

	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000
1 Ovis aries	ATGACAGCAC	AGAATATGGA	CTCTTCCAGA	TAAATAATAA	AATTTGGTGC	AAAGACGACC	AGAACCCTCA	CTCAAGGAAC	ATCTGTAAAC	TCTCCTGTGA
2 Cervus	ATGACAGCAC	AGAATATGGA	CTCTTCCAGA	TCAACAATAA	AATTTGGTGC	AAAGATGATC	AGAACCCTCA	CTCAAGCAAC	ATCTGTAAAC	TCTCCTGTGA
3 Bulbalus	ATGACAGCAC	AGAATATGGA	CTCTTCCAGA	TAAATAATAA	AATTTGGTGC	AAAGACGACC	AGAACCCTCA	CTCAAGCAAC	ATCTGTAAAC	TCTCCTGTGA
4 Bos	ATGACAGCAC	AGAATATGGA	CTCTTCCAGA	TAAATAATAA	AATTTGGTGC	AAAGACGATC	AGAACCCTCA	CTCAAGCGAC	ATCTGTAAAC	TCTCCTGTGA
5 Cons 1-4	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*
	2010	2020	2030	2040	2050	2060	2070	2080	2090	2100
1 Ovis aries	CAGTGAGTGA	CTTCTTTTCT	CCCTGTTCCT	GTGTTTTTCT	AAAACCTACT	CCTGGGATAA	CCTCCTTTTT	TTTAGTGTGA	AACACACCTT	TGGCTTCACT
2 Cervus	TAGTGAGTGA	CTTCTTTTCT	CCCTGTTCCT	GTGTTTTTCT	GAAACCTACT	CCTGGGATAA	CCTCCTTTTT	TTTGGTGTGA	AGCACACCTT	TGGCTTCACT
3 Bulbalus	TAGTGAGTGA	CTTCTTTTCT	CCCTGTTCCT	GTGTTTTTCT	GAAACCTACT	CCTGGGATAA	CCTCCTTTTT	TTTGGTGTGA	AGCACACCTT	TGGCTTCACT
4 Bos	CAGTGAGTGA	CTTCTTTTCT	CTCTGTTCCT	GTGTTTTTCT	GAAACCTACT	CCTGGGATAA	CCTCCTTTTT	TTTGGTGTGA	AGCACACCTT	TGGCTTCACT
5 Cons 1-4	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
	2110	2120	2130	2140	2150	2160	2170	2180	2190	2200
1 Ovis aries	GCCTTGGCCT	CCAAATTAAC	TGTGGGACTT	GATAATACCG	AGTAAGAGGC	TCTTAGAATT	TTTCATTAAAC	ACCAAATCCC	CAGACAGTTT	CTTAAAGTTC
2 Cervus	GCCTTGGACT	CCAAATTAAC	TGTGGGACTT	GATAATACCG	AGTAAGAGGC	TCTTAGAATT	TTTCATTAAAC	ACCAAATCCC	CAGACAGTTT	CTTAAAGTTC
3 Bulbalus	GCCTTGGACT	CCAAATTAAC	TGTGGGACTT	GATAATACCG	AGTAAGAGGC	TCTTAGAATT	TTTCATTAAAC	ACCAAATCCC	C-----AGTTT	CTTAAAGTTC
4 Bos	GTCTTGGACT	CCAAATTAAC	TGTGGGACTT	GATAATACCG	AGTAAGAGGC	TCTTAGAATT	TTTCATTAAAC	ACTAAATCCC	CAGACAGTTT	CTTAAAGTTC
5 Cons 1-4	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
	2210	2220	2230	2240	2250	2260	2270	2280	2290	2300
1 Ovis aries	ATGGGTAGGT	GACCTGAGCT	GTCTTGGCTAT	CTTGATGTAT	AATACCCCTGT	ATTTTCAGAC	TAAAGTTGGTT	GATGAAGTTG	ATAATTCCCTA	AGGAGCTGCC
2 Cervus	TTGGGAAGGT	GACCTGAGCT	GCTTGGGGAT	CTTGATGTAT	AATACCCCTGT	ATTTTCAGAC	TAAAGTTGGTT	AAATGAAGTTG	ATAATTCCCTA	AGGAGCTGCC
3 Bulbalus	ATGGGTAGGT	GACCTGAGCT	GTCTTGGGGAT	CTTGATGTAT	AATACCCCTGT	ATTTTCAGAC	TAAAGTTGGTT	GCTGAAGTTG	ATAATTCCCTA	AGGAGCTGCC
4 Bos	ATGGGTAGGT	GACCTGAGCT	GTCTTGGGGAT	CTTGATGTAT	AATACCCCTGT	ATTTTCAGAC	TAAAGTTGGTT	GATGAAGTTG	ATAATTCCCTA	AGGAGCTGCC
5 Cons 1-4	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
	2310	2320	2330	2340	2350	2360	2370	2380	2390	2400
