

# A

		10	20	30	40	50	60	
<i>Homo sapiens</i> TSHB	1	TTTGAAACAGAGAGAGGAAAA	TGCATGCTTAA	TAATGTC	--AGTTT	CCAGGT	AAAG	56
<i>Macaca mulatta</i> TSHB	1	TTTGAAACAGGAGAGAGGAAAA	TGCATGCTTCA	TAATGTC	--AGTTT	CCAGGG	AAAG	56
<i>Papio hamadryas</i> TSHB	1	TTTGAAACAGGAGAGAGGAAAA	TGCATGCTTCA	TAATGTC	--AGTTT	CCAGGG	AAAG	56
<i>Tarsius syrichta</i> TSHB	1	TTTGAAATC--AGAGAGGAAAA	TGCATGCTTCA	TAATGTC	CAGAGTT	CCAGGG	GAAG	56
<i>Otolemur garnettii</i> TSHB	1	TTTGAAATAGGAGAGAGGAAAA	TGCATGCTTCA	TAATGTC	CAGAGTT	CCAGGA	GAAG	58
<i>Mus musculus</i> TshB	1	TTTCAAATAGAGAGAGGAAGA	TGCATGCTATA	TAATGTC	CAGAGTT	CCAGG	GAGAGG	59
<i>Rattus norvegicus</i> TshB	1	TTTCAAATAGGAGAGAGGAAGA	TGCATGCTATA	TAATGTC	CAGGTTT	CCAGG	GAGAGG	59
<i>Cavia porcellus</i> TSHB	1	TTTGAAATAGGAGAGAGGAAAA	TGCATACTAAA	TAATGTC	CAGAA	TTCCAGAG	TAAG	58
<i>Oryctolagus cuniculus</i> TSHB	1	TTTGAAATGGGAGATAGGAAAA	TGCATGCTTCA	TAATGTC	CAGAGTT	CCAGGG	GACG	58
<i>Tursiops truncatus</i> TSHB	1	TTTGAAATAGGAGAAAAGGAAA	TTCGTGCTGCA	TAATGTC	CAGAGTT	CCAGAG	GAAG	58
<i>Bos taurus</i> TSHB	1	TTTGAAATAGGAGAAAAGGAAAA	TTTCATGCTACA	TAATGTC	CACAGTT	CCAGAG	GAAG	59
<i>Vicugna pacos</i> TSHB	1	TTTGAAATAGGAGAAAAGGAAAA	TTTCATACTGCA	TAATGTC	CAGAGTT	CCAGAG	GAAG	58
<i>Equus caballus</i> TSHB	1	TTTGAAATAGGAGAGAGGAAAA	TTTCATGCTGAA	TAATGTC	CAGAGTT	CCAGAG	GAAG	58
<i>Canis lupus familiaris</i> TSHB	1	TTTGAAATAGGAGAGAGGAAAA	TTTCATGCTGTA	TAATGTC	CAGAGTT	CCAGAG	CAGT	58
<i>Myotis lucifugus</i> TSHB	1	TTTGAAATAGGAGAAAAGGAAA	TTTATGCTGCA	TAATGTC	--AGTTT	CCAGAG	GAAG	56
<i>Dasybus novemcinctus</i> TSHB	1	TTTGAAATAGGAGAGGGGAAAA	TGCATGCTGCA	TAATGTC	CAGAGTT	CCAGAG	GAAG	58
<i>Loxodonta africana</i> TSHB	1	TTTAAATAGGACAGAGGGAAG	TGCACACTGCA	TAATGTCAA	AGCTG	CCAGAG	GAAG	58

		70	80	90	100	110	120	
<i>Homo sapiens</i> TSHB	57	ATATTGTGAGCTTGT	TTTGTCTAAAT	TACATTTTAT	TTGGAATTCAG	TATGAATTTTCA	ATA	116
<i>Macaca mulatta</i> TSHB	57	ATATTGTGAGCTTGT	TTTGTCTAAAT	TACATTTTAT	TTGGAGTTCAG	TATGAATTTTCA	ATA	116
<i>Papio hamadryas</i> TSHB	57	ATATTGTGAGCTTGT	TTTGTCTAAAT	TACATTTTAT	TTGGAGTTCAG	TATGAATTTTCA	ATA	116
<i>Tarsius syrichta</i> TSHB	57	ATATCGTGAGCTTGT	TTTGTCTAAAC	CACATTTTAT	TTGGGGTTCAG	TATGAATTTTCA	ATA	116
<i>Otolemur garnettii</i> TSHB	59	ATATCGTGAGCTTGT	TTTGTCTAAAC	CACATTTTAT	TTGGGGTTCAG	TATGAATTTTCA	AAA	118
<i>Mus musculus</i> TshB	60	ATATAGTGAACCTGT	TTTGTCTAAACA	AGTTTTAT	TTGGGGTTCAG	TATGAATTTTCA	ATA	119
<i>Rattus norvegicus</i> TshB	60	ATCTAGTGAACCTGT	TTTGTCTAAACA	CAGTTTTAT	TTGGGGTTCAG	TATGAATTTTCA	ATA	119
<i>Cavia porcellus</i> TSHB	59	ATATCGTGAACCTGT	TTTGTCTAAAC	CACATTTTAT	TTGGGGTTCAG	TATGAATTTTCA	GTA	117
<i>Oryctolagus cuniculus</i> TSHB	59	ATACTGTGAACCTGT	TTTGTCTAAAC	CACATTTTAT	TTGGAGTTTGT	TATGAATTTTCA	ATA	118
<i>Tursiops truncatus</i> TSHB	59	ATGTTGTGAAATTGT	TTTGTCTAAAC	CACATTTTAT	TTGGGGTTCAG	TATGAATTTTCA	ATA	118
<i>Bos taurus</i> TSHB	60	AT--GTGAGTGT	TTTGTCTAAAC	CACATTTTAT	TTGAGATTCA	TATGAATTTTCA	ATA	116
<i>Vicugna pacos</i> TSHB	59	ATGTTGTGAAATTGT	TTTGTCTAAAC	CACATTTTAT	TTGGGGCTCT	TATGAATTTTCA	ATA	118
<i>Equus caballus</i> TSHB	59	ATGTTGTGAAATTGT	TTTGTCTAAAC	CAGTTTTAT	TTGAGTTTCAG	TATGAATTTTCA	GTA	118
<i>Canis lupus familiaris</i> TSHB	59	ATGTTGTGAAATTGT	TTTGTCTAAAC	ATTTTTAT	TTGGGGTTCAG	TATGAATTTTCA	ATA	118
<i>Myotis lucifugus</i> TSHB	57	-----CCCTGTTT	TTTGTCTAAAC	CACATTTTAT	TTGGGGTTCAG	TATGAATTTTCA	ATA	107
<i>Dasybus novemcinctus</i> TSHB	59	ATCTTGTGAACCTGT	TTTGTCTAAAC	CACATTTTAT	TTGGGGTTCAG	TATGAATTTTCA	ATA	118
<i>Loxodonta africana</i> TSHB	59	ATATTATGAACCTGT	TTTGTCTAAAC	CACATTTTAT	-----	TATGAATTTTCA	GTA	107

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		130	140	150	160	170	180	
<i>Homo sapiens</i> TSHB	117	GATGCTTTTT--	CAGATAAGAAAG	CAGTAAATCA	AAATGCAATTG	TATAAAACA	AAGAAGATCA	174
<i>Macaca mulatta</i> TSHB	117	GATGCTTTTT--	CAGATAAAAAAG	CAGTAAATCA	AAATGCAATTAT	TATAAAACA	AGGAAGATCA	174
<i>Papio hamadryas</i> TSHB	117	GATGCTTTTT--	CAGATAAAAAAG	CAGTAAATCA	AAATGCAATTAT	TATAAAACA	AGGAAGATCA	174
<i>Tarsius syrichta</i> TSHB	117	GATGTTTTTT--	CAGATAAGAAAG	CAGTAAATCA	AAATGCAATTAT	TATAAAACA	AAGAAGATCA	174
<i>Otolemur garnettii</i> TSHB	119	GATGTTTTTT--	CAGATAAGAAAG	CAGTAAATCA	AAATGCAATTAT	TATAAAACA	AAGAAGATCA	176
<i>Mus musculus</i> TshB	120	GATGCTTTTT--	CAGATAAGAAAG	CAGCAATTCG	AATGCAATTAT	TATAAAACA	AAGAAGATCA	177
<i>Rattus norvegicus</i> TshB	120	GATGCTTTTT--	CAGATAAGAAAG	CAGCAATTCG	AATGCAATTAT	TATAAAACA	AAGAAGATCA	177
<i>Cavia porcellus</i> TSHB	118	GATGTTTTTT--	CAGATAAGAAAG	CAGTAAATCA	AAATGCAATTAT	TATAAAACA	AAGA--TCA	172
<i>Oryctolagus cuniculus</i> TSHB	119	GATGTTTTTG--	CAGATAAGAAAG	CAGCAACTCA	AGTCAATTAT	TATAAAACA	AAGAAGCTCA	176
<i>Tursiops truncatus</i> TSHB	119	GATGGTTTTT--	TAGATAAGGAAG	CGGTAATTC	AAATGTGATTAT	TATAAAACA	AAGAAGATCA	176
<i>Bos taurus</i> TSHB	117	GATGGTTTTT--	CAGATAAGAAAG	CAGTAAATCA	AAATGTGATTAT	TATAAAACA	AAGAGATCA	174
<i>Vicugna pacos</i> TSHB	119	GATGTTTTCT--	TAGATAAGGAAG	CCAGTAAAT	CAATGTGATTAT	TATAAAACA	AAGAAGATCA	176
<i>Equus caballus</i> TSHB	119	GATGTTTTTT--	CAGATAAGAAAG	CAGTAAATCA	AAATGCAATTAT	TATAAAACA	AAGAAGATCA	176
<i>Canis lupus familiaris</i> TSHB	119	GATGTTTTTTT	CAGATAAGAAAG	CAGTAAATCA	AAATGCAATTAT	TATAAAACA	AAGAAGATCA	178
<i>Myotis lucifugus</i> TSHB	108	GATGTTTTTT--	CAGATAAGGAAG	CAGTAAATCA	AAATGCAATTAT	TATAAAACA	AAGAAGATCA	165
<i>Dasybus novemcinctus</i> TSHB	119	GATATTTTTT--	CAGATAAGAGAG	CAGTCAATTC	AAATGCAATTAT	TATAAAACA	AAGAAGATCA	176
<i>Loxodonta africana</i> TSHB	108	GATGATTTTT--	CAGATAAGAAAG	CAATAATTC	AAATGCAATTAT	TATAAAACA	AAGAAGATCA	165

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		190	200	210	220	230	240	
<i>Homo sapiens</i> TSHB	175	GA-GGG-ATTATCTGAAGGGTATAAAATGAACC	CAAGAGCTTTTAGTTGGGTCAC	CACA	232			
<i>Macaca mulatta</i> TSHB	175	GA-GGGGATTATCTGAAGGGTATAAAATGAACC	CAAGAGCTTTTAGTTGGGTCATCACA	233				
<i>Papio hamadryas</i> TSHB	175	GA-GGGGATTATCTGAAGGGTATAAAATGAACC	CAAGAGCTTTTAGTTGGGTCATCACA	233				
<i>Tarsius syrichta</i> TSHB	175	GAAGGGGATTATCTGAAGGGTATAAAATGAACC	CAAGAGCTTTTAGCTGGGTCATCACA	234				
<i>Otolemur garnettii</i> TSHB	177	GAGGGGAATTATCTGAAGGGTATAAAATGAACC	CAAGAGCTTTCAGTCTGGGTCATCACA	236				
<i>Mus musculus</i> TshB	178	GAGGGGAATTATCTGAAGGGTATAAAATGAAC	CGAGAG-----TGGGTCATCACA	228				
<i>Rattus norvegicus</i> TshB	178	GAGGGGAATTATCTCGAAGGGTATAAAATGAAC	--AGAG-----TCTGGGTCATCACA	228				
<i>Cavia porcellus</i> TSHB	173	GAGGGGAATTATCTTGAAGAGTATAAAACGAAC	CAAGAG-----TCTGGGTCATCACA	225				
<i>Oryctolagus cuniculus</i> TSHB	177	GAGGGGAATTATCTGCTGAAGGATATAAAATGAAC	CAAGAGCTCTCAGTCTGGGTCATCACA	236				
<i>Tursiops truncatus</i> TSHB	177	GAGAGGAATTATCTGAAGGGTATAAAATGAACC	CAAGAGCTTCTAGTCTGGGTCATTACA	236				
<i>Bos taurus</i> TSHB	175	GAGAGGAATTATCTGAAGGGTATAAAATGAACC	CAAGAGCTTTTAGTCTGGGTCATTACA	234				
<i>Vicugna pacos</i> TSHB	177	GAGAGGAATTATCTGAAGGGTATAAAATGAACC	CAAGAGATTTTAGTCTGGGTCTTTACA	236				
<i>Equus caballus</i> TSHB	177	GAGAGGAATTATCTCGAAGGGTATAAAATGAAC	--AAGAGCGTTTAGTCTGGGTCATTACA	235				
<i>Canis lupus familiaris</i> TSHB	179	GAGAGGAATTATCTCGAAGGGTATAAAATGAAC	CAAGAGCTTTTAGTCTGGGTCATTATA	238				
<i>Myotis lucifugus</i> TSHB	166	GAGGGACTTATCTCAAAGGGTATAAAATGAACC	CAAGAGGTTTTGTCTGAGTCACTACA	225				
<i>Dasybus novemcinctus</i> TSHB	177	GAGGGGAATTATGCTGAAAATATAAAATGAACC	AAGAGCTTTTAGTATGGGCCATTACA	236				
<i>Loxodonta africana</i> TSHB	166	GAGGGGAATTATCTTGAAGGGTATAAAATGAAC	CAAGAGCTTTTAGTCAAGGCCATTACA	225				

