	10	20	30	40	50	60	70	80	90	100
1 Cattle_125-bord-f	TATTCAGCAA	ACCCTAAA	AAGGAAAAA	AGTAAGCGTA	ATTATGATAC	ATAAAAACGT	TAGGTCAAGG	TGTAACCTAT	GAAATGGGAA	GAAATGGGCT
2 Goat_125-bord-f 3 Lamb_125-bord-f	T-ATTCAGCA	AACCCTAA-A ACCCTAAAA-	AAGGAACAAA	AGTAAGCTCA	ATCACAACAC	ATAAAGACGT	TAGGTCAAGG	TGTAACCCAT	GGAATGGGAA	GAAATGGGCT
4 Bovidae	_**_***	_***	_**_*_*_	***-	*_*-	*		*	-*-*	
5 Deer_125-bord-f 6 Stag_125-bord-f	TATTC-GACA	ACCCTAAA ACCCTAAAGG	AAGGAAAAAA	AGTAAGCGTA	ATTATGATAC	ATAAAAACGT	TAGGTCAAGG	TGTAACCTAT	GAAATGGGAA	GAAATGGGCT
7 Antelope_125-bord-f 8 Ruminents	TATCTCGACA	ACCCTAAAGG -***	AAAAA -******	AGTAAGCGTA ***-	ATTATGATAC	ATAAAAACGT	TAGGTCAAGG	TGTAACCTAT	GAAATGGGAA -***	GAAATGGGCT
9 Horse_125-bord-f	TRATTICA COLAR	ACCCTABAC-	A ACCUPACE A -	-CTAACCACA	A ATTATION A C	ATTABABACCT.	TRACCITO A ACC.	тота сесели	CCCATTCCACA	CALATECCE
10 Pig_125-bord-f 11 Pig_125-bord-f	TATCTCGACA	ACCCTAAAGG	AACAT	AGTAAGCACA	ATCATAACAC	ATAAAAACGT	TAGGTCAAGG	TGTAGCTTAT	GGGTTGGAAA	GAAATGGGCT GAAATGGGCT GAAATGGGCT GAAATGGGCT
12 Wild boar_125-bord-f 13 Rabbit_125-bord-f	TATCTCGACA	ACCCTAAAGG CACCTAAATG	AACAT AA-GTACAAT	AGTAAGCACA AGTGAGCTCA	ATCATAGCAC ATAGTC-CCC	ATAAAAACGT ACTAACAAGA	TAGGTCAAGG CAGGTCAAGG	TGTAGCCTTAT TATAGCCCAT	GGGTTGGAAA G-AGGTGGAA	GAAATGGGCT GAAATGGGCT
14 Eutheria	*********	****** CACTCTAT-G		**			*			
15 Chicken_125-bord-f 16 Goose_125-bord-f	TATCTCGACA	ACCCTAAA CACTCAAATG	AAGGAACAAT	AGTAAGCACA	ATCATAGCAC	ATAAAAACGT	TAGGTCAAGG	TGTAGCTTAT	GGGTTGGAAA	GAAATGGGCT
17 Turkey_125-bord-f <i>18 All</i>	********	**-***	AAAGTACAAT	****-	ATAGTCCC-C -*******	ACTAACAAGA ****-*	*	TATAGCCCAT	-*****	GAAATGGGCT
	11	0 120	130	140	150	160	170	180	190	200
1 Cattle_125-bord-f	ACATTCTCTA	CACCAAGAGA	ATCAA	GCACGA	AAG-TTATTA	TGAAACCAAT	AACCAA	AGGAGGATTT	AGCAGTAAAC	TAAGAATAGA
2 Goat_125-bord-f 3 Lamb_125-bord-f	ACATTTTCTA	CCTTAAGAAA CCCAAGAAAA	ATTAA TTTAA	TACGA TACGA	AAGCC-ATTA AAGCC-ATTA	TGAAATTAAT	GACCAA	AGGAGGATTT AGGAGGATTT	AGTAGTAAAC AGCAGTAAAC	TAAGAATAGA TAAGAATAGA
4 Bovidae	*	_***_**_*	**	******	***	**	******		*	
5 Deer_125-bord-f 6 Stag_125-bord-f	ACATTCTCTA	ATTTAAGAAA CACCAAGAGA	ATCAA	GCACGA	AAG-TTATTA	TGAAACCAAT	AACCAA	AGGAGGATTT	AGCAGTAAAC	TAAGAATAGA
7 Antelope_125-bord-f <i>8 Ruminants</i>	ACATTCTCTA	CACCAAGAGA ****-**-	ATCAA	GCACGA	AAG-TTATTA	TGAAACCAAT	AACCAA	AGGAGGATTT	AGCAGTAAAC	TAAGAATAGA
9 Horse_125-bord-f	ACATTTTCTA	CCCTAAGAAC	AAGAACTTTA	ACCCGGACGA	AAGTCTC-CA	TGAAACTGGA	GACTAA	AGGAGGATTT	AGCAGTAAAT	TAAGAATAGA
10 Pig_125-bord-f 11 Pig_125-bord-f	ACATTTTCTA	CAT-AAGAAT CAT-AAGAAT CAT-AAGAAT	ACCCA	CCATACGA	AAG-TITITA	TGAAACTAAA	AACCAA	AGGAGGATTT	AGCAGTAAAT	CAAGAATAGA
12 Wild boar_125-bord-f 13 Rabbit_125-bord-f	ACATTTTCTA	CAT-AAGAAT ACATAGAAC-	ATCCA	CCACACGA GACGA	AAG-TTTTTA AAAAG-GGCG	TGAAACTAAA TGAAACT	AACCAA CGCCCTTGGA	AGGAGGATTT AGGAGGATTT	AGCAGTAAAT AGCAGTAAAG	CAAGAATAGA TAAGACCATA
<i>14 Eutheria</i>	*	****-**	*******	*******	*******	****	*******		**	***-*-
