**Supplementary File 1: Sequences of oligos used in this study.**

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| Oligo name | Oligo sequence 5’-3’ |
| *Invs flox\_F* | AGGTTAGCAGCTGGGCAGGAT |
| *Invs flox\_R* | TGAGGTAGA CAGTAGCATTCCTGC |
| *Ift88 flox\_F* | GACCACCTTTTTAGCCTCCTG |
| *Ift88 flox\_R* | AGGGAAGGGACTTAGGAATGA |
| *Cdh16-Cre* carrier\_F | CAAATGTTGCTTGTCTGGTG |
| *Cdh16-Cre* carrier\_R | GTCAGTCGAGTGCACAGTTT |
| *Cdh16-Cre*non-carrier\_F | AGGCAAATTTTGGTGTACGG |
| *Cdh16-Cre* non-carrier\_R | GCAGATCTGGCTCTCCAAAG |
| *Pkhd1-Cre*\_F | CTGGTTGTCATTGGCCAGG |
| *Pkhd1-Cre*\_R | GCATCGACCGGTAATGCAGGC |
| *Foxd1-Cre* Common | TCTGGTCCAAGAATCCGAAG |
| *Foxd1-Cre* wildtype Forward  | CTCCTCCGTGTCCTCGTC |
| *Foxd1-Cre* mutant Forward | GGGAGGATTGGGAAGACAAT |
| *Sma* QPCR\_F | CGTCCCAGACATCAGGGAGTA |
| *Sma* QPCR\_R | ATAGCCACATACATGGCGGG |
| *Vimentin* QPCR\_F | ACCCTGCAGTCATTCAGACA |
| *Vimentin* QPCR\_R | CAGAGAGGTCAGCAAACTTGGAC |