**S1 Table. Primers for eleven MHC microsatellites sizes of the amplicons and gene accession numbers and/or references where applicable.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **microsatellite** | **MHC Class region** | **primer** | **sequence** | **obtained product size** | **label** | **Gene bank accession number/ reference** |
| MULTIPLEX 1 | **ABGe9019** | III | forward reverse | CTGAGAGAGACAGCATTTGTGG GAAAGGTGTCTCCATTCTTGCT | 291-311 | NED | FN414912.1 |
| **ABGe9030** | II | forward reverse | CCAGCAGACCTGCAAGAGTA  AGCATGAGAGCCATGAAGGT | 193-209 | NED | FN414920.1 |
| **TKY3324** | II | forward reverse | AGCCGTCCTGTTCCAACTAA  TGCCCCTTAAAACTCTGTCTTT | 239-261 | NED | AB217267.1 |
| **COR110** | I | forward reverse | TTTGGTCTTTGCAGGTATGG  TCTCCCTTCCTCTTTGTTCC | 197-214 | FAM | EF531702 |
| MULTIPLEX 2 | **COR112** | II | forward reverse | TTACCTGGTTATTGGTTATTTGG  TCACCCACTAAATCTCAAATCC | 230-260 | NED | [32] |
| **TAMU30593** | I | forward reverse | GAAGCCCAGTCTGAGTGAAGAT AGATTTGGACCGAGAAAGTCTG | 329-345 | FAM | [36] |
| MULTIPLEX 3 | **COR113** | II | forward reverse | TGTTTAGAACTCGCCAGGAG  TCATCAGTTCCTTGCCTAGC | 248-272 | NED | [32] |
| **COR114** | II | forward reverse | TCAAAATCCACACTCCCTTC  TCCATAAAGAGTGGGACACTG | 225-245 | FAM | [32] |
| **UM011** | II | forward reverse | TGAAAGTAGAAAGGGATGTGG  TCTCAGAGCAGAAGTCCCTG | 158-173 | NED | AF195130 |
| **UMN-JH38** | I | forward reverse | TGTGTGTGCACCTGTCCTTT  GATGGGAGGGAATGAGGAAT | 149-157 | FAM | EF531700.1 |
| **UMNe65** | III | forward reverse | TCCTTCCACTCCCCTCAAC TCCCTGAAAAACCTTGGTTG | 115-143 | FAM | AF191698.1 |