15 Chicken_125-bord-f 16 Goose_125-bord-f	ACATTTTCTA	ACATAGAACA CAT-AAGAAT ACATAGAACA	ATCCA	CCACACGA	AAAAG-GACG AAGGTTTTTA	TGAAACCCGC	AACCAA	AGGAGGATTT	AGCAGTAAAG	TGAGATCATA CAAGAATAGA
17 Turkey_125-bord-f 18 All	ACATTITCTA	****-**-	G	ACGA	AAAAG-GGCG ******	TGAAACTCGC	CCTTGGGA *******	AGGAGGATTT	AGCAGTAAAG **	TAAGACCATA ****-*-
	21	0 220	230	240	250	260	270	280	290	300
1 Cattle_125-bord-f	GT	GCTTAGTTGA	ATTAGGCCAT	G-AAGCACGC	ACACACCGCC	CGTCACCCTC	CTCAAATA	GATTCAGTGC	ATCTAACCC-	TATTTAAACG
2 Goat_125-bord-f	GT GT	GCTTAGTTGA GCTTAGTTGA	ATTAGGCCAT ATTAGGCCAT	G-AAGCACGC G-AAGCACGC	ACACACCGCC ACACACCGCC	CGTCACCCTC CGTCACCCTC	CTCAAATA CTCAAGTA	GATTCAGTGC AATACAATGC	ATCTAACCC- ACTCAAGC-C	TATTTAAACG TATTAACACG
2 Goat_1\bard-f 3 Lamb_125-bord-f <i>4 Bovidae</i>	GT GT GTGCT	GCTTAGTTGA GCTTAGTTGA TAGTTGA ***	ATTAGGCCAT ATTAGGCCAT ATCAGGCCAT	G-AAGCACGC G-AAGCACGC G-AAGCACGC	ACACACCGCC ACACACCGCC ACACACCGCC	CGTCACCCTC CGTCACCCTC CGTCACCCTC	CTCAAATA CTCAAGTA CTCAAGTA CTCA***-	GATTCAGTGC AATACAATGC AATATGATAT ****	ATCTAACCC- ACTCAAGC-C ACTTAAAC-C -*****	TATTTAAACG TATTAACACG TATTTACA ****
2 Goat_125-bord-f 3 Lamb_125-bord-f <i>4 Bovidae</i> 5 Deer_125-bord-f 6 Stag_125-bord-f	GT GT GTGCT -*** GT	GCTTAGTTGA GCTTAGTTGATAGTTGA *** GCTTAGTTGA GCTTAGTTGA	ATTAGGCCAT ATTAGGCCAT ATCAGGCCAT -*	G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC	ACACACCGCC ACACACCGCC ACACACCGCC ACACACCGCC ACACACCGCC	CGTCACCCTC CGTCACCCTC CGTCACCCTC CGTCACCCTC CGTCACCCTC	CTCAA-ATA CTCA-AGTA CTCA-AGTA CTCA-AGTA CTCAA-ATA CTCAA-ATA CTCAAA-TA	GATTCAGTGC AATACAATGC AATATGATAT ******* AGCAAAATAC GATTCAGTGC	ATCTAACCC- ACTCAAGC-C ACTTAAAC-C -***-*** ATTTAAATT- ATCTAACC-C	TATTTAAACG TATTAACACG TATTA-TACA**-* TATTTATACG TATTTATACG
2 Goat 125-bord-f 3 Lamb_125-bord-f 4 Bovidse 5 Deer_125-bord-f 6 Stag_125-bord-f 7 Antelope_125-bord-f	GT	GCTTAGTTGA GCTTAGTTGATAGTTGA ***GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA	ATTAGGCCAT ATTAGGCCAT ATCAGGCCAT ATCAGGCCAT ATTAGGCAAT ATTAGGCCAT ATTAGGCCAT	G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC	ACACACGGCC ACACACGGCC ACACACGGCC ACACACGGCC ACACACGGCC ACACACGCC	CGTCACCCTC CGTCACCCTC CGTCACCCTC CGTCACCCTC CGTCACCCTC	CTCAA-ATA CTCA-AGTA CTCA-AGTA CTCA-AGTA CTCAA-ATA CTCAAA-TA CTCAAATAGA	GATTCAGTGC AATACAATGC AATATGATAT ******** AGCAAAATAC GATTCAGTGC TTCA-GTGTC ***********	ATCTAACCC- ACTCAAGC-C ACTTAAAC-C -***-*** ATTTAAATT- ATCTAACC-C ATCTAACC-C	TATTTAAACG TATTAACCG TATTTACA TATTTATACG TATTTAAACG TATTTAAACG TATTTAAACG
2 Goat 125-bord-f 3 Lamb_125-bord-f 4 Boridae 5 Deer_125-bord-f 6 Stag_125-bord-f 7 Antelope_125-bord-f 8 Ruminants 9 Horse_125-bord-f	GT	GCTTAGTTGA GCTTAGTTGATAGTTGA ***GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA	ATTAGGCCAT ATTAGGCCAT ATCAGGCCAT ATCAGGCCAT ATTAGGCAAT ATTAGGCCAT ATTAGGCCAT	G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC	ACACACGGCC ACACACGGCC ACACACGGCC ACACACGGCC ACACACGGCC ACACACGCC	CGTCACCCTC CGTCACCCTC CGTCACCCTC CGTCACCCTC CGTCACCCTC	CTCAA-ATA CTCA-AGTA CTCA-AGTA CTCA-AGTA CTCAA-ATA CTCAAA-TA CTCAAATAGA	GATTCAGTGC AATACAATGC AATATGATAT ******** AGCAAAATAC GATTCAGTGC TTCA-GTGTC ***********	ATCTAACCC- ACTCAAGC-C ACTTAAAC-C -***-*** ATTTAAATT- ATCTAACC-C ATCTAACC-C	TATTTAAACG TATTAACCG TATTTACA TATTTATACG TATTTAAACG TATTTAAACG TATTTAAACG
