



Figure S1 Schematic diagram of PCR characterization of the excision site on *MenEx1* alleles. Forward and reverse arrowheads represent forward and reverse primers, respectively, and are organized into pairs. Black blocks represent amplicons for their corresponding primer pairs. Primer pairs were designed to amplify partially overlapping ~1kb regions to ensure full amplification coverage. (A) A wild-type control showing amplification across the genomic region. (B) Hypothetical excision in which amplification within the excision site does not produce an amplicon through PCR amplification. Primers that flank the excision site (circled in red) were used to amplify around the excision and the product was sequenced.