## Supplementary information, Figure S5

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Α
                     Crygc -/- -SSCs repaired with Oligo-1
    WT Crygc AGTACCGGCGCTTCCAGGACTGGGGCTCTGTAGATGCTAAGGCGG
           AGTACCGGCCTTCCAGGACTGGGGCTCTGTAGATGCTAAGGCGG
  Mutant Crygc
            AGTACCGGCCTTCC-GGACTGGGGCTCTGTAGATGCTAAGGCGG
                                                                -1 (×1)
            AGTACCGGCCTTC--GGACTGGGGCTCTGTAGATGCTAAGGCGG
                                                                -2 (×1)
      Biallelic
            AGTACCGGCCTTC----CTGGGGCTCTGTAGATGCTAAGGCGG
     mutation | AGTACCGGCCTTCC-----GCTCTGTAGATGCTAAGGCGG
            AGTACCGGCCTTCCa AGGACTGGGGCTCTGTAGATGCTAAGGCGG +1 (×2)
            AGTACCGGCGCTTCCAGGACTGGGGCTCTGTAGATGCTAAGGCGG HDR (×2)
В
                     Crygc -/- -SSCs repaired with Oligo-2
    WT Crygc GAGGCCTCAAGAGTACCGGCGCTTCCAGGACTGGGGCTCTGTAGA
  Mutant Crygc
            GAGGCCTCAAGAGTACCGGCCTTCCAGGACTGGGGCTCTGTAGA
            GAGGCCTCAAGAGTACCGGCCTT---GGACTGGGGCTCTGTAGA
                                                                -3 (×1)
     Biallelic
            GAGGCCTCAAGAGTACCGGCCTT----ACTGGGGCTCTGTAGA
                                                                 -5 (×1)
                                                                HDR (×1)
            GAGACCACAAGAGTACCGGCGCTTCCAGGACTGGGGCTCTGTAGA
C
                Crygc -/- -SSCs from single cells repaired with Oligo-1
      WT Crygc AGTACCGGCGCTTCCAGGACTGGGGCTCTGTAGATGCTAAGGCGG
     Mutant Crygc AGTACCGGCCTTCCAGGACTGGGGCTCTGTAGATGCTAAGGCGG
   Biallelic mutation AGTACCGGCCTTCCa AGGACTGGGGCTCTGTAGATGCTAAGGCGG +1 (×2)
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**Figure S5** The sequences of the *Crygc* gene in SSC lines generated from single SSC colonies derived from electroporation of exogenous Olig-1 (**A**), Olig-2 (**B**) into  $Crygc^{-/-}$ -SSCs or single SSCs derived from electroporation of Oligo-1 (**C**) into  $Crygc^{-/-}$ -4W-SSCs. Deletions are indicated with (-), insertions are indicated with (+). Small letter represents the inserted nucleotide. Letters highlighted with red underlines present synonymous mutations.