2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Boridae 5 Deer 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminants 9 Horse 125-bord-f 10 Pig 125-bord-f 11 Pig 125-bord-f	GT	GCTTAGTTGA GCTTAGTTGATAGTTGA ***GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA	ATTAGGCCAT ATTAGGCCAT ATCAGGCCAT ATCAGGCCAT ATTAGGCAAT ATTAGGCCAT ATTAGGCCAT	G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC G-AAGCACGC	ACACACGGCC ACACACGGCC ACACACGGCC ACACACGGCC ACACACGGCC ACACACGCC	CGTCACCCTC CGTCACCCTC CGTCACCCTC CGTCACCCTC CGTCACCCTC	CTCAA-ATA CTCA-AGTA CTCA-AGTA CTCA-AGTA CTCAA-ATA CTCAAA-TA CTCAAATAGA	GATTCAGTGC AATACAATGC AATATGATAT ******** AGCAAAATAC GATTCAGTGC TTCA-GTGTC ***********	ATCTAACCC- ACTCAAGC-C ACTTAAAC-C -***-*** ATTTAAATT- ATCTAACC-C ATCTAACC-C	TATTTAAACG TATTAACCG TATTTACA TATTTATACG TATTTAAACG TATTTAAACG TATTTAAACG
2 Goat 125-bord-f 3 Lamb_125-bord-f 4 Borvidae 5 Deer_125-bord-f 6 Stag_125-bord-f 7 Antelope_125-bord-f 8 Ruminents 9 Horse_125-bord-f 10 Pig_125-bord-f 11 Pig_125-bord-f 12 Wild boar_125-bord-f	GT	GCTTAGTTGA GCTTAGTTGATAGTTGA ***TAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA	ATTAGGCCAT ATTAGGCCAT ATCAGGCCAT ATTAGGCAAT ATTAGGCAAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATCAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT	G-AAGCACGC	ACACACCGCC	CGTCACCCTC	CTCAA-ATA CTCA-AGTA CTCA-AGTA CTCA-AGTA CTCAA-ATA CTCAAA-ATA CTCAAATAGA CTTAAATATA CTCAAGCATG CTCAAGCATG CTCAAGCATG	GATTCAGTGC AATACAATGC AATACAATATAT ****-** AGCAAAAATAC GATTCAGTGC TTCA-GTGTC ********** ACAAATCACA TAGT-AATAA TAGT-AATAA	ATCTAACCC- ACTCAAGC-C ACTTAAAC-C -***-***- ATTTAAACT- ATCTAACCC- ATCTAACCC- ***-**** ACATAACCTA AAATAACCTA AAATAACCTA	TATTTAAACG TATTAACACG TATTAACACG TATT-TACA TATTTATACG TATTTAAACG TATTTAAACG TATTTAAACCG TATTCAATTA TATTCAATTA TATTCAATTA
2 Goat 125-bord-f 3 Lamb_125-bord-f 4 Boridae 5 Deer_125-bord-f 6 Stag_125-bord-f 7 Antelope_125-bord-f 8 Ruminants 9 Horse_125-bord-f 10 Pig_125-bord-f 11 Pig_125-bord-f 12 Wild boar_125-bord-f 13 Rabbit_125-bord-f 14 Butheria	GT	GCTTAGTTGA GCTTAGTTGATAGTTGATAGTTGA GCTTTAGTTGA GCTTTAGTTGA ***	ATTAGGCCAT ATTAGGCAAT ATTAGGCAAT ATTAGGCAAT ATTAGGCAAT ATTAGGCAT ATTAGGCCAT ATTAGGCCAT ATAGGCCAT ATAGGCCAT ATAGGCCAT ATAGGCCAT ATAAGGCCAT AGAGGCCCT *********************************	G-AAGCACGC G-AGCACGC G-AGCACGC G-AGCACGC G-G-AGCACGC G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-	ACACACCGCC	COTCACCCTC	CTCAAATA     CTCAACTA     CTCAACTA     CTCAAATA     CTCAAAATA     CTCAAATA     CTCAAA-TAGA     CTCAAGCATG     CT	GATTICAGTIG AATACAATIGA AATATGATTAT ****-** AGCAAAATAC GATTICAGTIGC TTCA-GTGTC TAGT-AATAA TAGT-AATAA TAGT-AATAA TAGT-AATAA TAGT-AATAA	LATCTAACCC- ACTTAAACC- ACTTAAACC- ACTTAAACT- ATTTAAACT- ATCTAACC- ATCTAACCC- ATATAACCTA AAATAACCTA AAATAACCTA AAATAACCTA ATTCAAT- ATTCAAT- ATTCAAT- ATTCAAT- ATTCAAT- ATTCAAT- ATTTCAAT- ATTTCAAT- ATTTCAAT- ATTTCAAT- ATTTCAAT-	TATTTAAACG TATTAACACG TATTAACACG TATTATTATACG TATTTATACG TATTTATACG TATTTAAACG TATTTAAACG TATTCAATTA TATTCAATTA TATTCAATTA AATA-ATACC*********************************