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		250	260	270	280	290	300	
<i>Homo sapiens</i> TSHB	233	GCATCTGCTCACCAATGCA-----AAGTAAGGTAGGTG	CTATAGTGAGAAGGCCTCTGTG	287				
<i>Macaca mulatta</i> TSHB	234	GCATCTGCTCACCAATGCA-----AAGTAAGGTAGGTG	CTATAGTAAGAAGGCCTCTGTG	288				
<i>Papio hamadryas</i> TSHB	234	GCATCTGCTCACCAATGCA-----AAGTAAGGTAGGTG	CTATAGTAAGAAGGCCTCTGTG	288				
<i>Tarsius syrichta</i> TSHB	235	GCATCCGCTCACCAATGCA-----AAGTAAGGTAGGTG	CTAACTGAGAAGGCCTGCA	288				
<i>Otolemur garnettii</i> TSHB	237	GCATCCGCTCACCCTATGCA-----AAGCAAGGTAGGTG	CTATACTAAGAAGGCCTCTGTG	291				
<i>Mus musculus</i> TshB	229	GCAGTAACTCAGTCATGCA-----AAGTAAGGTAGGTG	CTACCCCTGTGCAGAACCTGTA	283				
<i>Rattus norvegicus</i> TshB	229	GCATTAACTCGCCAGTGC-----AAGTAAGGTAGGTG	CTTACCCGAGCAGACCTGTA	283				
<i>Cavia porcellus</i> TSHB	226	GCATCAGCTCACCAATGCA-----AAGTAAGGTAAAGTGC	CTATATGAGAAGGCCTCTGTG	280				
<i>Oryctolagus cuniculus</i> TSHB	237	GCCTCAGCTCACCAATGCA-----AAGGTAGGTG	CGCAAAATGAGAAGACTCTGTG	287				
<i>Tursiops truncatus</i> TSHB	237	GCATCAGCTCCCAATGCA-----AAGTAAGGTAGGTG	CTACACTGAGAAGGCATTTGTG	291				
<i>Bos taurus</i> TSHB	235	ACATCAGCTCACCAATGCA-----AAGTAAGGTAGGTG	CTACCTGAGAAGGCCTTTGTG	289				
<i>Vicugna pacos</i> TSHB	237	GCATCAGCTCACCAATGCA-----AAGTAAGGTAGGTG	CTACACTGAAAAGGCCTTTGTG	291				
<i>Equus caballus</i> TSHB	236	GCATCAGCTCACCAATGCA-----AAGTAAGGTAGGTG	CTGCACCTGAGAAGGCCTTTGTG	290				
<i>Canis lupus familiaris</i> TSHB	239	CCATCCAGCTCACCAATGCA-----AAGTAAGGTAGGTG	CTTACACTGAGGAGGCCTTTGTG	293				
<i>Myotis lucifugus</i> TSHB	226	GCATCAGCTCACCAATGCAAGAACAAGTAAGGTAGGTG	CTTACACTGAGAAGGCCTTTGCA	285				
<i>Dasybus novemcinctus</i> TSHB	237	GCATCAACTCATTCAATGCA-----AATTCAGGTAAAGT	TTCTATACTGAGAAGGCTTTGGG	291				
<i>Loxodonta africana</i> TSHB	226	GCATCAGCTC--CAGTGC-----AAGTCAGGTAGGTG	CTATCTGAGAAGGCTTTGTG	278				

310

<i>Homo sapiens</i> TSHB	288	AAATGATATGTTCTT	302 (-3459 bp)
<i>Macaca mulatta</i> TSHB	289	AAATGAAATGTTCTT	303 (-3284 bp)
<i>Papio hamadryas</i> TSHB	289	AAATGAAATGTTCTT	303 (-3450 bp)
<i>Tarsius syrichta</i> TSHB	289	AAATGAAATGTTCTT	303 (-3827 bp)
<i>Otolemur garnettii</i> TSHB	292	AAATAAAATGTTCTT	306 (-7147 bp)
<i>Mus musculus</i> TshB	284	AGATGAAGTGCCTTT	298 (-4293 bp)
<i>Rattus norvegicus</i> TshB	284	AAATGAAGTGCCTTT	298 (-3904 bp)
<i>Cavia porcellus</i> TSHB	281	AAATGAAACACTTTT	295 (-3785 bp)
<i>Oryctolagus cuniculus</i> TSHB	288	GAGTGCAGTGTCTT	302 (-4215 bp)
<i>Tursiops truncatus</i> TSHB	292	AAATGAAATGTTGTT	306 (-4111 bp)
<i>Bos taurus</i> TSHB	290	AAACGAAATGTTGCT	304 (-4224 bp)
<i>Vicugna pacos</i> TSHB	292	AAATGAAATGTTGCT	306 (-3975 bp)
<i>Equus caballus</i> TSHB	291	AAATGAAATGTTCTT	305 (-3747 bp)
<i>Canis lupus familiaris</i> TSHB	294	AAATGAAACATCTT	308 (-2900 bp)
<i>Myotis lucifugus</i> TSHB	286	AAATGAAATGTTCTT	300 (-3969 bp)
<i>Dasybus novemcinctus</i> TSHB	292	AAATGAAATGTTCTT	306 (-2387 bp)
<i>Loxodonta africana</i> TSHB	279	TAGTGAATGTTCTT	293 (-4300 bp)

# B

		10	20	30	40	50	60	
<i>Homo sapiens</i> FSHB	1	GCAATACTTGGAAAGGACTCTGAATTTCCCTGATTTAAAGATACAAAAGAAAAATCTGGA-	59					
<i>Pan troglodytes</i> FSHB	1	GCAATACTTGGAAAGGACTCCGAATTTCCCTGATTTAAAGATACAAAAGAAAAATATGGA-	59					
<i>Pongo abelii</i> FSHB	1	GCAATACTTGGAAAGGACTCTGAATTTCCCTGATTTAAACATACAAAAGAAAAATCTGTA-	59					
<i>Nomascus leucogenys</i> FSHB	1	GCAATACTTGGAAAGGACTCTGAATTTCCCTGATTTAAAGATACAAAAGAAAAATCTGGA-	59					
<i>Macaca mulatta</i> FSHB	1	GCAATACTTGGAAAGGACTCTGAATTTCCCTGATTTAAAGATACAAAAGAAAAATCTGGA-	59					
<i>Callithrix jacchus</i> FSHB	1	GCAATACTTGGAAAGGACTCTGAATTTCCCTGATTTAAAGATACAAAAGAAAAATCTGGA-	59					
<i>Mus musculus</i> FshB	1	GCAATGTTTCAGAAAGGATTCCTGAGTTCGCCAAGTTAAAGATCAGAAAGAATAGTCTAGAC	60					
<i>Rattus norvegicus</i> FshB	1	GCAATGCTCAGAAAGGATTCCTGAGTTCCTCAAGTTAAAGATCAGAAAGAAGTCTAGAC	60					
<i>Cavia porcellus</i> FSHB	1	GCAATATTTAGAA--GGATTCT--AATTTACCAAGTTAAAGATTGAAA--AACA--CCTAGA-	55					
<i>Oryctolagus cuniculus</i> FSHB	1	GCAATACCAGCAAAGGATTTTGAATTTCCCAAGTTAAAGATACAAAAGAGAAACCCGAA-	59					
<i>Bos taurus</i> FSHB	1	GCAATACTTGAAGAATTCCTGAATTTCCCAAGTTAAAGGTACAAAAGAAAAACCCAAA-	59					
<i>Equus caballus</i> FSHB	1	GCAATATTTGAAATGATTCTGAATTTCCCCCTGTTAAAGATACAAAAGAAAAATCTAGC-	59					
<i>Canis lupus familiaris</i> FSHB	1	CCGATACTTGGAAAGGATCCTGAATTTCCCGGAGTTGAAGGCGCAAAGAGAAACCTAGA-	59					
<i>Myotis lucifugus</i> FSHB	1	GCAATATTTGAAAGGATTCCTGAATTTCCCAAGTTAAAGATACAAAGGAAAAACCTAGA-	59					
<i>Pteropus vampyrus</i> FSHB	1	GCAACACTTG-AA--GGATTCTGAATTTCTCAAGTTAAAGATACAGAAAGAAAAACCTAGA-	57					
<i>Sorex araneus</i> FSHB	1	GCAATACTT--AA--TTTGT--TAAT--CCC--GAGTTAAAGAA--ACAAAAGAAAAACCTAGA-	52					
<i>Dasyurus novemcinctus</i> FSHB	1	GCAACACTTGGAAATGATTCTGA--T--CCCAAGTT-----AAAACCTAGA-	43					
<i>Choloepus hoffmanni</i> FSHB	1	GCAATTTCTCAAAGGATTCCTGAGTTCCTGAGTTAAAGGTAAAAGAAAAATCTAGA-	59					
<i>Loxodonta africana</i> FSHB	1	GCAATACTTGGAAAGGATT--GAATTCCTGAGTTAAAGACAGAAAAGAAAAACTCAGA-	57					

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		70	80	90	100	110	120	
<i>Homo sapiens</i> FSHB	60	-----GTCACAATTAATTTGAGAAGGTAAGGAGTGGGTGTGCTACTGTATCAAATTTA	113					
<i>Pan troglodytes</i> FSHB	60	-----GTCACAATTAATTTGAGAAGGTAAGGAGTGGGTGTGCTACTGTATCAAATTTA	113					
<i>Pongo abelii</i> FSHB	60	-----GTCACAATTAATTTGAGAAGGTAAGGAGTGGGTGTGCTACTGTATCAAATTTA	113					
<i>Nomascus leucogenys</i> FSHB	60	-----GTCACAATTAATTTGAGAAGGTAAGGAGTGGGTGTGCTACTGTATCAAATTTA	113					
<i>Macaca mulatta</i> FSHB	60	-----GTCACAATTAATTTGAGAAGGTAAGGAGTGGGTGTGCTACTGTATCAAATTTA	113					
<i>Callithrix jacchus</i> FSHB	60	-----GCCACATTTAATTTGACAAGGTAAGGAGTGGGTGTGCTACTGTATCAAATTTA	113					
<i>Mus musculus</i> FshB	61	TCTAGAGTACATTTAATTT--ACAAGGTGAGGAGTGGGTGTGCTGCCATATCAGATTCG	119					
<i>Rattus norvegicus</i> FshB	61	TCTAGAGGCACATTTAATTTTAGCAAGGTGAAGGAGTGGGTGTGCTGCCATATCAGATTCG	120					
<i>Cavia porcellus</i> FSHB	56	-----GTCACATTTAATTTGACAAGGTAAGGTGTTGGGTGTGCGAGTGTATCATTTA	109					
<i>Oryctolagus cuniculus</i> FSHB	60	-----GTCACATTTAACTTGACAAGGTAAGGAGTGGGTGTGCTACTATATCAAATTTA	113					
<i>Bos taurus</i> FSHB	60	-----GTCAAATTTAATTTGACAAGGTAAGGAGTGGGTGTCTACTATATCAAATTTA	113					
<i>Equus caballus</i> FSHB	60	-----ATCACATTTAACTTGACAAGGTAAGGAGTGGGTGTGCTCCATACCAATCTTA	113					
<i>Canis lupus familiaris</i> FSHB	60	-----GTCACATTTAACTTGACAAGGTAAGGAGTGGGTGTGCTCCGGTATCAAATTCG	113					
<i>Myotis lucifugus</i> FSHB	60	-----GTCACATTTAATTTGACAAGGTAAGGAGTGGGTGTGCTACTATATCAAATTTA	113					
<i>Pteropus vampyrus</i> FSHB	58	-----GTCACATTTAATTTGGCAAAGTAAAGGAGTGGGTGTGCTTCTATATCAAATTTA	111					
<i>Sorex araneus</i> FSHB	53	-----GTCGTATTTAATTTAAGCAGGTAAGGAGTGGGCGTACCCTATATCAAATTTA	106					
<i>Dasyurus novemcinctus</i> FSHB	44	-----GTCACATTTAATTTAGCAAGGTAAGGAGTAGGTGTGCAATATATCAAATTTA	97					
<i>Choloepus hoffmanni</i> FSHB	60	-----GTCACATTTAATTTAGACAAGGTAAGGAGTGGGTGTGCTACTATATCAAATTTA	113					
<i>Loxodonta africana</i> FSHB	58	-----GTCACATTTAATTTGACAAGGTAAGGAGTGGGTGTGCTACTATCAAATTTA	111					

