**Table S2. Primer sequences used to determine the splicing pattern of *Dync1i1* and *Dync1i2*.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Application** | **Mouse gene** | **Primer name** | **Primer sequence (5’ to 3’)** |
|  PCR | *Dync1i1* |  DIC1\_Ex 1 forDIC1\_Ex 17 revDIC1\_1.1 forDIC1\_AS4 revDIC1\_5 revDIC1\_iso14 revDIC1\_R rev |  CTCCACGACCTCCAGTGGAGACGCACATGCTCTAAGATCGCTCTAGTGCAGCCGTTGCATGGGAGTGCTCACTGATTTCGAAGTTCTGAGTCTGACTGCAGGCAGTCGTCTCCTTGTTAATGGCTAGGCAGGAAATCCACCTG |
| *Dync1i2* |  DIC2\_Ex1a forDIC2\_Ex1b forDIC2\_Ex18 revDIC2\_N4 revDIC2\_6 revDIC2\_iso24 revDIC2\_2.1 revDIC2\_R rev |  GGCCGGTGTATCTGTTTCAACCAGTTGGAGAGGGACGTTCAGAAGGGAAATGGCATCAACGAGGGACCCAGTACTCAGAAATCGGAATCTGAGTGAAGCCAAGTTTAATAGGTCCTCGTCTAAACTTGATTGAAGCTAGAATCCTCCTCGAGGGGGAAAGTCAA C |
| *Gapdh* |  Gapdh forGapdh rev  |  ACTCCACTCACGGCAAATTC    ATGTAGGCCATGAGGTCCAC    |
|  Sequencing |   *Dync1i1* |  DIC1\_Ex 1 forDIC1\_Ex 3 revDIC1\_Ex 9 forDIC1\_Ex 10 revDIC1\_Ex 16 for |  CTCCACGACCTCCAGTGGAGCTCCGGTGATATGCCAATGCTGAACATTGGTCTAAGCATCGGTGGAAGACATATTCTGGTGTGGAGGAGCATCTGCCCTAAAC |
| *Dync1i2* |  DIC2\_Ex1a forDIC2\_Ex1b forDIC2\_Ex9 forDIC2\_Ex14 for  |  GGCCGGTGTATCTGTTTCAACCAGTTGGAGAGGGACGTTC CGAGAATTGTAGAAAGAGCC    GTTGTGGGCAGTGAAGAAG       |

‘Ex’ refers to the number of the exon containing the primer binding site e.g. Ex 1 is exon 1.