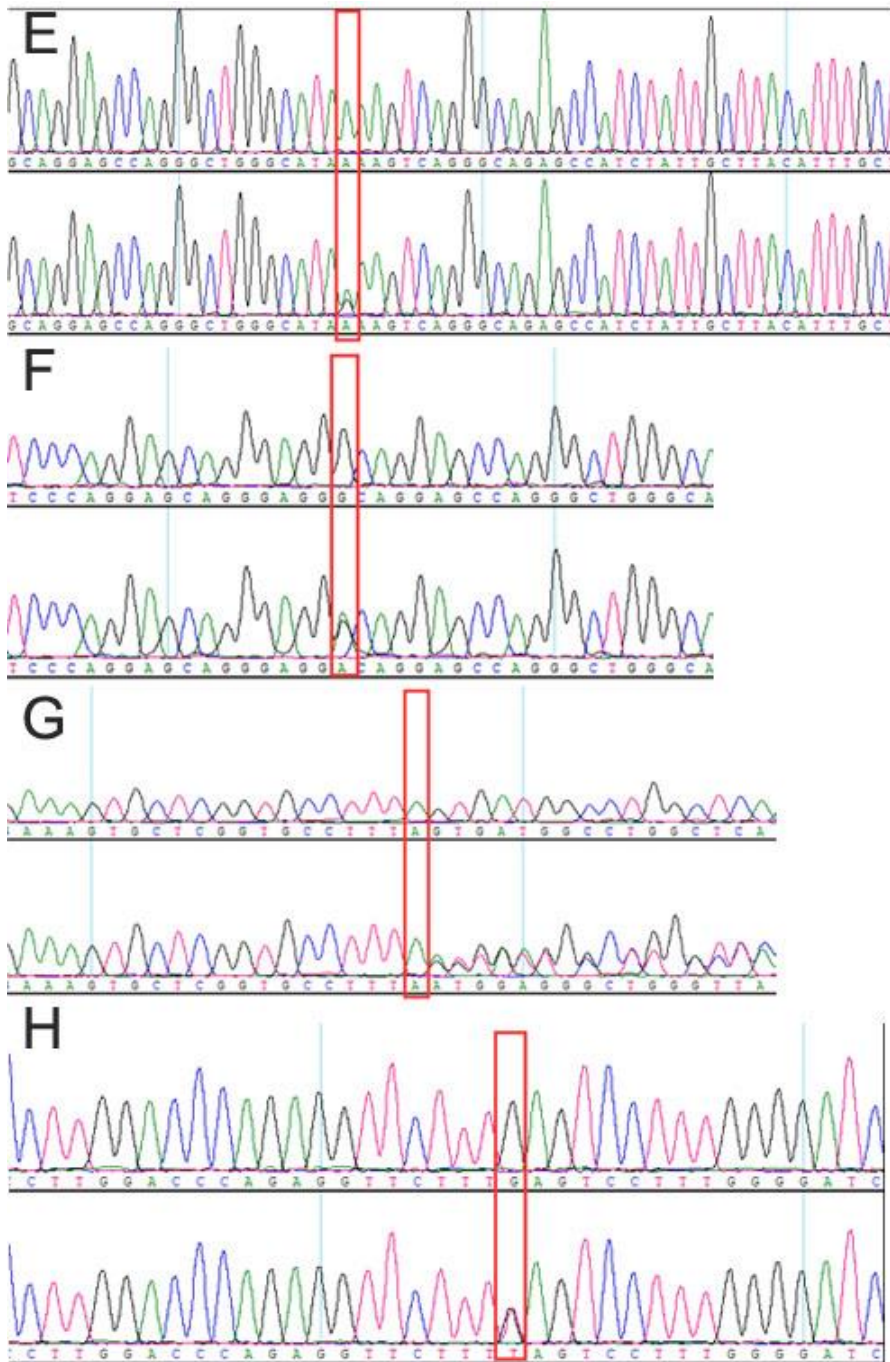


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2 **Supplementary Figure1. Validation of NGS method for the α -thalassemia mutations Hb Westmead (A),**



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2 **Supplementary Figure2. Validation of NGS method for the β -thalassemia mutations Hb E(A), Codons**3 **41/42 (-TTCT) (B), IVS-II-654 (C>T) (C), Codon 17 (A>T) (D), -28 (A>G) (E), -50 (G>A) (F), Codons**4 **71/72 (+A) (G) and Codon 43 (G>T) (H). The wildtype (above) and mutant (bottom) of each mutation**5 **were shown in the red rectangle.**

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