**S4 Table**

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| **Primer** | **Sequence 5’ to 3’** | **Animal** | **Application** |
| *Cre* For | GGTGTCCAATTTACTGACCGTACA | Mouse | Genotyping |
| *Cre* Rev | CGGATCCGCCGCATAACCAGTG | Mouse | Genotyping |
| *PIKfyveFlox*For | GAGAAAGGGGACAGTGTTTGGC | Mouse | Genotyping |
| *PIKfyveFlox* Rev | CCAGATCTTGCACTGTAACCACAAACCAC | Mouse | Genotyping |
| *ROSAmTmG* For | CTCTGCTGCCTCCTGGCTTCT | Mouse | Genotyping |
| *ROSA WT* Rev | CGAGGCGGATCACAAGCAATA | Mouse  | Genotyping |
| *ROSA­mTmG* Rev | TCAATGGGCGGGGGTCGTT | Mouse  | Genotyping |