

	610	620	630	640	650	660	670	680	690	700
1 Ovis aries						--AG--		-GATGG-		A TC-
2 Cervus										
3 Bulbalus					TAT	TTAGTGGTAT	TGGTGGTGG	GGATGGGGAA	GCTGATAACA	TCTCAGAGGG
4 Bos					TAT	TTAGTGGTAT	TGGTGGTGG	GGACGGGGAG	GCTGATAGCA	TCTCAGAGGG
5 Cons 1,3,4					***	***-*****	*****	*--*****	*****	-----*****
	710	720	730	740	750	760	770	780	790	800
1 Ovis aries										
2 Cervus										
3 Bulbalus	TAGCTAGATA	CTGTCAATACA	CACTTTTCAA	GTTCCTCCATT	TTTGTGAAAT	AGAAAGTCTC	TGGATCCAAG	TTATATGTGA	TTCTCAGTCT	CTGTGGTCAT
4 Bos	CAGCTAGATA	CTGTCAATACA	CACTTTTCAA	GTTCCTCCATT	TTTGTGAAAT	AGAAAGTCTC	TGGATCCAAG	TTATATGTGA	TTCTCAGTCT	CTGTGGTCAT
5 Cons 1,3,4	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	810	820	830	840	850	860	870	880	890	900
1 Ovis aries										
2 Cervus										
3 Bulbalus	ATTCTATTTTC	TATTCCTGAC	CACTCAACAA	GGAACCAAGA	TATCAAGGGA	CACITCTTTT	GTTTCATGCC	TGGGTGTAGT	GGGCCAGTGT	CAGCTCTGAT
4 Bos	ATTCTGTTC	TACTCCTGAC	CACTCAACAA	GGAACCAAGA	TATCAAGGGA	CACITCTTTT	GTTTCATGCC	TGGGTGTAGT	GGGC-----	-----
5 Cons 1,3,4	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	910	920	930	940	950	960	970	980	990	1000
1 Ovis aries										
2 Cervus										
3 Bulbalus	CCTGGGACCA	TGACATACGA	TGATGTACAG	TCCTTTCCCA	TATTCGTAT	GTCTCTAAGG	GGAAGGAGGA	GTTGGCCATG	GACCCCTTGT	GCATTTTCTC
4 Bos	-----CA	TGACATATGA	TGATGTACAG	TCCTTTCCCA	TATTCGTAT	GTCTCTAAGG	GGAAGGAGGA	GTTGGCCATG	GACCCCTTGT	GCATTTT---
5 Cons 1,3,4	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100
1 Ovis aries										
2 Cervus										
3 Bulbalus	ATTTTCTGAT	TGCTTCACIT	GTATTACCCC	TGAGGCCCCC	TTTGTTCCTG	AAAGTATGTT	GGCACATCTT	GCTTCTCTAGA	ACCAACACTA	CCAGAAACAA
4 Bos	-----CTGAT	TGCTTCACIT	GTATTACCCC	TGAGGCCCCC	TTTGTTCCTG	AAAGTAGGTT	GGCACATCTT	GCTTCTCTAGA	ACCAACACTA	CCAGAAACAG
5 Cons 1,3,4	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	1110	1120	1130	1140	1150	1160	1170	1180	1190	1200
1 Ovis aries										
2 Cervus										
3 Bulbalus	CATAAATAAA	GCCAAATGGG	AAACAGGATC	ATGTTTGTAA	CACCTGCTTG	GCAGGTAACA	ATACCTAGTA	TGGACTAGAG	ATTCTGGGGA	GGAAAGGAAA
4 Bos	CATAAATAAA	GCCAAATGGG	AAACAGGATC	ATGTTTGTAA	CACCTGCTTG	GCAGGTAACA	ATACCTAGTA	TGGACTAGAG	ATTCTGGGGA	GGAAAGGAAA
5 Cons 1,3,4	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300
1 Ovis aries										
2 Cervus										
3 Bulbalus	AGTGGGGTGA	AATTACTGAA	GGAAGCTAGC	AGGCTCAATG	TTTCTTTGTT	GGTTTACTG	GCCTCTCTCG	TCATCCTCTT	CCTGGATGTA	AGGCTTGATG
