus_caballus	ACATATCATA	CAAAAATCTG	GGCTAGACTG	AGATGAAGGA	GGAGTG-AAA	ATTGGTGGG-	--AGAAATAT	2317
BovB_Cg-RTE-Christinus	ACATATCATA	AGAAAAGCTG	GATTGATTT	AGATGAAGGT	GGAGTG-AAA	ATTGGTGGG-	--AGGAAAAA	1840
BovB_Bh-RTE-Bothriocroton_hydr	GTAGTCCAAG	CCTACGCCCC	AACCAC-TAA	TGCTGAAGAC	GAAG---AA	GTTGGCCGG-	-----T	859
BovB_MI-RTE-Gehyra_variegata	GTACATCATG	AAAAATGCCA	AGCT---GA	ATCAAAGCT	ATTATT-AAA	GTTGTTGGG-	--AGAAATAT	920
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----TACA	CTCTACCCCT	14
Sly-rnd5_family2019-LINE/RTEBo	GTCTATCGGA	AACAGCCTCT	CTA---CCTC	CG--CGAGGT	AGGGGTAAGG	TCTGCGTACA	CTCTACCCCT	403
Sly-rnd3_family322-LINE/RTEBov	GTCTATCAGA	AACAACCTCT	CTA---CCTT	T---CAAGGT	AGGGGTAAGG	TCTGCGTACA	CNCTACCCCT	528
Sly-rnd5_family1698-LINE/RTEBo	ATCTTTCGAA	AATAATCTTT	CTA---ATTC	TACACGAGAT	AATGATAAAA	TTTGCCTACA	TTTTATCTTC	217
Sly-rnd1_family795-LINE/RTEBov	TTTAATCGAT	GACATTCTAA	GTAGGTTGTC	TTTTCGAGAT	GTTGTAAGAA	CTGATACACT	TTCGAAGGAC	467
Stu-rnd-5_family-3162_LINE_RTE	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	2144
Sly-rnd6_family1960-LINE/RTEBo	TGTACAGGCT	AGCCAAGGCG	AGAGAGAGAC	GGCTCGNGAC	CTGGACCAAG	TGAAG-----	-----	1316
Stu-rnd-5_family-2493_LINE_RTE	ACTATAGGGG	TATCAAGCTG	CTAA-----	-----	-----	-----	-----	215
Sly-rnd5_family447-LINE/RTEBov	ACTATAGGGG	TATCAAGCTG	TTAAGTCACA	CTATGAAAGT	TTGGGAGAGG	GTGGTGGAGA	TGAGGGTGAG	440
Stu-rnd-6_family-2093_LINE_RTE	CCGGATAAAG	GAGGAGGGTT	CGGTTAGCTG	GACAGCCANC	GTAAAACTAG	TCAATTCATG	--ATGAATCC	98
Consensus	GTACATCATG	AGAAAGGCTG	GGCTGGATGA	ATCACAAGCT	GGAATT-AAG	ATTGCNNGG-	--AGAAATAT	

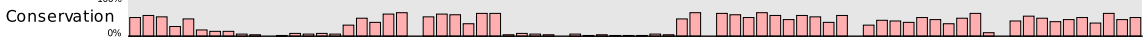




	3,440	3,460	3,480	3,500				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	306			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	135			
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	87			
Stu-rnd-1_family-607_LINE_RTE	CTTGGG---T	CTATAAT---	-----	-----	671			
Stu-rnd-1_family-645_LINE_RTE	CTTGGG---T	C-----	-----	-----	437			
Sly-rnd4_family81-LINE/RTEBovB	CTTGGG---T	CTATGATCCA	AGGAAATGGG	GAGATCGACG	ATGATGTAC	ACATCGTATT	GGTGGGGGT	568
Stu-rnd-6_family-408_LINE_RTE	CTAGGC---T	CGTTGTTTCA	AGAGAATGGA	ATGATAGATG	AAGATG---	-----	-----	393
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	609			
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	347			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	122			
Stu-rnd-5_family-325_LINE_RTE	TAGTCATGTT	AGTACGTTTA	CTTTAGGTC	TATGCTTCT	AGGAGTCTTT	TAGTCCTGTC	AGAGATTTNT	361
Sly-rnd4_family509-LINE/RTEBov	AGGCGATACC	TACTAGTTGG	GAATANGTT	TAGTCATGTT	AGAGAACTTC	TAATATTGTT	----ACTGTT	552
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	65			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	119			
BovB_GI-RTE-Gehyra_lazelli	AGGGC----C	TCCTGCTGAG	GGTGAAGG-A	GGAGAGCGCA	AAAGTTGG-C	TT-GAAACTC	AA-----	2682
BovB_Gv-RTE-Gehyra_variegata	AGAGC----C	TCCTGCTGAG	GGTGAAGG-A	GGAGAGCGCA	AAAGTTGG-C	TT-GAAACTC	AA-----	2611
BovB_PMo-RTE-Python_molurus	AGAGC----C	TCTTGATGAG	GGTGAAGG-A	GGAGAGTGCA	AAAGCTGG-C	TT-GAAACTC	AA-----	2543
BovB_Oa-RTE-Ovis_aries	AGAGC----C	TCTTGATGAA	AGTGAAGG-A	GGAGAGTGAA	AAAGCTGG-C	TT-GAAACTC	AA-----	2569
BovB-RTE-Bos_taurus	AAAGC----C	TCTTGATGAA	AGTGAAGG-T	GGAGAGTGAA	AAAGTTGG-C	TT-AAAGCTC	AA-----	3167
BovB_Me-RTE-Macropus_eugenii	GAAGC----C	TCTTGA----	AG-C	GG-----	AAAGCTGG-C	TT-AAAGCTT	AA-----	2138
BovB_Ano-RTE-Amphibolurus_norr	AGAAC----C	TTGTAATGAG	GGTGAAGG-A	GGAGAGTGCA	AAAAACGG-T	CT-GAAACTC	AA-----	2616
BovB_Gd-RTE-Eremiascincus_doug	AGAAC----C	TTCTGATGAG	GGTGAAGG-A	GGAAAGTGCC	AAAAATTGGC	TT-GAAGCTC	AA-----	2205
BovB_Er-RTE-Eremiascincus_rich	AGAAC----C	TTCTGATGAG	GGTGAAGG-A	GGAAAGTGCC	AAAAATTGG-C	TT-GAAGCTC	AA-----	2739
BovB_Ca-RTE-Ctenotus_atlas	AGAAC----C	TTCTGATGAG	GGTGAAGG-A	GGAAAGCGCC	AAAAATTGG-C	TT-GAAGCTC	AA-----	2732
BovB_Es-RTE-Egernia_stokesii	AGAAC----C	TCTTGATGAG	GGTGAAGG-A	GGAAAGTGCA	AAATGTGG-C	TT-GAAACTT	AA-----	2567
BovB_Tr-RTE-Tiliqua_rugosa	AGAAC----C	TCTTGATGAG	GGTGAAGG-A	GGAAAGTGCA	AAATGTGG-C	TT-GAAACTT	AA-----	2579
BovB_ALI-RTE-Amblyomma_limbatu	AGAGC----C	TCTTGATGCG	GGTGAAGGGA	GGAGAGTGCA	GAAGTTGACC	T-GAAACTC	AA-----	2747
BovB_Hs-RTE-Hydrophis_spiralis	AGAGC----C	TCTTGATGAT	GGTGAAGA-A	GGAGAGTGAA	AAAGTTGGCT	TAAGAACTC	AA-----	951
BovB_VA-RTE-Vipera_ammodytes	AGAGC----C	TCTTGTGGC	GGTGAAGA-A	GGAGAGTGCA	AAACTTGGGT	T-GAAACTT	AA-----	2537
BovB_ACo-RTE-Agkistrodon_conto	AGAGC----C	TCTTGATGCG	GGTGAAGA-A	GGAGAGTGCA	AAAGTTGGCT	T-GAAACTC	AA-----	2537
BovB_Er-RTE-Perameles_gunnii	GAAGT----C	TCTTCATAAG	AGTTAAAG-A	AGAGAATTTA	AAA--CATA	AT-TAAACTT	AA--AAATT	703
BovB_Io-RTE-Isodon_obesulus	GAAGT----C	TCTTGATGAN	GGTGAAGG-A	GGAAGTGTA	AAAGTTGTAC	TT-AAAGTTT	AACATAAAAT	1149
BovB_Bp-RTE-Burramys_parvulus	GAAGC----C	TCTTGATGAA	AGTGAAGG-A	GGAGAGTGTA	AAAGCTGGCT	TG-AAGACTT	AA-----	1238
BovB_Pb-RTE-Petaurus_breviceps	GAAGC----C	TCTTGATGAG	GGTGAAGG-A	GGAGAGTGTA	AAAGCTGGCT	TG-AAG-CTT	AA-----	1304
BovB_Ma-RTE-Macropus_antilopin	GAAGC----C	TCTTGATGAG	GGTGAAGG-A	GGAGAGTGTA	AAAGCTGGCT	TG-AAG-CTT	AA-----	2651
BovB_Af-RTE-Antechinus_flavipe	AAAAA AAAC	TCCTGATGAG	TGTGACAG-A	GGAGAGTATA	AAAA-TAAT	TT-CAAGTTT	AA-----	1839
BovB_Ac-RTE-Anolis_carolinensi	GGAGC----C	CTATCACCAA	GGTGAAGG-A	AGAAAGTGCA	AAAGCCGGC	T-GCAGTTA	AA-----	2515
BovB_BM-RTE-Bombyx_mori	CAGAG----C	TTCTGAACAG	GATGAGC-A	CATAGGGTTG	GAGATGGGAC	TC-GCCCTC	AA-----	2377
BovB_Dr-RTE-Christinus	AATAT----C	TGGTCCGAAG	AGTAAAG-A	AGAAAGTGAA	CACATGGGAC	TG-TACCTC	AA-----	2403
BovB_La-RTE-Loxodonta_africana	AGCAC----T	TACTGATGAA	GATCAAAG-A	CCACAGCCTT	CAGTATGGAT	TA-CACCTC	AA-----	2530
BovB_Pc-RTE-Procavia_capensis	AACAC----T	TACTGATGAA	GATCAAAG-A	CCACAGCCTT	CAGTATGGAT	TG-CACCTC	AA-----	2532
BovB_Et-RTE-Christinus	AGAAC----T	TGCTGATGAA	GATCAAAGG-A	CTGCAGCCTT	CAGTCTGGAT	TA-CAAATC	AA-----	2306
BovB-Ta-RTE-Tachyglossus_acule	AGGGC----T	TATTATTTAA	AGTTAAGG-A	ACAGAGCAAA	AAGATGGGCC	TA-TATTTG	AA-----	2672
BovB_Plat-RTE-Ornithorhynchus	AGGGC----T	TATTATTTAA	AGTTAAGG-A	ACAGAGCAAA	AAGATGGGCC	TA-CATTTG	AA-----	2661
BovB_Ec-RTE-Equus_caballus	AACAA----C	TTCTGATGAA	AGTGAAGG-A	AGAAAGTGCC	AAAGCAGGAC	TG-CATTTG	AA-----	2431
BovB_Cg-RTE-Christinus	AACAA----C	TACTGATGAA	GGTAAAGG-C	AGAAAGTGCC	AAAGCAGGAC	TA-CATTTG	AT-----	1954
BovB_Bh-RTE-Bothriocroton_hydr	AGAAC----C	TTATGATGAG	GGTGAAGG-A	GGAAGGGCC	AAAATTGGTT	TG-AAGATC	AA-----	973
BovB_MI-RTE-Gehyra_variegata	GAAGC----T	TTTTAATAAG	AATCAAAT-A	ACACAGTGTA	AAAATTGATT	TA-AATTTT	AATATAAAAC	1043
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	56			
Sly-rnd5_family2019-LINE/RTEBo	GTGGC ATCTA	G-----	-----	-----	477			
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	568			
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	231			
Sly-rnd1_family795-LINE/RTEBov	AGGACTT---	-----	-----	-----	538			
Stu-rnd-5_family-3162_LINE_RTE	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NGGCATCACA	ATATTAATGT	2284
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	1316
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	215
Sly-rnd5_family447-LINE/RTEBov	CGTAA GGAGA	CTGGTGGAGN	AGTATAG GGGA	GAGAAGAGGA	ACTTACACAT	GGTG-----	-----	564
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	105
Consensus	AGAGC----C	TCTTGATGAG	GGTGAAGG-A	GGA-AGTG-A	AAA--TGG-C	T---AA-CT-	AA-----	



	3,520		3,540		3,560				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----	306			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	135			
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	87			
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----	671			
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----	437			
Sly-rnd4_family81-LINE/RTEBovB	GGATGAAATG	GAGGCTCGCA	TCCGGCGTCT	TGTGTGATAA	GAAGGTGCCG	CCGAAACTTA	AAGGTAAGTT	638	
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----	393			
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----	609			
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----	347			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	122			
Stu-rnd-5_family-325_LINE_RTE	ATGCCAGTAG	AAAATATAGA	GAACCTCTAG	TAC-TTTTTA	TTTTTATTTT	GTATAATATT	GGCCTGAGAT	430	
Sly-rnd4_family509-LINE/RTEBov	ATNTTTTTTAC	A---CGTGTT	GAACCTATTT	TTCACITTTA	TTTTTATTTT	GTATAATATT	GGCNTGAGAT	619	
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	65			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	119			
BovB_GI-RTE-Gehyra_lazelli	CATCA-----	-----AAAA	AACATA-----	-----GA	TCATGGCATC	CAGCCCCAT	TACTCCTTGG	2728	
BovB_Gv-RTE-Gehyra_variegata	CATCA-----	-----AAAA	AACATA-----	-----GA	TCATGGCATC	CAGCCCCAT	TACTCCTTGG	2657	
BovB_PMo-RTE-Python_molurus	CATTA-----	-----AAAA	AACATA-----	-----GA	TCATGGCATC	TGGACCCAT	CAATTCCTGG	2589	
BovB_Oa-RTE-Ovis_aries	CATTA-----	-----AAAA	AACATA-----	-----GA	TCATGGCATC	TGGTCCCAT	CACCTCATGG	2625	
BovB-RTE-Bos_taurus	CATT-----	-----CAGAA	AACGAA-----	-----GA	TCATGGCATC	CGGTCCCAT	CACCTCATGG	3213	
BovB_Me-RTE-Macropus_eugenii	CATTA-----	-----AAAA	CCTTAA-----	-----AA	TCACAACAAC	TGGTCCCAT	CATTTCCTGG	2185	
BovB_Ano-RTE-Amphibolurus_norr	CATC-----	-----AAAA	AACATA-----	-----GA	TCATGGCCAC	GGGTCCCAT	CACCTCATGG	2662	
BovB_Gd-RTE-Eremiascincus_doug	CATTA-----	-----AAAA	AACATA-----	-----GA	TCATGGCCAC	CACCTCCAT	CACCTCCTGG	2252	
BovB_Er-RTE-Eremiascincus_rich	CATTA-----	-----AAAA	AACATA-----	-----GA	TCATGGCAAC	CACCTCCAT	CACCTCCTGG	2786	
BovB_Ca-RTE-Ctenotus_atlas	CATTA-----	-----AAAA	A-CTAA-----	-----GA	TCATGGCAAC	CACCTCCAT	CACCTCCTGG	2778	
BovB_Es-RTE-Egernia_stokesii	CATTA-----	-----AAAA	A-CTAA-----	-----GA	TCATGGCATC	CGGTCCCAT	CACCTCATGG	2613	
BovB_Tr-RTE-Tiliqua_rugosa	CATTA-----	-----AAAA	AACATA-----	-----GA	TCATGGCATC	CGGTCCCAT	CACCTCATGG	2626	
BovB_ALi-RTE-Amblyomma_limbatu	CATTA-----	-----AGAA	AACATA-----	-----GA	TCATGGCATC	CAGTCCCTC	CACCTCCTGG	2793	
BovB_Hs-RTE-Hydrophis_spiralis	CATTA-----	-----AGAA	AACATA-----	-----GA	TCATGGCATC	TGGCCCTCT	CAATTCCTGG	997	
BovB_VA-RTE-Vipera_ammodytes	CATTA-----	-----AAAA	AACCAA-----	-----GA	TCATGGCATC	CAACCCCTC	CAATTCCTGG	2583	
BovB_ACo-RTE-Agkistrodon_conto	CATTA-----	-----AGAA	AACCAA-----	-----GA	TCATGGCATC	CGGCCTCTC	CAATTCCTGG	2583	
BovB_Pg-RTE-Perameles_gunnii	TAAAAAAACG	TAAAATTA	AACAAA-----	-----AA	TCTTGGCAAC	TGGTCCCAT	CACCTCCTGG	760	
BovB_lo-RTE-Isodon_obesulus	TACAAAAACA	-ACAATTACA	AATAAAACA	TCCTAATA	GA	TCTTGGCAAC	TGGTCTAAT	CACCTCCTAG	1218
BovB_Bp-RTE-Burramys_parvulus	CAAAAAAA--	-----AAC	CACATA-----	-----GA	TCTTGGCAAC	TGGTCTCAT	CACCTCCTGG	1286	
BovB_Pb-RTE-Petaurus_breviceps	CATCAAAA--	-----AAA	-ACTAA-----	-----GA	TCATGGCAAC	TGGTCCCAT	CACCTCCTGG	1351	
BovB_Ma-RTE-Macropus_antilopin	CATAAAAA--	-----AA	AACATA-----	-----GA	TCTTGGCAAC	TGGTCCCAT	CACCTCCTGG	2698	
BovB_Af-RTE-Antechinus_flavipe	CATCAAAAC-	-----AAA	AACAAACTAA	-----GA	TCATAGCAAT	TGATCCCAT	AATTTTCTGG	1892	
BovB_Ac-RTE-Anolis_carolinensi	CATCA-----	-----AGAA	AACCAA-----	-----GA	CCATGGCAAC	CACACCCAC	TGATAACTGG	2561	
BovB_BM-RTE-Bombyx_mori	CAG-A-----	-----TCCAA	AACATA-----	-----AA	TCATGGTGT	TGATCGCA	CAAAAAAGTTG	2423	
BovB_Dr-RTE-Christinus	CATCA-----	-----AAAA	AACGAA-----	-----GG	TAATGACAGT	AGCATGCAGT	GGTACAGTCC	2451	
BovB_La-RTE-Loxodonta_africana	CAT-A-----	-----AAGAA	AACAAA-----	-----AA	TCCTCACAAC	TGGACCAAT	AGCAACATCA	2577	
BovB_Pc-RTE-Procavia_capensis	CAT-C-----	-----AAGAA	AACAAA-----	-----AA	TCCTCACAAC	TGGACCAAT	AGCAACATTTG	2579	
BovB_Et-RTE-Christinus	TGC-A-----	-----AACAA	GACCAA-----	-----AA	GCCTCACAAC	TGGACCAAT	GGTAAACATCA	2353	
BovB_Ta-RTE-Tachyglossus_acule	TGT-C-----	-----AAGAA	AACAAA-----	-----GA	TCATGACAAC	TGGAAATTTT	AACACATTTG	2719	
BovB_Plat-RTE-Ornithorhynchus	TGT-C-----	-----AAGAA	AACAAA-----	-----GA	TCATGACAAC	TGGAAATTTT	AACACATTTG	2708	
BovB_Ec-RTE-Equus_caballus	CAT-C-----	-----AAGAA	GACAAA-----	-----AA	TCATGACTAC	AGAAGAACTA	CACAACTTTA	2478	
BovB_Cg-RTE-Christinus	CAT-C-----	-----AAGAA	GACAAA-----	-----AG	TCATGAATAC	AGAAAAATTA	CACAACTTAA	2001	
BovB_Bh-RTE-Bothriocroton_hydr	CATAA-----	-----AAAA	AACATA-----	-----GA	TCATGGCAAC	CACCTCCAGT	CACCTCCTGG	1019	
BovB_MI-RTE-Gehyra_variegata	AACAGCCCCC	CAAAAAAAA	AATTA-----	-----GA	TTATGTAAAC	TAATTTTAT	CACCTTCTGA	1100	
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	56		
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	477		
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	568		
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	231		
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	538		
Stu-rnd-5_family-3162_LINE_RTE	TGTGTATTGA	GGTTGCGCCG	AGGAGGTTAT	ACGGGCTATT	AGTAGGATGA	GCAGGGGAAG	AGCGACCGGA	2354	
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	1316		
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	215		
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	564		
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	105		
Consensus	CAT-A-----	-----AAAA	AAC-AA-----	-----GA	TCATGGCAAC	-GGTCC-AT-	CACCTCCTGG		