2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Boridae 5 Deer 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 14 Eutheria 15 Chicken 125-bord-f 16 Goose 125-bord-f	GT	GCTTAGTTGA GCTTAGTTGATAGTTGATAGTTGA GCTTTAGTTGA GCTTTAGTTGA ***	ATTAGGCCAT ATTAGGCAAT ATTAGGCAAT ATTAGGCAAT ATTAGGCAAT ATTAGGCAT ATTAGGCCAT ATTAGGCCAT ATAGGCCAT ATAGGCCAT ATAGGCCAT ATAGGCCAT ATAAGGCCAT AGAGGCCCT *********************************	G-AAGCACGC G-AGCACGC G-AGCACGC G-AGCACGC G-G-AGCACGC G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-	ACACACCGCC	COTCACCCTC	CTCAAATA     CTCAACTA     CTCAACTA     CTCAAATA     CTCAAAATA     CTCAAATA     CTCAAA-TAGA     CTCAAGCATG     CT	GATTICAGTIG AATACAATIGA AATATGATTAT ****-** AGCAAAATAC GATTICAGTIGC TTCA-GTGTC TAGT-AATAA TAGT-AATAA TAGT-AATAA TAGT-AATAA TAGT-AATAA	LATCTAACCC- ACTTAAACC- ACTTAAACC- ACTTAAACT- ATTTAAACT- ATCTAACC- ATCTAACCC- ATATAACCTA AAATAACCTA AAATAACCTA AAATAACCTA ATTCAAT- ATTCAAT- ATTCAAT- ATTCAAT- ATTCAAT- ATTCAAT- ATTTCAAT- ATTTCAAT- ATTTCAAT- ATTTCAAT- ATTTCAAT-	TATTTAAACG TATTAACACG TATTAACACG TATTATTATACG TATTTATACG TATTTATACG TATTTAAACG TATTTAAACG TATTCAATTA TATTCAATTA TATTCAATTA AATA-ATACC*********************************
2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Boridse 5 Deer 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 10 Pig 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 14 Eitheris 15 Chicken 125-bord-f	GT	GCTTAGTTGA GCTTAGTTGATAGTTGA *** GCTTAGTTGA GCTTAGTTGA *** GCTTAATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA	ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATAGGCCAT ATAGGCCAT ATAGGCCAT ATAGGCCAT ATAGGCCAT ATAGGCCAT AGAGGCCT ATAGGCCAT AGAGGCCT ATAGGCCAT AGAGGCCT ATAGGCCAT AGAGGCCT ATAGGCCAT AGAGGCCT	G-AAGCACGC G-AGGCACGT -**-*-**-** G-AGGCACGT GTAAGCACGC	ACACACCGC ACACCGCC ACACACCGCC	CGTCACCCTC	CTCAA-ATA   CTCA-AGTA   CTCA-AGTA   CTCA-AGTA   CTCAA-ATA   CTCAAA-TA   CTCAAA-TAGA   CTCAAATAGA   CTTAAAGCATG   CTCAAGCATG   CTCACAAGCATG   CTCACAAGCATG   CTCACAAGCATG   CTCACAAGCATG   CTCACAAGCATG   CTCACAAGCATG   CTCACAAGCATG   CTCACAAGCATG   CTCACAAGCATG   CTCACAAGCT	GATTICAGTIGC AATACAATGC AATATGATAT  **	ATCTAACCC- ACTTAAACC-C ACTTAAAC-C- ACTTAAAC-C- ATCTAACC-C ATCTAACC-C -***-***-***- AATTAACCTA AAATAACCTA ATTTCAAT-A ATTAACCTA ATTTCAAT-A AATTAACCTA ATTAACCTA ATTAACCTA ATTAACCTA ATTAACCTA	TATTTAAACG TATTAACACG TATTA-TACA***-* TATTTATACG TATTTATACG TATTTAAACG TATTTAAACG TATTTAAACG TATTTAAACG TATTCAATTA TATCAATTA TATCAATTA AATA-ATACC *-******* TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA *-******* TATTCAATTA TATTCAATTA******** TATTCAATTA TATTCAATTA********
