

Table S2 Primers for PBR exon genotyping of *Nini*-MHC genes and amplification of full-length $\text{II}\beta$ sequences in haplotype analysis

| | Locus | Location | Primer name | Primer sequence (5'→3') | Size (bp) | T_a (°C) |
|-------------------------|--|----------|-------------|-------------------------|-----------|------------|
| MHC class II genotyping | <i>DAB</i> | intron 1 | IIB1e2-F | CCGGGGTGCTGAGAGCA | 359 | 63 |
| | | | | GC | | |
| | | intron 2 | IIB1e2-R | GAAATGTTCTGCCACGCA | | |
| | | | | CTCAC | | |
| | <i>DBBs</i> (<i>DBB1/DBB2/DBB3</i>) | intron 1 | IIB2e2-F | TGACCTTCCCGTGTCTGCA | 319 | 57 |
| | | | | CGAG | | |
| | | intron 2 | IIB2e2-R | GAAATGTTCTGCCACGCA | | |
| | | | | CTCAC | | |
| | <i>DAA</i> | intron 1 | IIA1e2-F | GGGCGGTGGGAAGGGCA | 325 | 64 |
| | | | | CTGAC | | |
| MHC class I genotyping | | intron 2 | IIA1e2-R | CCGTGCCGTGGCCGGGTT | | |
| | | | | GTTA | | |
| | <i>DBAs</i> (<i>DBA1/DBA2/DBA3</i>) | intron 1 | IIA2e2-F | CCTGGAGGGCGATGAGA | 353 | 60 |
| | | | | A | | |
| | | intron 2 | IIA2e2-R | CGTGGCCGGGTTGTTAC | | |
| | | | | | | |
| | <i>UAA/UBA/UCA1/UCB1/UDA</i> | intron 1 | Ie2-CF | TGCCCCCACCTCTGACC | 313 | 61 |
| | | | | GCCCCACTCACCCCTGC | | |
| | | intron 2 | Ie2-CR | TCT | | |
| | | | | | | |
| MHC class I genotyping | <i>UBA</i> | intron 2 | Ie3-CF | TGGTCGCGTTCAGGGGC | 345 | 67 |
| | | | | TCAC | | |
| | | intron 3 | Ie3-CR | GGCCGGCACACGCACCC | | |
| | | | | ACAG | | |
| | | exon 3 | UBAe3-F | CTACGACGGGAGGGACTT | 141 | 61 |
| | | | | CATGGCT | | |
| | | exon 3 | UBAe3-R | GTGCTCTGCAGGTAATGC | | |
| | | | | TTCCAGT | | |
| | <i>UCA1/UCA2</i> | exon 3 | UCAe3-F | ACGCTGCAGCGCGTGTAT | 195 | 60 |
| | | | | | | |

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|---|------------------------|---------------|---------|------------------------------|------|----|
| PCR of full-length $\text{II}\beta$ sequences | $\text{II}\beta$ genes | exon 3 | UCAe3-R | ATGCTTCTTCCGCTCAGCT T | | |
| | | intron 1 | UCAi1-F | TGCCCCCACCTCTGACC | | |
| | | exon 2 | UCAi1-R | AGCTGGTGATGGCTCTGA AAGT | 251 | 60 |
| | | exon 1 | 3UT-F* | GTGCTGGGAGCCGACGTG GCTC | | |
| | | 3'UTR (type1) | 3UT1-R | GACAGTGTGTCCCCAGGG CTCTGC | 1986 | 68 |
| | | 3'UTR (type2) | 3UT2-R | CGCGGCGGGGTGGCAGG GATCTCG | 1668 | 68 |
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T_a , annealing temperature for each primer pair. *a common forward primer was used to pair with two different reverse primers