	3,580	3,600	3,620	3,640	
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	306
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	135
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	87
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	671
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	437
Sly-rnd4_family81-LINE/RTEBovB	CTATAGAGTG GTGGTTAGAC	CGACTATGTT	GTATGGGGCG	GAGTGTGGC CAGTCAAGAA CTCNCACGTT	708
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	393
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	609
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	347
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	122
Stu-rnd-5_family-325_LINE_RTE	GAGCTTAAAT GGAGAA	-----	-----	-----	446
Sly-rnd4_family509-LINE/RTEBov	GAGCTTAAAT GGAGCGACAT	GGTCAGTGAG	GATTCATATA	GCCGACCCCA ACTTGTTTGG GACTGAGGCG	689
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	65
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	119
BovB_GI-RTE-Gehyra_lazelli	C-AAAT-----TGATGGGGAG	GTCATGGAAA	CCGTGACAGA	CTTCACGTT -CCTAGGATC	CAA-AATCAC 2790
BovB_Gv-RTE-Gehyra_variegata	C-AAAT-----TGA CGGGGAG	GTCATGGAAA	CCGTGACAGA	CTTCACGTT -CCTAGGATC	CAA-AATCAC 2719
BovB_PMo-RTE-Python_molurus	C-AAAT-----AGAAGGGGTA	GAAATGGAAG	CAGTAACAGA	CTTCATTTA -TTTGGGCTC	CAA-GATCAC 2651
BovB_Oa-RTE-Ovis_aries	C-AAAT-----AGATGGGGAA	AAAAATGGA	CAGTGACAGA	CTTTATTTT -CTTGGGCTC	CAA-AATCAC 2687
BovB-RTE-Bos_taurus	G-AAAT-----AGATGGGGAA	ACAGTGGAAA	CAGTGTGAGA	CTTTATTTT -TCTGGGCTC	CAA-AATCAC 3275
BovB_Me-RTE-Macropus_eugenii	C-AAAT-----AGAAGGGAGAA	GAAATGGAAG	CAATGTGATA	TTTTGTATT -CTTGGGCTC	AAA-GATCAG 2247
BovB_Ano-RTE-Amphibolurus_norr	G-AAAT-----AGAAGGGGAA	GACATGGAGG	CAGTGACAGA	TTTTATTTT -CCTGGGCTC	CAT-GATCAC 2724
BovB_Gd-RTE-Eremiascincus_doug	C-AAAT-----AGAAGGGGAA	GAAATGGAAG	CAGTGACAGA	GTTTATTTT -CCTGGGCTC	CAA-GATCAC 2314
BovB_Er-RTE-Eremiascincus_rich	C-AAAT-----AGAAGGGGAA	GAAATGGAAG	CAGTGACAGA	GTTTATTTT -CCTGGGCTC	CAA-GATCAC 2848
BovB_Ca-RTE-Ctenotus_atlas	C-AAAT-----AGAAGGGGAA	GAAATGGAAG	CAGTGACAGA	CTTTATTTT -CCTGGGCTC	CAA-GATCAC 2840
BovB_Es-RTE-Egernia_stokesii	C-AAAT-----AGAAGGGGAA	GAAATGGAAG	CCGTGACAGA	GTTTATCTT -CTTGGGCTC	CAA-GATCAC 2675
BovB_Tr-RTE-Tiliqua_rugosa	C-AAAT-----AGAAGGGGAA	GAAATGGAAG	CTGTGACAGA	GTTTATCTT -CTTGGGCTC	CAA-GATCAC 2688
BovB_ALi-RTE-Amblyomma_limbatu	C-AAAT-----AGATGGGGAA	TAAATAGAGG	TAGTGACAGA	TTTTATTTTG TCTTTGGCTC	CAA-GATCAT 2857
BovB_Hs-RTE-Hydrophis_spiralis	C-AAAT-----AGATGGGGAA	GAAATAGAGG	TAGTGACAGA	TTTTATTTT -CCTGGGCTC	CAA-GATCAC 1059
BovB_VA-RTE-Vipera_ammodytes	C-AAAT-----AGATGGGGAA	GAAATGGAGG	TAGTGACAGA	TTTTATTTT -TCTGGGCTC	CAA-GATCAC 2645
BovB_ACo-RTE-Agkistrodon_conto	C-AAAT-----AGATGGGGAA	GAAATGGAGG	TAGTGACAGA	TTTTATCTT -CCTGGGCTC	CAA-GATCAC 2645
BovB_Pg-RTE-Perameles_gunnii	A-AAAT-----TGAGAGAAA	AACATGGAAA	CAGTGTGAGA	TTTTATA -T TCTTAGGCTC	AAA-GATCAC 822
BovB_lo-RTE-Isodon_obesulus	GCAAA-----AGA AAGAGAA	GAAATGGAAG	CAGTGTGAGA	TTTTATAAA TCTTAGACTC	AAA-GATCAC 1283
BovB_Bp-RTE-Burramys_parvulus	C-AAAT-----AGAAGGGAGAA	GAAATGGAAG	CAGTGTGAGA	TTTTATA -T TCTTAGACTC	AAA-AATCAA 1348
BovB_Ac-RTE-Anolis_carolinensi	C-AAAT-----AGAAGGGAGAA	GAAATGGAAG	CAGTGTGAGA	TTTTATA -T TCTTAGACTC	AAA-GATCAC 1413
BovB_Ma-RTE-Macropus_antilopin	C-AAAT-----AGAAGGGAGAA	GAAATGGAAG	CAGTGTGAGA	TTTTATA -T TCTTAGACTC	AAA-GATCAC 2760
BovB_Af-RTE-Antechinus_flavipe	C-AAAT-----AAAAGGAAA	TAAATGTAAG	CAGTATGAGA	TTTTATA -T TCTTAGACTC	AAA-GATCAC 1954
BovB_Ac-RTE-Anolis_carolinensi	C-AAAT-----AGAAGGGAGAA	AACGTGGAGG	CAGTGACAGA	CTTTATATT -CTAGGCATC	AAA-GATCAC 2623
BovB_BM-RTE-Bombyx_mori	GAGCTTAGTG GAACACTAA	-ACCTTGAGC	TTGTTGACAA	CTTTATTTA -CCTAGGCTC	CAA-CATTA 2488
BovB_Dr-RTE-Christinus	ACATAACAAT TGACAATGAG	GAAATCGAAT	CAGTCCAAGA	CTTCATCTT -ACTTGGATC	CAA-GATCGA 2518
BovB_La-RTE-Loxodonta_africana	TGAT-----AAACGGAGAA	AAGATTGAAG	TTGTCAAGGA	TTTCATTTT -ACTTGGAGC	CAC-AATCAA 2638
BovB_Pc-RTE-Procavia_capensis	TCAT-----AAATGGAGAA	AGGATTGAGG	TTGTCAAGGA	TTTCATTTT -ACTTGGGTC	CAC-AATCAA 2640
BovB_Et-RTE-Christinus	CGAT-----AAATGGAGAA	AAGGTTGAAA	TGGTCAAGAA	TTTTGCCTT -GCTTAGATC	CAC-AATCAA 2414
BovB-Ta-RTE-Tachyglossus_acule	TAGT-----GGATGGAGAG	AAGATTGAAA	TAGTTGACAA	TTTTTCTCT -CCTGGGATC	GAT-AATCAA 2780
BovB_Plat-RTE-Ornithorhynchus	TAGT-----GGACGGAGAG	AAGATTGAAA	TAGTTGACAA	TTTTTCTCT -CCTGGGATC	GAT-AATCAA 2769
BovB_Ec-RTE-Equus_caballus	ACAT-----AGACAATGAA	GACATTGAAA	TTGTTAAAGA	TTTTGTTTA -CCTTGGTTC	AGT-CATCAA 2539
BovB_Cg-RTE-Christinus	ACAT-----AGATAAAGAA	GAAATGGAAG	TTGTTCAAAA	TTTTCTATA -CCTAGGCTC	CAC-TATCAA 2062
BovB_Bh-RTE-Bothriocroton_hydr	C-AAAT-----AGAATGGGAA	GAAATGGAAG	CAGTGACATA	ATTTAACTT -CTTGGGCTC	CAA-GATCAC 1081
BovB_MI-RTE-Gehyra_variegata	TAAATA-----GAAGTAGAAG	AAGATAGGAG	AAATATAAAA	TTTTATATT -ATTAGGTTT	AAACAATCAC 1164
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	56
Sly-rnd5_family2019-LINE/RTEBov	-----	-----	-----	-----	477
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	568
Sly-rnd5_family1698-LINE/RTEBov	-----	-----	-----	-----	231
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	538
Stu-rnd-5_family-3162_LINE_RTE	CCCGACGAGA TCCCGGTGGA	ATTTTGGAA	AGCACGGACA	AGGCAGGNT GGAGTGGTTG ACTGGTTGT	2424
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	1316
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	215
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	564
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	105
Consensus	C-AAAT-----AGA-GG-GAA	GAAATGGAAG	CAGTGACAGA	-TTTAT-T--C-TGGGCTC	CAA-GATCAC



	3,720	3,740	3,760	3,780				
Stu-rnd-1_family417_LINE_RTE	-----	-----	-----	-----	306			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	135			
Stu-rnd-1_family489_LINE_RTE	-----	-----	-----	-----	87			
Stu-rnd-1_family607_LINE_RTE	-----	-----	-----	-----	671			
Stu-rnd-1_family645_LINE_RTE	-----	-----	-----	-----	437			
Sly-rnd4_family81-LINE/RTEBovB	GG AACGAAGA	TATT CGGGAC	AAGGTGGGAG	TGGCCTCCGT	GGCGGACAAG	ATGAGGAAGC	GAGGTTGAGA	848
Stu-rnd-6_family408_LINE_RTE	-----	-----	-----	-----	393			
Stu-rnd-1_family351_LINE_RTE	-----	-----	-----	-----	609			
Stu-rnd-1_family382_LINE_RTE	-----	-----	-----	-----	347			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	122			
Stu-rnd-5_family325_LINE_RTE	-----	-----	-----	-----	446			
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	743			
Stu-rnd-1_family513_LINE_RTE	-----	-----	-----	-----	65			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	119			
BovB_GI-RTE-Gehyra_lazelli	GGGAGGAAA	GCGATGGCAA	AACCTCAACA	GCATAATAAA	-----AA	GTAGGGACAT	C-ACCCTGCC	2897
BovB_Gv-RTE-Gehyra_variegata	GGGAGGAAA	GCGATGGCAA	A-CCTCAACA	GCATAATAAA	-----AA	GTAGGGACAT	C-ACCCTGCC	2824
BovB_PMo-RTE-Python_molurus	GGGAGGAAA	GCTATGGCAA	A-CCTAGACA	GCATATATAA	-----AA	GCAGAGACAT	C-ACCCTGCC	2756
BovB_Oa-RTE-Ovis_aries	GGGAGGAAA	GCTATGACCA	A-CCTAGACA	GCATATATAA	-----AA	GCAGAGACAT	T-ACCTTGCC	2792
BovB-RTE-Bos_taurus	GGGAGGAAA	GTTATGACCA	A-CCTAGATA	GCATATATAA	-----AA	GCAGAGACAT	T-ACCTTGCC	3380
BovB_Me-RTE-Macropus_eugenii	GGGAGGAAAG	--TATAGCAA	A-TTTTGACA	GCGTACTAAA	-----AA	GCAGAGACAT	C-ACCCTGCC	2350
BovB_Ano-RTE-Amphibolurus_norr	GGGAGGAAA	GCGATGGCAA	A-TCTTGACA	GCATCTTAAA	-----AA	GCAGAGACAT	C-ACCCTGCC	2829
BovB_Gd-RTE-Eremiascincus_doug	GGGAGGAAA	GCTATGGCGA	A-TCTAGACA	ACTTAATGAA	-----AA	GCCGAGACAT	C-ACCCTGCC	2419
BovB_Er-RTE-Eremiascincus_rich	GGGAGGAAA	GCTATGGCGA	A-CCTAGACA	ACTTAATAAA	-----AA	GCCGAGACAT	C-ACCCTGCC	2953
BovB_Ca-RTE-Ctenotus_atlas	GGGAGGAAA	GCTATGGCGA	A-CCTAGACA	ACTTAATAAA	-----AA	GCCGAGACAT	C-ACCCTGCC	2945
BovB_Es-RTE-Egernia_stokesii	GGGAGGAAA	GCTATGGTAA	G-CCTAGACA	ACTTAATATA	-----AA	GCCGAGACAT	C-ACCCTGCC	2780
BovB_Tr-RTE-Tiliqua_rugosa	GGGAGGAAA	GCTATGGTAA	G-CCTAGACA	ACTTAATGAA	-----AA	GCCGAGACAT	C-ACCCTGCC	2793
BovB_ALi-RTE-Amblyomma_limbatu	GCGGAGGAAA	TCTATGGCAA	A-TTAAATA	GCATATAATA	-----AA	GCAGGGACAT	C-ACCCTGCC	2962
BovB_Hs-RTE-Hydrophis_spiralis	GGGAGGAAA	GCTATGGCAA	A-TCTAGACA	GCATATAATA	-----AA	GCAGAGACAT	C-ACCCTGCC	1167
BovB_VA-RTE-Vipera_ammodytes	CAGGAGGAAA	GCCATGGCAA	A-TCTAGACA	GCACACTAAA	-----AA	GCAGAGACAT	C-ACCCTGCC	2750
BovB_ACo-RTE-Agkistrodon_conto	GGGAGGAAA	GCTATGGCAA	A-TCTAGACA	GCATATAATA	-----AA	GCAGAGACAT	C-ACCCTGCC	2749
BovB_Pg-RTE-Perameles_gunnii	GGGAGGAAA	ACTATGGCAA	A-TCTGGACA	GCATATAATA	-----AA	GCAGAGACAT	C-ACCCTGCC	929
BovB_Io-RTE-Isodon_obesulus	GGGAGGAAA	GCAATGGCAA	A-TCTGGACA	ACACACTAAA	-----AA	GCAGAAACAT	T-AACTTGCT	1390
BovB_Bp-RTE-Burramys_parvulus	GGGAGGAAA	ACTATGGCAA	A-TCAGGACA	GCATATAATA	-----AA	GCAGAGACAT	C-ACCCTGCC	1474
BovB_Pb-RTE-Petaurus_breviceps	GGGAGGAAA	GCTATGGCAA	A-TCTAGACA	GCATATAATA	-----AA	GCAGAGATAT	A-ACCCTGCC	1519
BovB_Ma-RTE-Macropus_antilopin	GGGAGGAAA	GCTATGGCAA	A-TCTGGACA	GCATATAATA	-----AA	GCAGAGACAT	C-ACCCTGCC	2865
BovB_Af-RTE-Antechinus_flavipe	AAAAGAAAA	GCTATGGCAA	A-TATGAACA	GCATATAATA	-----AA	GCAGAAACAT	C-ATCTTTT	2059
BovB_Ac-RTE-Anolis_carolinensi	GGGAGGAAA	GCAATGGCCA	A-CCTCGACA	AAATAGTGAA	-----AA	GCAAGACAT	C-ACACTGGC	2728
BovB_BM-RTE-Bombyx_mori	GA---AGTA	-CAGCTC---	---GGTAA	AA-TCTGGAA	-----GG	ACCATAACT	T-ACCCAGAA	2557
BovB_Dr-RTE-Christinus	GGCCGCAGTG	-CAATGCAAG	G-AATGGTGA	AGGTATGGAA	-----AA	GCAAGGCAT	C-AGCATTGT	2623
BovB_La-RTE-Loxodonta_africana	GGCAAATCTG	-CTGCAAAAG	A-ACTCTTCA	AAGTGTGAA	-----AA	GCAAGACAT	C-ACCCTGAA	2743
BovB_Pc-RTE-Procavia_capensis	GGAAAACTCTG	-CTGCAAAAG	A-TCTCTTTA	AAGTATGAA	-----AA	GTAAGATGT	C-ACCCTGAA	2745
BovB_Et-RTE-Christinus	GGTAAATCCA	-CCACACACG	G-TCTCGTTA	GAGTACTGAA	-----AA	G---GATCT	T-ACCTCGAG	2514
BovB-Ta-RTE-Tachyglossus_acule	GGGAGGAACTTG	-CTATGAAGA	G-CCTGGAAA	AAGTCAATGAA	-----AT	GTGCTGATGT	A-ACAATTGC	2885
BovB_Plat-RTE-Ornithorhynchus	GGGAGGAACTTG	-CTATGAAGA	G-CCTGGAAA	AAGTCAATGAA	-----AT	GTGCTGATGT	A-ACAATTGC	2874
BovB_Ec-RTE-Equus_caballus	AGAAGGGCAG	-CAATGAAAAG	A-ATTAGGAA	AGATCATCAA	-----GT	GTAAGGAAAT	G-TCAATTGA	2644
BovB_Cg-RTE-Christinus	GGGAGGGCAG	GCAATGAAAA	A-CCTAGAAA	AGATCTGAA	-----GT	GTAAGGATGT	G-TCCGCTCA	2168
BovB_Bh-RTE-Bothriocroton_hydr	GGGAGAAAA	GCTATGGCGA	A-CCTAGAAA	ACTTAATAAA	CTTAATAAA	GTGAGACAT	C-ACCCTGCC	1194
BovB_MI-RTE-Gehyra_variegata	GGGAGGAAA	GCTATGGCAA	A-TCTGGACA	ATATATAAAC	-----AA	GCAATGATAT	C-ATCATGCT	1270
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	56			
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	477			
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	568			
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	231			
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	538			
Stu-rnd-5_family3162_LINE_RTE	GAACAAGGGT	GATATCCAAA	ATTGCAACAA	CTATAGGGGT	ATCAAGTTGT	TAA	-----	2547
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	1316
Stu-rnd-5_family2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	215
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	564
Stu-rnd-6_family2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	105
Consensus	GG-AGGAAA-	-CTATGGCAA	A--CT-GACA	-C-TA-T-AA	-----AA-	GCA--GACAT	C-ACC-TG--	



