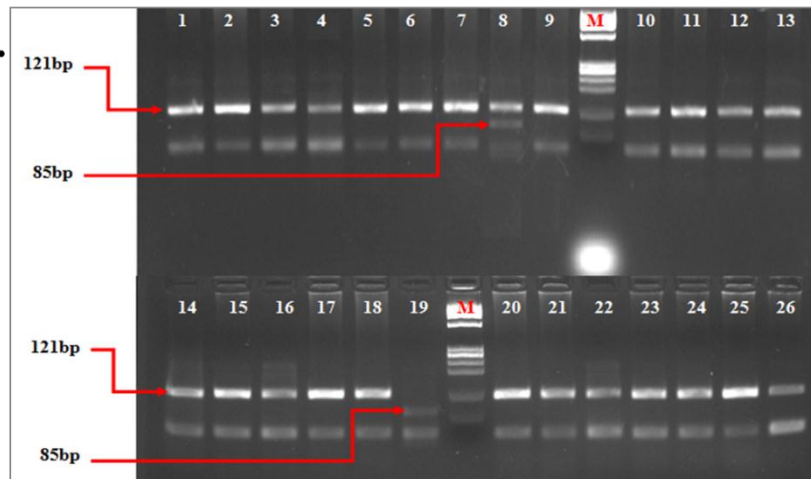


a.

rat	KGLEIGVLVNNVGM LPNLLPSHFLSTSGESQ---SVIHCNITSVVKMTQLVLKHMESRRR	173
mouse	EGLENGILVNNVGM LPSPFFPSHFLSSSGESQ---NLIHCNITSVVKMTQLVLKHMESRRK	173
human	AGLEIGILVNNVGM LPNLLPSHFLNAPDEIQ---SLIHCNITSVVKMTQLILKHMESRQK	177
zebrafish	EGLDIGVLVNNVGILPSQIPCKLLETSDLEERIYDIVNCNVKSMVKMCRIVLPGMQQRRR	179
	NNAG NhxG	

b.



**Supple. figure (2):** p.M164T mutation: (a.) multiple sequence alignment of amino acids sequence of 17 $\beta$ HSD-3 protein, the red arrow indicating the mutant amino acid position. (b.) RFLP analysis on 3% agarose gel of exon 7 of HSD17B3 gene digested with AccI restriction enzyme. Lane 8 showing the heterozygous pattern of the mother, Lane 19 showing the homozygous mutant pattern of the patient, all lanes other than that showing the wild type pattern.