

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Insertion and deletion analysis of Sanger sequencing of clones following Cas9 targeting of *Polq*

File Name: Supplementary Data 2

Description: Rearrangement junctions in *Brcal^{CC/CC}, Polq^{+/+}* (sgGFP) cells

File Name: Supplementary Data 3

Description: Rearrangement junctions in *Brcal^{CC/CC}, Polq^{-/-}* cells