

**S1 Table. Primer sequences for validating each variant**

Variant	Forward primer (5'-3')	Reverse primer (3'-5')
p.I1313T	TGGTTGCTATTGTAACCAAAGAGCT	CAGAAAGCCCATTGGACTGTCA
p.D1237Y	CTATAAACTGAAAACACTGACCTATGGCTA	GCTCTTCCATAATATGAGGAGATCCTACTT
p.I1185M	CTTCCCATAGTCGTCAGTTGCAATAA	CCATTCATAAGGGTTATCTTTTCCTGCTT
p.G1151R	CATAATTCCGCATACCTTCACTCTGA	CATGGCATCTAGAAATGGCTTTTGATTTAT
c.3010-1G>C	AGAGACTCCTTTCAAAAATGCCCT	CCAGGCAATCCAATAAGTAAAAACATACAT
p.R962C	CTGTCATCTGTTAAGCCAAATTCTCTATC	TCATTGCACTGTGTTTTAACTTGGTAAC
p.D642N	ACAAACAGCTGAAAGCCTCTGA	GGACATTCTGTGCTATTAGTTTCAAGC
p.V495I	CCCAGGTCTCATGTCTGTATAAACA	TTGTTAAACTGTAAGAGCAAACCTCTGTACT
p.V469A	TTTTTCAGTTTTAACCAGACATCTCTTTCA	AAAAGACCCAGAGCTTCACCTTT
p.Y462C	TTTTTCAGTTTTAACCAGACATCTCTTTCA	AAAAGACCCAGAGCTTCACCTTT
p.S399R	TCTATGTCCTTGTCCAGAGCTACTATTC	ACTCCAAAAGATAGCACGACATATACTTT
p.P315L	TCCTTGGAATTGAGAGAATTTGTTACTGT	TTCATGAAGTATTAGTAATGCGGCTGAA
p.T281A	TCCCATTGGGTTTTAAACATGCAAAT	GAGATGACTTGGGTCCAATGTTTCT
p.R219K	ACTCACATTAGCTTGGATTATGACAAAGT	TCATCTCTAACTTCCAAGAGGATTAATCCA
p.G100R	TAACGGTTCTCCAGGACACAGA	GTGGATTACTGGGTGTTGATGGAT
p.M60I	GGTGCTGTTTCAGGAAAAGCATT	GGTTTAAGAGCATGATCTTTGCTAAAGAAT