1 Ovis aries	CCAGAGAAGA	GAAGGGAGTC	CTTACCTAGG	GATAGGCATT	ACTGTATTAA	ATCTCTCATC	TAAAGGGCAA	CAGGCATAAG	CCTCTAGTTC	AGAGAAAACC
2 Cervus	CCAGAGAAGC	GAAGGGAGTC	CTTACCTAGG	GCTAGGCATT	ACTGTATTAA	ATTTCTCA--	-----CATAGG	-----CATAGG	CCTCTAGTTC	AGAGAAAACC
3 Bulbalus	CAAGAGAAGA	GAAGGGAGTC	CTTACCTAGG	GATAGGCATT	ACTGTATTAA	ATTTCTCA--	CAGAAGGGCAA	CAGGCATAAG	CCTCTAGTTC	AGAGAAAACC
4 Bos	CCAGAGAAGA	GAAGGGAGTC	CTTACCTAGG	GATAGGCATT	ACTGTATTAA	ATTTCTCA--	CAGAAGGGCAA	CAGGCATAAG	CCTCTAGTTC	AGAGAAAACC
5 Cons 1-4	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*****	*****	*****	*-----*
	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
1 Ovis aries	AGAGAAGAGG	GAAATTCAAT	ACCCCTTCTGG	GTAATACTTA	GCTCTCTCAT	TTTTTCCACC	TGTAACCTCT	GCTAGAGTTC	CTGGATGATG	ATCTTACTGA
2 Cervus	AGAGAAGAGG	GAAATTCAAT	ACCTTCTCTGG	GTAATACTTA	TTTCTCTCAT	TTTTTCCACC	TATAACTCTCT	GCCAGAGTTC	CTGGATGATG	ACCTTACTGA
3 Bulbalus	AGAGAAGAGG	GAAATTCAAT	ACCCCTTCTGG	GTAATACTTA	GCTCTCTCAT	TTTTTCCACC	TGTAACCTCT	GCCAGAGTTC	CTGGATGATG	ATCTTACTGA
4 Bos	AGAGAAGAGG	GAAATTCAAT	ATCCTTCTGG	GTAATACTTA	GCTCTCTCAT	TTTTTCCACC	TATAACTCTCT	GCCAGAGTTC	CTGGATGATG	ATCTTACTGA
5 Cons 1-4	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	***	***	***	*-----*
	2510	2520	2530	2540	2550	2560	2570	2580	2590	2600
1 Ovis aries	TGACATTATG	TGTGTCAAGA	AGATTCTGGA	TAAAGTAGGA	ATTAACTACT	GGTGAGTCAC	CTCTCTTAAT	TTCACTTAAAT	CTTTCCCTCT	TTTCTTCTCA
2 Cervus	TGACATTATG	TGTGTCAAGA	AGATTCTGGA	TAAAGTAGGA	ATTAACTACT	GGTGAGTCAC	CTCTCTTAAT	TTCACTTAAAT	CTTTCCCTCT	TTTCTTCTCA
3 Bulbalus	TGACATTATG	TGTGTCAAGA	AGATTCTGGA	TAAAGTAGGA	ATTAACTACT	GGTGAGTCAC	CTCTCTTAAT	TTCACTTAAAT	CTTTCCCTCT	TTTCTTCTCA
4 Bos	TGACATTATG	TGTGTCAAGA	AGATTCTGGA	TAAAGTAGGA	ATTAACTACT	GGTGAGTCAC	CTCTCTTAAT	TTCACTTAAAT	CTTTCCCTCT	TTTCTTCTCA
5 Cons 1-4	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	***	***	*-----*
	2610	2620	2630	2640	2650	2660	2670	2680	2690	2700
1 Ovis aries	GTCCCTTTCGT	CCCAGCACTA	TACTCCGTTC	TCTCTATTTC	CTGGTCTTTT	AAGCTAGAAT	GTAATCTTAA	AATCAAAAAAT	CATCAAGCAG	ACTCAGGTTG
2 Cervus	GTCCCTTTCAT	CCCAGCACTA	TACCCCTTTT	T-----ATTTC	CTGGTCTTTT	AAGCTAGAAT	GTAATCTTCA	AAACAGAAAAAT	CATCAAGCAG	ACTCAGGAAA
3 Bulbalus	GTCCCTTTCGT	CCCAGCACTA	TACTCCGTTC	TCTCTATTTC	CTGGTCTTTT	AAGCTAGAAT	GTAATCTTAA	AAACAAAAAAT	CATCAAGCAG	ACTCCGGTTT
4 Bos	GTCCCTTTCGT	CCCAGCACTA	TACTCCGTTC	TCTCTATTTC	CTGGTCTTTT	AAGCTAGAAT	GTAATCTTAA	AAACAAAAAAT	CATCAAGCAG	ACTCTGGTTT
5 Cons 1-4	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*