4 Bos	AGTGGGGTGA	AATTACTGAA	GGAAGC----	---TCAATG	TTTCTTTGTT	GGTTTACTG	GCCTCTCTCG	TCATCCTCTT	CCTGGATGTA	AGGCTTGATG
5 Cons 1,3,4	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	1310	1320	1330	1340	1350	1360	1370	1380	1390	1400
1 Ovis aries										
2 Cervus										
3 Bulbalus	CCAGGGCCCC	TGAGGCTTTT	TCCACAAATA	AAAGGAGGTG	AGCAGTGTGG	TGACCCCAT	TCAGGATCTT	GGGGGGTAAC	CAAAATGATG	TCCTTTGTCT
4 Bos	CCAGGGCCCC	TGAGGCTTTT	TCCACAAATA	AAAGGAGGTG	AGCAGTGTGG	TGACCCCAT	TCAGGATCTT	GGGGGGTAAC	CAAAATGATG	TCCTTTGTCT
5 Cons 1,3,4	CCAGGGCCCC	TGAGGCTTTT	TCCACAAATA	AAAGGAGGTG	AGCAGTGTGG	TGATCCCAT	TCAGGATCTT	GGGGGGTAAC	CAAAATGATG	TCCTTTGTCT
	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500
1 Ovis aries										
2 Cervus										
3 Bulbalus	CTCTGCTCCT	GGTAGGCATC	CTATTCCATG	CCACCCAGGC	TGAACAAATTA	ACAAAATGTG	AGGTGTTCCT	GGAGCTGAAA	GACTTGAAGG	ACTACGGAGG
4 Bos	CTCTGCTCCT	GGTAGGCATC	CTATTCCATG	CCACCCAGGC	TGAACAAATTA	ACAAAATGTG	AGGTGTTCCT	GGAGCTGAAA	GACTTGAAGG	ACTACGGAGG
5 Cons 1,3,4	CTCTGCTCCT	GGTAGGCATC	CTATTCCATG	CCACCCAGGC	TGAACAAATTA	ACAAAATGTG	AGGTGTTCCT	GGAGCTGAAA	GACTTGAAGG	ACTACGGAGG
	1510	1520	1530	1540	1550	1560	1570	1580	1590	1600
1 Ovis aries										
2 Cervus										
3 Bulbalus	TGTCAGTTTG	CCTGAATGTG	AGTTCCTGTC	TATTTTGCTT	TGTCCCATAA	TTTATCCTCT	TCACCTCTTC	CCTCCATCT	CTTCATCCTC	TTTTCCTCCT
4 Bos	TGTCAGTTTG	CCTGAATGTG	AGTTCCTGTC	TATTTTGCTT	TGTCCCATAA	TTTATCCTCT	TCACCTCTTC	CCTCCATCT	CTTCATCCTC	TTTTCCTCCT
5 Cons 1,3,4	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*
	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700
1 Ovis aries										
2 Cervus										
3 Bulbalus	CTACTCTTAA	TTAAATTATC	GAACAATTCT	CTTATTGTGT	TACTCTTTTA	TTACATTTAT	TTATGTATCT	CTCCTTTTTC	CCGTTGTCTG	ATCCTTTTGA
4 Bos	CTACTCTTAA	TTAAATTATC	GAACAATTCT	CTTATTGTGT	TACTCTTTTA	TTACATTTAT	TTATGTATCT	CTCCTTTTTC	CCATGTGTCT	ATCCTTTTGA
5 Cons 1,3,4	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*
	1710	1720	1730	1740	1750	1760	1770	1780	1790	1800
1 Ovis aries										
2 Cervus										
3 Bulbalus	ACTCTTTTCA	CCTTATCAAG	ATACTCTGTG	GTCTGCCATA	TTTGGAGATT	GGTTGGAGAG	CCTTTTCTCG	TCTGGGAATA	CAGGTCTCTA	TTTATGCTAT
4 Bos	ACTCTTTTCA	CCTTATCAAG	ATACTCTGTG	GTCTGCCATA	TTTGGAGATT	GGTTGGAGAG	CCTTTTCTCG	TCTGGGAATA	CAGGTCTCTA	TTTATGCTAT
5 Cons 1,3,4	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*
	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900