2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Bovidse 5 Deer 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 10 Pig 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 14 Butheria 15 Chicken 125-bord-f 16 Goose 125-bord-f 17 Turkey 125-bord-f	GT	GCTTAGTTGA GCTTAGTTGA ***- GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTAATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA ******- GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTGATTGA GCTGATTGA GCTGATTGA GCTGATTGA GCTGATTGA ******	ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT AGAGGGCCT ATAAGGCCT ATAAGGCCAT ATAAGGCAT AT	G-AAGCACGC G-GGGGACGT**-*-*-*-*	ACACACCGCC ACACCGCC ACACACCGCC ACACACCGCC ACACACCGCC ACACACCGCC ACACACCGCC ACACCGCC ACACACCGCC ACACACCGCC ACACACCGCC ACACACCGCC ACACACCGCC ACACCGCC	GTCACCTC GGTCACCTC	CTCAA-ATA   CTCA-AGTA   CTCA-AGTA   CTCAA-AGTA   CTCAAA-ATA   CTCAAA-ATA   CTCAAATAGA*********   CTCAAGCATG   CTCA-C********   CTCAAGCATG   CTCACAGCATG   CTC	GATTCAGTGC AATACAATGC AATATGATAT ****-** AGCAAAATAC GATTCAGTGC TTCA-GTGTC ********** ACAAATTCACA TAGT-AATAA TAGT-AATAA TAGT-AATAA *********** ********************	ATCTAACC- ACTCAAGC-C ACTCAAGC-C ACTTAAAC-C ATCTAACC-C ATCTAACC-C ATCTAACCC-ATCTAACC-T AAATAACCTA AAATAACCTA AAATAACCTA AAATAACCTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA -****-****	TATTTAAACG TATTA-TACA TATT-TACA***-* TATTTATACG TATTTAAACG TATTTAAACG TATTTAAACG TATTTAAACG TATTTAAACCG TATTCAATTA TATTCAATTA TATTCAATTA AATA-ATACC ******** TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA ********* ***********
2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Bovidae 5 Deer 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 14 Eutheris 15 Chicken 125-bord-f 17 Turkey 125-bord-f 18 All  1 Cattle 125-bord-f	GT	GCTTAGTTGA GCTTAGTTGA ***	ATTAGGCCAT ATTAGGCCAT ATCAGGCCAT ATCAGGCCAT ATTAGGCAAT ATTAGGCAAT ATTAGGCCAT ATCAGGCCAT ATCAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT AGACGGCCT AGAGGGCCT AGAGGCCT AGAGGGCCT AGAGGGCT AGAGGGCCT A	G-AAGCACGC G-AGCACGT -**-*-* G-AGGCACGT -***-*-* TAACAAGGTA	ACACACCGCC ACACACCACCGCC ACACACCACCACACACCACCACACACCACCACACACCAC	GTCACCTC GGTCACCTC	CTCAA-ATA   CTCA-AGTA   CTCA-AGTA   CTCAA-AGTA   CTCAAA-ATA   CTCAAA-ATA   CTCAAACATGA   CTCAAAGTATC   CTCAAGCATG   CTCAAGCATG   CTCA-C********   CTCAAGCATG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACACAGCTG   CTCAC	GATTCAGTGC AATACAATGC AATATGATAT ****-** AGCAAAATAC GATTCAGTGC TTCA-GTGTC ********** ACAAATTCACA TAGT-AATAA TAGT-AATAA TAGT-AATAA *********** ********************	ATCTAACC- ACTCAAGC-C ACTCAAGC-C ACTTAAAC-C ATCTAACC-C ATCTAACC-C ATCTAACCC-ATCTAACC-T AAATAACCTA AAATAACCTA AAATAACCTA AAATAACCTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA -****-****	TATTTAAACG TATTA-TACA TATT-TACA**** TATTTTATACG TATTTTAAACG TATTTTAAACG TATTTAAACG TATTTAAACCG TATTCAATTA TATTCAATTA TATTCAATTA AATA-AATACC ********* TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA ********* ********************
