



MEFV (NM\_000243.3) - cDNA - 2024-12-21

CTACCAGAAG CCAGACAGCT GGCTCGAGCC TCTCCTGCTC AGCACCATGG 4 [chr16:g.3320350\\_3256171dup](#) [-12C>G](#)

CTAAGACCCC TAGTGACCAT CTGCTGTCCA CCCTGGAGGA GCTGGTGCCC 54 [L9L](#) [T12I](#)

TATGACTTCG AGAAGTTCAA GTTCAAGCTG CAGAACACCA GTGTGCAGAA 104 [Y19C](#) [K25R](#) [L28V](#) [Q34P](#) [K35R](#)

GGAGCACTCC AGGATCCCC GGAGCCAGAT CCAGAGAGCC AGGCCGGTGA 154 [R39G](#) [R42W](#) [P50L](#)

AGATGGCCAC TCTGCTGGTC ACCTACTATG GGGAAAGAGTA CGCCGTGCAG 204 [L57L](#) [G62W](#) [Y65Y](#) [V67E](#)

CTCACCCTG AGGTCCTGCG GGCCATCAAC CAGCGCCTG TGGCCGAGGA 254 [R75Q](#) [E84K](#)

GCTCCACAGG GCAGCCATTC AGGAATATTC CACACAAGAA AACGGCACAG 304 [H87R](#) [A89T](#) [Q97K](#) [Q97X](#) [Q97R](#) [N99N](#)

ATGATTCCGC AGCGTCCAGC TCCTGGGGG AGAACAAAGCC CAGGAGCCTG 354 [D102D](#) [D103D](#) [S104C](#) [A105E](#) [S108R](#) [S108G](#) [L110P](#) [L110L](#) [G111R](#) [G111E](#) [G111G](#) [334\\_335insG](#) [P115T](#)  
[P115R](#) [R116S](#)

AAGACTCCAG ACCACCCCGA GGGGAACGAG GGGAACGGCC CTCGGCCGTA 404 [T120I](#) [H123Q](#) [P124P](#) [E125E](#) [E128\\_N130del](#) [390\\_391insGAGGGGAAC](#) [N130N](#) [Y135H](#)

CGGGGCGGA GCTGCCAGCC TGCGTGCAG CCAGCCCGAG GCCGGGAGGG 454 [G136R](#) [G136W](#) [G136E](#) [G136G](#) [G138G](#) [S141I](#) [R143P](#) [S145G](#) [E148RfsX5](#) [E148Q](#) [E148V](#) [E148D](#) [G150G](#)  
[R151S](#) [G152R](#)

GGCTGTCGAG GAAGCCCCTG AGCAAACGCA GAGAGAAGGC CTCGGAGGGC 504 [S154P](#) [R155T](#) [S159N](#) [E163A](#) [E163D](#) [A165T](#) [A165A](#) [S166L](#) [S166S](#) [E167D](#)

CTGGACGCGC AGGGCAAGCC TCGGACCCGG AGCCCGGCCC TGCCGGGCGG 554 [L169V](#) [Q172P](#) [P175H](#) [T177I](#) [S179I](#) [S179N](#) [P180R](#) [P180P](#) [P183T](#) [P183P](#)

GAGAAGCCCC GGCCCTGCA GGGCGCTAGA GGGGGGCCAG GCCGAGGTCC 604 [S187N](#) [P188P](#) [A193V](#) [L194P](#) [E195E](#) [G196W](#) [G196R](#) [G197R](#)

GGCTGCGCAG AAACGCCAGC TCCGCGGGGA GGCTGCAGGG GCTGGCGGGG 654 [R202Q](#) [L203P](#) [R204H](#) [N206S](#) [N206K](#) [606\\_621dup](#) [S208C](#) [S208T](#) [S209S](#) [G211G](#) [G218A](#)

GGCCCCCGG GGCAGAAGGA GTGCAGGCC TTCGAAGTGT ACCTGCCCT 704 [G219G](#) [P221P](#) [G222R](#) [K224del](#) [E225G](#) [E225D](#) [E230K](#) [E230Q](#) [Y232H](#) [c.698\\_700dupTGC](#) [P234P](#) [S235L](#)

