

Read1	GGCCACCCCTGTG-CCCCACAGGGGACTCCGA
Read2	GGCCACCCCTGTG-CCCCACAGGGGACTCCGA
Read3	GGCCACCCCTGTG-CCCCACAGGGGACTCCGA
Read4	GGCCACCCCTGTG-CCCCACAGGGGACTCCGA
Read5	GGCCACCCCTGTG-CCCCACAGGGGACTCCGA
Read6	GGCCACCCCTGTG-CCCCACAGGGGACTCCGA
ReferenceRepeatingUnit	GGCCACCCCTGTGCCCCACAGGGGACTCCGA *****

Figure S10: **Frameshift in *CEL* gene.** Multiple alignment of sequenced reads and reference repeating unit shows a deletion in diabetes patient genome. Due to low PCR amplification in GC rich VNTR region (84.8%), the coverage of VNTR region is 14× and 6 reads support the deletion.