**Table S1. List of primers used in this study**

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|  | **Oligos Name** | **Sens** | **Sequence 5’-3’** |
| Genotyping | *FAM172ATp*  | FR | 5’-GGGAGTAAGTCCTACCAATGTTAAATC5’-TGACCTTCTAAACAGTCCCATATCCCC |
| *Wild type* | FR | 5’-GAAGTGGGAACAAAACACCCTTGG5’-GTAAGGCTCGCACTGACATAGC |
| mutagenesis | Gibson for FAM172A in backbone pCDNA3.1 | N-term-FC-term-R | 5’-CTCGGCATGGACGAGCTGTACAAGGAATTCATGAAAAAGGACGAACCACCTTTT5’-CACTATAGAATAGGGCCCTCTAGACTCACAGCTCCTCGTGC |
| Gibson for FAM172A in backbone pIRES2-GFP | N-term-FC-term-R | 5’-TTTCTGAAGAAGATCTGAGATCTCTCGAGATGAAAAAGGACGAACCACCTTTT5’-GGATCCCGCGGGTCGACCTGGAGGTCACAGCTCCTCGTGC |
| FAM172A [mNLS] | N-term-RmNLS-FmNLS-RC-term-F | 5’-CCTTTCCTGTTGCCCTGCTGGCTCATCTG5’-CAACAGGAAAGGAGAGATAAGGTCTCCAAGGAAACAAAGAAGCAACAGGATTTCATGAGAAG5’-ATCCTGTTGCTTCTTTGTTTCCTTGGAGACCTTATCTCTCCTTTCCTGTTGCCCTGTGGCTC5’-AAGCAACAGGATTTCTATGAGAAGTACCGCAACCC |
| FAM172A[P-] | N-term-RP [-] -FP [-] -RC-term-F | 5’-ATGCATTTTCTGCTTTTCCACTTCTATATAGTTTTCATTTGGGTT5’-GAAGTGGAAAAGCAGAAAATGCATAAACAGTCATCATCTTCTCAAGGTACACAGGAGCCAGCAGGGAAG5’-TTCCCGCTTCCCTGCTGGCTCCTGTGTACCTTGAGAAGATGATGACTGTTTATGCATTTTCTGCTTTTCCACTTC5’-GATGAGCCAGCAGGGAAGCGGGAAAGGAGAGATAAG |
| FAM172A[P+] | N-term-RP [+] -FP [+] -RC-term-F | 5’-ATGCATTTTCTGCTTTTCCACTTCTATATAGTTTTCATTTGGGTT5’-GAAGTGGAAAAGCAGAAAATGCATAAACAGGACGATGATGACGATGGTGACGATGAGCCAGCAGGGAAG5’-TTCCCGCTTCCCTGCTGGCTCATCGTCACCATCGTCATCATCGTCCTGTTTATGCATTTTCTGCTTTTCCACTTC5’-GATGAGCCAGCAGGGAAGCGGGAAAGGAGAGATAAG |
| FLAGAGO1[WT] | 3xFLAG-F3xFLAG-RAgo1-FAgo1-R | 5’-TACGACTCACTATAGGGAGACCCAATGGACTACAAAGACCATGACG5’-GGGTCCCGCTTCCTTGTCATCGTCATCCTTGTAATC5’-GACGATGACAAGGAAGCGGGACCCTCG5’-GGTGACACTATAGAATAGGGCCCTTCAAGCGAAGTACATGGTGC |
| FLAGAGO2[WT] | 3xFLAG-F3xFLAG-RAgo2-FAgo2-R | 5’-TACGACTCACTATAGGGAGACCCAATGGACTACAAAGACCATGACG5’-CTGGAATGGGTGCTTGTCATCGTCATCCTTGTAATC5’-GACGATGACAAGCACCCATTCCAGTGGTGTAAC5’-CTTTTTTGGATCAGCAAAGTACATGGTGCGC |
| FLAGAGO2[+NLS] | +NLS-F+NLS-R | 5’-ATGTACTTTGCTGGTGGTGATCCAAAAAAGAAGAGAAAGGTAGATCCAAAAAAGAAGAGAAAGGTAGATCCAAAAAAGAAGAGAAAGGTATGAAGGGCCCTATTCTATAGTGTCACC5’-GGTGACACTATAGAATAGGGCCCTTCATACCTTTCTCTTCTTTTTTGGATCTACCTTTCTCTTCTTTTTTGGATCTACCTTTCTCTTCTTTTTTGGATCACCACCAGCAAAGTACAT |
| qPCR | *Cd44*\_vE8-9  | FR | 5’-TACCCCAGTTTTTCTGGATCAGG5’-GCCATCCTGGTGGTTGTCTG |
| *Cd44*\_vE13-14 | FR | 5’-TGGAAGACTTGAACAGGACAGG5’-GTTTTCGTCTTCTTCCGGCTC |
| *Cd44*\_cE4-5 | FR | 5’-ACAGACCTACCCAATTCCTTCG5’-GGGTGCTCTTCTCGATGGTG |