GGGAAAGATG CGACCTAGAA GCCTTGAGGT CACCATTTCT ACAGGGGAGA 754 [G236V](#) [M238I](#) [R239R](#) [R241K](#) [S242G](#) [S242S](#) [S242R\\_C>G](#) [S242R\\_C>A](#) [E244K](#) [I247V](#) [T249A](#) [G250A](#) [E251K](#)

AGGCGCCCGC AAATCCAGAA ATTCTCCTGA CTCTAGAGGA AAAGACAGCT 804 [761\\_764dup](#) [P257L](#) [I259V](#) [K266E](#) [T267I](#) [A268V](#)

GCGAATCTGG ACTCGGCAAC AGAACCCCCG GCAAGGCCCA CTCCGGATGG 854 [N270D](#) [S273L](#) [P277T](#) [R278P](#) [P283R](#) [P283L](#)

AGGGGCATCT GCGGACCTGA AGGAAGGCC TGGAAATCCA GAACATTCGG 904 [S288Y](#) [A289V](#) [A289E](#) [E299G](#)

TCACCGAAG GCCACCAGAC ACGGCTGCGA GTCCCCGCTG CCACGCCCCAG 954 [G304R](#) [P307P](#) [T309M](#) [P313H](#) [R314C](#) [R314H](#) [R314R](#) [A317T](#)

