**Supplementary Table S3: Primers used for genotyping and RT-PCR analysis**

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| **Primer name** | **Sequence (5’🡪3’)** | **Detail** |
| **Genotyping of the *Rbm5MU* mouse line** |
| Rbm5-WT | GAAGGTGACCAAGTTCATGCTGTGTCTGTTTGTCTTTTATGAGGC | C (WT, wild-type) and G (MU, mutation) are underlined. |
| Rbm5-MU | GAAGGTCGGAGTCAACGGATTTTGTGTCTGTTTGTCTTTTATGAGGG |
| Rbm5-Rev | CCCTATCTCCCTATGCTTCCTT |
| **Genotyping of the *Rbm5*gene-trap mouse line** |
| Ex1-Rbm5-Fw | CTCCTGCTTTGTTCCCTCTG | Ex1-Rbm5-Fw + Int1-Rbm5-Rev primers amplify the WT allele (799 bp).Ex1-Rbm5-Fw + Neo-IN21- amplify the gene-trap allele (983 bp). |
| Int1-Rbm5-Rev | CCAAACCTTGACTCGGCTTA |
| Neo-IN21-Fw | CAAGGACCTGAAATGACCCTGTG |
| **Detection of splicing defects** |
| St5-Ex2-Fw | ATGACCATGACTGCCAACAA | Amplify *St5* cDNA (ENSMUST00000077909) from exons 2 – 5 |
| St5-Ex5-Rev | TCCAGCTCTCCGGTTCTTTA |
| Asb1-Ex1-Fw  | TGACAGCGTTGCTCTCTGAC | Amplify *Asb1* cDNA (ENSMUST00000027538) from exons 1 – 5 |
| Asb1-Ex5-Rev  | CAGATGCAGTCGGTATTTGC |
| Pla2g10-Ex1-Fw | CCTCTGTGACGGGCAATAAT | Amplify *Pla2g10* cDNA (ENSMUST00000023364) from exons 1 – 4 |
| Pla2g10-Ex4-Rev | TTGGCATTTGTTCTCTGCTG |
| Kif17-Ex10-Fw | AACCTGAGAGTGGCTGAGGA | Amplify *Kif17* cDNA (ENSMUST00000030539) from exons 10 – 15 |
| Kif17-Ex15-Rev | TTGGAGAAGGGGATGTCAAG |
| Anks3-Ex2Fw | GAGCCGGAGCTCCTGAAG | Amplify *Anks3* cDNA (ENSMUSG00000022515) from exons 2 – 17 |
| Anks3-Ex17Rev | CACCCCAGACCTTGTCTGTAA |
| Rangap1-Ex3Fw | ATGGCCTCTGAAGACATTGC | Amplify *Rangap1* cDNA ENSMUSG00000022391 from exons 3 – 17 |
| Rangap1-Ex17Rev | GGGCAAAGGAGCAGGTTT |
| Nxf1-Ex1Fw | CCCCTGTACCTGCCTGTG | Amplify *Nxf1* cDNA (ENSMUST00000010241) from exons 1 – 7 |
| Nxf1-Ex7Rev | TGAGGTCAAGTGCTTGTTGG |
| Cftr-Ex17Fw | GTGGGAGTGGCTGACACTTT | Amplify *Cftr* cDNA (ENSMUST00000045706) from exons 17 – 27 |
| Cftr-Ex27Rev | GCCTGAAGGGAGTCGTACTG |