Supplementary Material

# Supplementary Table S1 Primers used in the present study

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| Name | Sequence (5’ to 3’) | Description |
| TTI2-4F | TATGGACCCTAAGGACGG | Sense primer for validating the mutation of TTI2  |
| TTI2-4R | GAGTCAACTATGAGCACCTC | Antisense primer for validating the mutation of TTI2  |
| TTI2-control-F | GTCCTTCCATTCCTTCCTC | Sense primer for validating the mutation of TTI2 in control individuals  |
| TTI2-control-missense-R | GCTGAGGTGGGAGGATTG | Antisense primer for validating the missense mutation of TTI2 in control individuals  |
| TTI2-control-framshift-R | TGCGTAAAAGAAGGCGGT | Antisense primer for validating the framshift mutation of TTI2 in control individuals  |
| E3F | ACTCTGCAACAGGTCACTCG | Sense primer for amplifying the cDNA fragment of TTI2  |
| E7R | CAAATCAGTTTCAAGAGGGC | Antisense primer for amplifying the cDNA fragment of TTI2  |
| TTI2-qPCR-F | TGAATGCGGTTCTGTGGC | Sense primer for the quantitative real-time PCR of TTI2  |
| TTI2-qPCR-R | ATGACCAATGATGCGGGA | Antisense primer for the quantitative real-time PCR of TTI2  |
| TTI2-EGFP-F | cctcgagggATGGAGCTTGACAGCGCTCTG | Sense primer for amplifying full length cDNA of TTI2 cloned into pEGFP-C1 vector  |
| TTI2-EGFP-R | caagcttTTAAGTTCCATTGTAGGGTGCGCCT | Antisense primer for amplifying full length cDNA of TTI2 cloned into pEGFP-C1 vector  |
| pMD18-M13F(-47)-seq | CGCCAGGGTTTTCCCAGTCACGAC | Sequences primer for identified insertion into pMD18 vector sequence  |
| pEGFP-C-seq | CATGGTCCTGCTGGAGTTCGTG | Sequences primer for identified insertion into pEGFP-C1 vector sequence  |

The capital letters denote TTI2-specific sequences, while the low-case letters indicate sequences containing restriction Site *XhoI* (ctcgag) or *HindIII*(aagctt)(underlined), which indicated in bold.