[GAAGGAGACC](#) [CAGTTGACGG](#) [TACCTGTG](#)TG [CGTGATTCCT](#) [GCAGCTTCCC](#) 1004 [E319K](#) [V328A](#) [R329H](#)  
[CGAGGCAG](#)TT [TCTGGGCACC](#) [CCCAGGCC](#)TC [AGGCAGCC](#)GC [TCA](#)CC[TGGCT](#) 1054 [E336K](#) [V338L](#) [S339F](#) [R348H](#) [P350S](#) [P350R](#)  
[G](#)CCCC[CGGTG](#) [CCAGGACTCC](#) [CATGAAAG](#)GGA [AGAG](#)GCC[CGGG](#) [AAGCC](#)TAAGC 1104 [C352C](#) [P353A](#) [R354W](#) [R361T](#) [S363N](#) [S363S](#) [P364L](#) [P364P](#) [L367V](#)  
[C](#)CCC[AGCCCC](#) [TGC](#)C[ACAGTG](#) [TA](#)A[GCGCCAC](#) [CTGAAGCAGG](#) [TC](#)C[AGC](#)TGCT 1154 [P369S](#) [L372P](#) [P373L](#) [K376R](#) [Q383K](#) [L384P](#)  
[C](#)TTCTGTGAG [G](#)A[T](#)CAC[GATG](#) [AGCC](#)C[ATCTG](#) [C](#)C[T](#)CATCTGC [AGTCTGAGTC](#) 1204 [D389V](#) [D391N](#) [P393P](#) [L396F](#)  
[AGGAGC](#)ACCA [AGGCCACC](#)GG [GTGC](#)G[CCCCA \[TTGAGGAGGT\]\(#\) \[C\]\(#\)G\[CCCTG\]\(#\)GAA 1254 \[E403K\]\(#\) \[H404R\]\(#\) \[R408Q\]\(#\) \[c.1229G>A\]\(#\) \[V415V\]\(#\) \[E418\\\*\]\(#\)  
\[CACAAGA\]\(#\)AAGA \[AA\]\(#\)A\[T\]\(#\)T\[CAGAA \\[GC\\]\\(#\\)A\\[G\\\[CTGGAG\\\]\\\(#\\\) \\\[CATCTGAAGA\\\]\\\(#\\\) \\\[AGCTGAGAAA\\\]\\\(#\\\) 1304 \\\[I423V\\\]\\\(#\\\) \\\[I423T\\\]\\\(#\\\) \\\[Q426R\\\]\\\(#\\\)  
\\\[ATCAGGGGAG\\\]\\\(#\\\) \\\[GAG\\\]\\\(#\\\)C\\\[AGCGAT \\\\[CCTATGGGGA\\\\]\\\\(#\\\\) \\\\[GGAGA\\\\]\\\\(#\\\\)A\\\\[GGCA \\\\\[GTGAGCTTTC\\\\\]\\\\\(#\\\\\) 1354 \\\\\[Q440E\\\\\]\\\\\(#\\\\\) \\\\\[S442T\\\\\]\\\\\(#\\\\\) \\\\\[K447M\\\\\]\\\\\(#\\\\\)  
\\\\\[TGAAACAAAC\\\\\]\\\\\(#\\\\\) \\\\\[TGA\\\\\]\\\\\(#\\\\\)A\\\\\[G\\\\\\[CGC\\\\\\]\\\\\\(#\\\\\\)GTG \\\\\\[AAGCAGC\\\\\\]\\\\\\(#\\\\\\)GGG \\\\\\[TGCAGAGGAA\\\\\\]\\\\\\(#\\\\\\) \\\\\\[GCTGGAGCAG 1404 \\\\\\\[E456D\\\\\\\]\\\\\\\(#\\\\\\\) \\\\\\\[A457V\\\\\\\]\\\\\\\(#\\\\\\\) \\\\\\\[A457A\\\\\\\]\\\\\\\(#\\\\\\\) \\\\\\\[R461Q\\\\\\\]\\\\\\\(#\\\\\\\) \\\\\\\[Q468Q\\\\\\\]\\\\\\\(#\\\\\\\)  
\\\\\\\[G\\\\\\\]\\\\\\\(#\\\\\\\)TGTACTACT \\\\\\\[TCCTG\\\\\\\]\\\\\\\(#\\\\\\\)G\\\\\\\[AGCA \\\\\\\\[GCA\\\\\\\\]\\\\\\\\(#\\\\\\\\)A\\\\\\\\[GAG\\\\\\\\\[CAT\\\\\\\\\]\\\\\\\\\(#\\\\\\\\\) \\\\\\\\\[TT\\\\\\\\\]\\\\\\\\\(#\\\\\\\\\)C\\\\\\\\\[TTTGTGG \\\\\\\\\\[CCTCAC\\\\\\\\\\\[TGGA 1454 \\\\\\\\\\\\[V469L\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\) \\\\\\\\\\\\[Y471X\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\) \\\\\\\\\\\\[E474K\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\) \\\\\\\\\\\\[E474E\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\) \\\\\\\\\\\\[Q476Q\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\) \\\\\\\\\\\\[H478Y\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\) \\\\\\\\\\\\[F479L\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\) \\\\\\\\\\\\[L484M\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\)  
\\\\\\\\\\\\[GGAC\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\)G\\\\\\\\\\\\[TGGGC\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\) \\\\\\\\\\\\[CAG\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\)A\\\\\\\\\\\\[TGGTTG \\\\\\\\\\\\\[GGCAGATCAG \\\\\\\\\\\\\\[GAAGGCATAT\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\) \\\\\\\\\\\\\\[GACACC\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\)CGCG 1504 \\\\\\\\\\\\\\[V487M\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\) \\\\\\\\\\\\\\[V487L\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\) \\\\\\\\\\\\\\[Q489Q\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\) \\\\\\\\\\\\\\[R495K\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\) \\\\\\\\\\\\\\[R501G\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\) \\\\\\\\\\\\\\[R501C\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\) \\\\\\\\\\\\\\[R501H\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\) \\\\\\\\\\\\\\[R501R\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\)  
\\\\\\\\\\\\\\[TAT\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\)CCCAGGA \\\\\\\\\\\\\\[CATCG\\\\\\\\\\\\\\\[CCCTG \\\\\\\\\\\\\\\\[CTC\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\)GAT\\\\\\\\\\\\\\\\[GCGC \\\\\\\\\\\\\\\\\[TGATTG\\\\\\\\\\\\\\\\\\[GGGA \\\\\\\\\\\\\\\\\\\[ACTGGAGGCC\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) 1554 \\\\\\\\\\\\\\\\\\\[S503C\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[D505G\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[I506V\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[I506I\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[A507T\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[L508Q\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[D510N\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[D510D\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[A511V\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[A511E\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[I513T\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[G514E\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\)  
