**Supplementary Table 1. Single guide RNA target site sequences**

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| **Target gene** | **Sequence, 5´ to 3´** |
| mouse sg*Arid1a* F | CACCGAGAGCGAGGGCCCCGCCGT |
| mouse sg*Arid1a* R | AAACACGGCGGGGCCCTCGCTCTC |
| mouse sg*Pten* F | CACCGAGATCGTTAGCAGAAACAAA |
| mouse sg*Pten* R | AAACTTTGTTTCTGCTAACGATCTC |
| mouse sg*P53* F | CACCGCCTCGAGCTCCCTCTGAGCC |
| mouse sg*P53* R | AAACGGCTCAGAGGGAGCTCGAGGC |
| human sg*ARID1A*-1 F | CACCGAAAGCGAGGGCCCCGCCGT |
| human sg*ARID1A*-1 R | AAACACGGCGGGGCCCTCGCTTTC |
| human sg*ARID1A*-2 F | CACCGGCCGAGCGCGGGGAAATGA |
| human sg*ARID1A*-2 R | AAACTCATTTCCCCGCGCTCGGCC |

F, forward primer; R, reverse primer.