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		130	140	150	160	170	180	
<i>Homo sapiens</i> FSHB	114	ATTTGTACAAAATC-ATCATCTCTAGTAACATTA-TTTTTTCTAATCTACTGCGTTTAGA	171					
<i>Pan troglodytes</i> FSHB	114	ATTTGTACAAAATC-ATCATCTCTGGTAACATTA-TTTTTTCTAATCTACTGCGTTTAGA	171					
<i>Pongo abelii</i> FSHB	114	ATTTGTACAAAATC-ATCATCTCTGGTAACGTTA-TTTTTTCTAATCTACTGCGTTTAGA	171					
<i>Nomascus leucogenys</i> FSHB	114	ATTTGTACAAAATC-ATCATCTCTGGTAACATTA-TTTTTTCTAATCTACTGCGTTTAGA	172					
<i>Macaca mulatta</i> FSHB	114	ATTTGTACAAAATC---ATCTCTGGTAACATTA-TTTTTTCTAATCTACTGCGTTTAGA	168					
<i>Callithrix jacchus</i> FSHB	114	ATTTGTACAAAATC-ATCATCTCTGGTGACATTA-TTGTCTCTAATCTACTGCGTTTAGA	171					
<i>Mus musculus</i> FshB	120	GTTTGTACAGAAACCATCATCACTGATAGCA-----TTTTCTGCTCTGTGGCATTAGA	173					
<i>Rattus norvegicus</i> FshB	121	GTTTGTACAGAAACCATCATCACTAAGAGCA-----TTTTCTGCTCTGTGGCATTAGA	174					
<i>Cavia porcellus</i> FSHB	110	ATTTGTACTCCGTC-GTCGCCCTGTATAACATTA-TTTTTTCTGATCCACTCCGTTTAGA	167					
<i>Oryctolagus cuniculus</i> FSHB	114	ATTTGTACAAAATC---ACCCTGGTAACATCA-GTTTTCTGTATCCACTGCGTTTAGA	168					
<i>Bos taurus</i> FSHB	114	ATCTGTACAAAATC---ATCTCTGGTAACATTA-TTGTCCCGATCTACTGCGTTTAGA	168					
<i>Equus caballus</i> FSHB	114	ATTTGTACAAAATC-ACCGTCTCTGGTAACGTTT-TTTTTCCCGATGACTGCGTTTAGA	171					
<i>Canis lupus familiaris</i> FSHB	114	CTTTGTACAGAATC-TCCATCCCTGGTAGTGTG-TTTTTCCCGATGAGCCGCGTTTAGA	171					
<i>Myotis lucifugus</i> FSHB	114	ATTTGTATAAAATC-ATCATCTCTGGTAACATTA-TTTTTTCTGATCTATTTGTTTAGA	171					
<i>Pteropus vampyrus</i> FSHB	112	ATTTGTACAAAATC-ATCATCTCTGGTAACATTA-TTTTTTCTGATCTACTTTGTTTAGA	169					
<i>Sorex araneus</i> FSHB	107	ACTTGTACAGACTCAACTATCTCTGGTAACA-----TGTTTCTAATCTACTGCGTTTAGA	161					
<i>Dasyurus novemcinctus</i> FSHB	98	ATTTGTATAAAATC-ATCATCTCTAGTAACATTA-TTTTTCTGATCTACTGAGTTTAGA	155					
<i>Choloepus hoffmanni</i> FSHB	114	GTTTGTACAAAATC-CTCATCTCTGGTAACATTA-TTTTTCTGATCTGCTGCGTTTAGA	171					
<i>Loxodonta africana</i> FSHB	112	ATTTGTACAAAATC-ATCATCTCAGGTAACATTA-TTGTCTCTAATCTTCTGCGTTTAGA	169					

AA

		190	200	210	220	230	240	
<i>Homo sapiens</i> FSHB	172	CTACTTTAGTAAAGCTTGATCTCCCTGTCTATCTAAACACTGATTCACTTACAGCAAGCT						231
<i>Pan troglodytes</i> FSHB	172	CTACTTTAGTAAAGCTTGATCTCCCTGTCTATCTAAACACTGATTCACTTACAGCAAGCT						231
<i>Pongo abelii</i> FSHB	172	CTACTTTAGTAAAGCTTGATCTCCCTGTCTATCTAAACACTGATTCACTTACAGCAAGCT						231
<i>Nomascus leucogenys</i> FSHB	173	CTACTTTAGTAAAGCTTGATCTCCCTGTCTATCTAAACACTGATTCACTTACAGCAAGCT						232
<i>Macaca mulatta</i> FSHB	169	CTACTTTAGTAAAGCTTGATCTCCCTGTCTATCTAAACACTGATTCACTTACAGCAAGCT						228
<i>Callithrix jacchus</i> FSHB	172	CTACTTTAGCAAAGCTTGATCTCCCTGTCTATCTAAACAGTGATTCACTTACAGCAAGCT						231
<i>Mus musculus</i> FshB	174	CTGCTTTGGCGAGGCTTGATCTCCCTGTCCGCTAAACAATGATTCCTTTTCAGCAGGCT						233
<i>Rattus norvegicus</i> FshB	175	CTGCTTTGGCGAGGCTTGATCTCCCTGTCCGCTAAACAATGATTCCTTTTCAGCAGGCT						234
<i>Cavia porcellus</i> FSHB	168	CTACTTTTCATAAAACCTGATCTCCCTGTCTGTCTAAACACTGATTCACTTGCAGCAAGC-						226
<i>Oryctolagus cuniculus</i> FSHB	169	CTACTTTAGCAAAGGCTTGATCTCCCTGTCTGTCTAAACACTGATTCACTTACAGCAAGCA						228
<i>Bos taurus</i> FSHB	169	CTACTTTAGTAAAGGCTTGATCTCCCTGTCTATCTAAACACTGATTCACTTACAGCAAGCT						228
<i>Equus caballus</i> FSHB	172	CTATTTTCAGGAAGACTTGATCTCCCTGTCTGTCTAAACACTGATTCACTTACAGCAAGCT						227
<i>Canis lupus familiaris</i> FSHB	172	CTACGTCCTCAAGGCTTGATCTCCCTGTCTCAACCAACACTGATTCACTTACAGCGGGCG						231
<i>Myotis lucifugus</i> FSHB	172	CTACTTTAGTAAAGGCTTGATCTCCCTGTCTATCTAAACACTGATTCACTTACAGCAAGCT						231
<i>Pteropus vampyrus</i> FSHB	170	CTACTTTAGTAAAGGCTTG-TCTCCCTTCTCTATCTAAACACTGATTCACTTACAGCAAGCT						228
<i>Sorex araneus</i> FSHB	162	CTACTTTGGTAAAGGTTTGATCTCCCTGTCTATCTAAACACTGATTCACTTTCAG-AAAGCA						220
<i>Dasyurus novemcinctus</i> FSHB	156	CTAATTTAGT-AGGCTTGATCTCCCTGTCTACTAAACACTGGTTCACTTACAACAAGCT						214
<i>Choloepus hoffmanni</i> FSHB	172	CTACTTTAGTAAAGGCTTGATCTCCCTGTCTGTCTAAACACTGATTCACTTACAGCAAGCT						231
<i>Loxodonta africana</i> FSHB	170	CTACTTCAGGAATCTTGATCTCCCTGTCTAGCTAAACAGCGATTACTTACAGCAGCT						229

		250	260	270	280	290	300	
<i>Homo sapiens</i> FSHB	232	TCAGGCTAGCATTTGGTCATATTAATACCCAACAATCCACAAGGTG----						287
<i>Pan troglodytes</i> FSHB	232	TCAGGCTAGCATTTGGTCATATTAATACCCAACAATCCACAAGGTG----						287
<i>Pongo abelii</i> FSHB	232	TCAGGCTAGCATTTGGTCATATTAATACCCAACAATCCACAAGGTG----						287
<i>Nomascus leucogenys</i> FSHB	233	TCAGGCTAGCATTTGGTCATATTAATACCCAACAATCCACAAGGTG----						288
<i>Macaca mulatta</i> FSHB	229	TCAGGCTAGCATTTGGTCATATTAATACCCAACAATCCACAAGGTG----						284
<i>Callithrix jacchus</i> FSHB	232	TCAGGCTAGCATTTGACCATATTAATACCCAACAATTTCTCAAGGTG----						287
<i>Mus musculus</i> FshB	234	TTATGTTGGTATTTGGTCATGTTAACACCCAGTAAATCCACAGGGTT----						282
<i>Rattus norvegicus</i> FshB	235	TTGTGTTGGTATTTGGTCACGTTAACACCCAGTAAATCCATGGGGTG----						283
<i>Cavia porcellus</i> FSHB	227	-----AGACTAATACCCAGTAACTCCACAAGGTG----						265
<i>Oryctolagus cuniculus</i> FSHB	229	TCAGGTTAGCATTCGATTATACTAATACCCAACAATCCACGAACTG----						284
<i>Bos taurus</i> FSHB	229	TCAAGCTAACCTGGCTCTTACTAATACCCAACAATCCACAAGGTTAGTTAGTTTCAC						288
<i>Equus caballus</i> FSHB	228	TTGGACTAACCTGGCTCATTAATACCCGACAAATCCACAAGGTTATTTGGTTTCAC						287
<i>Canis lupus familiaris</i> FSHB	232	TCAGGCTAACCTGGCTCTAGCTAATACCCAGCAAGTCCACAAGGTG----						287
<i>Myotis lucifugus</i> FSHB	232	TCAGGATAACACTGGTCTTATTAATTCCTGATAAATCCACAAGGTG----						287
<i>Pteropus vampyrus</i> FSHB	229	GCAGGCTAACCTGGTCTT-TCAATACCTGCCAAATCCACAAGGTG----						283
<i>Sorex araneus</i> FSHB	221	TCAGGATAACACTGGTTCATATTAATACCCAACAATCCAGTAGGTG----						276
<i>Dasyurus novemcinctus</i> FSHB	215	TCAGGCTAGCATTTGGTCATATTCATATCCAACAATCCACAGGGTA----						270
<i>Choloepus hoffmanni</i> FSHB	232	TTAGGCTAGCATTTGGTCATGTTAATACCCAACAATCCGCAAAATG----						287
<i>Loxodonta africana</i> FSHB	230	TCAGGCCAGCATTTGGTCACACTAATCCCAACAATCCACAAGGTG----						285