	3,800			3,820			3,840		
Stu-rnd-1_family417_LINE_RTE	---	---	---	---	---	---	---	306	
Sly-rnd1_family377-LINE/RTEBov	---	---	---	---	---	---	---	135	
Stu-rnd-1_family489_LINE_RTE	---	---	---	---	---	---	---	87	
Stu-rnd-1_family607_LINE_RTE	---	---	---	---	---	---	---	671	
Stu-rnd-1_family645_LINE_RTE	---	---	---	---	---	---	---	437	
Sly-rnd4_family81-LINE/RTEBovB	TGGTTCGGAC	TCC---	---	---	---	---	---	861	
Stu-rnd-6_family408_LINE_RTE	---	---	---	---	---	---	---	393	
Stu-rnd-1_family351_LINE_RTE	---	---	---	---	---	---	---	609	
Stu-rnd-1_family382_LINE_RTE	---	---	---	---	---	---	---	347	
Sly-rnd6_family746-LINE/RTEBov	---	---	---	---	---	---	---	122	
Stu-rnd-5_family325_LINE_RTE	---	---	---	---	---	---	---	446	
Sly-rnd4_family509-LINE/RTEBov	---	---	---	---	---	---	---	743	
Stu-rnd-1_family513_LINE_RTE	---	---	---	---	---	---	---	65	
Sly-rnd5_family1442-LINE/RTEBo	---	---	---	---	---	---	---	119	
BovB_GI-RTE-Gehyra_lazelli	--- AACAAAA	GT --- CCGT	ATGGTCAAAG	CAATGGTC	---	---	TTCC	CAGTAGTGAT	2942
BovB_Gv-RTE-Gehyra_variegata	--- AACAAAA	GT --- TCGT	ATGGTCAAAG	CAATGGTC	---	---	TTCC	CAGTAGTGAT	2869
BovB_PMo-RTE-Python_molurus	--- GACAAAG	AT --- CCGC	ATAATCAAAG	CTATGGTT	---	---	TTTC	CAGTAGTAAT	2801
BovB_Oa-RTE-Ovis_aries	--- AACAAAG	GT --- CCAT	ATAGTCAAAG	CTATGGTT	---	---	TTTC	CAGTAGTCAT	2837
BovB-RTE-Bos_taurus	--- AACAAAG	GT --- CCGT	CTAGTCAAGG	CTATGGTT	---	---	TTTC	CTGTGGTCAT	3425
BovB_Me-RTE-Macropus_eugenii	--- AACAAAT	GT --- ACAT	ATAGTAAAAG	TGATGATC	---	---	TTTC	TAGTAGACAC	2395
BovB_Ano-RTE-Amphibolurus_norr	--- AACAAAA	GT --- CCGA	ATAGTCAAAG	CTATGGTT	---	---	TTTC	CTGTAGTGAT	2874
BovB_Gd-RTE-Eremiascincus_doug	--- AACAAAG	GT --- TCGC	ATAGTCAAAG	CGATGGTT	---	---	TTCC	CAGTAGCAAT	2464
BovB_Er-RTE-Eremiascincus_rich	--- AACAAAG	GT --- TCGC	ATAGTCAAAG	CTATGGTT	---	---	TTCC	CAGTAGCAAT	2998
BovB_Ca-RTE-Ctenotus_atlas	--- AACAAAG	GT --- TCGC	ATAGTCAAAG	CTATGGTT	---	---	TTCC	CAGTAGCAAT	2990
BovB_Es-RTE-Egernia_stokesii	--- AACAAAG	GT --- CCGT	ATAGTCAAAG	CTATGGTT	---	---	TTCC	CAGTAGTAAT	2825
BovB_Tr-RTE-Tiliqua_rugosa	--- AACAAAG	GT --- CCGT	ATAGTCAAAG	CTATGGTT	---	---	TTCC	CAGTAGTAAT	2838
BovB_ALi-RTE-Amblyomma_limbatu	--- AAAAAAA	AT --- GCGT	ATAGTAAAGG	ATATGGTT	---	---	TTCC	AAGTTACAAT	3007
BovB_Hs-RTE-Hydrophis_spiralis	--- AACAAAA	GT --- GTGT	ATAGTCAAAG	CTATGGTT	---	---	TTCC	CAGTTGCAAT	1212
BovB_VA-RTE-Vipera_ammodytes	--- AACAAAA	GT --- CCGT	ATAGTCAAAG	CTATGGTC	---	---	TTCC	CAGTTGCAAT	2795
BovB_ACo-RTE-Agkistrodon_conto	--- AACAAAA	GT --- ACGT	ATAGTCAAAG	CCATGGTT	---	---	TTCC	CAGTTGCAAT	2794
BovB_Pg-RTE-Perameles_gunnii	--- AACAAAG	GT --- TCGT	ATAGTCAAAG	CTATGGTT	---	---	TTTC	TAGTAGCAAT	974
BovB_lo-RTE-Isodon_obesulus	--- GACAAAA	GT --- CTAT	ATAGTAAAAA	TTATAGTT	---	---	TTTT	CAGTAGCAAT	1435
BovB_Bp-RTE-Burramys_parvulus	--- GACAAAG	GT A --- CCAT	ATAGTCAAAG	CTATGGTTG	TTGTTTGT	TGTTT	TTTC	CAGTAGCAAT	1538
BovB_Pb-RTE-Petaurus_breviceps	--- AACAAAG	T --- CCAT	ATAATAAAAA	ACTATGGTT	---	---	TTTC	CAGTAGCAAT	1564
BovB_Ma-RTE-Macropus_antilopin	--- AACAAAG	GT --- CCAT	ATAGTCAAAG	CTATGGTT	---	---	TTTC	CAGTAGCAAT	2910
BovB_Af-RTE-Antechinus_flavipe	--- AACAAAA	GT --- CTAT	ATAGTCAAAG	CAGTATTT	---	---	TTTC	TAATAATAAT	2105
BovB_Ac-RTE-Anolis_carolinensi	--- AACAAAG	GT --- CCGC	ATAGTCAAAG	CAATGGTA	---	---	TTCC	CCATAATAAC	2773
BovB_BM-RTE-Bombyx_mori	--- AACAAAG	A --- CAAAA	CTGGTGCTCA	CTTTGGTC	---	---	TTTT	C-ATTTTTCT	2602
BovB_Dr-RTE-Christinus	--- AACAAAG	A --- TCAGA	ATAGTCAATG	CCATTGTT	---	---	TTCC	A-ATCTTTAT	2668
BovB_La-RTE-Loxodonta_africana	--- GACTAAA	GAAGGTGCAC	CTGACCCAAG	CCATGGT	---	---	TTTT	A-ATCACATC	2791
BovB_Pc-RTE-Procavia_capensis	--- GACTAAA	G --- TGCGC	CTGACCCAAG	CCATGGTA	---	---	TTTT	A-ATCGCATC	2790
BovB_Et-RTE-Christinus	--- AAATAAG	G --- TGCAC	CTGACCCAAG	CCATGGCA	---	---	TTTT	A-ATTGCTTC	2559
BovB-Ta-RTE-Tachyglossus_acule	--- CACAAAA	A --- TACAA	ATTGTCAATT	CTATGGTG	---	---	TTTT	A-GTGACAAT	2930
BovB_Plat-RTE-Ornithorhynchus	--- CACAAAA	A --- TACAA	ATTGTCAACT	CTATGGTG	---	---	TTTT	A-GTGACAAT	2919
BovB_Ec-RTE-Equus_caballus	--- GACTAAG	G --- CCAAG	ATTATCCACA	CCCTCGTA	---	---	TTCC	A-ATTACTAT	2689
BovB_Cg-RTE-Christinus	TGCGACCAAG	A --- TCAAG	ATAATTCATG	CCATAGTA	---	---	TTCC	CCATTACTAT	2217
BovB_Bh-RTE-Bothriocroton_hydr	--- AACAAAG	GT --- TCGC	ATAGTCAAAG	CTATGGTT	---	---	TTTC	AAGTAGCAAT	1239
BovB_MI-RTE-Gehyra_variegata	--- GATAAAA	AT --- CTGT	GAAATAAAAG	CTATGGTT	---	---	TTTC	TAGTAGTAAA	1315
Sly-rnd1_family284-LINE/RTEBov	---	---	---	---	---	---	---	56	
Sly-rnd5_family2019-LINE/RTEBo	---	---	---	---	---	---	---	477	
Sly-rnd3_family322-LINE/RTEBov	---	---	---	---	---	---	---	568	
Sly-rnd5_family1698-LINE/RTEBo	---	---	---	---	---	---	---	231	
Sly-rnd1_family795-LINE/RTEBov	---	---	---	---	---	---	---	538	
Stu-rnd-5_family3162_LINE_RTE	---	---	---	---	---	---	---	2547	
Sly-rnd6_family1960-LINE/RTEBo	---	---	---	---	---	---	---	1316	
Stu-rnd-5_family2493_LINE_RTE	---	---	---	---	---	---	---	215	
Sly-rnd5_family447-LINE/RTEBov	---	---	---	---	---	---	---	564	
Stu-rnd-6_family2093_LINE_RTE	---	---	---	---	---	---	---	105	
Consensus	--- AACAAA	-G-----C--	ATAGTCAA-G	-C-ATGGT-	-----	-----	TT-C	-GT-G--AT	



