### Supplementary Table 1. Oligo DNA for pX335 construction

| Primer                  | Sequences                                      |
|-------------------------|------------------------------------------------|
| Cables2 Left Nick F     | CACCCAGGCACTGGGGCCTTAGAGCG                    |
| Cables2 Left Nick R     | AAACCGTGCTAAGGCCAGTGCCTG                     |
| Cables2 Right Nick F    | CACCCAGGAGCGTCCTCGAGAATCG                   |
| Cables2 Right Nick R    | AAACTGACCTCGAGACGCTCCCTG                    |

### Supplementary Table 2. Primers for genotyping, RT-PCR and RT-qPCR

| Primer                  | Experiment | Sequences                                      |
|-------------------------|------------|------------------------------------------------|
| Cables2-tdT F           | Genotyping | CAACCACTGAGGATCGTTTCCCTCACTGCAGAAGC            |
| Cables2-tdT R           | Genotyping | GGTCAGCTTGCAGTCCTCCCTCACTGCAGAAGC              |
| PGKS2 Fw                | Genotyping | GGGGCTGCTAAGGCAGCTGCCAGCAGGTGCCTCCAG          |
| Cables2 screening 3Rv   | Genotyping | TGGAAAACACAAAGCAGTCAAACGGTCTCCCTCC            |
| Cables2 screening 5Fw   | Genotyping | TTGTGTGTAGACCCACAGAAACAATAGTC                 |
| Cables2 screening 5Rv   | Genotyping | TTCCACGATGATGTACAGTCACTCCCTCTGTGG             |
| Cables2 exon 6 Fw       | RT-PCR     | CACCCAGGCACTGGGGCCTTAGAGCG                    |
| Cables2 exon 9-10 Rv    | RT-PCR     | ACCCTTTCCTCCAGCTTGTC                          |
| tdTomato Rv             | RT-PCR     | GAGGTGATGTGCAGTCCAGCTG                       |
| Cables2 exon3 qPCR Fw   | RT-qPCR    | AGCATGCATCGATCCAGACCA                        |
| Cables2 exon4 qPCR Rv   | RT-qPCR    | CCGCTTGCGACAGGAGGTG                          |
| Gapdh qPCR Fw           | RT-qPCR    | TGTGTCCTGGTGATCGTCA                          |
| Gapdh qPCR Rv           | RT-qPCR    | TTGCTTGTAAGTGATCGACAG                      |