		310	320	330	340	350	360	
<i>Homo sapiens</i> FSHB	288	ATGATTTTGTATAAAAAG-----GTGAAC-TGAGATTTTCATTCAGTCTACAGGTC---						335
<i>Pan troglodytes</i> FSHB	288	ATGATTTTGTATAAAAAG-----GTGAAC-TGAGATTTTCATTCAGTCTACAGGTC---						335
<i>Pongo abelii</i> FSHB	288	ATGATTTTGTATAAAAAG-----GTGAAC-TGAGATTTTCATTCAGTCTACAGGTC---						335
<i>Nomascus leucogenys</i> FSHB	289	ATGATTTTGTATAAAAAG-----GTGAAC-TGAGATTTTCATTCAGTCTACAGGTC---						336
<i>Macaca mulatta</i> FSHB	285	ATGATTTTGTATAAAAAG-----GTGAAC-TGAGATTTTCATTCAGTCTACAGGTC---						332
<i>Callithrix jacchus</i> FSHB	288	ATAATTTTGTATAAAAAG-----GTGAAC-TGAGATTTTCATTCAGTCTACAGGTC---						335
<i>Mus musculus</i> FshB	283	---AGITTTGTATAAAAAG-----ATCAGG-TGTAACCTTGACTCAGTGTTCAGGTT---						327
<i>Rattus norvegicus</i> FshB	284	---GGATTTGTATAAAAAG-----ATCAGG-TGTGACTTGATTTCAGTGTTCAGGTT---						328
<i>Cavia porcellus</i> FSHB	266	ACAGITTTTGTATAAAAAG-----GTGAAC-TCTGGCTTGACTCGGTCCATAGGTTCCCT						316
<i>Oryctolagus cuniculus</i> FSHB	285	ATGATTTTGTATAAAAAGCTGACCGAATGAAC-TGAAACTTGCTTCAGTCTACAGTTT---						340
<i>Bos taurus</i> FSHB	289	ACAATTTTGTATAAAAAG-----GTGAAC-TGAGACTAGACTCAG-CTACAGGTT---						335
<i>Equus caballus</i> FSHB	288	ACGATTTTGTATAAAAAG-----GTGAAC-TGAGACCCGACTCACACCACAGGTT---						335
<i>Canis lupus familiaris</i> FSHB	288	GGGATTTTGTATAAAAAG-----GTGAGC-TGAGACCTGACTCGGTCCACAGGTT---						335
<i>Myotis lucifugus</i> FSHB	288	ACAATATTGTATAAAAAG-----GTGAAC-TGAGACTTAACCTCAGTCTACAGGTT---						335
<i>Pteropus vampyrus</i> FSHB	284	ACAATTTTGTATAAAAAG-----GTGAAC-TGAGACTTAACACAGTCTAAAGGTT---						331
<i>Sorex araneus</i> FSHB	277	ACAATTTTGTATAAAAAG-----AA-GATAAG-TGAGAC--AGTCAATCTGCAGGTT---						324
<i>Dasyurus novemcinctus</i> FSHB	271	GCGATTTTGTATAAAAAG-----GTGAACCTTGAGAGTTGACTTAATCTACAGGTT---						319
<i>Choloepus hoffmanni</i> FSHB	288	GTGAATTTTGTATAAAAAG-----GTGAACCTTGAGAGTTGACTTCATCTACAGGTT---						336
<i>Loxodonta africana</i> FSHB	286	ATGATTTTGTATAAAAAG-----GGCAGCTTGAGGCTTGACGCTCAGTCTACAGGTT---						334

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		370	380	390	400	410	
<i>Homo sapiens</i> FSHB	336	TTGCCAGGCAAGGCAGCCGAC	--CACAGGTGAGTCTTGGC	ATCTACCGTTTTCAAG			389
<i>Pan troglodytes</i> FSHB	336	TTGCCAGGCAAGGCAGCCGAC	--CACAGGTGAGTCTTGGC	ATCTACCGTTTTCAAG			389
<i>Pongo abelii</i> FSHB	336	TTGCCAGGCAAGGCAGCCGAC	--CACAGGTGAGTCTTGGC	ATCTACAGTTTTCAAG			389
<i>Nomascus leucogenys</i> FSHB	337	TTGCCAGGCAAGGCAGCCAAC	--CACAGGTGAGTCTTGGC	ATCTACAGTTTTCAAG			390
<i>Macaca mulatta</i> FSHB	333	TTCCCAGGCAAGGCAGCCGAC	--CACAGGTGAGTCTTAGC	ATCTACAGTTTTCAAG			386
<i>Callithrix jacchus</i> FSHB	336	TTCCCAGGCAAGGCAGCCGAC	--CACAGGTGAGTCTTCGC	ATCTATAGTTTGCAAG			389
<i>Mus musculus</i> FshB	328	TCCCAGAGAGACAGCTGACTG	CACAGGTGAGTAGCAGCACT	TGATGC-AACAAG			382
<i>Rattus norvegicus</i> FshB	329	TCCCAGGAGAGATAGCCAAC	TGCACAGGTGAGTTTCAGCACT	TGGTGC-AGCAAG			383
<i>Cavia porcellus</i> FSHB	317	TCTCCGTCCAAACAGCCAGT	--CACAGGTGAGTCTGGGG	ACTT-CTGTTAGCCAG			369
<i>Oryctolagus cuniculus</i> FSHB	341	TCCCAGACAAGGCAGCCAAC	--CACAGGTGAGTCTTGGC	ATTT--GGTTATTAG			392
<i>Bos taurus</i> FSHB	336	TCCCAGACAAGGCAGCTGTC	--TACGGAAAAGTCTCAGCACT	TACAGTTATCAAG			389
<i>Equus caballus</i> FSHB	336	TCCTCAGACAAGGCAGCTGAC	--CACAGGTGAGTCGCGGC	ATCTAAGTATCAAG			389
<i>Canis lupus familiaris</i> FSHB	336	TCTCCGACGCGGCTGCTGAC	--CAAAGGTGAGTCTTGGGG	TGCGTTCTTACCAAG			389
<i>Myotis lucifugus</i> FSHB	336	TCCCAGACAAGGCAGTGGAC	--CACAGGTAGTCTCAGCACCT	TATAGTTATCAAG			389
<i>Pteropus vampyrus</i> FSHB	332	TCCCAGTCAAGGCAGCCAAC	--CACAGGTGAGTTCAGCAACT	TATAATTATCAAG			385
<i>Sorex araneus</i> FSHB	325	CTCTCAGA----GCAAGCAAC	--CACAGGTAGTTC AACATCT	TATCGTTATCAAG			374
<i>Dasyurus novemcinctus</i> FSHB	320	TCCCAGACAAGGCAGCTGAT	--CACAGGTGAGTCTCAGCAGC	TACAGTTATCAAG			373
<i>Choloepus hoffmanni</i> FSHB	337	TCCCAGGCAAGGCAGCACTGAA	--CACAGGTGAGTCTCAGCACT	TATGGTTATCAAG			390
<i>Loxodonta africana</i> FSHB	335	TCCCAGGCAAGGCAGCCAAC	--GACAGGTGAGTCTCAGTATT	TATAGTTATCAAG			388

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<i>Homo sapiens</i> FSHB	(-827 bp)
<i>Pan troglodytes</i> FSHB	(-827 bp)
<i>Pongo abelii</i> FSHB	(-965 bp)
<i>Nomascus leucogenys</i> FSHB	(-817 bp)
<i>Macaca mulatta</i> FSHB	(-835 bp)
<i>Callithrix jacchus</i> FSHB	(-827 bp)
<i>Mus musculus</i> FshB	(-631 bp)
<i>Rattus norvegicus</i> FshB	(-637 bp)
<i>Cavia porcellus</i> FSHB	(-690 bp)
<i>Oryctolagus cuniculus</i> FSHB	(-669 bp)
<i>Bos taurus</i> FSHB	(-642 bp)
<i>Equus caballus</i> FSHB	(-673 bp)
<i>Canis lupus familiaris</i> FSHB	(-758 bp)
<i>Myotis lucifugus</i> FSHB	(-848 bp)
<i>Pteropus vampyrus</i> FSHB	(-645 bp)
<i>Sorex araneus</i> FSHB	(-794 bp)
<i>Dasyurus novemcinctus</i> FSHB	(-610 bp)
<i>Choloepus hoffmanni</i> FSHB	(-622 bp)
<i>Loxodonta africana</i> FSHB	(-675 bp)



# D

		10	20	30	40	50	60	
<i>Homo sapiens</i> GPA1	1	TGCATCTTTATTA	AATTCAGATGCA	AAA--TTAATTTT	TAGAAAAGTCT	AAAATAGG	TGT---	55
<i>Pan troglodytes</i> GPA1	1	TGCATCTTTATTA	AATTCAGATGCA	AAA--TTAATTTT	TAGAAAAGTCT	AAAATAGG	CGT---	55
<i>Pongo abelii</i> GPA1	1	TGCATCTTTATTA	AATTCAGATGCA	AAA--TTAATTTT	TAGAAAAGTCT	AAAATAGG	CAT---	55
<i>Nomascus leucogenys</i> GPA1	1	TACATCTTTATTA	AATTCAGATGCA	AAA--TTAATTTT	TAGAAAAGTCT	AAAATAGG	CGT---	55
<i>Callithrix jacchus</i> GPA1	1	TGCATCTTTATTA	AATTCAGATGCA	CG--TTAATTTT	TAGAAAAGTCT	AAAATAGG	CAT---	55
<i>Otolemur garnettii</i> GPA1	1	TTTCATCTTTATTA	AATTCAGATGCA	CA--TTAATTTT	TAGAAAAGTCT	AAAGTAA	ACCA---	55
<i>Mus musculus</i> GpA1	1	TATATCTTTATTA	AATTCAGATGCT	GTG--TTAA--	TTAAGAAA--	TTG----	GAGCAA---	49
<i>Rattus norvegicus</i> GpA1	1	TGTATCTTTATTA	AATTCAGATGCA	CA--TTAATTTT	TAAGAAA--	TGG----	AAGCGA---	50
<i>Cavia porcellus</i> GPA1	1	GGCATCTCTATG	AAACCCAGCT	GCTGCTCA--	TTAATTTT	CATAAAGT	CCAAGTAG	CA----
<i>Oryctolagus cuniculus</i> GPA1	1	TGCATGTTTATTA	AATGCAGAGGC	ACATATTAAT	TTTATAGACA	AGTCTAAA	ATAGGTAT	TAT
<i>Bos taurus</i> GPA1	1	TGCATCCTTATTA	AAAACCTGAT	GCACAT--	TTAATTTT	TAGAAGAG	TCTAAATAT	TGTGT---
<i>Equus caballus</i> GPA1	1	TGCATCCTTATTA	AAAATCCA	AATGCTCAT--	TTAATTTT	TAGAAAAG	TCTAAATGG	TAT---
<i>Canis lupus familiaris</i> GPA1	1	TGCATCCTTATTA	AAAATCCA	AATACATAC--	TTAATGTT	TAGAAAAG	TTAAATAG	GTAT---
<i>Myotis lucifugus</i> GPA1	1	TGCATCCTTATTA	AAAATCCAGAT	TACCT--	TTGATTTT	TGAAAAGT	TCTAAACAG	GCAT---
<i>Dasyurus novemcinctus</i> GPA1	1	TGTGTCCTTCA	TAAATCCAGAT	GCACA--	TTAATTTT	TGAAAAGT	TCTAAATA	AGCAT---
<i>Loxodonta africana</i> GPA1	1	TGCAT--TTTAT	TGAATCAAGAT	ACACA--	TTAATTTT	TGAAAAGT	TCTAAATAG	GCAT---
<i>Procapra capensis</i> GPA1	1	TGCAT--CTTAT	TGAATCAAGAT	ACACA--	TTAATCTT	TGAAAAGT	TCTAAATAG	GCAT---

