**Table 1.** Primers used in this study

|  |  |
| --- | --- |
| Primers name | Sequences (5’ to 3’) |
| **For mNG tagged IFT expressing constructs** |
| N11-linker-F-BamH1 | agtggatcccccgggctgcagattcgatatcaagcttatcgataccgtcgacctcgagGGTGGAGGCAGCGCATCCGGCGGAAGCGGAAGCatggtgagcaagggcgagga |
| mNG-R-ER1 | CCAATGAATTCTTACTTGTACAGCTCGTCCATGCCC |
| IFT20-F-Not1 | ATAAGAATGCGGCCGCCGGGGGATGAACTCGGATTCTGCCC |
| IFT20-R-Sal1 | AGTCGTCGACTTGACCTCCGAAGAGTTCTATAATTGC |
| IFT46-F-Not1 | ATAAGAATGCGGCCGCGCGACAACAACTGCTATGGAGAA |
| IFT46-R-Sal1 | AGTCGTCGACTAGGATACCGTGCTGTGCTAACTTCAA |
| IFT52-F-BamH1 | TGACGGATCCGCGAGGCCCTGGCCCACACCGAGGCT |
| IFT52-R-Hind3 | GCATAAAGCTTCTTGCCGGCCATGCCCTTCTTGAAGTTG |
| IFT81-F-Not1 | ATAAGAATGCGGCCGCATAGAAGAAGTGGTGGTGAACGAGAA |
| IFT81-R-Cla1 | GTTACATCGATGTTGGTTATTCTAATTTTGTCCATACG |
| IFT88-F-Not1 | TACGAGCGGCCGCGGACCTCTGCATGTGGGTATGATGC |
| IFT88-R-Sal1 | TACGGTCGACGTTTTCTGTGAGAAGCTCTTCGGCG |
| IFT121-F-Not1 | ATAAGAATGCGGCCGCCCTCTGCAATCTTTCTTCCTGTGAGC |
| IFT121-R-Sal1 | AGTCGTCGACCTGATAAGGTTCATGGCATAAAGGGCA |
| IFT140-F-Not1 | TACGAGCGGCCGC GTTGAGGTAGGCTTATGCTTGACGATT |
| IFT140-R-Sal1 | TACTGTCGACGTGATCGCTCTTTTCGGCTGTTAGG |
| Kin2b-F-Not1 | ATAAGAATGCGGCCGCACATGGCGCTCATCTACGGGCTCGC |
| Kin2b-R-Cla1 | GTTACATCGATACCGAAACCAGCCATGCCACGGTGTG |
| Kin13-F-Not1 | ATAAGAATGCGGCCGCACTAAGAGTCCTTGTAAAGGAATTGG |
| Kin13-R-Cla1 | GTTACATCGATACCGAAACCAGCCATGCCACGGTGTG |
| **For confirming of incorporation genes**  |
| IFT20-int-F | CAGACCAGCAGACTCTGGCTGC |
| IFT46-int-F | TGTGATCTTCGGTTTGGTTGC |
| IFT52-int-F | TGGCGCAGGCGAAGCGGGTGC |
| IFT81-int-F | TCTATCTTGTGATCACTATCTTC |
| IFT88-int-F | GTGCATGCGTTATAAGTTATT |
| Kin2b-int-F | CGATTGATACTGATGAACACCCTT |
| Kin13-C-F | GCCGGAATTCGCCCCCCGTCGACCTCTTCCTCAA |
| NEO-N-R | GGAACACGGCGGCATCAGAGCAGCCGA |
| **For *ift88* knockdown guide RNA**  |
| Control-gRNA-F | caaaCCTCCTTACCTCAGTTAT |
| Control-gRNA-R | aaacATAACTGAGGTAAGGAGG |
| IFT88-gRNA33-F | caaaTGCCGGCAAACGTCATGGTC |
| IFT88-gRNA33-R | aaacGACCATGACGTTTGCCGGCA |
| IFT88-gRNA258-F | caaaTGCTTTGGGCAGAATTCGTG |
| IFT88-gRNA258-R | aaacCACGAATTCTGCCCAAAGCA |
| IFT88-gRNA455-F | caaaGCGCAACTCTCGCCCAGATA |
| IFT88-gRNA455-R | aaacTATCTGGGCGAGAGTTGCGC |
| **For *kinesin-2b* knockdown guide RNA**  |
| Kin2b-gRNA21-F | caaaAGGCTCCTCCGACAACGTCA |
| Kin2b-gRNA21-R | aaacTGACGTTGTCGGAGGAGCCT |
| Kin2b-gRNA141-F | caaaCAAGCCTGTGGAAAAGGGCG |
| Kin2b-gRNA141-R | aaacCGCCCTTTTCCACAGGCTTG |
| Kin2b-gRNA271-F | caaaATGATAGACGGATGTCTTGA |
| Kin2b-gRNA271-R | aaacTCAAGACATCCGTCTATCAT |
| **For confirming of mRNA expression** |
| actin-RT-F  | GTCCGTCATACCATCTGTTC |
| actin-RT-R | GTTTCCTCCATACCACACG |
| IFT88-RT-F | GAGAAGGAACTCAGTGGCT |
| IFT88-RT-R | TCAGTTTTCTGTGAGAAGCTCTT |
| RT-Kin2b-F | GAACTTCATAATGTAGAGG |
| RT-Kin2b-R | ACCGAAACCAGCCATGCCACGG |

Restriction enzyme sites are underlined.