**Supplementary File 1**

**Primers Used for Genotyping**

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| **Strain** | **Directions** | **Sequence (5’ to 3’)** |
| *Kdr*-Cre mouse | Forward  | CGGTTATTCAACTTGCACCAC |
| Reverse | CAGGACTGAAAGCCCAGACT |
| *Bcas2*Flox/Flox mouse | Forward  | ATTCCAGCAGTTGGTGTGGG |
| Reverse | CATTGCTGGACAGAAGGTGAG |
| *Kdr*-Cre;*Bcas2*Flox/Flox mouse | Forward  | AGGTGTATGAATGCCTGAACAAG |
| Reverse | CATTGCTGGACAGAAGGTGAG |
| *bcas2* knockout zebrafish | Forward  | TGCACATACAGTAATAGGCTTACCC |
| Reverse | GTCTGATTTGCATCAAAAGATGTGA |