		70	80	90	100	110	120	
<i>Homo sapiens</i> GPA1	56	GTGTTTATTTTT	CTGTTTCCTA	ATAAATAGTG	----GTATAAG	CCTGGAAAT	GCTCT	110
<i>Pan troglodytes</i> GPA1	56	GTGTTTATTTTT	CTGTTTCCTA	ATAAATAGTG	----GTATAAG	CCTGGAAAT	GCTCT	110
<i>Pongo abelii</i> GPA1	56	GTGTTTATTTTT	CTGTTTCCTA	ATAAATAGTG	----GCATAAG	CCTGGAAAT	GCTCT	110
<i>Nomascus leucogenys</i> GPA1	56	GTGTTTATTTTT	CTGTTTCCTA	ATAAATAGTG	----GTACAAG	CCTGGAAAT	GCTCT	110
<i>Callithrix jacchus</i> GPA1	56	GTGTTTATTTTT	CTGTTTCCTA	ATAAATAGTG	----GTATAAG	CCTGGAAAT	GCTCT	114
<i>Otolemur garnettii</i> GPA1	56	CAGTTTATTTTT	CTGTTTCCTA	CTGGAATAATG	----TTGTAAG	TCTGGAAAT	GCTCT	110
<i>Mus musculus</i> GpA1	50	TTGTTTATTTTT	CTGTTTCCTG	TGAAATAATG	-----	-----	-----	83
<i>Rattus norvegicus</i> GpA1	51	GTGTTTACTTTT	CTGTTTCCTG	TGGAATAACG	-----	-----	-----	84
<i>Cavia porcellus</i> GPA1	55	---TGTTATTTTT	CTGTTTCCTA	CTGGAATAACT	-----GTAA	CCTTGAAAT	GCTCC	104
<i>Oryctolagus cuniculus</i> GPA1	61	GTGTTTATTTTT	CTGTTTCCTA	CTGGAATAAT	----TTGTAAG	CCTGGAAAT	GAC-	114
<i>Bos taurus</i> GPA1	57	ATGTTTCTTTTT	CTGTTTCTA	CTGGGATAATG	----TTGTAAG	CCTAGAAAT	GCTCT	111
<i>Equus caballus</i> GPA1	57	GTGTTTATTTTT	CTGTTTCCTG	CTGGAACAATG	----TTGTAAG	CCTGGAAAT	TTCT	111
<i>Canis lupus familiaris</i> GPA1	57	CCGTTTGGTTTT	CTGTTTCCTA	CTAGAATAAAG	-----TAAG	CCTGGTAAT	CTTT	108
<i>Myotis lucifugus</i> GPA1	57	GTGTTTATTTTT	CTATTCCTA	CTACGAATCATG	----TTGCA	CCCTGGCAAT	CTTT	111
<i>Dasyurus novemcinctus</i> GPA1	56	GTGTTTACTTTT	CTCTTCCTA	CTGGAATCAT	----TTGTAAG	CCCTGGCAAT	CTTT	110
<i>Loxodonta africana</i> GPA1	55	GTGATTAATTTTT	CTGTTTCCTA	CTGAAATAATG	----TTATAAG	CCTGAAAT	GCTTT	109
<i>Procapra capensis</i> GPA1	55	GTGATTAATTTTT	CTGTTTCCTG	CTGAAATCATG	----TTATAAG	CCTGAAAT	GCTTT	110

		130	140	150	160	170	180	
<i>Homo sapiens</i> GPA1	111	ATATCTATTTT	CTGAAATCTA	TAGCTCTTG	-----TTTAGG	TAAATATCAGG	TACTTAG	164
<i>Pan troglodytes</i> GPA1	111	ATATCTATTTT	CTGAAATCTA	TAGCTCTTG	-----TTTAGG	TAAATATCAGG	TACTTAG	164
<i>Pongo abelii</i> GPA1	111	ATATCTATTTT	CTGAAATCTA	TAGCTCTTG	-----TTTAGG	TAAATATCAGG	TACTTAG	164
<i>Nomascus leucogenys</i> GPA1	111	ATATCTATTTT	CTGAAATCTA	TAGCTCTTG	-----TTTAGG	TAAATATCAGG	TACTTAG	164
<i>Callithrix jacchus</i> GPA1	115	ATATCTATTTT	CTGAAATCTA	TAGCTCTTG	-----TTTAGG	TAAATATCAGG	TACTTAG	168
<i>Otolemur garnettii</i> GPA1	111	CTATGTATTA	CTGAAATTTA	TAGCTCTTCTCAT	TTTGTAGTAA	CAATCAGG	TACTTAG	170
<i>Mus musculus</i> GpA1	84	-----TAAT	-CTGAAATG	TTTTTTATCCT	TGCTTTATG	AAAATATCAGG	TACTTAG	137
<i>Rattus norvegicus</i> GpA1	85	-----TAAT	-CTGAAA-TG	-----TTTTCT	CTCTTTATG	AAAACATCAGG	CACTTAG	133
<i>Cavia porcellus</i> GPA1	105	ATATCTATTA	CTGAAGTTT	TACAGCTCTTCTCCT	TGCTTTATG	AAAACATCAAG	TACTTAG	164
<i>Oryctolagus cuniculus</i> GPA1	115	---TCTATTA	CTTAAATTTA	TAGCTCTTC---	TGTTTTAAG	TAAACATCAGG	TACTTAG	168
<i>Bos taurus</i> GPA1	112	CTATCTAGAA	CTGAATTTT	TACAGCTCTGC---	TTTTTAAG	TAAACATCAGG	TACTTAG	168
<i>Equus caballus</i> GPA1	112	ATATCTATTA	CTGAAATTT	TACAGCTCTTCCCT	TG-AAATAAG	TAAATATCAGG	TACTTAG	170
<i>Canis lupus familiaris</i> GPA1	109	GTATCTATTA	CTGAAATTT	TATAG--TTTCT	CTCTGTTT	CAGTAAACATCAGG	TACTTAG	167
<i>Myotis lucifugus</i> GPA1	112	CTATCTG--A	CTGAAATTT	TACAGCTCTTCTCCT	TGCTTTAAG	TAAACATCAGG	TACTTAG	169
<i>Dasyurus novemcinctus</i> GPA1	111	ATATCTGTTA	CTGAAATCT	TATCTCTTC---	TGATTTAAG	TAAACATTAGG	TACTTAG	167
<i>Loxodonta africana</i> GPA1	110	TTACATGTTA	CTGAAATCT	TGCTCTTC---	TGTTTTAAG	TAAACATCAAG	TACTTAG	166
<i>Procapra capensis</i> GPA1	111	ATACCTGCTA	CTGAAATCT	TATGCTCTTG---	TGTTTTAAG	TAAACATAAGG	TACTTAG	167

		190	200	210	220	230	240	
<i>Homo sapiens</i> GPA1	165	CTAATTTAAATGTC	-----	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	209
<i>Pan troglodytes</i> GPA1	165	CTAATTTAAATGTC	-----	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	209
<i>Pongo abelii</i> GPA1	165	CTAATTTAAATGTC	-----	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	209
<i>Nomascus leucogenys</i> GPA1	165	CTAATTTAAATGTC	-----	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	209
<i>Callithrix jacchus</i> GPA1	169	CTAATTTAAATGTC	-----	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	213
<i>Otolemur garnettii</i> GPA1	171	CTAATTTAAATGTG	-----	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	215
<i>Mus musculus</i> GpA1	138	CTAATTTAAATGTG	CTACTC-TTAGAG	TCTTGTTTATTTT	-AAAAGT	GTCAGCTTT	CAGGA	195
<i>Rattus norvegicus</i> GpA1	134	CTAATTTAAATGTG	CTACTC-TTAGAA	TCTTGTTTATTTT	-AAAAGT	GTCAGCTTT	CAGAA	192
<i>Cavia porcellus</i> GPA1	165	CTAATTTAAATGTG	GATACTC-TTAGAA	CTATGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	221
<i>Oryctolagus cuniculus</i> GPA1	169	CTAATTTAAATGTG	GATACTC-TTAAAG	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	225
<i>Bos taurus</i> GPA1	169	CTAATTTAAATGTG	AATACTTGTAAAG	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	226
<i>Equus caballus</i> GPA1	171	CTAATTTAAATGTG	GATACTC-AAAGGG	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	227
<i>Canis lupus familiaris</i> GPA1	168	CTAATTTAAATGTG	GATAGTC-ATAGAG	TCTTGTTTATAG	--AAAAGT	GTCAGCTTT	CAGGA	224
<i>Myotis lucifugus</i> GPA1	170	CTAATTTAAATGTG	CAGAC-C-TTAGGG	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	225
<i>Dasyurus novemcinctus</i> GPA1	168	CTAATTTAAATGTG	GATACTC-TTAGGG	TCTTGTTTATAG	--AAAAGT	GTCAGCTTT	CAGGA	224
<i>Loxodonta africana</i> GPA1	167	CTAATTTAAATGTG	GATACTC-TCAGGG	-TTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	222
<i>Procavia capensis</i> GPA1	168	CTAATTTAAATGTG	GATGCTC-TTAGGG	TCTTGTTTATAG	--GAAAGT	GTCAGCTTT	CAGGA	224

		250	260	270	280	290	300	
<i>Homo sapiens</i> GPA1	210	TGTTATGTGATGG	CTCAATAAAAAT	TACGTACAAA	GTGACAGCT	TACTCTCTTT	--TCAT	267
<i>Pan troglodytes</i> GPA1	210	TGTTATGTGATGG	CTCAATAAAAAT	TACGTACAAA	GTGACAGCT	TACTCTCTTT	--TCAT	267
<i>Pongo abelii</i> GPA1	210	TGTTATGTGATGG	CTCAATAAAAAT	TACGTACAAA	GTGACAGCT	TACTCTCTTT	--TCAT	267
<i>Nomascus leucogenys</i> GPA1	210	TGTTATGTGATGG	CTCAATAAAAAT	TACGTACAAA	GTGACAGCT	TACTCTCTTT	--TCAT	267
<i>Callithrix jacchus</i> GPA1	214	TGTTATGTGATGG	CTCAATAAAAAT	TACGTACAAA	GTGACAGCT	TACTCTCTTT	--TCAT	270
<i>Otolemur garnettii</i> GPA1	216	TGTTCTATGATGT	CTTGATAGAA	TACGTAGAAA	ATGAC--TGT	TCTCT--TTT	--TCAT	270
<i>Mus musculus</i> GpA1	196	TGTTTTGTGTAAG	GGTCAATAAAT	TATACATAGAAA	ATGGCCAAAT	TCTCTCTCT	--TCAT	253
<i>Rattus norvegicus</i> GpA1	193	TGTTTTGTGTAAG	CTCAATAAAAAT	TACGTAGAAA	ATGGCCAAAT	TCTCTCTCT	--TCAT	252
<i>Cavia porcellus</i> GPA1	222	TGTTTTGTGTAAG	CTTAGATAAAA	ATACGTAGAAA	ATGACCATGT	-CTTTCTCT	--GTAT	278
<i>Oryctolagus cuniculus</i> GPA1	226	TGTTGTCTGTAAT	CTCAATAAAAAT	TACGTAGAAA	ATGACAGCAT	TACTCTCTTT	--TCAT	283
<i>Bos taurus</i> GPA1	227	TGTTGTGTATAAT	CTTGAAAAAAT	TATGTAGAAA	ATAACAGAGT	TCTCTTGT	--TCAT	284
<i>Equus caballus</i> GPA1	228	TGTTGTGTATAAT	CTCGATAAAAAT	TACGTAGAAA	ATGACAGCT	TCTCTTGT	--TCAT	285
<i>Canis lupus familiaris</i> GPA1	225	TGTTGTATGTAAG	CTTGATAAAAAT	TACGTAGAAA	ATGACA-TGT	TACTCTTT	--TCAT	281
<i>Myotis lucifugus</i> GPA1	226	TGTTGTGTGTAAG	CTTGATAAAAAT	TACGTAGAAA	ATGACTGCTG	TCTCTCTTT	--TCAT	283
<i>Dasyurus novemcinctus</i> GPA1	225	TGTTTTGTGTAAG	CTTGATAAAAAT	TACGTAGAAA	ATGACTGCTG	TCTCTCTTT	--TCAT	282
<i>Loxodonta africana</i> GPA1	223	TGTTGTGTTTAA	AGTCTTGATAA	CACATATGT	AGAAAACG	ACTGCTCT	--TCAT	280
<i>Procavia capensis</i> GPA1	225	TGTTGTTTTTAA	AGTCTTGATAA	CATAATGT	AGATGAGT	GGTGTGT--	-TCTCTTT--TCAT	280