	3,860	3,880	3,900	3,920				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	306			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	135			
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	87			
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	671			
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	437			
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	861			
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	393			
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	609			
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	347			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	122			
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	446			
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	743			
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	65			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	119			
BovB_GI-RTE-Gehyra_lazelli	-----GT	ATGGCTGC	-----GAGAGC	TGGACTA-TA	AGGAAGG	-----CTGAGCG	-----CCGCAGAAT	2990
BovB_Gv-RTE-Gehyra_variegata	-----GT	ATGGCTGC	-----GAGAGC	TGGACTA-TA	AGGAAGG	-----CTGAGCG	-----CCGCAGAAT	2917
BovB_PMo-RTE-Python_molurus	-----GT	ATGGCTGT	-----GAGAGC	TGGACCA-TA	AAGAAAG	-----CTGAGCG	-----CCGAAGAAT	2849
BovB_Oa-RTE-Ovis_aries	-----GT	ATGGATGT	-----GAGAGT	TGGACCA-TA	AAGAAAG	-----CTGAGCA	-----CCGAAGAAT	2885
BovB-RTE-Bos_taurus	-----GT	ATGGATGT	-----GAGAGT	TGGACTG-TG	AAGAAAG	-----CTGAGCG	-----CCGAAGAAT	3473
BovB_Me-RTE-Macropus_eugenii	-----AT	ATGACCAT	-----GAGAGC	TAGACTA-TA	AGGAAAC	-----CTGAACA	-----CCATAGTAC	2443
BovB_Ano-RTE-Amphibolurus_norr	-----GT	ATGGAAGT	-----GAGAGC	TGGACCA-TA	AAGAAAG	-----CAGACCG	-----CCGAAGAAT	2922
BovB_Gd-RTE-Eremiascincus_doug	-----GT	ATGGCTGT	-----GAGAGT	TGGACCA-TA	AGGAAGG	-----CAGAGCG	-----CCGAAGAAT	2512
BovB_Er-RTE-Eremiascincus_rich	-----GT	ATGGCTGT	-----GAGAGC	TGGACCA-TA	AGGAAGG	-----CAGAGCG	-----CCGAAGAAT	3046
BovB_Ca-RTE-Ctenotus_atlas	-----GT	ATGGCTGT	-----GAGAGC	TGGACCA-TA	AGAAAGG	-----CAGAGCG	-----CCGAAGAAT	3038
BovB_Es-RTE-Egernia_stokesii	-----GT	ATGGCTGT	-----GAGAGC	TGGACCA-TA	AGGAGGG	-----CTGAGTG	-----CCAAAGAAT	2873
BovB_Tr-RTE-Tiliqua_rugosa	-----GT	ATGGCTGT	-----GAGAGC	TGGACCA-TA	AGGAGGG	-----CTGAGCG	-----CCGAAGAAT	2886
BovB_ALi-RTE-Amblyomma_limbatu	-----GT	ATGGCTGTG	-----AAAGTT	TAGACAA-AA	AAAAAGC	-----TCAAGCG	-----TAAAACTTT	3056
BovB_Hs-RTE-Hydrophis_spiralis	CCCCAGTTGT	ATGGCTGT	-----GAAAGT	TGGACCA-TA	AGGAAGG	-----CTGAGCA	-----CCAAAGAAT	1269
BovB_VA-RTE-Vipera_ammodytes	-----GT	ATGGCAGT	-----GAAAGC	TGGACCA-TA	AAAAAGG	-----CTGAGCG	-----CCAAAGAAT	2843
BovB_ACo-RTE-Agkistrodon_conto	-----GT	ATGGCTGT	-----GAAAGT	TGGACCA-TA	AGAAAGG	-----CTGAGCG	-----CCAAAGAAT	2842
BovB_Pg-RTE-Perameles_gunnii	GT-----	ATAGCTGT	-----GAGAGT	TGGACTA-TA	AGGAAAA	-----CTGAATG	-----CTGCAGAAT	1022
BovB_lo-RTE-Isoodon_obesulus	GT-----	ATGACTAT	-----GAGAAT	TCAATTA-TA	AGGAAAG	-----CTGAGCA	-----CTGCAGAAT	1483
BovB_Bp-RTE-Burramys_parvulus	GTC-----	AAATGGCTATAA	GAAGGAGAGT	TGGACTA-TA	AGGAAAGAAA	AGCCTGAGCA	-----TTACAGAAT	1601
BovB_Pb-RTE-Petaurus_breviceps	GT-----	ATGGTTGT	-----GAGAGT	TGGACTA-TA	AGGAAAG	-----CTGAGCA	-----CTCCAGAAT	1612
BovB_Ma-RTE-Macropus_antilopin	GT-----	ATGGCTGT	-----GAGAGT	TGGACTA-TA	AGGAAAG	-----CTGAGTG	-----CTGCAGAAT	2958
BovB_Af-RTE-Antechinus_flavipe	AT-----	ATAGCTGT	-----GAAAT	TAGATTA-TA	ATGAAAG	-----CTAAAGA	-----A--AGAAAT	2150
BovB_Ac-RTE-Anolis_carolinensi	C-----	TATGGATGC	-----GAGAGC	TGGACCAATA	AGGAAAG	-----CTGAGCG	-----AAGGAAGAT	2822
BovB_BM-RTE-Bombyx_mori	-----AT	ACG--GAG--	CGGAGACC	TGGACCT-T	AAAGCAG	-----CTGATCG	-----CAAAACGCGT	2650
BovB_Dr-RTE-Christinus	-----GT	ATG--CAT--	GTGAGAGC	TGGACACT-C	AAGAAGA	-----AAGACAG	-----AAGGAAGAT	2716
BovB_La-RTE-Loxodonta_africana	-----AT	ATG--CAT--	GTGAAAGC	TGGACAAT-G	AATAAGG	-----AAGACCA	-----AAGAAGAAT	2839
BovB_Pc-RTE-Procavia_capensis	-----AT	ATG--CAT--	GTGAAAGC	TGGACAAT-G	AACAAAG	-----AAGACAG	-----AAGAAGAAT	2838
BovB_Et-RTE-Christinus	-----AT	ATG--TG--	GCGATGA-	-----	-----	-----	-----	2573
BovB_Ta-RTE-Tachyglossus_acule	-----GT	ATG--GAT--	CTGAAAGC	TGGACAGT-G	AAAAAAC	-----AGGATAG	-----AAAGAACAT	2978
BovB_Plat-RTE-Ornithorhynchus	-----GT	ATG--GAT--	CCGAAAGC	TGGACAGT-G	AAAAAAC	-----AGGATAG	-----AAAGAACAT	2967
BovB_Ec-RTE-Equus_caballus	-----GT	ACA--GGT--	GTGAAAGC	TGGACAGT-G	AAGAAGG	-----CTGACAG	-----GAAAAAAAT	2738
BovB_Cg-RTE-Christinus	-----GT	ATAATGGGT	GTGAAAGC	TGGACAGTTG	AAGAAAG	-----CTGACAG	-----GAAAGAAAGT	2269
BovB_Bh-RTE-Bothriocroton_hydr	-----GT	ATGGCTGT	-----GAGAGC	TGGACCA-TA	AGAAAGG	-----TAGAGTG	-----CCGAAGAAT	1287
BovB_MI-RTE-Gehyra_variegata	T-----	ATATTTGT	-----GAGATT	TGGACTA-AA	AAGAAAC	-----TTGAATA	-----TAAC	1359
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	56
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	477
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	568
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	231
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	538
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	2547
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	1316
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	215
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	564
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	105
Consensus	-----	ATG--GT--	-----GA-AG-	TGGAC-A--	A--AA-G--	-----C-GA--	-----AGAAT	
Conservation	0%							

	3,940		3,960		3,980		
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----	306	
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	135	
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	87	
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----	671	
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----	437	
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	861	
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----	393	
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----	609	
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----	347	
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	122	
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----	446	
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	743	
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	65	
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	119	
BovB_GI-RTE-Gehyra_lazelli	AGAT-----T CTTTTGAATT	ATGGTGC-TG	GA-----G AAGACTCTT	GAGAG-TCCC	TTGGAC----	3041	
BovB_Gv-RTE-Gehyra_variegata	AGAT-----T CTTTTGAATT	ATGGTGC-TG	GA-----G AAGACTCTT	GAGAG-TCCC	TTGGAC----	2968	
BovB_PMo-RTE-Python_molurus	TGAT-----G CTTTTGAACT	GTGGTGC-TG	GA-----G AAGACTCTT	GAGAG-TCCC	CTGGAC----	2900	
BovB_Oa-RTE-Ovis_aries	TGAT-----G CTTTTGAACT	GTGGTGC-TG	GA-----G AAGACTCTT	GAGAG-TCCC	TTGGAC----	2936	
BovB-RTE-Bos_taurus	TGAT-----G CTTTTGAACT	GTGGTGC-TG	GA-----G AAGACTCTT	GAGAG-TCCC	TTGGAC----	3524	
BovB_Me-RTE-Macropus_eugenii	TGAT-----G CTTTTGAATA	TTGGTCT-TT	GA-----G AAGACTTCT	GAGAG-TCCC	TTGGAC----	2494	
BovB_Ano-RTE-Amphibolurus_norr	TGAT-----G CTTTTGAATT	GTGGTGC-TG	GA-----G GAGGCTCTT	GAGAG-TCCC	CTGGAC----	2973	
BovB_Gd-RTE-Eremiascincus_doug	AGAT-----G CTTTTGAATT	ATGGTGC-TG	GA-----G AAGACTCTT	GAGAG-TCCC	CTGGAC----	2563	
BovB_Er-RTE-Eremiascincus_rich	AGAT-----G CTTTTGAATT	ATGGTGC-TG	GA-----G AAGACTCTT	GAGAG-TCCC	CTGGAC----	3097	
BovB_Ca-RTE-Ctenotus_atlas	AGAT-----G CTTTTGAATT	ATGGTGC-TG	GA-----G AAGACTCTT	GAGAG-TCCC	CTGGAC----	3089	
BovB_Es-RTE-Egernia_stokesii	AGAT-----G CTTTTGAATT	ATGGTGC-TG	GA-----G AAGACTCTT	GAGAG-TCCC	CTGGAC----	2924	
BovB_Tr-RTE-Tiliqua_rugosa	AGAT-----G CTTTTGAATT	ATGGTGC-TG	GA-----G AAGACTCTT	GAGAG-TCCC	CTGGAC----	2937	
BovB_ALi-RTE-Amblyomma_limbatu	TGGATTCAGG CTTTTGAATT	GTTGTGC-TC	GG-----AG GAGACTCCT	GGCGAGTCCC	ATGGAC----	3114	
BovB_Hs-RTE-Hydrophis_spiralis	TGGA-----GG CTTTTGAACT	ATGGTGC-TG	GAGGTGGAAG AACACTCCT	GCGAGTCCC	TTGGAC----	1329	
BovB_VA-RTE-Vipera_ammodytes	TGA-----GG CTTTTGAACT	ATGGTGC-TG	GA-----G AAGACTCCT	GCGAG-TCCC	TTGGAC----	2894	
BovB_ACo-RTE-Agkistrodon_conto	TGA-----GG CTTTTGAACT	ATGGTGC-TG	GA-----G AAGACTCCT	GCGAG-TCCC	CTGGAC----	2893	
BovB_Pg-RTE-Perameles_gunnii	CAAT-----GC TTT-CAAATT	GTGGTGCATG	GA-----G AAGAATTTT	GAGAGTC-CC	TTGGAC----	1074	
BovB_Io-RTE-Isodon_obesulus	AGAT-----GC AAT-CAAATT	ATGGTGC-TG	GA-----G AAGACTTTT	GAGAGTC-CC	TTGGGCACA	1538	
BovB_Bp-RTE-Burramys_parvulus	CAAT-----AC TTTTCAAATT	GTGGTGC-TG	GA-----G AAGACTTTT	GAGAGTC-CT	TTGGAC----	1654	
BovB_Pb-RTE-Petaurus_breviceps	TGAT-----GC TTT-CAAATT	GTGGTGC-TA	AA-----G AAGACTTTT	GAGAGTC-CC	TTGGAC----	1664	
BovB_Ma-RTE-Macropus_antilopin	CAAT-----GC TTT-TGAATT	GTGGTGC-TG	GA-----G AAGACTTTT	GAGAGTC-CC	TTGGAC----	3009	
BovB_Af-RTE-Antechinus_flavipe	CAAA-----AA CTTTCAAATT	GTGATGC-TA	GA-----A AAGACTTTT	GAGAGTTACC	TTGGAC----	2203	
BovB_Ac-RTE-Anolis_carolinensi	AGAC-----G CTTTTGAACT	CTGGTGC-TG	GA-----G GAAAATCCT	GAGAG-TGCC	TTGGAC----	2873	
BovB_BM-RTE-Bombyx_mori	GGAT-----G CTTTTGAGAT	GTGGTGC-TG	GA-----G AAGAATGCT	CCGGA-TACC	TTGGAC----	2701	
BovB_Dr-RTE-Christinus	CGAT-----G CTTTTGAGTT	GTGGTGC-TG	GA-----G GCGAATGAT	GCAC--TACC	ATGGAC----	2766	
BovB_La-RTE-Loxodonta_africana	TGAC-----G CTTTTGAATT	GTGGTGC-TG	GC-----G AAGAATATT	GAATA-T-CC	ATGGAC----	2889	
BovB_Pc-RTE-Procavia_capensis	TGAT-----G CTTTTGAATT	GTGGTGC-TG	GA-----G AAGAATGTT	GAATG-TACC	ATGGAC----	2889	
BovB_Et-RTE-Christinus	-----	-----	-----	-----	-----	2573	
BovB-Ta-RTE-Tachyglossus_acule	CGAT-----T CTTTTGAAAT	GTGGTGC-TG	GA-----G AAGGCTTTT	GTGAA-TACC	ATGGAC----	3029	
BovB_Plat-RTE-Ornithorhynchus	CGAT-----T CTTTTGAAAT	GTGGTGC-TG	GA-----G AAGGCTTTT	GCGAA-TACC	ATGGAC----	3018	
BovB_Ec-RTE-Equus_caballus	TGAT-----T CATTTGAAT	ATGGTGC-TG	GA-----G GAGAGCTCT	ACGGA-TACC	CTGGAC----	2789	
BovB_Cg-RTE-Christinus	AGAT-----T CTTTTGAAAT	GTGGTGC-TG	GA-----G GAGAGTTT	ACGGA-TACC	GTGGAC----	2321	
BovB_Bh-RTE-Bothriocroton_hydr	AGATTT--GT TTTTGAATT	ATGGTGC-TG	GA-----G AAGACTTTT	GAGAG-TCCC	ATGGAC----	1341	
BovB_MI-RTE-Gehyra_variegata	TGAA----- --TTGAATCT	ATTGGAC-TA	GA-----G TAGGCTTTT	GAGAA-TCTA	TTGGAT----	1407	
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	56	
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	477	
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	568	
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	231	
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	538	
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	2547	
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	1316	
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	215	
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	564	
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	105	
Consensus	-GA-----	C-TT-GAA-T	-TGGTG--TG	GA-----G	AAGACT--T	G-GA--T-CC	-TGGAC----



	4,000	4,020	4,040	4,060		
Stu-rnd-1_family-417_LINE_RTE					306	
Sly-rnd1_family377-LINE/RTEBov					135	
Stu-rnd-1_family-489_LINE_RTE					87	
Stu-rnd-1_family-607_LINE_RTE					671	
Stu-rnd-1_family-645_LINE_RTE					437	
Sly-rnd4_family81-LINE/RTEBovB					861	
Stu-rnd-6_family-408_LINE_RTE					393	
Stu-rnd-1_family-351_LINE_RTE					609	
Stu-rnd-1_family-382_LINE_RTE					347	
Sly-rnd6_family746-LINE/RTEBov					122	
Stu-rnd-5_family-325_LINE_RTE					446	
Sly-rnd4_family509-LINE/RTEBov					743	
Stu-rnd-1_family-513_LINE_RTE					65	
Sly-rnd5_family1442-LINE/RTEBo					119	
BovB_GI-RTE-Gehyra_lazelli	TGCAA-AGAG	ATCA-AATC	AGTCAATCCT	AAAAGAAATC	A ACCCT - - - - -GACTGTT-C	3092
BovB_Gv-RTE-Gehyra_variegata	TGCAA-GGAG	ATCG-AATC	AGTCAGTCCT	AAAAGAAATC	A ACCCT - - - - -GACTGTT-C	3019
BovB_PMo-RTE-Python_molurus	TGCTA-GGAG	GTCA-AAAC	AGTCAATCTT	AAAGGAAATC	A ACCCT - - - - -GATTGCT-C	2951
BovB_Oa-RTE-Ovis_aries	TGCAA-GGAG	ATCA-AAAC	AGTCAATCCT	AAAGGAAATC	A ACCCT - - - - -GAATATT-C	2987
BovB-RTE-Bos_taurus	TGCAA-GGAG	ATCC-AAAC	AGTCCATTCT	GAAGGAGATC	A GCCCT - - - - -GGGATTT-C	3575
BovB_Me-RTE-Macropus_eugenii	AGTAAAGGAG	ATCA-AATC	AGTATTAATT	TAATGAAATT	A ATTCA - - - - -GACTGTT-C	2546
BovB_Ano-RTE-Amphibolurus_norr	TGCAA-GGAG	AACA-AAAC	TATCAATTCT	AAAGGAAATC	A ACCCT - - - - -GAGTGCT-C	3024
BovB_Gd-RTE-Eremiascincus_doug	TGCAA-GGAG	ATCC-AAAC	GGTCAATCCT	ACAGGAAATC	A AGCCT - - - - -GATTGCT-C	2614
BovB_Er-RTE-Eremiascincus_rich	TGCAA-GGAG	ATCC-AAAC	GGTCAATCCT	CCAGGAAATC	A AGCCT - - - - -GATTGCT-C	3148
BovB_Ca-RTE-Ctenotus_atlas	TGCAA-GGAG	ATCC-AAAC	GGTCAATCCT	CCAGGAAATC	A AGCCT - - - - -GATTGCT-C	3140
BovB_Es-RTE-Egernia_stokesii	TGCAA-GGAG	ATCA-AATC	AGTCAATCCT	ACAGGAAATC	A ACCCT - - - - -GACTGTT-C	2975
BovB_Tr-RTE-Tiliqua_rugosa	TGCAA-GGAG	ATCA-AATC	AGTCAATCCT	ACAGGAAATC	A ACCCT - - - - -GACTGTT-C	2988
BovB_ALi-RTE-Amblyomma_limbatu	TGCAAGAC-A	ATCA-AAAC	GGTCAGTCTT	AGAGAAGATA	A ACCCT - - - - -GACTGCT-C	3165
BovB_Hs-RTE-Hydrophis_spiralis	TGCAAGGCCG	ATCATAACT	GGTCAGTCTT	AGAGGAGATG	CCA--ATTCA ACCCT - - - - -GACTGCT-C	1389
BovB_VA-RTE-Vipera_ammodytes	TGCAAGGC-G	ATCA-AAAC	GGTCAGTCCT	AGAGGAGATC	A ACCCT - - - - -GACTGCT-C	2945
BovB_ACo-RTE-Agkistrodon_conto	TGCAAGGC-G	ATCA-AAAC	GGTCAGTCCT	AGAGGAGATC	A ACCCT - - - - -GACTGCT-C	2944
BovB_Pg-RTE-Perameles_gunnii	AACAA-GGAG	ATCAAATC-	AGTCAATATT	TAAAGAAATT	AT----AATT ATTCA - - - - -GACTATTT-C	1131
BovB_lo-RTE-Isodon_obesulus	AATAA-AGAA	ATCAAATGA	AATCAATACT	TAAAGAAATC	A-----ATTCA - - - - -AACTATT-C	1591
BovB_Bp-RTE-Burramys_parvulus	AGCAA-GGAG	ATCAAATCA	GGTCAATACT	TAAAGAAATT	A-----ATTCAAA--A AGGCTATT-C	1711
BovB_Pb-RTE-Petaurus_breviceps	AGCAA-GGAG	ATCAA-TCA	G-TCAATACT	TAAAGAAATT	A-----ATTCA - - - - -GGCTATT-C	1715
BovB_Ma-RTE-Macropus_antilopin	AGCAA-GGAG	ATCAAATC-	AGTCAATACT	TAAAGAAATT	A-----ATTCA - - - - -GACTATT-C	3060
BovB_Af-RTE-Antechinus_flavipe	AGTAA-GGAG	ATCAA-TAC	AATCAATACT	TAAAGAAATT	AATTCAGACT ATTCATTTTG GAACTATTTA	2271
BovB_Ac-RTE-Anolis_carolinensis	CGCAA-GAAG	ATCC-AAAC	AGTCCACACT	CCAGGAAATA	A-----T GCCC - - - - -GACTGCT-C	2924
BovB_BM-RTE-Bombyx_mori	--AG-TGAG	AGAAGCAATC	AGTCTATCTT	AGATCAACTG	CA-----G ATCAA - - - - -GACTAGA-C	2754
BovB_Dr-RTE-Christinus	--GG-CGAGG	ATCACAAACA	AAACAACCTT	GCAGCG-TG	TC-----A AACAA - - - - -AATGTAT-C	2817
BovB_La-RTE-Loxodonta_africana	--TC-CCAAA	AGAACAACA	AATCTGTCTT	GGAAGAA-G	TA-----C AACCA - - - - -GAATGCT-C	2940
BovB_Pc-RTE-Procavia_capensis	--TG-CCAAA	AGAACAACA	GATCTGTCTT	GGAAGAA-G	TA-----C AACCA - - - - -GAGTGCT-C	2940
BovB_Et-RTE-Christinus						2573
BovB-Ta-RTE-Tachyglossus_acule	--TG-CCCGA	AAAACAACA	AATGGATTTT	AGAGCAA--A	TT-----A AACCA - - - - -AAGTGGT-C	3080
BovB_Plat-RTE-Ornithorhynchus	--TG-CCCGA	AAAACAACA	AATGGATTTT	GGAGCAA--A	TT-----A AACCA - - - - -AAGTGGT-C	3069
BovB_Ec-RTE-Equus_caballus	--TG-CCAGA	AAGATGAACA	AGTGGTCTCT	AGAGCAA--A	TT-----A AGCCT - - - - -GAAGTAT-C	2840
BovB_Cg-RTE-Christinus	--TG-CCAAA	AAGACAAATA	AGTGGTCTCT	AGATCAA--A	TC-----A AGCCT - - - - -GAAGTAT-C	2373
BovB_Bh-RTE-Bothriocroton_hydr	TGTAA-AGAG	ATCTAATCC-	-GTCAATTCT	TCAGGAAATC	-----A AGCCT - - - - -GATTATT-C	1392
BovB_MI-RTE-Gehyra_variegata	--TTCAAAA	TTATCAATA	AGTCAATGCT	TAAGGAAAT	CAGAC-----	1449
Sly-rnd1_family284-LINE/RTEBov					56	
Sly-rnd5_family2019-LINE/RTEBo					477	
Sly-rnd3_family322-LINE/RTEBov					568	
Sly-rnd5_family1698-LINE/RTEBo					231	
Sly-rnd1_family795-LINE/RTEBov					538	
Stu-rnd-5_family-3162_LINE_RTE					2547	
Sly-rnd6_family1960-LINE/RTEBo					1316	
Stu-rnd-5_family-2493_LINE_RTE					215	
Sly-rnd5_family447-LINE/RTEBov					564	
Stu-rnd-6_family-2093_LINE_RTE					105	
Consensus		ATCA-AA	--TC--T-CT	--A-GAA--	A--C-----GA-T--T-C	