	2710	2720	2730	2740	2750	2760	2770	2780	2790	2800
1 Ovis aries	CCAATTTCTGA	AGCTTCACTT	ACTTCACTCC	TGTTAGCAAT	TTCCCTACCT	AGGGTTCCCT	AATAGAGGGC	TGAGATCCAG	GATTTCCTTC	ACCAGGACTT
2 Cervus	CCAATTTTGA	AGCTTCACTT	-----CACTCC	CGTTAGCAAT	TTTCTTACCT	AGGGTTCCCT	AATAGAGGGC	TGAGATCCAG	GATTTCCTTC	ACCAGGACTT
3 Bulbalus	CCAATTTTGA	AGCTTCACTT	ACTTCACTCC	CGTTAGCAAT	TTTCTTACCT	AGGGTTCCCT	AATAGAGGGC	TGAGATCCAG	GATTTCCTTC	ACCAGGACTT
4 Bos	CCAATTTTGA	AGCTTCACTT	ACTTCACTCC	CGTTAGCAAT	TTTCTTACCT	AGGGTTCCCT	AATAGAGGGC	TGAGATCCAG	GATTTCCTTC	ACCAGGACTT
5 Cons 1-4	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*
	2810	2820	2830	2840	2850	2860	2870	2880	2890	2900
1 Ovis aries	GAACATCTAA	TTCTACTTGT	TCAGTCTTAC	ATCCTAAGGC	ATGCCCTTTG	A--CACTGTG	CCACAATTTT	CTTGGAGTTT	TAAAAAAGGG	ACCTTACTCC
2 Cervus	GAGCACCTAA	TTCTACTTGT	TCAGTCTTAC	ATCCTAAGGC	ACGCCCTTTG	TTCCACTGCC	CCACAATTTT	CTTGGAGTTT	TAAAAAATGG	ACCTTACTCC
3 Bulbalus	GAACATCTAA	TTCTACTTGT	TCAGTCTTAC	ATCCTAAGGC	ACGCCCTTTG	TACCAGTGGC	CCACAATTTT	CTTGGAGTTT	TAAAAAATGG	ACCTTACTCC
4 Bos	GAACATCTAA	TTCTACTTGT	TCAGTCTTAC	ATCCTAAG--C	ACGCCCTTTG	-----CACTGCC	CCGCAATTTT	CTTGGAGTTT	TAAAAAATGG	ACCTTACTCC
5 Cons 1-4	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
	2910	2920	2930	2940	2950	2960	2970	2980	2990	3000
1 Ovis aries	ACTAAGTGGC	TCAGTATCTC	TAGCCATGTG	GCTGGAAGAG	TCTGTCTGTA	ATTTTTCACCC	ACAATCTTTT	GCCTCAGCCT	TCCTGGGGAT	AAAGCTAGAT
2 Cervus	ACTAAGTGGC	TCAGTATCTC	TAGCCATGTG	GCTGGAAGAG	TCTGTCTGTA	ATTTTTCACCT	ACAATCTTCC	ACCTCAGCCT	TCCTGGGGAT	AAAGCTAGAT
3 Bulbalus	ACTAAGTGGC	TCAGTATCTC	TAGCCATGTG	GCTGGAAGAG	TCTGTCTGTA	ATTTTTCACCC	ACAATCTTCC	ACCTCAGCCT	TCCTGGGGAT	AAAGCTAGAT
4 Bos	ACTAAGTGGC	TCAGTATCTC	TAGCCATGTG	GCTGGAAGAG	TCTGTCTGTA	ATTTTTCACCC	ACAATCTTCC	ACCTCAGCCT	TCCTGGGGAT	AAAGCTAGAT
5 Cons 1-4	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
	3010	3020	3030	3040	3050	3060	3070	3080	3090	3100
1 Ovis aries	GTAATCTTAA	CCAAGATCCT	GTCAGT--AAT	TTGCCCTTGT	TCCTTCTTCA	TGATCAGGTT	GGCCCATAAA	GCACCTCTGT	CTGAGAAGCT	GGATCAGTGG
2 Cervus	GTAATCTTAA	CCAAGATCCT	GTCAGTCAAC	TTGCCCTTGT	TCCTTCTTCA	TGATCAGGTT	GGCCCATAAA	GCACCTCTGT	CTGAGAAGCT	GGATCAGTGG
3 Bulbalus	GTAATCTTAA	CCAAGATCCT	GTCAGT--AAT	TTGCCCTTGT	TCCTTCTTCA	TGATCAGGTT	GGCCCATAAA	GCACCTCTGT	CTGAGAAGCT	GGATCAGTGG
4 Bos	GTAATCTTAA	CCAAGATCCT	GTCAGT--AAT	TTGCCCTTGT	TCCTTCTTCA	TGATCAGGTT	GGCCCATAAA	GCACCTCTGT	CTGAGAAGCT	GGATCAGTGG
5 Cons 1-4	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
	3110	3120	3130	3140	3150	3160	3170	3180	3190	3200