		310	320	330	340	350	360	
<i>Homo sapiens</i> GPA1	268	GGGCTGACCTT	TGCTCACCAT	CACCTGAAAA	TGGCTC	CAAAACAAAA	--TGACCTA	AGG 325
<i>Pan troglodytes</i> GPA1	268	AGGCTGACCTT	TGCTCACCAT	CACCTGAAAA	TGGCTC	CAAAACAAAA	--TGACCTA	AGG 325
<i>Pongo abelii</i> GPA1	268	AGGCTGACCTT	TGCTCACCAT	CACCTGAAAA	TGGCTC	CAAAACAAAA	--TGACCTA	AGG 325
<i>Nomascus leucogenys</i> GPA1	268	AGGCTGACCTT	TGCTCACCAT	CACCTGAAAA	TGGCTC	CAAAACAAAA	--TGACCTA	AGG 325
<i>Callithrix jacchus</i> GPA1	271	AGGCTGACCTT	TGCTCACCAC	CGCCTGAAAA	TGGCTC	CAAAACAAAA	--TGATCTA	AGC 328
<i>Otolemur garnettii</i> GPA1	271	AGGCTAACCTT	G--GTCACCAC	CGCCTGAAAA	TGGCTC	CAAAACAAAA	ATAGGAT	TAAGG 328
<i>Mus musculus</i> GpA1	254	AAGCTGTCC	TTGAGGTC	CACCACTAC	CTCAAAAT	GTCTAAAA	CAAAAC--TGATCT	GAGG 311
<i>Rattus norvegicus</i> GpA1	253	AAGCTGTCC	TTGAGGTC	CACCACTAC	CTCAAAAT	GTCTAAAA	CAAAAC--TAACCT	GAGG 310
<i>Cavia porcellus</i> GPA1	279	AAACTGACCTT	TGATCACTG	TGCCTGGA	----GCTC	GAAACAAA	AG--TGATCT	GAAG 332
<i>Oryctolagus cuniculus</i> GPA1	284	AAGCTGACCTT	TGATCCAGC	ACTGCTG	GAATAA	CTCAAAAC	CAAAAC--TGATCT	TAAGG 341
<i>Bos taurus</i> GPA1	285	AGGCTGACCTT	TGAGTCAAC	ACCACCTG	GAATAA	CTCAAAAC	CAAAAC--ATGATCT	TAAGG 343
<i>Equus caballus</i> GPA1	286	AGGCTGACCTT	TGAGTCAAC	ACCACCTG	GAATAA	CTCAAAAC	CAAAAC--ATGATCT	TAAGA 344
<i>Canis lupus familiaris</i> GPA1	282	AGGCTGACCTT	TGAGTCAAC	ACCACCTG	GAATAA	CTCAAAAC	CAAAAC--ATGATCT	TAAGG 340
<i>Myotis lucifugus</i> GPA1	284	AGGCTGACCTT	TGAGTCAAC	CCGCTG	GAATAA	CTCAAAAC	CAAAAC--ATGATCT	TAAGG 343
<i>Dasyurus novemcinctus</i> GPA1	283	AGGCTGACCTT	TGAGTCAAC	ACCACCTG	GAATAA	CTCAAAAC	CAAAAC--ATGAGCT	TAAGG 341
<i>Loxodonta africana</i> GPA1	281	AGGCTGACCTT	TGAGTCAAC	ACCACCTG	GAATAA	CTCAAAAC	CAAAAC--ATGATCT	TAAGG 339
<i>Procavia capensis</i> GPA1	281	AGGCTGACCTT	TGAGTCAAC	ACTTCTCT	TGAAAA	TGACAAA	CAAAAC--ATGCTT	TAAGG 339

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		370	380	390	400	410	420	
<i>Homo sapiens</i> GPA1	326	GTTGAAACAAGATAAGATCAAATTGACGTCATGGTAA	AAAATTGACGTCATGGTAA	TTACA	385			
<i>Pan troglodytes</i> GPA1	326	GTTGAAACAAGATAAGATCAAATTGACGTCATGGTAA	AAAATTGACGTCATGGTAA	TTACA	385			
<i>Pongo abelii</i> GPA1	326	GTTGAAACAAGATAAGATCAAATTGATGTCATGGTAA	AAAATTGACGTCATGGTAA	TTACA	385			
<i>Nomascus leucogenys</i> GPA1	326	GTTGAAACAAGATAAGATCAAATTGACGTCATGGTAA	AAAATTGACGTCATGGTAA	TTACA	385			
<i>Callithrix jacchus</i> GPA1	329	ATTGAAACAAGATAAGATCAAATTGATGTCATGGTAA	-----	TTACA	370			
<i>Otolemur garnettii</i> GPA1	329	GTTGAAACAAGATAAGATCAAATTGATGTCACAGTAA	-----	TTACA	370			
<i>Mus musculus</i> GpA1	312	GTTGCAATGTGATATGATCAA	TTGATGTCATGGTAA	-----	TTATA	352		
<i>Rattus norvegicus</i> GpA1	311	GTTGCAATGTGATAAGATCAA	CTGATGTCATGGTAA	-----	TTATA	352		
<i>Cavia porcellus</i> GPA1	333	ATTGAAACAAGATAAGATCAAATTGATGTCATGGTAA	-----	TTACA	374			
<i>Oryctolagus cuniculus</i> GPA1	342	GTTGAAACAAGATAAATCAAATTGATGTCATAGTAA	-----	TTACA	383			
<i>Bos taurus</i> GPA1	344	GCTGAAACAAGATAAGATAAAA	TTGATGTCATGGTAA	-----	TTATG	385		
<i>Equus caballus</i> GPA1	345	GTTGAAACAAGATAAGATCAAATTGATGTCATA	TA	-----	TTACA	385		
<i>Canis lupus familiaris</i> GPA1	341	GTTGAAACAAGATAAGATCAAATTGATGTCATAGTAA	-----	TTACA	382			
<i>Myotis lucifugus</i> GPA1	344	GTTGAAACCAAGATAAGATCAAATTGATGTCATGGTAA	-----	TTACG	385			
<i>Dasytus novemcinctus</i> GPA1	342	ATCAAGGCAAGATAAGCTCAA	CTGATGTCATGGTAA	-----	TTATA	383		
<i>Loxodonta africana</i> GPA1	340	GATGAAACAAGATAAGATCAA	CTGATGTCATAGTGA	-----	TTACA	381		
<i>Procavia capensis</i> GPA1	340	CTCAAACCTAGATAAGATCAA	ATTGATGTCATGGTGA	-----	TTACA	381		

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		430	440	450	460	470	480	
<i>Homo sapiens</i> GPA1	386	CCAAGTACCCTTCAATCAT	TGGATGGAATTTCTGTTGATCCCAGGGCTTAGATGCAGGT	445				
<i>Pan troglodytes</i> GPA1	386	CCAAGTACCCTTCCATCAT	TGGATGGAATTTCTGTTGATCCCAGGGCTTAGATGCAGGT	445				
<i>Pongo abelii</i> GPA1	386	CCAAGTACCCTTCAATCAT	TGGATGGAATTTCTGTTGATCCCAGGGCTTAGATGCAGGT	445				
<i>Nomascus leucogenys</i> GPA1	386	CCAAGTACCCTTCAATCAT	TGGATGGAATTTCTGTTGATCCCAGGGCTTAGATGCAGGT	445				
<i>Callithrix jacchus</i> GPA1	371	CCAAGTGCCATTCAATCAT	TGGATGGAATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	430				
<i>Otolemur garnettii</i> GPA1	371	CCAAGTACCCTTCAATCAT	TGGATGGAATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	430				
<i>Mus musculus</i> GpA1	353	CCAAGTGCCATCCAATC	ACTGGCTAGAATTTACCCCTGATCCCAGGGCTTAGATGCAGGT	412				
<i>Rattus norvegicus</i> GpA1	353	CCAAGTACCATCCAATC	ACCCTGGATGGAATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	412				
<i>Cavia porcellus</i> GPA1	375	GCAAGTACCATTCAATC	ACTGAGCGAATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	434				
<i>Oryctolagus cuniculus</i> GPA1	384	CCAAGTACCATTCAATC	AATGGTGGATGGAATTTGATGTTGATCCCAGGGCTTAGATGCAGGT	443				
<i>Bos taurus</i> GPA1	386	TGAAGTACCATTCAATC	ATGGTGGATGGAATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	445				
<i>Equus caballus</i> GPA1	386	TGAAGTACCATTCAATC	ACTGGATGGAATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	445				
<i>Canis lupus familiaris</i> GPA1	383	TGAAGGACCATTCAATC	ACTGGATGGAATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	442				
<i>Myotis lucifugus</i> GPA1	386	CGGAGTACCATTCAATC	ACTGGATGGAATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	445				
<i>Dasytus novemcinctus</i> GPA1	384	CCAAGTGCCATTCAATC	ATGGATGGAATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	443				
<i>Loxodonta africana</i> GPA1	382	CTAAGTACCATTCAATC	TTGGCTGGGATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	440				
<i>Procavia capensis</i> GPA1	382	ATAAGTACCATTCAATC	TTGGCTGGGATTTACTGTTGATCCCAGGGCTTAGATGCAGGT	440				

		490	500	510	520	530	540	
<i>Homo sapiens</i> GPA1	446	GGAAACA-----	-----	CTCTGCTGGTATAAAAAG	-CAGGTGAGGACTTCATT	486		
<i>Pan troglodytes</i> GPA1	446	GGAAACA-----	-----	CTCTGCCGGTATAAAAAG	-CAGGTGAGGACTTCATT	486		
<i>Pongo abelii</i> GPA1	446	GGAAACA-----	-----	CTCTGCTGGTATAAAAAG	-CAGGTAAGGACTTCATT	486		
<i>Nomascus leucogenys</i> GPA1	446	GGAAACA-----	-----	CTCTGCCGGTATAAAAAG	-CAGGTGAGGACTTCATT	486		
<i>Callithrix jacchus</i> GPA1	431	GGAAAGCACATAAGCTT	----ATTACTCTGCTGGTATAAAAAA	ACAGGTGAAAGACTTTATT	485			
<i>Otolemur garnettii</i> GPA1	431	GGGAACATGCAGTTTTT	----GTTACTTTGCTGGTATAAAAAG	ACAGGTGAAAGACTTTATT	486			
<i>Mus musculus</i> GpA1	413	GGGAACATGCAATTTGT	----ATTACTCTGCTGGTATAAAAAG	ACAGGTGGGAGACTTTATT	468			
<i>Rattus norvegicus</i> GpA1	413	GGGAACATGCAATTTGT	----ATTACTCTGCTGGTATAAAAAG	ACAGGTGGGAGACTTTATT	468			
<i>Cavia porcellus</i> GPA1	435	GGGAACATGCAGTTTTT	----ATTACTCTGCTGGTATAAAAAG	ACAGGTGAGGACTTTATT	490			
<i>Oryctolagus cuniculus</i> GPA1	444	GGGAACATGCAGTTTGT	----ATTACTTTGCTGGTATAAAAAG	ACAGGTGAGGACTTTATT	499			
<i>Bos taurus</i> GPA1	446	GGGAACATGCAGCTTTT	----ATGACTCTGCTGGTATAAAG	ACAGGTGAGGACTTTATT	501			
<i>Equus caballus</i> GPA1	446	GGGAACATGCAGTCTTT	----ATCACTCTGCTGGTATAAAAAG	ATAGGTGAGGACTTTATT	501			
<i>Canis lupus familiaris</i> GPA1	443	GGGAACATGCAGTTTTT	----ATTACTCTGCTGGTATAAAAAG	ACAGGTGAGGACTTTATT	498			
<i>Myotis lucifugus</i> GPA1	446	GGGAACATGCAGTTTTT	----ATTTCTCTGCTGGTATAAAAAG	-CAGGTGGGGACTTTTGT	500			
<i>Dasytus novemcinctus</i> GPA1	444	GGGAACGTGCTGTTTTT	----ATTACTCTGCTGGTATAAAAAG	ACAGGTGAGGACTTTATT	499			
<i>Loxodonta africana</i> GPA1	441	GGGAACATGTAGTTTTT	----ATTACTCGGCTGGTATAAAAAG	ATAGGTGAGGACTTTATT	496			
<i>Procavia capensis</i> GPA1	441	GGGAATATGTAGTTTTT	TTAAATTA	CTTGCTGGTATAAAAAG	ATAGGTGAGGACTTTATT	500		

