**Supplementary materials**

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**Figure S1 Results of common thalassemia gene detection of the family pedigree members. A,** proband’s father; **B,** proband’s mother; **C,** proband’s elder sister; **D,** elder sister’s son; **E,** proband; **F,** proband’s husband; **G,** proband’s daughter

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**Figure S2 Detection of the common thalassemia genes for the fetus**