



Supplemental Digital Content 5 - Figure 1: *KLK10* mRNA folding and 3' UTR sequence variants predicted by MFOLD. *KLK10* mRNA sequences carrying various 3'UTR SNPs were used for secondary folding structure model building by MFOLD. **A.** The complete mRNA folding structure of *KLK10* variant (AY561635) without any SNPs present. **B.** Enlargement of the bottom arm identified to have been affected by SNPs in the 3'UTR. **C.** MFOLD modelled effect of rs9524 on the folding of the variant (AY561635) showing only the bottom arm of the structure where the change in folding has occurred. This SNP has caused a large alteration in structure with the complete bottom half of the arm different. **D.** MFOLD predicted effect to the bottom arm due to the combination of rs9524 and ENSSNP1544478 SNPs as indicated by the arrow. **E.** MFOLD predicted effect to the bottom arm due to the combination of rs9524 and rs1698 is indicated by the arrow. **F.** MFOLD predicted effect to the bottom arm due to the combination of rs9524, rs1698 and ENSSNP1544478 is indicated by the arrow.