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	550	560	570	580	590	600	
<i>Homo sapiens</i> GPA1	487	-AACTGCAGTTACTGAGA	ACTCATAAGACGAAGCT	AAAAATCCCTCTT	CGGATCCACAGTC	545	
<i>Pan troglodytes</i> GPA1	487	-AACTGCAGTTACTGAGA	ACTCACAAGACGAAGCT	AAAAATCCCTCTT	CGGATCCACAGTC	545	
<i>Pongo abelii</i> GPA1	487	-AACTGCAGTTACTGAGA	ACTCACAAGACGAAGCT	AAAAATCCATCTT	CGGATCCACAGTC	545	
<i>Nomascus leucogenys</i> GPA1	487	-AACTGCAGTTACTGAGA	ACTCACAAGACGAAGCT	AAAAATCCCTCTT	CGGATCCACAGTC	545	
<i>Callithrix jacchus</i> GPA1	486	-AACTGCAGTTACTGAGA	AATCACAAGACGAAGCT	AAAAATCTCTT	CAGATCCACAGTC	544	
<i>Otolemur garnettii</i> GPA1	487	-AACTGTAGTTACTGAG	CAATCACGGGACGAA	AAAAATCCCTCTT	CAGATCTACAATC	545	
<i>Mus musculus</i> GpA1	469	-AACTGCAGGCACTGAAA	AATCCAGAGACATTGT	----CCCCT---	CAGATCGACAATC	520	
<i>Rattus norvegicus</i> GpA1	459	-AACTGCAGGCACTGAAA	AATC-GGAGACCAAGT	----CCCCT---	CAGATCGACAATC	509	
<i>Cavia porcellus</i> GPA1	491	-ATCTGCAGTTCCTGAGA	AATCACAAGAGAAAAT	TAAA-TTCCTTTT	CAGATCTACAACT	548	
<i>Oryctolagus cuniculus</i> GPA1	500	-AACACAGTTACTGAGA	AATCACGAGACGAACT	AAAAATCTCTT	CAGACCCACAGTC	558	
<i>Bos taurus</i> GPA1	502	-AAAAGCAGTTCCTGAGA	AATCACAAGACAAA	AAAAATCTCTT	CAGATCCACAGTC	560	
<i>Equus caballus</i> GPA1	502	-AACTCAGTTACTGAGA	AATCACAAGACGAAG	CTAGAGTCCCTCTT	CAGAGCCACAGTC	560	
<i>Canis lupus familiaris</i> GPA1	499	-AACTGTAGTTACTGAGA	AATCACAAGGAAA	AGCTAAAAATCCAT	CTT	CAGATCCACAATC	557
<i>Myotis lucifugus</i> GPA1	501	TAACTGCAGTTACTGAGA	AATCACAAGACGAA	AGCTAAAAATCCCT	---	CAGATCCACAATC	557
<i>Dasyopus novemcinctus</i> GPA1	500	-AACTGTGGTTACTGAGA	AATCATAAGACGAA	ACTAAAAACCCCT	---	CAGATTCACAATC	558
<i>Loxodonta africana</i> GPA1	497	-AATTACAGTTACTGAGA	A-TCACAAGACGAA	ACTGGAATCCCTCTT	CAGATTCACAAGC	554	
<i>Procavia capensis</i> GPA1	501	-AATTACAGTTACTGAGA	A-TCACAAGACGAA	ACTGGAATCCCTCTT	C-GATTACAGATC	557	

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	610	620	630	640	650	660	
<i>Homo sapiens</i> GPA1	546	AACCGCCCTGAACACAT	CCTGCAAAAAGC--	CCAGAGAAAAGGTAAT	TGAA-TGAAA--T	600	
<i>Pan troglodytes</i> GPA1	546	AACCGCCCTGAACACAT	CCTGCAAAAAGC--	CCAGAGAAAAGGTAAT	TGAA-TGAAA--T	600	
<i>Pongo abelii</i> GPA1	546	AACCGCCCTGAACACAT	CCTGCAAAAAGC--	CCAGAGAAAAGGTAAT	TGAA-TGAAA--T	600	
<i>Nomascus leucogenys</i> GPA1	546	AACCGCCCTGAACACAT	CCTGCAAAAAGC--	CCAGAGAAAAGGTAAT	TGAA-TGAAA--T	600	
<i>Callithrix jacchus</i> GPA1	545	AACCGCCCTGAACAT	TATCCTACAAAAGC--	CCAGAAAAGGTAACAT	TGAA-TGAAA--T	599	
<i>Otolemur garnettii</i> GPA1	546	AGCTGCCCTGAACACA	CATAGCAAGAAGC--	CCAGAGGAAGGTAAT	TGAA-TGAAA--T	600	
<i>Mus musculus</i> GpA1	521	ACCTGCCAGAACACAT	CCCTCAAAAAGT--	CCAGAGGTAGGTAAT	TGA-TGAAA--T	574	
<i>Rattus norvegicus</i> GpA1	510	AACCGCCAGAACACAT	CCCTCAAAAAGT--	CCAGAGGTAGGTAAT	TGA-TGAAA--T	563	
<i>Cavia porcellus</i> GPA1	549	GACTGCCCTGAACAT	TATTGTGAGACAGG	TAAATTTGAAGAAGG	TAAATTTAAA-TGAAA--T	605	
<i>Oryctolagus cuniculus</i> GPA1	559	ATCTGCCCTGGGCAC	ATCCTGCAAAAAGT--	TCTGAGAAAAGG	TAAATTTGAATC--T	613	
<i>Bos taurus</i> GPA1	561	AACCGCCCTGACTAC	ATTCTGCAAAAAGT--	CCAGAGGACGGTAA	AAATGAA-TGAAA--T	614	
<i>Equus caballus</i> GPA1	561	AACGTCTCTGAACAC	ATCCTACAAAAGT--	CCAGAGGAAGGTA	ATGAA-TGAA--C	615	
<i>Canis lupus familiaris</i> GPA1	558	AGCTGCCCTGACAC	ATCCTGCAAAAAGT--	CCGAGGAAAGGTA	ATGAA-TGAA--C	612	
<i>Myotis lucifugus</i> GPA1	558	AACCTACCCGAAAC	ACATCCCTGCAAAA	AGT--CCAGAGGA	AGGTAAGTAAAAGG	AAAAAA 615	
<i>Dasyopus novemcinctus</i> GPA1	559	AACGTCTGTGAACAC	ATCCTGCAAAAAGT--	CCAGAGGAAGGTA	ATGAA-TGAA--C	612	
<i>Loxodonta africana</i> GPA1	555	AACCGCCCTGAACAC	ATCCTGCAAAAAGT--	CCAGACGAAGGTA	ATGAA-TGAA--C	609	
<i>Procavia capensis</i> GPA1	558	AACCGCCCTGAACAC	ATCCTGCAAAAAGT--	CCAGAGAAAAGGTA	ATGAAATGAA--C	613	

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	670	680	690	700	710	720	
<i>Homo sapiens</i> GPA1	601	AATTTTGGGGGACTTT	AATTGAG----GAGT	AAAAATATTTGAGA	AATATGAGGAAG	ATTCC 656	
<i>Pan troglodytes</i> GPA1	601	AATTTTGGGGGACTTT	AATTGAG----GAGT	AAAAATATTTGAGA	AATATGAGGAAG	ATTCC 656	
<i>Pongo abelii</i> GPA1	601	AATTTTGGGGGACTTT	AATTGAG----GAGT	AAAAATATTTGAGA	AATATGAGGAAG	ATTCC 656	
<i>Nomascus leucogenys</i> GPA1	601	AATTTTGGGGGACTTT	AATTGAG----GAGT	AAAAATATTTGAGA	AATATGAGGAAG	ATTCC 656	
<i>Callithrix jacchus</i> GPA1	600	AATTTTGGGGGACTTT	AATTGAG----GAGT	AAAAATATTTGAGAAA	ATA---AAGATTTC	652	
<i>Otolemur garnettii</i> GPA1	601	AATGGGGGATGGGGG	TGTTAATTGCCAGCT	GAAATATTTGAGAA	CATAGGAAAGCTTCC	660	
<i>Mus musculus</i> GpA1	575	CATTT-GGGGGATTT	AATTAAAG----GAGT	AAAAATATTTGTGAC	CAAGGAAGCAAT--	627	
<i>Rattus norvegicus</i> GpA1	564	CATTT-GGGGGATTT	AATTAAAG----GAGT	CAAACTTCCGACCC	CAGGAAGCAAT--	616	
<i>Cavia porcellus</i> GPA1	606	AATTTTGGGGGATTT	AATTGAG----GAGT	-----ATTTAAGA	ATATAGAGGAACTTTC	656	
<i>Oryctolagus cuniculus</i> GPA1	614	AATTT-GGGGGATTT	AATTGAG----GGT	AAAAATATTTGAGC	TATCAGGGGACTTTC	668	
<i>Bos taurus</i> GPA1	615	AATTT-GGGGGATTT	AATTGAG----GGT	AAAAATATTTGAGG	ATACAAGGGAGCT--	666	
<i>Equus caballus</i> GPA1	616	AATTT-TGGGATTT	AATTGAGTGGT	CAGTGAATATTTG	AGATATAGGGGAG----	669	
<i>Canis lupus familiaris</i> GPA1	613	AATTTTGTGGGATTT	AATTGAGTGGT	GAATATTTTATA	ATATAGGTCAG----	667	
<i>Myotis lucifugus</i> GPA1	616	AAAAATGGGGGATTT	AATTGAGTGGGACT	AAAAATATTTGAG	AATGTAGGGGAG----	670	
<i>Dasyopus novemcinctus</i> GPA1	613	AATAT-GGGGGATTT	AATTGAGTGGGACT	AAAAATAC-TGAAA	ATAATAGGGGAGATTTC	669	
<i>Loxodonta africana</i> GPA1	610	AATTTT-TGACATTT	AATTGAGCAAGGAA	TGACACATTTGA	ACCTATAGGAGACTTTC	668	
<i>Procavia capensis</i> GPA1	614	AATTTT-TGACATTT	AATTGAGTAATGA	TGACACATTTA	AGCATAAGGAAAGCTTTC	672	

		730	740	750	760	770	780	
<i>Homo sapiens</i> GPA1	657	AAAGTCTCTGCATATACCTTAATAAGA	ACTGAG	----ACAGGCTTTTACTCATTCTC	TT	711		
<i>Pan troglodytes</i> GPA1	657	AAAGTCTCTGCGTATACCTTAATAAGA	ACAGAG	----ACAGGCTTTTACTCATTCTC	TT	711		
<i>Pongo abelii</i> GPA1	657	AAAGTCTCTGCATATACCTTAATAAGA	ACAGAG	----ACAGGCTTTTACTCATTCTC	TT	711		
<i>Nomascus leucogenys</i> GPA1	657	AGAGTCTCTGCATATACCTTATTAAGA	ACAGAG	----ACAGGCTTTTACTCATTCTC	TT	711		
<i>Callithrix jacchus</i> GPA1	653	AGAATCTCTGCATACATGTTAGTAAGA	AAGAGAG	-----AAGCTTTTACTCATTCTC	TT	705		
<i>Otolemur garnettii</i> GPA1	661	AGAGTTTATGCATAAACCTTGGTAAGA	AGACAGTTAGACAAG	-ATCTCCCAATTCAT	TT	718		
<i>Mus musculus</i> GpA1	628	----TTTCTGCATAAATGTTGGTAG	GAAAATAATT	----AGGCATTCATTAATTTTC	TT	678		
<i>Rattus norvegicus</i> GpA1	617	----TTTCTGCATCTATCTTGGTAAGA	AAAATAATT	----AGGCATTTGGTTGATTTTC	TT	667		
<i>Cavia porcellus</i> GPA1	657	AGAGTTGATGCTTAAAGCTTAGTGAGA	AGAAATTAGACAGGCATTTACTCATTCTC	TT	715			
<i>Oryctolagus cuniculus</i> GPA1	669	AGAGTCTGTGCACAAACCTTAGTAAGA	AGAGTTAGATAGCCATTTACTCATTCTC	TT	727			
<i>Bos taurus</i> GPA1	667	---GGTTGTGCATAAACCTTAGTAAGA	AAGAGAG	----ACAGGCATTTATGCATTCTC	CT	718		
<i>Equus caballus</i> GPA1	670	-----CTGTGCATAAACCTTAGTAAGA	AAGAAAG	----ACAGGCATTTACACATTCTC	TT	719		
<i>Canis lupus familiaris</i> GPA1	668	-----CTATGCATAAGCCTTAGTGAG	GAGAG	----ACAGCATTTACACATTCTC	TT	717		
<i>Myotis lucifugus</i> GPA1	671	-----CTGTGCATAAACCTTAGTAAA	AAAGGGGG	----AGAGCGTTGACACATTTCTC	TT	720		
<i>Dasyopus novemcinctus</i> GPA1	670	AGAGTCTATGCTAATGACTTTAATAAG	ATGAGAC	---AGGAGGTATTTGCTCACTTTTC	TT	728		
<i>Loxodonta africana</i> GPA1	669	AGAGTCTATGCTAATGACTTTAATAAG	ATGAGAC	---AGGAGGTATTTGCTCACTTTTC	TT	724		
<i>Procavia capensis</i> GPA1	673	AGCGTCCACATAACAACCTTGGTAAG	ATGAGAG	---AGGAGGTATTTGCTCACTTTTC	TT	727		

