**Table S2: Primer sequences for typing and assessment of DNA degradation in ancient samples**

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| --- | --- | --- | --- |
| **Amplicon** | **Primer** | **Primer Sequence (5' --- 3')** | **Length with primers** |
| CR\_Frag1 | BovCR-16351F | CAACCCCCAAAGCTGAAG | 278 bp |
| BovCR-16652R | CTTGCTTATATGCATGGGGC |
| CR\_Frag2 | BovCR-16633Fa | GCCCCATGCATATAAGCAAG | 170 bp |
| BovCR-16810Ra | GCCTAGCGGGTTGCTGGTTTCACGC |
| CR\_Frag3 | BovCR-16765Fa | GAGCTTAAYTACCATGCCG | 263 bp |
| BovCR-80Ra | CAAGCATCCCCCAAAATAAA |
| CR\_Frag4 | BovCR-16351F | CATCTGGTTCTTTCTTCAGGGCC | 653 bp |
| BovCR-80Ra | CAAGCATCCCCCAAAATAAA |
| IGF2 | Igf2-F | GATTAGAAGTGAGCCAAAGTGT | 217 bp |
| Igf2-R | GATGTTGTTCTGATCCCCTCAGC |
| XIST | Xist-F | TTTTGCTGCAGGGACAATATGGCTGAC | 222 bp |
| Xist-R | CCACCCTTTCTGATTGGGTGGGACAC |
| NESP55 (proximal) | Nesp55-1F | TCCGACCCACCCTCTGGCTC | 143 bp |
| Nesp55-1R | AGGTGCTTCCCTTTTTCCCCTCG |
| NESP55 (distal) | Nesp55-2F | CGGTGGGCAACCAACCTGGG | 120 bp |
| Nesp55-2R | CGCCGTGACCCATCCCCAGA |
| PEG3 | Peg3-F | GGCTGACAGCTCGACCACTG | 95 bp |
| Peg3-R | CATGTCCACCCTTGGCTGCTGG |

a Primer sequences from Shapiro et al. [16]