**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 for  DIC1\_Ex 17 rev  DIC1\_1.1 for  DIC1\_AS4 rev  DIC1\_5 rev  DIC1\_iso14 rev  DIC1\_R rev | CTCCACGACCTCCAGTGGAG  ACGCACATGCTCTAAGATCG  CTCTAGTGCAGCCGTTGCAT  GGGAGTGCTCACTGATTTCG  AAGTTCTGAGTCTGACTGCAG  GCAGTCGTCTCCTTGTTAATGG  CTAGGCAGGAAATCCACCTG |
| *Dync1i2* | DIC2\_Ex1a for  DIC2\_Ex1b for  DIC2\_Ex18 rev  DIC2\_N4 rev  DIC2\_6 rev  DIC2\_iso24 rev  DIC2\_2.1 rev  DIC2\_R rev | GGCCGGTGTATCTGTTTCAAC  CAGTTGGAGAGGGACGTTC  AGAAGGGAAATGGCATCAAC  GAGGGACCCAGTACTCAG  AAATCGGAATCTGAGTGAAGC  CAAGTTTAATAGGTCCTCGTCTA  AACTTGATTGAAGCTAGAATCCTC  CTCGAGGGGGAAAGTCAA C |
| *Gapdh* | Gapdh for  Gapdh rev | ACTCCACTCACGGCAAATTC  ATGTAGGCCATGAGGTCCAC |
| Sequencing | *Dync1i1* | DIC1\_Ex 1 for  DIC1\_Ex 3 rev  DIC1\_Ex 9 for  DIC1\_Ex 10 rev  DIC1\_Ex 16 for | CTCCACGACCTCCAGTGGAG  CTCCGGTGATATGCCAATGC  TGAACATTGGTCTAAGCATCGG  TGGAAGACATATTCTGGTGTGG  AGGAGCATCTGCCCTAAAC |
| *Dync1i2* | DIC2\_Ex1a for  DIC2\_Ex1b for  DIC2\_Ex9 for  DIC2\_Ex14 for | GGCCGGTGTATCTGTTTCAAC  CAGTTGGAGAGGGACGTTC  CGAGAATTGTAGAAAGAGCC  GTTGTGGGCAGTGAAGAAG |

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