		790	800	810	820	830	840	
<i>Homo sapiens</i> GPA1	712	TTCAGCACTTATGATTTGAATTAGAAG	GGAAGTCTCTAAAA	---TTTGG	CT---	GTGATCATA	766	
<i>Pan troglodytes</i> GPA1	712	TTCAGCACTTATGATTTGAATTAGAAG	GGAAGTCTCTAAAA	---TTTGG	CT---	GTGATCATA	766	
<i>Pongo abelii</i> GPA1	712	TTCAGCACTTATGATTTGAATTAGAAG	GGAAGTCTCTAAAA	---TTTGG	CT---	GTGATCATA	766	
<i>Nomascus leucogenys</i> GPA1	712	TTCAGCACTTATGATTTGAATTAGAAG	GGAAGTCTCTACAA	---TTTGG	CT---	GTGATCATA	766	
<i>Callithrix jacchus</i> GPA1	706	TTCAGCACTCATGAGTTGAATTTGGAG	GGAAGTCTCTAAAACTGTGG	CT---	GTGATCATA	761		
<i>Otolemur garnettii</i> GPA1	719	TT-AGTACTCATGATTTGAATTTGGAG	GGAAGTCTCTAAAACTGTGGTCT	---	GCAATCACA	774		
<i>Mus musculus</i> GpA1	679	TATGGTGTCTATGCTGAGTTGGAGGG	AGGCTCTAAGACTGTAAGCTAAGG	CAATCGTA	738			
<i>Rattus norvegicus</i> GpA1	668	TATGGTGTCTATGACTGAGTTGGAGG	AGGCTCTCTCAA	---TGT	-----	709		
<i>Cavia porcellus</i> GPA1	716	TTTATCACTCATGACTAAATTTGGAG	GGAAGTCT-CAAAATTTGTGGTCT	-----	762			
<i>Oryctolagus cuniculus</i> GPA1	728	GTCAGCACTTACGATTTGAATTTGGAG	GGAAGTCTCTAAAACTGTGGTCT	---	GTGCTCATG	784		
<i>Bos taurus</i> GPA1	719	TTCAGCACTCATGATTTGAATTTGGAG	GGAAGTCTCTAAAACTGTGGTCT	---	GTGATCACA	775		
<i>Equus caballus</i> GPA1	720	TTCAGCACTCATGATTTGAATTTGGAG	GGAAGTCTCTCAAAATTTGTGGTCT	---	GTGATCACA	776		
<i>Canis lupus familiaris</i> GPA1	718	TTCAGCACTCATGATTTGAATTTGGAG	GGAAGTCTCTAAAACTGTGGTCT	----	GATCACA	772		
<i>Myotis lucifugus</i> GPA1	721	TCCAGCACTCATGATTTGAATTTGGAG	GGAAGTCTCTAATATTGTGGTCT	---	ATGATCACA	777		
<i>Dasyopus novemcinctus</i> GPA1	729	TTCAGCACTCATGATTTGAATTTGGAG	GGAAGTCTCTAAAACTGTGGTCT	---	GAGATCACA	785		
<i>Loxodonta africana</i> GPA1	725	T-CAGCGCTCACGATTAAGTTAGGAG	GGAAGTCTCTAAAAATTTGTGGTCT	---	GCGATCACA	780		
<i>Procavia capensis</i> GPA1	728	TTCAGCACTCATTAATTTAAACTTTGG	GGAAGTCTCTAAAACTGTGGCT	---	GTGATCACA	784		

		850	860	870	880	890	900	
<i>Homo sapiens</i> GPA1	767	GGGTAAGATGTTATCTAACAGAAAGCC	CAGAAACCCAAATGTCTCCTGCTGAG	ATGCTT	826			
<i>Pan troglodytes</i> GPA1	767	GGGTAAGATGTTATCTAACAGAAAGCC	CAGAAACCCAAATGTCTCCTGCTGAG	ATGCTT	826			
<i>Pongo abelii</i> GPA1	767	GGGTAAGATGTTATCTAACAGAAAGCC	CAGAAACCCAAATGTCTCCTGCTGAG	ATGCTT	826			
<i>Nomascus leucogenys</i> GPA1	767	GGGTAAGATGTTATCTAACAGAAAGCC	CAGAAACCCAAATGTCTCCTGCTGAG	ATGCTT	826			
<i>Callithrix jacchus</i> GPA1	762	GGCTAGGATGTTATCTA---GAAGCC	AGCAACCCAAATGTCTCCTGCTGAG	ATGCTT	818			
<i>Otolemur garnettii</i> GPA1	775	GGCTCAGATGTCATCTAACAAATCC	AGAAATAAATGTCTCCTGCTAAGAT	GCTGTAGT	834			
<i>Mus musculus</i> GpA1	739	AGCTAAGATGTTATCTGGAAGAGCC	AGGATACAAGTATCTCCTGCTGAG	CTGCTGAA	798			
<i>Rattus norvegicus</i> GpA1	710	AGCTAAGGTTGTTTCTAACAGAAAGCC	AGGATACAAGTATCTCCTGCTGAG	CTGCTGAA	754			
<i>Cavia porcellus</i> GPA1	763	-----GATCTAACAAAGCC	CAGAAATCAAATGTCTCCTGCTGAT	TACTGGAG	810			
<i>Oryctolagus cuniculus</i> GPA1	785	GGCTAAGATGTTATCTAACAGAAAGCC	CAGAAACCCAAATGTCTCCTGCC	GAGATGCC	844			
<i>Bos taurus</i> GPA1	776	GGCTAAGATGTTATCTAACATGAAGCC	CAGAAACCAAATGTCTCCTGCTGT	GATGCTGAGT	835			
<i>Equus caballus</i> GPA1	777	GGCTAAGATGTTATCTAACAGAAAGCC	CAGAAACCAAATGTCTCCTGCTGAG	ATGCCGTGAGT	836			
<i>Canis lupus familiaris</i> GPA1	773	GGCTAAGATGTTATCTAACAGAAA	CCAGAAACCAAATGTCTCCTGCTGAG	ATGTGCAAGT	832			
<i>Myotis lucifugus</i> GPA1	778	GGCTAAGATGTTATCTAACAGAAAGCC	CAGAAACCAAATGTCTCCTGCTGAG	ATGTGCTGAGT	837			
<i>Dasyopus novemcinctus</i> GPA1	786	GGCTAAGATGTTATCTAACAGAAAGCC	CAGAAACCAAATGTCTCCTGCTGAG	ATGCCGTGAGT	845			
<i>Loxodonta africana</i> GPA1	781	AGCTAAGATATTATCTAGCAGAAAGCC	CAGAAACCAAATTT---CTACTAG	GATGCTTGAAT	837			
<i>Procavia capensis</i> GPA1	785	GGCTAAGATATTATCTAACAGAAAGCC	CAGAAAGCAGATTT---CTGCTGAC	ATGCTTGAAT	841			

		910	920	930	940	950	960	
<i>Homo sapiens</i> GPA1	827	GCCTG	-----	TCAGGATCTAAAAAATTTT	CCTCAAGAATTACT	GTATGTCATTGGA		876
<i>Pan troglodytes</i> GPA1	827	GCCTG	-----	TCAGGATCTAAAAAATTTT	CCTCAAGAATTAT	GTATGTCATTGGA		876
<i>Pongo abelii</i> GPA1	827	GCCTG	-----	TCAGGATCTAAAAAATTTT	CCTCAAGAATTAT	GTATGTCATTGGA		876
<i>Nomascus leucogenys</i> GPA1	827	GCCTG	-----	TCAGGATCTAAAAAATTTT	CCTCAGGAATTAT	GTATGTCATTGGA		876
<i>Callithrix jacchus</i> GPA1	819	GCCTG	-----	TCAGCATCAAAAAAATTTT	CCTCAAGAATTAT	GGATGCCATTGGA		868
<i>Otolemur garnettii</i> GPA1	835	GCCTG	-----	TCAGTATTTACAA-TTTT	CCTCAAGAATTACT	TATATGTCATATAT		883
<i>Mus musculus</i> GpA1	799	GCCT	AAAATCTAAAA	TCAAAACTAAAAATTTT	CTCAAGAACCATT	GCACGTCATTGGA		858
<i>Rattus norvegicus</i> GpA1	755	-----	-----	TCAAAACTAAAAATTTT	CTCAAGAACCA	-----TTTGA		789
<i>Cavia porcellus</i> GPA1	811	ACTTG	-----	TCAATATCTACAAATCTT	GTCAAAAA	-----GGATGTCATT	TGA	855
<i>Oryctolagus cuniculus</i> GPA1	845	GCCTG	-----	TCAGTAGCTAAAAAATTTT	CCTCAAGAATTAT	GGATGTCATTTGA		894
<i>Bos taurus</i> GPA1	836	GCCTG	-----	TCAGTAACTAAAAAATTTT	CTCAAGAGATAT	GGATGTCATTTGA		885
<i>Equus caballus</i> GPA1	837	GCCTG	-----	TCAGTATCTAAAAAATTTT	CCTTAGGAAATAT	GGATGTCATTTGA		886
<i>Canis lupus familiaris</i> GPA1	833	GCCTG	-----	TCAGTATCTAAACATTTT	CCTCAAGAAATAT	GGGTATCATTTGA		882
<i>Myotis lucifugus</i> GPA1	838	GCCCG	-----	TCAGTATCTAAAAAATTTT	CTCACGAAATAT	GGGATGTCATTGGA	-GTCATTTGA	886
<i>Dasyurus novemcinctus</i> GPA1	846	GCCTG	-----	TCAGTATCTAAAAAATTTT	CTCAA-AAATAT	GGGTGTTATTTGA		894
<i>Loxodonta africana</i> GPA1	838	GCTTG	-----	TCAGTATCTAAAAAATTTT	CCTTAAGAATTAT	TAGATGTCATTTGA		887
<i>Procavia capensis</i> GPA1	842	ACTTG	-----	TTAGTACTAAAAAA-TTC	CATAAGAATTAT	TAGATATCATTTGA		890

		970	980	
<i>Homo sapiens</i> GPA1	877	AAGACGTTT	-----TTTTGAGTGGCT	897 (-6500 bp)
<i>Pan troglodytes</i> GPA1	877	AAGACATTC	-----TTTTGAGTGGCT	897 (-6521 bp)
<i>Pongo abelii</i> GPA1	877	AAGACATTC	-----TTTTGAGTGGCT	897 (-7878 bp)
<i>Nomascus leucogenys</i> GPA1	877	AAGACATTC	-----TTTTGAGTGGCT	897 (-7110 bp)
<i>Callithrix jacchus</i> GPA1	869	AAGGCATTC	-----TTTTGAGTGGCT	889 (-13370 bp)
<i>Otolemur garnettii</i> GPA1	884	AAGGCATTT	-----TTTTTAGAAACT	904 (-9528 bp)
<i>Mus musculus</i> GpA1	859	AGGGCCTTCA	TTTTGAGTATCT	880 (-9821 bp)
<i>Rattus norvegicus</i> GpA1	790	AGGGCCTTCA	TTTTGCTCATCT	811 (-9008 bp)
<i>Cavia porcellus</i> GPA1	856	AAGGCATTA	TTTTGAGCGGCT	876 (-13271 bp)
<i>Oryctolagus cuniculus</i> GPA1	895	AAGGCATTC	TTTTGAGTGGCT	915 (-17837 bp)
<i>Bos taurus</i> GPA1	886	AAGGCATCC	-----GTTTCAGTGGCT	906 (-13904 bp)
<i>Equus caballus</i> GPA1	887	AAGGCATTC	TTTTGAGTGACT	907 (-10508 bp)
<i>Canis lupus familiaris</i> GPA1	883	AAGACATTT	-----GTTTGTAGTACT	903 (-15867 bp)
<i>Myotis lucifugus</i> GPA1	887	AAGGCATTC	-----TTCTGAGTGGCT	907 (-7396 bp)
<i>Dasyurus novemcinctus</i> GPA1	895	AACATATTC	-----TTTTGAATGGCT	915 (-14762 bp)
<i>Loxodonta africana</i> GPA1	888	AAGGCATTC	-----TTCCGAGTGGCT	908 (-8983 bp)
<i>Procavia capensis</i> GPA1	891	AAGGCATTC	-----TTCTAAGTGGCT	911 (-10795 bp)