	4,080	4,100	4,120	
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	306
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	135
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	87
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	671
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	437
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	861
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	393
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	609
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	347
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	122
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	446
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	743
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	65
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	119
BovB_GI-RTE-Gehyra_lazelli	TCTGG--AAGGCCAGATACTG-----AAGC-TGAAGCTC-AAATA-CTTTGGCCACCAAATGAGAAGGGA			3152
BovB_Gv-RTE-Gehyra_variegata	TCTGG--AAGGCCAGATACTG-----AAGC-TGAAGCTC-AAATA-CTTTGGCCACCAAATGAGAAGGGA			3079
BovB_PMo-RTE-Python_molurus	ATTGG--AAGGAT-GATAATG-----AAGC-TCAAGCTC-AGATA-CTTTGGTACCTAA			TGCGAAGAGA 3010
BovB_Oa-RTE-Ovis_aries	ATTGG--AAGGACTGATGCTG-----AAGC-TGAAGCTC-CAATA-CTTTGGCCACCTGA			TGTGAAGAGC 3047
BovB-RTE-Bos_taurus	TTTGG--AAGGAATGATGCTA-----AAGC-TGAAACTC-CAGTA-CTTTGGCCACCTCA			TGCGAAGAGT 3635
BovB_Me-RTE-Macropus_eugenii	TCTGG--AAGGTCAAATACTG-----AAGC-TGAAGCTC-CAATA-CTTTGGCCACCTCA			2564
BovB_Ano-RTE-Amphibolurus_norr	ACTGG--AAGGACAGATCCTG-----AAGC-TGAGGCTC-CAGTA-CTTTGGCCATCTCA			TGAGAAGAAA 3084
BovB_Gd-RTE-Eremiascincus_doug	CTTGG--AAGGACAAATCCTG-----AAGC-TGAAGCTC-CAATA-CTTTGGCCACCTCA			TGAGAAGAGA 2674
BovB_Er-RTE-Eremiascincus_rich	CTTGG--AAGGACAAATCCTG-----AAGC-TGAAGCTC-CAATA-CTTTGGCCACCTCA			TGAGAAGAGA 3208
BovB_Ca-RTE-Ctenotus_atlas	CTTGG--AAGGACAAATCCTG-----AAGC-TGAAGCTC-CAATA-CTTTGGCCACCTCA			TGAGAAGAGA 3200
BovB_Es-RTE-Egernia_stokesii	ATTGG--AAGGACAGATGCTG-----AAGC-TGAAGCTT-AAATA-CTTTGGTCATCTCA			TGAGAAGGGA 3035
BovB_Tr-RTE-Tiliqua_rugosa	ATTGG--AAGGACAGATGCTG-----AAGC-TGAAGCTT-AAATA-CTTTGGTCATCTCA			TGAGAAGGGA 3048
BovB_ALi-RTE-Amblyomma_limbatu	TTTTAG--AAGGCCAGATAGTC-----AAAGATGAAAACCTTAAATA-CTTTGACCACCTCA			TGAGAAGGAA 3228
BovB_Hs-RTE-Hydrophis_spiralis	TTTAGA--AAGGCCAGATCCTG-----AAGA GTGAAAACCTCAAAATA-CTTTGGCCACCTAA			TGAGAAGGAA 1452
BovB_VA-RTE-Vipera_ammodytes	TTTAG--AAGGCCAGATCCTG-----AAGC-TAAAACCTC-AAATA-CTTTGGCCACCTAA			TGAGAAGGAA 3005
BovB_ACo-RTE-Agkistrodon_conto	TTTAG--AAGGCCAGATCCTG-----AAGT-TGAAAACCTC-AAGTA-CTTTGGCCACCTAA			TGAGAAGGAA 3004
BovB_Pg-RTE-Perameles_gunnii	ATTGGA--AGGTCAAATACTG-----AAGC-TGAAGCTT-AAATA-CTTTGGTCATATAA			TGAGAAGACA 1191
BovB_lo-RTE-Isodon_obesulus	ACTGAA--AGGTTAAATATTG-----AAAT-TGAAGCTT-AAATA-TTTTGAACACATAA			TAAGAAAATA 1651
BovB_Bp-RTE-Burramys_parvulus	ATTGGA--AGGTCAAATACTG-----AAGC-TGAAGCTT-AAATA-TCTTTGGCCACATAA			TGAGAAGACA 1774
BovB_Pb-RTE-Petaurus_breviceps	ACTGGA--AGGTCAAATACTGAAAGCTAAGC-TGAAGCTT-AAATA-CTTTGGCCACATAA			TGAGAAGACA 1780
BovB_Ma-RTE-Macropus_antilopin	ACTGGA--AGGTCAAATACTG-----AAGC-TGAAGCTT-AAATA-CTTTGGCCACATAA			TGAGAAGACA 3120
BovB_Af-RTE-Antechinus_flavipe	AATGGAGAAGATCAAATACTG-----AAGC-TGAAACTT-AAATA-CTTTGGCCACATAA			TGAGAAGACA 2333
BovB_Ac-RTE-Anolis_carolinensi	ACTGG--AGGAAAGGATATTG-----GAGG-CAAAAGCTG-AAGTA-TTTTGGCCACATCA			TGAGAAGACA 2984
BovB_BM-RTE-Bombyx_mori	TGTCCA-CAC T-CTGCCTTG-----TCGG-GC-ACTCGAGTACTTT--GGTCATATTG			CTCGGAAAAAC 2812
BovB_Dr-RTE-Christinus	GCTAGA-GGG C-AAAATCACG-----AAGC-AACGGCTCTCGTTCTTT--GGTCATATCA			TGCGAGCCAA 2877
BovB_La-RTE-Loxodonta_africana	CTTAGA--AGCAAGGATGGC-----AGAC-TGCAGCGTACATACTTT--GGACATGTTA			TCAGGAGGGA 3000
BovB_Pc-RTE-Procavia_capensis	CTTGGA--AGCAAGGATGGC-----AGAC-TGCATCTTACATACTTT--GGACATGTTG			TCAGGAGGGA 3000
BovB_Et-RTE-Christinus	-----	-----	-----	2573
BovB-Ta-RTE-Tachyglossus_acule	TTTGGGA--AGGC-CAAATGACT-----CGAC-TTAGATTAGCATATTTT--GGACACATAA			TCAGGAGGAC 3140
BovB_Plat-RTE-Ornithorhynchus	TTTGGGA--AGGC-CAAATGACT-----CGAC-TTAGATTAGCATATTTT--GGACACATAA			TCAGGAGGAC 3129
BovB_Ec-RTE-Equus_caballus	GCTGGA--GGCA-AAAATGATG-----AAAC-TGAGGCTGTCTACTTT--GGGCACATCA			TGAGAAGGCA 2900
BovB_Cg-RTE-Christinus	CTTAGA--AGCTTAAAATGACT-----AAAC-TGAGGCTATCGTACTTTCCGGTCACATTA			TGAGAAGACA 2436
BovB_Bh-RTE-Bothriocroton_hydr	CCTGAA--AAGACAAATCCTG-----AAGC-AGAAGCTC-AAATA-CTTTGGCCACATCA			TGAGAAGACA 1452
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	1449
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	56
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	477
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	568
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	231
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	538
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	2547
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	1316
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	215
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	564
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	105
Consensus	--T-G-----G-----AT-----A-----T-----CT-----T--GG-CA--T-A T--G-A-----			



	4,140	4,160	4,180	4,200				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	306			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	135			
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	87			
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	671			
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	437			
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	861			
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	393			
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	609			
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	347			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	122			
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	446			
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	743			
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	65			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	119			
BovB_GI-RTE-Gehyra_lazelli	AGA-----CTCACTGG	--AGAAGACC	CTGATGCTGG	GAA-----AG	ATT-----G	AAGGGAAAAAG	3200	
BovB_Gv-RTE-Gehyra_variegata	AGA-----CTCACTGG	--AGAAGACC	CTGATGCTGG	GAA-----AG	ATT-----G	AAGGGAAAAAG	3127	
BovB_PMo-RTE-Python_molurus	GGA-----CTCCTTTGG	--AAAAGACC	CTGATGCTGG	GAA-----AG	ATT-----G	AAGGCCAAAAG	3058	
BovB_Oa-RTE-Ovis_aries	TGA-----CTCATTGG	--AAAAGACC	CTGATGCTGG	GAA-----AG	ATT-----G	AAGGCAGGAG	3095	
BovB-RTE-Bos_taurus	TGA-----CTCATTGG	--AAAAGACT	CTGATGCTGG	GAG-----GG	ATT-----G	GGGGCAGGAG	3683	
BovB_Me-RTE-Macropus_eugenii	-----	-----	-----	-----	-----	-----	2564	
BovB_Ano-RTE-Amphibolurus_norr	AGA-----CTCCTTTGG	--AAAAAACC	TTGATGTTAG	GAA-----AG	TGT-----G	ACGGCAAGAG	3132	
BovB_Gd-RTE-Eremiascincus_doug	GGA-----CTCCTTTAG	--AAAAGACC	CTCATGCTGG	GAA-----AG	ATG-----G	AAGGCCAAAAG	2722	
BovB_Er-RTE-Eremiascincus_rich	GGA-----CTCCTTTAG	--AAAAGACC	CTCATGCTGG	GAA-----AG	ATT-----G	AAGGCCAAAAG	3256	
BovB_Ca-RTE-Ctenotus_atlas	GGA-----CTCCTTTAG	--AAAAGACC	CTCATGCTGG	GAA-----AG	ATT-----G	AAGGCCAAAAG	3248	
BovB_Es-RTE-Egernia_stokesii	GGA-----CTCCTTTAG	--AAAAGACC	CTGATGCTGG	GAA-----AA	ATT-----G	AAGGCCAAAAG	3083	
BovB_Tr-RTE-Tiliqua_rugosa	GGA-----CTCCTTTAG	--AAAAGACC	CTGATGCTGG	GAA-----AA	ATT-----G	AAGGCCAAAAG	3096	
BovB_ALi-RTE-Amblyomma_limbatu	GGA-----CTTC-CTGA	--AGAAGAAT	ATAATCTTCA	TATGCTTTAG	AACACTA--G	ATGGCAAAAA	3285	
BovB_Hs-RTE-Hydrophis_spiralis	GGAAGGAAGG	ACTCCACTGG	--AGAAGACC	CTAATGCTGG	GAA-----AG	AATTTTGAGG	GCAAAAAGAAG	1515
BovB_VA-RTE-Vipera_ammodytes	GGA-----CTCACTGG	--AGAAGACC	CTAATGCTGG	GAA-----AG	ATT-----G	AGGGCAATAA	3053	
BovB_ACo-RTE-Agkistrodon_conto	GGA-----CTCACTGG	--AGAAGACC	CTAATGCTGG	GAA-----AG	ATT-----G	AGGGCAATAG	3052	
BovB_Pg-RTE-Perameles_gunnii	GGA-----CT-CATTGG	--AAAAGACT	CTGATATTGG	G-----AAAG	ATT-----GA	AAGACAAAAG	1240	
BovB_lo-RTE-Isoodon_obesulus	GGA-----CT-TAATGG	GGAAAAAATT	TTGATGTTGA	GGGAA-AAAG	ATT-----AA	AAGTAAAAGA	1706	
BovB_Bp-RTE-Burramys_parvus	AGA-----CT-CATTGG	--AAAAGACC	CTGATGTTGG	G-----AAAG	ATT-----GA	AGG-CAAAAG	1822	
BovB_Pb-RTE-Petaurus_breviceps	GGA-----CT-CATTGG	--AAAAGACC	CTGATGTTAG	G-----AAAG	ATT-----GA	AGG-CAAAAG	1828	
BovB_Ma-RTE-Macropus_antilopin	GGA-----CT-CATTGG	--AAAAGACC	CTGATGTTGG	G-----AAAG	ATT-----GA	AGG-CAAAAG	3168	
BovB_Af-RTE-Antechinus_flavipe	GGA-----CTTCACTGG	--AAAAGACT	CTGATATTGG	G-----AAAG	ATT-----GA	AGG-AAAAAG	2382	
BovB_Ac-RTE-Anolis_carolinensi	GAAA-----GCTTTGG	--AAAAGACT	ATGATGCTGG	GGA-----AA	ATG-----G	AAGGAAAAAG	3031	
BovB_BM-RTE-Bombyx_mori	-----ACCGGATA	G-CCT-AGAA	ATACTATTCC	TGA---CAG	---GGAAGA	TCGAGGGAAA	2860	
BovB_Dr-RTE-Christinus	-----CTCTATGG	A-AAC-AGCT	TTAATGCTCC	GTG---CAG	---TCAGTGA	TCAAGAAGAA	2927	
BovB_La-RTE-Loxodonta_africana	TCA-----GTCCCTGG	A-GAA-GGAC	ATCATGCTTG	GCA---AAG	--TACAGAGT	CAGCGGAAAA	3053	
BovB_Pc-RTE-Procavia_capensis	TCA-----GTCCCTGG	A-GAA-GGAC	ATCATGCTTG	GTA---GAG	--TGGAGGGT	CAGTGAAAAA	3053	
BovB_Et-RTE-Christinus	-----	-----	-----	-----	-----	-----	2573	
BovB_Ta-RTE-Tachyglossus_acule	TAA-----TTCTCTGG	A-GAA-GACA	CTAATGCTAG	GAA---AAG	--TCCAGGGA	AAACGTGGAA	3193	
BovB_Plat-RTE-Ornithorhynchus	TAA-----TTCTCTGG	A-GAA-GACA	CTAATGCTAG	GAA---AAG	--TCCAGGGA	AAACGTGGAA	3182	
BovB_Ec-RTE-Equus_caballus	GGA-----TTCTTTGG	A-AAA-GACA	ATAATGCTGG	GAA---AAG	--TAGAAGGC	AGCAGGAAAA	2953	
BovB_Cg-RTE-Christinus	AGA-----GTCACTGG	A-AAAAGACA	ATAATGCTAG	GAA---AAA	GTTGAAAGGC	AGCAGGAAAA	2492	
BovB_Bh-RTE-Bothriocroton_hydr	GGGA-----CTCCTTTAG	--AAAAGACT	TTCATGCTGG	GAA---AG	ATC-----G	AAAACAAAAT	1501	
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	1449	
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	56	
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	477	
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	568	
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	231	
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	538	
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----	2547	
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	1316	
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	215	
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	564	
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	105	
Consensus	-----C--T-G	-----A-GA--	-T-ATG-T-G	G-----AG	-----	-----A-		