2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Bovidse 5 Deer 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 10 Pig 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 14 Eutheria 15 Chicken 125-bord-f 17 Turkey 125-bord-f 18 All  1 Cattle 125-bord-f 2 Goat 125-bord-f	GT	GCTTAGTTGA GCTTAGTTGA ***TAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTGATTGA A*****-  321 ACATGAGAGG ATG-AGAGG ATG-AGAGG ATG-AGAGG	ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATTAGGCCAT ATAAGGCCAT ATAAGGCAT AGAGAAGTCG AGATAAGTCG AGATAAGTCG	G-AAGCACGC G-AGGCACGT -***-*-* TAACAAGGTA TAACAAGGTA	ACACACCGCC ACACACCACCGCC ACACACCACCACCACCACCACCACACACA	GTCACCTC GGTCACCTC	CTCAA-ATA   CTCA-AGTA   CTCA-AGTA   CTCAA-AGTA   CTCAAA-ATA   CTCAAA-ATA   CTCAAACATGA   CTCAAAGTATC   CTCAAGCATG   CTCAAGCATG   CTCA-C********   CTCAAGCATG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACACAGCTG   CTCAC	GATTCAGTGC AATACAATGC AATATGATAT ****-** AGCAAAATAC GATTCAGTGC TTCA-GTGTC ********** ACAAATTCACA TAGT-AATAA TAGT-AATAA TAGT-AATAA *********** ********************	ATCTAACC- ACTCAAGC-C ACTCAAGC-C ACTTAAAC-C ATCTAACC-C ATCTAACC-C ATCTAACCC-ATCTAACC-T AAATAACCTA AAATAACCTA AAATAACCTA AAATAACCTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA -****-****	TATTTAAACG TATTA-TACA TATT-TACA**** TATTTTATACG TATTTTAAACG TATTTTAAACG TATTTAAACG TATTTAAACCG TATTCAATTA TATTCAATTA TATTCAATTA AATA-AATACC ********* TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA ********** *******************
2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Bovidse 5 Deer 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 14 Butheria 15 Chicken 125-bord-f 17 Turkey_125-bord-f 18 AZZ  1 Cattle 125-bord-f 2 Goat 125-bord-f 2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Bovidse	GT	GCTTAGTTGA GCTTAGTTGA ***	ATTAGGCCAT AGACGCCCT -***-**- AGACGCCTC -***-**- AGACGACTCG AGACAGTCG AGATAAGTCG AGATAAGTCG AGATAAGTCG AGACAAGTCG -***- AGACAAGTCG AGACAAGTCG -**- A	G-AAGCACGC G-AGCACGC G-AGCACGC G-AGCACGC TAACAAGCACGC TTAACAAGGTTA TAACAAGGTTA TAACAAGGTTA	ACACACCGCC ACACACCACC ACACACCACCACC ACACACCACCAC	GTCACCTC GGTCACCTC	CTCAA-ATA   CTCA-AGTA   CTCA-AGTA   CTCAA-AGTA   CTCAAA-ATA   CTCAAA-ATA   CTCAAACATGA   CTCAAAGTATC   CTCAAGCATG   CTCAAGCATG   CTCA-C********   CTCAAGCATG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACACAGCTG   CTCAC	GATTCAGTGC AATACAATGC AATATGATAT ****-** AGCAAAATAC GATTCAGTGC TTCA-GTGTC ********** ACAAATTCACA TAGT-AATAA TAGT-AATAA TAGT-AATAA *********** ********************	ATCTAACC- ACTCAAGC-C ACTCAAGC-C ACTTAAAC-C ATCTAACC-C ATCTAACC-C ATCTAACCC-ATCTAACC-T AAATAACCTA AAATAACCTA AAATAACCTA AAATAACCTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA -****-****	TATTTAAACG TATTA-TACA TATT-TACA**** TATTTTATACG TATTTTAAACG TATTTTAAACG TATTTAAACG TATTTAAACCG TATTCAATTA TATTCAATTA TATTCAATTA AATA-AATACC ********* TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA ********** *******************
