

**Table S1. CRISPR-Cas9n genome editing sgRNA and repair template sequences and primers used for in vitro transcription.** Guide RNA sequences shown in bold were used in CRISPR-Cas9 genome editing to generate the *Zfp469*<sup>BCS</sup> line.

| Name                   | Sequence 5' - 3'  |
|------------------------|---|
| gRNA1                  | TTGAAGGCATCCTCAGCCCCTGG   |
| gRNA2                  | CTCCACAAGAGCCCCTCACTGG  |
| <b>gRNA1</b>           | <b>TTGAAGGCATCCTCAGCCCCTGG</b>  |
| <b>gRNA3</b>           | <b>TCCCACAAGAGCCCCTCACTGGG</b>  |
| gRNA4                  | AGGGAAGGCTTTGGCTGTCTCGG   |
| gRNA5                  | TGAGGATGCCTTCAAGAGCCAGG   |
| Repair template        | CCACACGCTATCAATCCGAGACAGCCAAAGCCTTCCCTCTCCCCACAGAGGGACCA<br>GGCAAACCGATTCCGAACCCGCTGCTGGGCCTGGATAGCACCGGCAAACCGATTCC<br>GAACCCGCTGCTGGGCCTGGATAGCACCTGAGtGCAGAGACGGGTTGAAGGGCTT<br>TCCTCCAGAGCCACCACCTCCACCGCCACC |
| mZNF469g1 T7<br>primer | TGTAATACGACTCACTATAGGtgaaggcatcctcagcccc  |
| mZNF469g3 T7<br>primer | TGTAATACGACTCACTATAGGtcccacaagagcccctcact   |
| Universal reverse      | AAAAGCACCGACTCGGTGCC  |