	4,220		4,240		4,260				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----	306			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	135			
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	87			
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----	671			
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----	437			
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	861			
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----	393			
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----	609			
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----	347			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	122			
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----	446			
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	743			
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	65			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	119			
BovB_GI-RTE-Gehyra_lazelli	AAGAAGGGGA	CGACAAAGGA	TGAGATGGTT	AGACAGTGTC	A-----	TCGAGGCC	ACA-----	AA	3254
BovB_Gv-RTE-Gehyra_variegata	AAGAAGGGGA	CGACAAAGGA	TGAGATGGTT	AGACAGTGTC	A-----	TCGAGGCC	ACA-----	AA	3181
BovB_PMo-RTE-Python_molurus	GAGAAGGGGA	CGGCAGAGGA	TGAGATGGTT	AGATAGCATC	A-----	CTGAAGCA	ATG-----	AG	3112
BovB_Oa-RTE-Ovis_aries	GAGAAGGGGA	TGACAGAGGA	TGAGATGGTT	GGATGGCATC	A-----	CCGACTCA	ATG-----	GA	3149
BovB-RTE-Bos_taurus	GAGAAGGGGA	CGACAGAGGA	TGAGATGGCT	GGATGGCATC	A-----	CTGACTCG	ATG-----	GA	3737
BovB_Me-RTE-Macropus_eugenii	-----	-----	-----	-----	-----	-----	-----	-----	2564
BovB_Ano-RTE-Amphibolurus_norr	GAGAAGGGGA	CGACCGAGGA	TGAGATGGCT	AGACAGTGTC	A-----	TCGAAGCA	ACC-----	AA	3186
BovB_Gd-RTE-Eremiascincus_doug	GAGAAGGGGG	TGGCAGAGGA	TGAGATGGTT	AGATAGTGTC	A-----	CCGAAGCA	ACA-----	AA	2776
BovB_Er-RTE-Eremiascincus_rich	GAGAAGGGGG	CGGCAGAGGA	TGAGATGGTT	AGATAGTGTC	A-----	CCGAAGCA	ATG-----	AA	3310
BovB_Ca-RTE-Ctenotus_atlas	GAGAAGGGGG	CGGCAGAGGA	TGAGATGGTT	AGATAGTGTC	A-----	CCGAAGCG	ATG-----	AA	3302
BovB_Es-RTE-Egernia_stokesii	GAGAAGGGGA	CGGCAGAGGA	TGAGATGGTT	AGATAGTGTC	A-----	CCGAGGCC	ATG-----	AA	3137
BovB_Tr-RTE-Tiliqua_rugosa	GAGAAGGGGA	CAGCAGAGGA	TGAGATGGTT	AGATAGTGTC	A-----	CAGAGGCC	ATG-----	AA	3150
BovB_ALi-RTE-Amblyomma_limbatu	AAGGAGGGGA	CAGCATAGGA	TGAAGTGGCT	AGATTGAGTC	A-----	TAGAAGCA	GTT-----	AG	3339
BovB_Hs-RTE-Hydrophis_spiralis	AAGAAGGGGA	CGGCAGAGAA	TGAGTGGCT	GGATGGAGTC	AGTAGGCATG	AGCTGAAGCA	GTCCAATGGG	1585	
BovB_VA-RTE-Vipera_ammodytes	AAGAATGGGA	CGACAGAGAA	TGAGGGTCT	GGATGGAGTC	A-----	CTGAAGCA	GTA-----	GG	3107
BovB_ACo-RTE-Agkistrodon_conto	AAGAAGGGGA	CGACAGAGAA	TGAGTGGCT	GGATGGAGTC	A-----	CTGAAGCA	GTA-----	GG	3106
BovB_Pg-RTE-Perameles_gunnii	GAAAAGAGGA	TGGCAGAAGA	TGAGATGAAT	AGATAGTAG-	-----	CATGGAAACA	ATG-----	AA	1295
BovB_lo-RTE-Isoodon_obesulus	AAAAAAGGA	TGACAGATCA	TAAGATATAT	AGAAAGT-G-	-----	CATAGAAACA	ATG-----	AA	1760
BovB_Bp-RTE-Burramys_parvius	GAGAAGGGGA	TGGCAGAGGA	TGAGATGGAT	AGATAGTGGC	T-----	CATGGAAACA	ATG-----	AA	1879
BovB_Pb-RTE-Petaurus_breviceps	GAAAAGGGGA	TAGCAGAAGA	TGAGATGGAT	AGATAGTG-	-----	CATGGAAACA	ATG-----	AA	1882
BovB_Ma-RTE-Macropus_antilopin	GAAAAGGGGA	TGGCAGAGGA	TGAGATGGAT	AGATAGTG-	-----	CATGGAAACA	ATG-----	AA	3222
BovB_Af-RTE-Antechinus_flavipe	TAAAAAGGGA	TGTCAGATAA	TAAAAATAA	AAAAAGTA-	-----	CATAGAAATA	ATA-----	AA	2436
BovB_Ac-RTE-Anolis_carolinensi	GAGAGAGGCG	CGACCAAGGG	CAAGATGGAT	GGA-GGTATC	C-----	TTGAAGTG	ACT-----	GG	3084
BovB_BM-RTE-Bombyx_mori	GAG-	-----	-----	-----	-----	-----	-----	-----	2863
BovB_Dr-RTE-Christinus	GAGG--GCGT	CAGAGAAC--	-ACGATGGCT	GGACAA-TAT	C-----	AAGACGGAC	TTG-----	A	2975
BovB_La-RTE-Loxodonta_africana	GAGG--AAGA	CCCTCAAA--	-GAGATGGAT	TGACAC-AGT	G-----	GCTGCAACA	ATG-----	A	3101
BovB_Pc-RTE-Procavia_capensis	GAGG--AAGA	CCCTCGAT--	-GAGATGGAT	TGACAC-AGT	G-----	GCTGCAACA	ATG-----	G	3101
BovB_Et-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	-----	2573
BovB-Ta-RTE-Tachyglossus_acule	GAGG--CAGA	CCAGCAGC--	-TAGATGGAT	AGAGAC-CAT	A-----	ACAACAATA	ATG-----	G	3241
BovB_Plat-RTE-Ornithorhynchus	GAGG--CAGA	CCGGCAGC--	-TAGATGGAT	AGAGAC-CAT	A-----	ACAACGATA	ATG-----	G	3230
BovB_Ec-RTE-Equus_caballus	GAGG--AAGA	CCAAATAT--	-GAGATGGAT	TGACTC-CAT	A-----	AAGGAAGCC	ATA-----	G	3001
BovB_Cg-RTE-Christinus	GAGGGAAAGA	CCCAACATCA	TGAGATGGAT	TGACTCGTAT	A-----	AAGGAAGCC	ATGAC--	GG	2549
BovB_Bh-RTE-Bothriocroton_hydr	GAGAAACGGT	CGGCAGAGGA	TGAAATGGTT	CGATATTGTC	A-----	CCGAAGCG	ACA-----	A	1554
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	-----	1449
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----	56
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----	477
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----	568
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----	231
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----	538
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----	2547
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	-----	1316
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----	215
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	-----	564
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	-----	105
Consensus	-A-----G-	-----A---	--A--T--T	-GA-----	-----	-----	-----	-----	-----



	4,280	4,300	4,320	4,340				
Stu-rnd-1_family417_LINE_RTE	-----	-----	-----	-----	306			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	135			
Stu-rnd-1_family489_LINE_RTE	-----	-----	-----	-----	87			
Stu-rnd-1_family607_LINE_RTE	-----	-----	-----	-----	671			
Stu-rnd-1_family645_LINE_RTE	-----	-----	-----	-----	437			
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	861			
Stu-rnd-6_family408_LINE_RTE	-----	-----	-----	-----	393			
Stu-rnd-1_family351_LINE_RTE	-----	-----	-----	-----	609			
Stu-rnd-1_family382_LINE_RTE	-----	-----	-----	-----	347			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	122			
Stu-rnd-5_family325_LINE_RTE	-----	-----	-----	-----	446			
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	743			
Stu-rnd-1_family513_LINE_RTE	-----	-----	-----	-----	65			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	119			
BovB_GI-RTE-Gehyra_lazelli	CA - TGA A A T T	--GAGCGAAC	TCAG ----G	AACATGACAG	AAGACAGGAA	--GGCCT -GGC	GTGGTGTGGT	3314
BovB_Gv-RTE-Gehyra_variegata	CA - TGA A A T T	--GAGCGAAC	TCAG ----G	AGCATGACAG	AAGACAGGAA	--GGCCT -GGC	GTGGTGTGGT	3241
BovB_PMo-RTE-Python_molurus	CA - TGA A A C T	--GAGCAAAC	TCAG ----G	GAGGCAGTGA	AGGACAGGAA	--GGCCT -GGC	GCA - TATGGT	3171
BovB_Oa-RTE-Ovis_aries	CA - TGAGT T T	--GAGCAAAC	TCCG ----G	GAGATGGTGA	AGGACAGGGA	--AGCCT -GGC	GTGCTGCAGT	3209
BovB-RTE-Bos_taurus	CG - TGAGT C T	--GAGTGAAC	TCCG ----G	GAGTTGGTGA	TGGACAGGGA	--GGCCT -GGC	GTGCTCGCAT	3797
BovB_Me-RTE-Macropus_eugenii	-----	-----	-----	-----	-----	-----	-----	2564
BovB_Ano-RTE-Amphibolurus_norr	CA - TGA A T T T	--GACACAAC	TCCG ----G	GAGGCAGTGG	AAGATAGGAG	--GGCCT -GGC	GTGCTCTGGT	3246
BovB_Gd-RTE-Eremiascincus_doug	CA - TGA A A T T	--GGGCGAAC	TCCG ----G	AAGCTAGTGG	AGGACAGGGA	--GGCCT -GGC	GTGCTGTGGT	2836
BovB_Er-RTE-Eremiascincus_rich	CA - TGA A A T T	--GGGCGAAC	TCCG ----G	AAGCTAGTGG	AGGACAGGGA	--GGCCT -GGC	GTGCTGTGGT	3370
BovB_Ca-RTE-Ctenotus_atlas	CA - TGA A A T T	--GGGCGAAC	TCCG ----G	AAGCTAGTGG	AGGACAGGGA	--GGCCT -GGC	GTGCTGTGGT	3362
BovB_Es-RTE-Egernia_stokesii	CA - TGA A T T T	--GGACAAAAC	TCCA ----G	AAGTTAGTGG	TAGACAGGGG	--GGCCT -GGC	GTGCTGTGGT	3197
BovB_Tr-RTE-Tiliqua_rugosa	CA - TGA A T T T	--GGACAAAAC	TCTG ----G	AAGTTAGTGG	TAGACAGGGG	--GGCCT -GGC	ATGCTGTGGT	3210
BovB_ALI-RTE-Amblyomma_limbatu	TG - CGAGC C T	--AAGTGTAAC	ATCT ----G	GAAATAGTGG	AAGACAGGAA	--GGCCTGGGA	GGAGTGTGTT	3400
BovB_Hs-RTE-Hydrophis_spiralis	CA - TGAGC T T	TCAAATGGAA	AACTCTCCA	AAGATGGTAG	AGGACAGGAA	--GGCCTTGA	GGAACATTGT	1653
BovB_VA-RTE-Vipera_ammodytes	CG - TGAGC T T	--AAATGGCC	TCCA ----G	AAGATGGTAG	AGGACAGGAA	--GGCCT -GGA	GGAACATTGT	3167
BovB_ACo-RTE-Agkistrodon_conto	CG - TGAGC T T	--AAATGGAC	TCCA ----G	AAGATGGTAG	AGGACAGGAA	--GGCCT -GGA	GGAACGTTGT	3166
BovB_Pg-RTE-Perameles_gunnii	CA A TGA A C T T	--GGACAGAC	TTTG ----G	AAGATGGAGG	AGGATAGAA	--GGACCTGAC	ATGCTATATT	1357
BovB_lo-RTE-Isoodon_obesulus	CA - TGA A A T T	--AAACAG - T	CTTA ----A	GATATAATAG	AATATAAAA	--AAACCAGG -	ATGCTATAAT	1819
BovB_Bp-RTE-Burramys_parvulus	CA - TGA A C T T	--GGACAGAC	TTTG ----A	GAGATAGTGG	AGGATAGAA	--GGACTTGGT	GTACTAAGGT	1940
BovB_Pb-RTE-Petaurus_breviceps	CA - TGA A C T T	--GGACAGAC	TT -GG ----A	GACATAGTGG	AGGACAGAA	--GGGTCTGGC	ATGCCATGGT	1942
BovB_Ma-RTE-Macropus_antilopin	CA - TGA A C T T	--GGACAGAC	TTTG ----A	GAGACAGTGG	AAGATAGAAA	AGGGGCAGGC	ATGCTGTGGT	3284
BovB_Af-RTE-Antechinus_flavipe	AA - TGAGC T T	--GTACATAC	TTTA ----A	GATACACTAG	AGGATAAAA	--GAATCTAAT	AATTTAAGGA	2496
BovB_Ac-RTE-Anolis_carolinensi	CT - TGA C C T T	--GAAGGAAC	TGGG ----G	CGGGTGAACG	CCGACAGGGA	--GCTCTGGC	GTGGACTGGT	3144
BovB_BM-RTE-Bombyx_mori	-----	-----	-----	-----	-----	-----	-----	2863
BovB_Dr-RTE-Christinus	ACT TGA A C A T	--GGAACAAC	TGAA ----A	GAAGCGGTCA	GAAATAGGAA	--AGCATGGC	AAATCATGAT	3036
BovB_La-RTE-Loxodonta_africana	GCT CA A G C A T	--AAACAACGA	TTGT ----A	AGCATGGCAC	AGGACCAGGC	--AGTGTTC	ATTCTGTTGT	3162
BovB_Pc-RTE-Procavia_capensis	GCT TA A G C A T	--AAAAACGA	TTGT ----G	GACATGGCAC	AAGACTGGGC	--AGTGTTC	ATTCTGTTGT	3162
BovB_Et-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	2573
BovB_Ta-RTE-Tachyglossus_acule	AAGAACCATT	--AGAAAGGT	TGCC ----G	ATTATGGCAG	AGGACAGGAC	--GTTCTGGA	GAAAATATAT	3302
BovB_Plat-RTE-Ornithorhynchus	AAGAACCATT	--AGAAAGGT	TGCC ----G	ATTATGGCAG	AGGACAGGAC	--GTTCTGGA	GAAAATATAT	3291
BovB_Ec-RTE-Equus_caballus	GCA TGA G T C T	--ACAGAAGC	TGAG ----T	AGGGCTGTTG	AGGACAGGAC	--ATTGTGGA	CATCACTCAT	3062
BovB_Cg-RTE-Christinus	CCCTCAGTTT	--GCAAGACC	TGAG ----C	AAGGCTGTTA	ACAATAGGAT	--GTTTTGGA	GGACATTAAT	2610
BovB_Bh-RTE-Bothriocroton_hydr	ACGTGAAATT	--GGGCGAAC	TCTC ----G	AATCTAGTGA	AGGACAGAGA	--GGCCT -GC	GTGCTGTGGC	1614
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	1449
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	56
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	477
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	568
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	231
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	538
Stu-rnd-5_family3162_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	2547
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	1316
Stu-rnd-5_family2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	215
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	564
Stu-rnd-6_family2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	105
Consensus	-----A-----T	-----	-----	-----A-A-----	-----	-----	-----T	