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2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Bovidse 5 Deer 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 11 Pig 125-bord-f 12 Wild boer 125-bord-f 13 Rabbit 125-bord-f 14 Elitheria 15 Chicken 125-bord-f 16 Goose 125-bord-f 17 Turkey 125-bord-f 18 All  1 Cattle 125-bord-f 2 Goat 125-bord-f 3 Lamb 125-bord-f 5 Lamb 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 10 Pig 125-bord-f 11 Pig 125-bord-f 12 Wild boer 125-bord-f 13 Rabbit 125-bord-f 13 Rabbit 125-bord-f 14 Elitheria	GT	GCTTAGTTGA GCTTAGTTGA 4*** GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTAGTTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA GCTTGATTGA 4**** GCTTAGTTGA 4**** GCTTAGTTGA 4**** GCTTAGTTGA 4***** GCTTAGTTGA GCTTGATTGA ACATGAGAGG ACATGAGAGG ACATGAGAGG ACATGAGAGG ***** ATGAGAG GCAAGAAG GCAAGAAG GCAAGAAG GCAAGGAG TAAAGATG TAAAGATG TAAAGATG TAA	ATTAGGCCAT ATTAGGCAAT ATTAGGCAAT ATTAGGCAAT ATTAGGCCAT AGAGGGCTCT ATTAGGCCAT AGACAAGTCG	G-AAGCACGC G-AGCACGT -***-*-*-*  TAACAAGGTA	ACACACCGCC ACATACCGCC ACACCCCC ACACCCCC ACACCCCC ACACCCCC ACACCCCCC	GTCACCTC GGTCACCTC	CTCAA-ATA   CTCA-AGTA   CTCA-AGTA   CTCAA-AGTA   CTCAAA-ATA   CTCAAA-ATA   CTCAAACATGA   CTCAAAGTATC   CTCAAGCATG   CTCAAGCATG   CTCA-C********   CTCAAGCATG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACACAGCTG   CTCAC	GATTCAGTGC AATACAATGC AATATGATAT ****-** AGCAAAATAC GATTCAGTGC TTCA-GTGTC ********** ACAAATTCACA TAGT-AATAA TAGT-AATAA TAGT-AATAA *********** ********************	ATCTAACC- ACTCAAGC-C ACTCAAGC-C ACTTAAAC-C ATCTAACC-C ATCTAACC-C ATCTAACCC-ATCTAACC-T AAATAACCTA AAATAACCTA AAATAACCTA AAATAACCTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA -****-****	TATTTAAACG TATTA-TACA TATT-TACA**** TATTTTATACG TATTTTAAACG TATTTTAAACG TATTTAAACG TATTTAAACCG TATTCAATTA TATTCAATTA TATTCAATTA AATA-AATACC ********* TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA ********** *******************
2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Bovidse 5 Deer 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 14 Eutheria 15 Chicken 125-bord-f 17 Turkey 125-bord-f 18 All  1 Cattle 125-bord-f 2 Goat 125-bord-f 3 Lamb 125-bord-f 5 Lamb 125-bord-f 6 Stag 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 10 Pig 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 14 Eutheria 15 Chicken 125-bord-f 14 Rutheria 15 Chicken 125-bord-f 16 Goose 125-bord-f 17 Goose 125-bord-f 18 Wild boar 125-bord-f 19 Horse 125-bord-f 10 Pig 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 14 Eutheria 15 Chicken 125-bord-f	GT	GCTTAGTTGA GCTTAGTTGA ***	ATTAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT ATAAGGCCAT AGAGGCGCT ATAAGGCCAT ATAAGGCCAT AGAGGCCT ATAAGGCCAT AGAGGCCT ATAAGGCCAT AGAGAGTTGG AGATAAGTTGG AGACAAGTTGG AGACAAGTTGG AGACAAGTTG AG	G-AAGCACGC G-AGGCACGT -**-*-* TAACAAGGTA	ACACACCGCC ACACACCACC ACACACCACCACC ACACACCACCAC	GTCACCTC GGTCACCTC	CTCAA-ATA   CTCA-AGTA   CTCA-AGTA   CTCAA-AGTA   CTCAAA-ATA   CTCAAA-ATA   CTCAAACATGA   CTCAAAGTATC   CTCAAGCATG   CTCAAGCATG   CTCA-C********   CTCAAGCATG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACACAGCTG   CTCAC	GATTCAGTGC AATACAATGC AATATGATAT ****-** AGCAAAATAC GATTCAGTGC TTCA-GTGTC ********** ACAAATTCACA TAGT-AATAA TAGT-AATAA TAGT-AATAA *********** ********************	ATCTAACC- ACTCAAGC-C ACTCAAGC-C ACTTAAAC-C ATCTAACC-C ATCTAACC-C ATCTAACCC-ATCTAACC-T AAATAACCTA AAATAACCTA AAATAACCTA AAATAACCTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA -****-****	TATTTAAACG TATTA-TACA TATT-TACA**** TATTTTATACG TATTTTAAACG TATTTTAAACG TATTTAAACG TATTTAAACCG TATTCAATTA TATTCAATTA TATTCAATTA AATA-AATACC ********* TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA ********** *******************
2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Bovidse 5 Deer 125-bord-f 6 Stag 125-bord-f 7 Antelope 125-bord-f 8 Ruminents 9 Horse 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 14 Eutheria 15 Chicken 125-bord-f 16 Goose 125-bord-f 17 Turkey 125-bord-f 2 Goat 125-bord-f 3 Lamb 125-bord-f 4 Bovidse 5 Deer 125-bord-f 7 Antelope 125-bord-f 7 Ruminents 9 Horse 125-bord-f 10 Pig 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 11 Pig 125-bord-f 12 Wild boar 125-bord-f 13 Rabbit 125-bord-f 13 Rabbit 125-bord-f 13 Rabbit 125-bord-f 14 Eutheria 15 Chicken 125-bord-f	GT	GCTTAGTTGA GCTTAGTTGA  ***	ATTAGGCCAT ATAGAGCCAT ATAGGCCAT ATAGGCCAT ATAGGCCAT AGACGGCCT ATAGGCCAT AGACGGCCT ATAGGCCAT AGACGGCCT ATAGGCCAT AGACGACTCG AGATAACTCG AGACAACTCG AGACAACTC	G-AAGCAGGC G-AGGCAGGT -***-**-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-	ACACACGGC ACACACGCC ACACACCGC ACACACGCC ACACACCACC ACACACGCC ACACACCACC ACACACCACC ACACACCACC ACACACCAC	GTCACCTC GGTCACCTC	CTCAA-ATA   CTCA-AGTA   CTCA-AGTA   CTCAA-AGTA   CTCAAA-ATA   CTCAAA-ATA   CTCAAACATGA   CTCAAAGTATC   CTCAAGCATG   CTCAAGCATG   CTCA-C********   CTCAAGCATG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACAAGCTG   CTCACACAGCTG   CTCAC	GATTCAGTGC AATACAATGC AATATGATAT ****-** AGCAAAATAC GATTCAGTGC TTCA-GTGTC ********** ACAAATTCACA TAGT-AATAA TAGT-AATAA TAGT-AATAA *********** ********************	ATCTAACC- ACTCAAGC-C ACTCAAGC-C ACTTAAAC-C ATCTAACC-C ATCTAACC-C ATCTAACCC-ATCTAACC-T AAATAACCTA AAATAACCTA AAATAACCTA AAATAACCTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA AATAACTA	TATTTAAACG TATTA-TACA TATT-TACA**** TATTTTATACG TATTTTAAACG TATTTTAAACG TATTTAAACG TATTTAAACCG TATTCAATTA TATTCAATTA TATTCAATTA AATA-AATACC ********* TATTCAATTA TATTCAATTA TATTCAATTA TATTCAATTA ********** *******************

Figure 1: DNA sequence of the 12S-border primers amplicon of cattle, goat and sheep in 5'-3' orientation.

10 20 30 40 50 60 70 80
1 Cattle 12TATTCAGCAA ACCCTAAAAA GGAAAAAAAG TAAGCGTAAT TATGATACAT AAAAACGTTA GGTCAAGGTG TAACCTATGA