	4,360		4,380		4,400			
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	-----	306		
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	-----	135		
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	-----	87		
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	-----	671		
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	-----	437		
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	-----	861		
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	-----	393		
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	-----	609		
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	-----	347		
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	-----	122		
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	-----	446		
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	-----	743		
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	-----	65		
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	-----	119		
BovB_GI-RTE-Gehyra_lazelli	CCATGGGGTC	GCAAAGAGTC	--GGAGCCGA	CTGT--GCGA	CTGAACAACA	ACAACAAAA--ACA	ACTAACA	3379
BovB_Gv-RTE-Gehyra_variegata	CCATGGGGTC	GCAAAGAGTC	--GGAGCCGA	CTGT--GCGA	CTGAACAACA	ACAACAGCTC	ATGATCTGAG	3307
BovB_PMo-RTE-Python_molurus	TCATGGGGTC	ACGAAGAGTC	--GGACACGA	CTTA--ACGA	CTGAACAACA	ACAACAATT--	CTATTCTATT	3236
BovB_Oa-RTE-Ovis_aries	CCATGGGGTC	ACAAAGAGTC	--AGACATGA	CTGA--GCGA	CTGAACAACA	ACAA-----	-----	3259
BovB-RTE-Bos_taurus	TCATGGGGTC	GCAAAGAGTC	--GGACACGA	CTGA--GCGA	CTGAAGTAA	CTGA-----	-----	3847
BovB_Me-RTE-Macropus_eugenii	-----	-----	-----	-----	-----	-----	-----	2564
BovB_Ano-RTE-Amphibolurus_norr	CCATGGGGTC	ACGAAGAGTC	--GGACACGA	CTAA--ACGA	CTAAACGAAC	GACGATGAAA	AAA-----	3305
BovB_Gd-RTE-Eremiascincus_doug	CCATGGGGTC	GCGAAGAGTC	--GGACACGA	CTTA--GCGA	CTGAACAACA	ACAATTA	GCAGCAGCCT	2902
BovB_Er-RTE-Eremiascincus_rich	CCATGGGGTC	GCGAAGAGTC	--GGACACGA	CTTA--GCGA	CTGAACAACA	ACAACAATTA	TTAAAGATTA	3436
BovB_Ca-RTE-Ctenotus_atlas	CCATGGGGTC	GCGAAGAGTC	--GGACACGA	CTTA--GCGA	CTGAACAACA	ACAACAACA	A-----	3419
BovB_Es-RTE-Egernia_stokesii	CCATGGGGTC	ACGAAGAGTC	--GGACATGA	CTTA--ACGA	CTGAACAACA	ACAAAAACA	CAAACTGCA	3263
BovB_Tr-RTE-Tiliqua_rugosa	CCATGGGGTC	ACAAAGAGTC	--GGACATGA	CTTA--ACGA	CTGAACAACA	ACAA-----	-----	3260
BovB_ALi-RTE-Amblyomma_limbatu	CCATGGGGTC	GCGATGGGTC	--GGACATGA	CTTT--GCGA	CT--AACAACA	ATCAGTAAAA	AAAAAAGCA	3466
BovB_Hs-RTE-Hydrophis_spiralis	CCATGGGGTC	ATGATGGGTC	--AGACACGA	CTTT--GCAA	CT--AACAACA	AC-----AA	CAAGTAAATA	1712
BovB_VA-RTE-Vipera_ammodytes	CCATAGGGTC	GCGATGGGTC	--GGACACGA	CTTC--GCGA	CT--AACAACA	AC-----AA	CAATTCTATT	3226
BovB_ACo-RTE-Agkistrodon_conto	CCATGGGGTC	GCGATGGGTC	--GGACACGA	CTTC--GCAA	CT--AACAACA	AC-----AA	CAATTCTATT	3225
BovB_Pg-RTE-Perameles_gunnii	GCAAAA-----	-GGAAACAAA	--AAACTTAA	TTAA--ACAC	CAACAAAAAT	ATACCATAGA	TAAATAATAT	1417
BovB_lo-RTE-Isoodon_obesulus	TCAAAAAGTC	AGGAAAAGTC	--AGACATGA	CTGA--ATGA	CTGAATAACA	ATCTCAT---	TCAATAGTAA	1882
BovB_Bp-RTE-Burramys_parvulus	CCATGGGATC	ATGAAAAGTC	--AGGAATGA	--AA--AAAA	CAAAAAAAA	AAGAAATTA--	TGATACTCA	2001
BovB_Pb-RTE-Petaurus_breviceps	CCATGGGACTC	ACAAAGACTG	--AGACGTGG	CTAA--ATGA	CTCAACAACA	ACTAGTTA--	AAATAATAG	2005
BovB_Ma-RTE-Macropus_antilopin	CCATGGGGTC	ACAAAGAGTT	--GAACATAA	CGAA--AAAA	AACAACAACA	ACAACAAA--	ACGTATAGC	3347
BovB_Af-RTE-Antechinus_flavipe	CCAGAAAGGC	CAAAAAAGGA	--AAAAAA--	--AA--ATAA	CTGAACAACA	ACAACAAT--	AAGCAGAAA	2555
BovB_Ac-RTE-Anolis_carolinensi	CCATGAGGTC	ACGAAGAGTC	--GGAAACGA	CTAA--ACGA	-----	-----	-----	3180
BovB_BM-RTE-Bombyx_mori	-----	-----	-----	-----	-----	-----	-----	2863
BovB_Dr-RTE-Christinus	CCATAAAGTG	GCGGAAAGTC	--GGTGTGCA	CTGATTGGCT	AATCATCATC	ATAAT-----	-----	3089
BovB_La-RTE-Loxodonta_africana	ACATAGGGCC	ACTATGAGTC	--AGAACCGA	CTCGACGGCA	CCTAACAACA	A-----	-----	3211
BovB_Pc-RTE-Procavia_capensis	TCATAGGGTC	GCTATGAGTC	--AGAACCGA	CTCAATGGCA	CCTAACAACA	ACAACAACCTC	T-----	3221
BovB_Et-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	2573
BovB-Ta-RTE-Tachyglossus_acule	CCATAGAGTC	GCTATGAATC	--GGAATGA	CTCGATGGCA	CTTGATAATA	ATAATAATAA	TAACACTAAT	3370
BovB_Plat-RTE-Ornithorhynchus	CCATGGGATC	GCTATGAATC	--GGAACGA	CTCGACGGCA	CTTAATAATA	ATAATAATAA	-----	3349
BovB_Ec-RTE-Equus_caballus	TCATAGGGTC	ACCAGGATC	--AGAGCTGA	CTTGACGGCA	TGTAACA-AC	AA-----	-----	3111
BovB_Cg-RTE-Christinus	TCATAGGGTT	ACCAATAATC	CAGGAAGCAA	CTTGATGGCA	CTTAACACAC	ACACAATAG	GCAAAATATGA	2680
BovB_Bh-RTE-Bothriocroton_hydr	CCATGAGGTC	GCGAAGGTC	--GGACACGA	ATTA--GCGA	ATGGACAACA	ACATATTGAT	ATCCGGCTTA	1680
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	1449
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	56
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	477
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	568
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	231
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	538
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	2547
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	1316
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	215
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	564
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	105



	4,420	4,440	4,460	4,480				
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	306			
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	135			
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	87			
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	671			
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	437			
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	861			
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	393			
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	609			
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	347			
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	122			
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	446			
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	743			
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	65			
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	119			
BovB_GI-RTE-Gehyra_lazelli	CTGCCGCATA	TCAACAATCC	ATGGCCATA	AAATTTATAC	AAAAAAA-AA	TCAAATACT	CTAATACAAT	3448
BovB_Gv-RTE-Gehyra_variegata	CCACAGT-CA	GCTCCAGGTC	TTGTTTTACT	GACTGTATAC	AGTATCACAA	TCTACAGACA	GTCACCAAAT	3376
BovB_PMo-RTE-Python_molurus	CTGTTCTATT	CTATTCTATT	CTATTCTATT	CTAT-TCTGT	TCTGTTCTGT	TCT-----	-----	3288
BovB_Oa-RTE-Ovis_aries	-----	-----	-----	-----	-----	-----	-----	3259
BovB-RTE-Bos_taurus	-----	-----	-----	-----	-----	-----	-----	3847
BovB_Me-RTE-Macropus_eugenii	-----	-----	-----	-----	-----	-----	-----	2564
BovB_Ano-RTE-Amphibolurus_norr	-----	-----	-----	-----	-----	-----	-----	3305
BovB_Gd-RTE-Eremiascincus_doug	GCCAA-----	-----CAACAA	TGTACAATTT	ACG-TTGAAA	TACAGCATAT	AAATACTATT	AACTG-----	2957
BovB_Er-RTE-Eremiascincus_rich	AACAAATAAT	AATATGAAAA	TGTAAAAAT	CTAATTAACA	TTTCACTTGT	AACCCTAGTC	AATCCTAAAA	3506
BovB_Ca-RTE-Ctenotus_atlas	-----	-----	-----	-----	-----	-----	-----	3419
BovB_Es-RTE-Egernia_stokesii	AAAAAAATAA	TTCAAAATAAC	AACAGAGAA-	-----	-----	-----	-----	3292
BovB_Tr-RTE-Tiliqua_rugosa	-----	-----	-----	-----	-----	-----	-----	3260
BovB_ALi-RTE-Amblyomma_limbatu	ATAAAAAAAT	AAATTTAATT	ATCAATATTT	ACTTCATATC	AAATTTACTT	ATAT--GACT	ATATTTCAAA	3534
BovB_Hs-RTE-Hydrophis_spiralis	CAAAGAAAAAT	AA-CCCAACA	ATTA-TATTA	AATTGCAATT	ATTTACATCA	ATACCAAAT	AAACAAAGAA	1780
BovB_VA-RTE-Vipera_ammodytes	CTATTTCTATT	CTATTCTATA	TTCTGTCTCT	GTTCTATATT	CTATTCTATT	CTATTCT--	-----	3283
BovB_ACo-RTE-Agkistrodon_conto	CTATTCTATT	CTATTCTATT	CTATTCTATT	CTATTCTATT	CTATTCTATT	CTATTCT--	-----	3282
BovB_Pg-RTE-Perameles_gunnii	AAT-TAATTT	CAAATAAATT	CT--TCATTT	AGAGAATGGT	CATTGAAAGA	GATTTCCAG	GAAACAGTGT	1484
BovB_lo-RTE-Isoodon_obesulus	AAT-ATTATT	CAATTAATTT	CAAATAAACT	ATATTATCCT	TGCCTGTACA	TATTTTCCAA	-----	1941
BovB_Bp-RTE-Burramys_parvulus	AAA-TCAATA	TTTTTATTTT	TTAGAAAACT	ATTTAACATA	AGGCAAAATC	TGCTGAACAC	AGAAAAAT--	2067
BovB_Pb-RTE-Petaurus_breviceps	AAA--AGTG	GACCAG----	--AGGAAAAG	GAAGGAAGCA	AGGCAGGAAG	GTATGAAGAA	AGAAACCTGT	2066
BovB_Ma-RTE-Macropus_antilopin	ACT-ACGCTA	CAGTGGGACT	GT-GCTGGCT	TTAGTATCTA	AAAGACCT--	-----	-----	3393
BovB_Af-RTE-Antechinus_flavipe	ACTCTCAAGG	GATATACATT	C-----	-----	-----	-----	-----	2576
BovB_Ac-RTE-Anolis_carolinensi	-----	-----	-----	-----	-----	-----	-----	3180
BovB_BM-RTE-Bombyx_mori	-----	-----	-----	-----	-----	-----	-----	2863
BovB_Dr-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	3089
BovB_La-RTE-Loxodonta_africana	-----	-----	-----	-----	-----	-----	-----	3211
BovB_Pc-RTE-Procavia_capensis	-----	-----	-----	-----	-----	-----	-----	3221
BovB_Et-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	2573
BovB-Ta-RTE-Tachyglossus_acule	TGGAACACTG	TGTG-----	-----	-----	-----	-----	-----	3384
BovB_Plat-RTE-Ornithorhynchus	-----	-----	-----	-----	-----	-----	-----	3349
BovB_Ec-RTE-Equus_caballus	-----	-----	-----	-----	-----	-----	-----	3111
BovB_Cg-RTE-Christinus	TACATAAAAA	TTTCCCTCTG	TCTGFACTCT	TCTCCCTGAA	AACAACCTGT	CTCTAGCTGA	TTCCCTCCC	2750
BovB_Bh-RTE-Bothriocroton_hydr	TCTTACCAGT	ACTTACCTA-	-----	-----	-----	-----	-----	1699
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	1449
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	56
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	477
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	568
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	231
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	538
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	2547
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	1316
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	215
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	564
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	105
Consensus	-----	-----	-----	-----	-----	-----	-----	
Conservation								

	4,500	4,520	4,540							
Stu-rnd-1_family-417_LINE_RTE				306						
Sly-rnd1_family377-LINE/RTEBov				135						
Stu-rnd-1_family-489_LINE_RTE				87						
Stu-rnd-1_family-607_LINE_RTE				671						
Stu-rnd-1_family-645_LINE_RTE				437						
Sly-rnd4_family81-LINE/RTEBovB				861						
Stu-rnd-6_family-408_LINE_RTE				393						
Stu-rnd-1_family-351_LINE_RTE				609						
Stu-rnd-1_family-382_LINE_RTE				347						
Sly-rnd6_family746-LINE/RTEBov				122						
Stu-rnd-5_family-325_LINE_RTE				446						
Sly-rnd4_family509-LINE/RTEBov				743						
Stu-rnd-1_family-513_LINE_RTE				65						
Sly-rnd5_family1442-LINE/RTEBo				119						
BovB_GI-RTE-Gehyra_lazelli	ATA	TGGCTAAGAA	AAAGAAAGAT	CTACACACAT	GT-CTCCTGC	TCTAAAAAAA	CAA	3504		
BovB_Gv-RTE-Gehyra_variegata	GATGTAGACA	TTCCCATTAC	AGACTAGACC	CCTTAATAAT	GTA	CTTTTGA	AGAGCGGCAG	CAAAGTTAG	3446	
BovB_PMo-RTE-Python_molurus									3288	
BovB_Oa-RTE-Ovis_aries									3259	
BovB-RTE-Bos_taurus									3847	
BovB_Me-RTE-Macropus_eugenii									2564	
BovB_Ano-RTE-Amphibolurus_norr									3305	
BovB_Gd-RTE-Eremiascincus_doug	ATTGACTT	TTTTAAAAAA	GGAACAGACT	TTCCCCCA	A	ACACAAAACC	TCCAG	C	GTCCCAGCTC	3021
BovB_Er-RTE-Eremiascincus_rich	ATATTGCCAA	AGTGAAAAAA	GAAGCATATA	TATTTTCAGA	ACACCTA	ATAATAGACC	TATCAAACAC			3576
BovB_Ca-RTE-Ctenotus_atlas										3419
BovB_Es-RTE-Egernia_stokesii										3292
BovB_Tr-RTE-Tiliqua_rugosa										3260
BovB_ALi-RTE-Amblyomma_limbatu	ATATTACAAA	CAGTAGTATC	GAAATATATA	TTGTAGAAAC	CATGAGCATT	AAACAAGTAT	ACTATTGATT			3604
BovB_Hs-RTE-Hydrophis_spiralis	GTA	CTN-AAA	AGATAATATA	CTAAAGCATA	TTCTTGAAAT	GATTA	AAAGCA	AAATTGCTAA	GACCGTTATT	1849
BovB_VA-RTE-Vipera_ammodytes										3283
BovB_ACo-RTE-Agkistrodon_conto										3282
BovB_Pg-RTE-Perameles_gunnii	ACTTGGAAC	TGGAATAATT	GGGTTGATGT	TGTGGACACT	GATTGTGGCA	AGAAA	ACTTC	TGATCTAGAA		1583
BovB_lo-RTE-Isodon_obesulus										1941
BovB_Bp-RTE-Burramys_parvulus										2067
BovB_Pb-RTE-Petaurus_breviceps	CTATAACTTA	TTAGATCATC	TTTTTAAAGT	TGCTGTGACA	AAAA					2110
BovB_Ma-RTE-Macropus_antilopin										3393
BovB_Af-RTE-Antechinus_flavipe										2576
BovB_Ac-RTE-Anolis_carolinensi										3180
BovB_BM-RTE-Bombyx_mori										2863
BovB_Dr-RTE-Christinus										3089
BovB_La-RTE-Loxodonta_africana										3211
BovB_Pc-RTE-Procavia_capensis										3221
BovB_Et-RTE-Christinus										2573
BovB_Ta-RTE-Tachyglossus_acule										3384
BovB_Plat-RTE-Ornithorhynchus										3349
BovB_Ec-RTE-Equus_caballus										3111
BovB_Cg-RTE-Christinus	CCCCCCCCAT	TAGTGAATT	CCATTG							2776
BovB_Bh-RTE-Bothriocroton_hydr										1699
BovB_MI-RTE-Gehyra_variegata										1449
Sly-rnd1_family284-LINE/RTEBov										56
Sly-rnd5_family2019-LINE/RTEBo										477
Sly-rnd3_family322-LINE/RTEBov										568
Sly-rnd5_family1698-LINE/RTEBo										231
Sly-rnd1_family795-LINE/RTEBov										538
Stu-rnd-5_family-3162_LINE_RTE										2547
Sly-rnd6_family1960-LINE/RTEBo										1316
Stu-rnd-5_family-2493_LINE_RTE										215
Sly-rnd5_family447-LINE/RTEBov										564
Stu-rnd-6_family-2093_LINE_RTE										105
Consensus										
Conservation										

	4,560	4,580	4,600	4,620					
Stu-rnd-1_family-417_LINE_RTE	-----	-----	-----	-----	306				
Sly-rnd1_family377-LINE/RTEBov	-----	-----	-----	-----	135				
Stu-rnd-1_family-489_LINE_RTE	-----	-----	-----	-----	87				
Stu-rnd-1_family-607_LINE_RTE	-----	-----	-----	-----	671				
Stu-rnd-1_family-645_LINE_RTE	-----	-----	-----	-----	437				
Sly-rnd4_family81-LINE/RTEBovB	-----	-----	-----	-----	861				
Stu-rnd-6_family-408_LINE_RTE	-----	-----	-----	-----	393				
Stu-rnd-1_family-351_LINE_RTE	-----	-----	-----	-----	609				
Stu-rnd-1_family-382_LINE_RTE	-----	-----	-----	-----	347				
Sly-rnd6_family746-LINE/RTEBov	-----	-----	-----	-----	122				
Stu-rnd-5_family-325_LINE_RTE	-----	-----	-----	-----	446				
Sly-rnd4_family509-LINE/RTEBov	-----	-----	-----	-----	743				
Stu-rnd-1_family-513_LINE_RTE	-----	-----	-----	-----	65				
Sly-rnd5_family1442-LINE/RTEBo	-----	-----	-----	-----	119				
BovB_GI-RTE-Gehyra_lazelli	-----AA	GGCTCCACAC	CAATCCTGTT	CCTAATGAAC	A-----T	AGAAAATAAA	TCAATACTCG	3558	
BovB_Gv-RTE-Gehyra_variegata	GTTGTTGAAA	GGTTGTTGAA	AGATGGTGT	TGTTATGACC	GGTGTGTTTT	CATGCCTAGA	ACGCTGTTAG	3516	
BovB_PMo-RTE-Python_molurus	-----	-----	-----	-----	-----	-----	-----	3288	
BovB_Oa-RTE-Ovis_aries	-----	-----	-----	-----	-----	-----	-----	3259	
BovB-RTE-Bos_taurus	-----	-----	-----	-----	-----	-----	-----	3847	
BovB_Me-RTE-Macropus_eugenii	-----	-----	-----	-----	-----	-----	-----	2564	
BovB_Ano-RTE-Amphibolurus_norr	-----	-----	-----	-----	-----	-----	-----	3305	
BovB_Gd-RTE-Eremiascincus_doug	TGTGCACTCC	CA--GAACCC	TGCCCCCACT	CACCTGGTAG	AAGGCAGGCC	TGTGTCCTTC	AGGGAGCCAA	3089	
BovB_Er-RTE-Eremiascincus_rich	CACCCGACTG	CAAGGAGATC	CAGTCGGGCA	ATCCTGCAGG	AAGTCAAGCC	TGATTGCTCC	CTGGAAGGAC	3646	
BovB_Ca-RTE-Ctenotus_atlas	-----	-----	-----	-----	-----	-----	-----	3419	
BovB_Es-RTE-Egernia_stokesii	-----	-----	-----	-----	-----	-----	-----	3292	
BovB_Tr-RTE-Tiliqua_rugosa	-----	-----	-----	-----	-----	-----	-----	3260	
BovB_ALi-RTE-Amblyomma_limbatu	TTTGACGGGG	ACTTTCTCAT	TGTTTGCCT	CATGCTTCTA	T-----	-----	-----	3645	
BovB_Hs-RTE-Hydrophis_spiralis	TTAATGACAG	TCTATAAAAC	AATGCTCACA	AATGGATTTA	TGCT-----	-----	-----	1893	
BovB_VA-RTE-Vipera_ammodytes	-----	-----	-----	-----	-----	-----	-----	3283	
BovB_ACo-RTE-Agkistrodon_conto	-----	-----	-----	-----	-----	-----	-----	3282	
BovB_Pg-RTE-Perameles_gunnii	AAG-----	-----	-----	-----	-----	-----	-----	1556	
BovB_lo-RTE-Isodon_obesulus	-----	-----	-----	-----	-----	-----	-----	1941	
BovB_Bp-RTE-Burramys_parvulus	-----	-----	-----	-----	-----	-----	-----	2067	
BovB_Pb-RTE-Petaurus_breviceps	-----	-----	-----	-----	-----	-----	-----	2110	
BovB_Ma-RTE-Macropus_antilopin	-----	-----	-----	-----	-----	-----	-----	3393	
BovB_Af-RTE-Antechinus_flavipe	-----	-----	-----	-----	-----	-----	-----	2576	
BovB_Ac-RTE-Anolis_carolinensi	-----	-----	-----	-----	-----	-----	-----	3180	
BovB_BM-RTE-Bombyx_mori	-----	-----	-----	-----	-----	-----	-----	2863	
BovB_Dr-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	3089	
BovB_La-RTE-Loxodonta_africana	-----	-----	-----	-----	-----	-----	-----	3211	
BovB_Pc-RTE-Procavia_capensis	-----	-----	-----	-----	-----	-----	-----	3221	
BovB_Et-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	2573	
BovB_Ta-RTE-Tachyglossus_acule	-----	-----	-----	-----	-----	-----	-----	3384	
BovB_Plat-RTE-Ornithorhynchus	-----	-----	-----	-----	-----	-----	-----	3349	
BovB_Ec-RTE-Equus_caballus	-----	-----	-----	-----	-----	-----	-----	3111	
BovB_Cg-RTE-Christinus	-----	-----	-----	-----	-----	-----	-----	2776	
BovB_Bh-RTE-Bothriocroton_hydr	-----	-----	-----	-----	-----	-----	-----	1699	
BovB_MI-RTE-Gehyra_variegata	-----	-----	-----	-----	-----	-----	-----	1449	
Sly-rnd1_family284-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	56	
Sly-rnd5_family2019-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	477	
Sly-rnd3_family322-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	568	
Sly-rnd5_family1698-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	231	
Sly-rnd1_family795-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	538	
Stu-rnd-5_family-3162_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	2547	
Sly-rnd6_family1960-LINE/RTEBo	-----	-----	-----	-----	-----	-----	-----	1316	
Stu-rnd-5_family-2493_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	215	
Sly-rnd5_family447-LINE/RTEBov	-----	-----	-----	-----	-----	-----	-----	564	
Stu-rnd-6_family-2093_LINE_RTE	-----	-----	-----	-----	-----	-----	-----	105	
Consensus	-----	-----	-----	-----	-----	-----	-----		
Conservation	100% 0%								

	4,640	4,660	4,680					
Stu-rnd-1_family-417_LINE_RTE				306				
Sly-rnd1_family377-LINE/RTEBov				135				
Stu-rnd-1_family-489_LINE_RTE				87				
Stu-rnd-1_family-607_LINE_RTE				671				
Stu-rnd-1_family-645_LINE_RTE				437				
Sly-rnd4_family81-LINE/RTEBovB				861				
Stu-rnd-6_family-408_LINE_RTE				393				
Stu-rnd-1_family-351_LINE_RTE				609				
Stu-rnd-1_family-382_LINE_RTE				347				
Sly-rnd6_family746-LINE/RTEBov				122				
Stu-rnd-5_family-325_LINE_RTE				446				
Sly-rnd4_family509-LINE/RTEBov				743				
Stu-rnd-1_family-513_LINE_RTE				65				
Sly-rnd5_family1442-LINE/RTEBo				119				
BovB_GI-RTE-Gehyra_lazelli	TTGAAGCCAA	ATAATATCAG	TTCGAGTCAA	AAGACCTAAT	GCAGAAACT	----TAAACC	AAACTCCCC	3623
BovB_Gv-RTE-Gehyra_variegata	CCTGTACCCA	GTGGGAACAT	AGCGGAG-AG	GGATCCCAGG	GCAAAAAATTG	TCCGTTATAC	AAGGGACTCC	3585
BovB_PMo-RTE-Python_molurus								3288
BovB_Oa-RTE-Ovis_aries								3259
BovB-RTE-Bos_taurus								3847
BovB_Me-RTE-Macropus_eugenii								2564
BovB_Ano-RTE-Amphibolurus_norr								3305
BovB_Gd-RTE-Eremiascincus_doug	AGCCAACCTA	GTAAAAGGGG	CTGAACCCGG	--TTCTTCC-				3126
BovB_Er-RTE-Eremiascincus_rich	AAATCCTGAA	GCTGAAGCTC	CAATACTTTG	GCTACCTCCT	GAGAAGAGAG	GACTCTTTAG	AAAAAACCT	3716
BovB_Ca-RTE-Ctenotus_atlas								3419
BovB_Es-RTE-Egernia_stokesii								3292
BovB_Tr-RTE-Tiliqua_rugosa								3260
BovB_ALi-RTE-Amblyomma_limbatu								3645
BovB_Hs-RTE-Hydrophis_spiralis								1893
BovB_VA-RTE-Vipera_ammodytes								3283
BovB_ACo-RTE-Agkistrodon_conto								3282
BovB_Pg-RTE-Perameles_gunnii								1556
BovB_lo-RTE-Isodon_obesulus								1941
BovB_Bp-RTE-Burramys_parvulus								2067
BovB_Pb-RTE-Petaurus_breviceps								2110
BovB_Ma-RTE-Macropus_antilopin								3393
BovB_Af-RTE-Antechinus_flavipe								2576
BovB_Ac-RTE-Anolis_carolinensi								3180
BovB_BM-RTE-Bombyx_mori								2863
BovB_Dr-RTE-Christinus								3089
BovB_La-RTE-Loxodonta_africana								3211
BovB_Pc-RTE-Procavia_capensis								3221
BovB_Et-RTE-Christinus								2573
BovB_Ta-RTE-Tachyglossus_acule								3384
BovB_Plat-RTE-Ornithorhynchus								3349
BovB_Ec-RTE-Equus_caballus								3111
BovB_Cg-RTE-Christinus								2776
BovB_Bh-RTE-Bothriocroton_hydr								1699
BovB_MI-RTE-Gehyra_variegata								1449
Sly-rnd1_family284-LINE/RTEBov								56
Sly-rnd5_family2019-LINE/RTEBo								477
Sly-rnd3_family322-LINE/RTEBov								568
Sly-rnd5_family1698-LINE/RTEBo								231
Sly-rnd1_family795-LINE/RTEBov								538
Stu-rnd-5_family-3162_LINE_RTE								2547
Sly-rnd6_family1960-LINE/RTEBo								1316
Stu-rnd-5_family-2493_LINE_RTE								215
Sly-rnd5_family447-LINE/RTEBov								564
Stu-rnd-6_family-2093_LINE_RTE								105
Consensus								
Conservation								

	4,700	4,720	4,740	4,760				
Stu-rnd-1_family-417_LINE_RTE					306			
Sly-rnd1_family377-LINE/RTEBov					135			
Stu-rnd-1_family-489_LINE_RTE					87			
Stu-rnd-1_family-607_LINE_RTE					671			
Stu-rnd-1_family-645_LINE_RTE					437			
Sly-rnd4_family81-LINE/RTEBovB					861			
Stu-rnd-6_family-408_LINE_RTE					393			
Stu-rnd-1_family-351_LINE_RTE					609			
Stu-rnd-1_family-382_LINE_RTE					347			
Sly-rnd6_family746-LINE/RTEBov					122			
Stu-rnd-5_family-325_LINE_RTE					446			
Sly-rnd4_family509-LINE/RTEBov					743			
Stu-rnd-1_family-513_LINE_RTE					65			
Sly-rnd5_family1442-LINE/RTEBo					119			
BovB_GI-RTE-Gehyra_lazelli	AAGAAGCCGA	ACAGAACCAA	AGCAACCG		3651			
BovB_Gv-RTE-Gehyra_variegata	TGCCTCCCGA	GCAGCACGAA	AGCCCATAAA	AGCAACAA	3623			
BovB_PMo-RTE-Python_molurus					3288			
BovB_Oa-RTE-Ovis_aries					3259			
BovB-RTE-Bos_taurus					3847			
BovB_Me-RTE-Macropus_eugenii					2564			
BovB_Ano-RTE-Amphibolurus_norr					3305			
BovB_Gd-RTE-Eremiascincus_doug					3126			
BovB_Er-RTE-Eremiascincus_rich	CATGCTGGGA	AAGATTGAAG	GGAGAAGGAG	AAGGGGGCGG	CAGAGAAGGA	CATCAATAGA	GAATTTCTGT	3786
BovB_Ca-RTE-Ctenotus_atlas					3419			
BovB_Es-RTE-Egernia_stokesii					3292			
BovB_Tr-RTE-Tiliqua_rugosa					3260			
BovB_ALi-RTE-Amblyomma_limbatu					3645			
BovB_Hs-RTE-Hydrophis_spiralis					1893			
BovB_VA-RTE-Vipera_ammodytes					3283			
BovB_ACo-RTE-Agkistrodon_conto					3282			
BovB_Pg-RTE-Perameles_gunnii					1556			
BovB_lo-RTE-Isodon_obesulus					1941			
BovB_Bp-RTE-Burramys_parvulus					2067			
BovB_Pb-RTE-Petaurus_breviceps					2110			
BovB_Ma-RTE-Macropus_antilopin					3393			
BovB_Af-RTE-Antechinus_flavipe					2576			
BovB_Ac-RTE-Anolis_carolinensi					3180			
BovB_BM-RTE-Bombyx_mori					2863			
BovB_Dr-RTE-Christinus					3089			
BovB_La-RTE-Loxodonta_africana					3211			
BovB_Pc-RTE-Procavia_capensis					3221			
BovB_Et-RTE-Christinus					2573			
BovB_Ta-RTE-Tachyglossus_acule					3384			
BovB_Plat-RTE-Ornithorhynchus					3349			
BovB_Ec-RTE-Equus_caballus					3111			
BovB_Cg-RTE-Christinus					2776			
BovB_Bh-RTE-Bothriocroton_hydr					1699			
BovB_MI-RTE-Gehyra_variegata					1449			
Sly-rnd1_family284-LINE/RTEBov					56			
Sly-rnd5_family2019-LINE/RTEBo					477			
Sly-rnd3_family322-LINE/RTEBov					568			
Sly-rnd5_family1698-LINE/RTEBo					231			
Sly-rnd1_family795-LINE/RTEBov					538			
Stu-rnd-5_family-3162_LINE_RTE					2547			
Sly-rnd6_family1960-LINE/RTEBo					1316			
Stu-rnd-5_family-2493_LINE_RTE					215			
Sly-rnd5_family447-LINE/RTEBov					564			
Stu-rnd-6_family-2093_LINE_RTE					105			
Consensus								
Conservation								

	4,780	4,800				
Stu-rnd-1_family-417_LINE_RTE			306			
Sly-rnd1_family377-LINE/RTEBov			135			
Stu-rnd-1_family-489_LINE_RTE			87			
Stu-rnd-1_family-607_LINE_RTE			671			
Stu-rnd-1_family-645_LINE_RTE			437			
Sly-rnd4_family81-LINE/RTEBovB			861			
Stu-rnd-6_family-408_LINE_RTE			393			
Stu-rnd-1_family-351_LINE_RTE			609			
Stu-rnd-1_family-382_LINE_RTE			347			
Sly-rnd6_family746-LINE/RTEBov			122			
Stu-rnd-5_family-325_LINE_RTE			446			
Sly-rnd4_family509-LINE/RTEBov			743			
Stu-rnd-1_family-513_LINE_RTE			65			
Sly-rnd5_family1442-LINE/RTEBo			119			
BovB_GI-RTE-Gehyra_lazelli			3651			
BovB_Gv-RTE-Gehyra_variegata			3623			
BovB_PMo-RTE-Python_molurus			3288			
BovB_Oa-RTE-Ovis_aries			3259			
BovB-RTE-Bos_taurus			3847			
BovB_Me-RTE-Macropus_eugenii			2564			
BovB_Ano-RTE-Amphibolurus_norr			3305			
BovB_Gd-RTE-Eremiascincus_doug			3126			
BovB_Er-RTE-Eremiascincus_rich	AGGTAAATTA	TTAATGTGAA	ATTCAGCTAA	CTTACACGAG	TCTAC	3831
BovB_Ca-RTE-Ctenotus_atlas						3419
BovB_Es-RTE-Egernia_stokesii						3292
BovB_Tr-RTE-Tiliqua_rugosa						3260
BovB_ALI-RTE-Amblyomma_limbatu						3645
BovB_Hs-RTE-Hydrophis_spiralis						1893
BovB_VA-RTE-Vipera_ammodytes						3283
BovB_ACo-RTE-Agkistrodon_conto						3282
BovB_Pg-RTE-Perameles_gunnii						1556
BovB_lo-RTE-Isodon_obesulus						1941
BovB_Bp-RTE-Burramys_parvulus						2067
BovB_Pb-RTE-Petaurus_breviceps						2110
BovB_Ma-RTE-Macropus_antilopin						3393
BovB_Af-RTE-Antechinus_flavipe						2576
BovB_Ac-RTE-Anolis_carolinensi						3180
BovB_BM-RTE-Bombyx_mori						2863
BovB_Dr-RTE-Christinus						3089
BovB_La-RTE-Loxodonta_africana						3211
BovB_Pc-RTE-Procavia_capensis						3221
BovB_Et-RTE-Christinus						2573
BovB_Ta-RTE-Tachyglossus_acule						3384
BovB_Plat-RTE-Ornithorhynchus						3349
BovB_Ec-RTE-Equus_caballus						3111
BovB_Cg-RTE-Christinus						2776
BovB_Bh-RTE-Bothriocroton_hydr						1699
BovB_MI-RTE-Gehyra_variegata						1449
Sly-rnd1_family284-LINE/RTEBov						56
Sly-rnd5_family2019-LINE/RTEBo						477
Sly-rnd3_family322-LINE/RTEBov						568
Sly-rnd5_family1698-LINE/RTEBo						231
Sly-rnd1_family795-LINE/RTEBov						538
Stu-rnd-5_family-3162_LINE_RTE						2547
Sly-rnd6_family1960-LINE/RTEBo						1316
Stu-rnd-5_family-2493_LINE_RTE						215
Sly-rnd5_family447-LINE/RTEBov						564
Stu-rnd-6_family-2093_LINE_RTE						105
Consensus						
Conservation						