\\\\\\\\\\\\\\\\\\\[AAGG\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\)A\\\\\\\\\\\\\\\\\\\[GTGCC\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[AGTCAGAATG\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\[GGAACTTCTG \\\\\\\\\\\\\\\\\\\\[CAGGACATTG\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\[GAGACATCTT\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\) 1604 \\\\\\\\\\\\\\\\\\\\[E520V\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\)  
\\\\\\\\\\\\\\\\\\\\[GCACAGGGCT\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\[AAGA\\\\\\\\\\\\\\\\\\\\\[CAGTGC \\\\\\\\\\\\\\\\\\\\\\[CTGTCCCTGA\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\[AAAGTGGACC\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\[ACTC\\\\\\\\\\\\\\\\\\\\\\\[CTCAAG 1654 \\\\\\\\\\\\\\\\\\\\\\\\[K539N\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\[P550A\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\)  
\\\\\\\\\\\\\\\\\\\\\\\\[AGATAAAACA\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\[AAAGATCCAA \\\\\\\\\\\\\\\\\\\\\\\\\[C\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\)T\\\\\\\\\\\\\\\\\\\\\\\\\[CCTCCACC\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\[AGAAGTCAGA\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\[GTTTGTGGAG 1704 \\\\\\\\\\\\\\\\\\\\\\\\\\[E552D\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\[L559F\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\)  
\\\\\\\\\\\\\\\\\\\\\\\\\\[AAGAGCACAA\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\[AGTACTTTCTC \\\\\\\\\\\\\\\\\\\\\\\\\\\[AGAAA\\\\\\\\\\\\\\\\\\\\\\\\\\\\[C\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[CCCTG\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\[CGTTCAGAAA \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[TGAA\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[AATGTT 1754 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[T577SAT\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[T577A\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[T577N\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[T577SCG\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[T577I\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[M582L\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[E583A\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)  
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[CAATGTTCCG \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[GAGCTGATTG \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[G\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)CG\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[CTCAGGC \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[ACATGCTGTT \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[AA\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[TGTGATTC 1804 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[P588P\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[I591T\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[I591M\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[G592G\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[A595V\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[c.1792G>A\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[N599D\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)  
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[TGGATGCAGA \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\[AACC\\[GCTTAC \\\[CCC\\[AACCTCA \\\[TCTTCTCTGA \\[TGATCTGAAG 1854 \\\[L602L\\\]\\\(#\\\) \\\[T606T\\\]\\\(#\\\) \\\[P609P\\\]\\\(#\\\) \\\[N610D\\\]\\\(#\\\)  
\\\[AGTGTTAGAC \\[TTGGAAACAA \\\[GT\\[GGGAGAGG \\\[CT\\[GCCTGATG \\\[GCC\\[CGCAAAG 1904 \\\[W626R\\\]\\\(#\\\) \\\[R628K\\\]\\\(#\\\) \\\[P630AfsX2\\\]\\\(#\\\) \\\[G632S\\\]\\\(#\\\) \\\[G632A\\\]\\\(#\\\) \\\[P633L\\\]\\\(#\\\)  
\\\[ATTTGA\\[CAGC\\]\\(#\\) \\[TGTATC\\\[ATTG \\[TT\\\[CTGGGCTC\\\]\\\(#\\\) \\\[TCCG\\[AGTTTC\\]\\(#\\) \\[CT\\\[CTC\\[TGCC\\]\\(#\\) 1954 \\[F636Y\\]\\(#\\) \\[D637G\\]\\(#\\) \\[I640M\\]\\(#\\) \\[I641F\\]\\(#\\) \\[V642A\\]\\(#\\) \\[P646L\\]\\(#\\) \\[P646P\\]\\(#\\) \\[L649F\\]\\(#\\) \\[L649P\\]\\(#\\) \\[S650Y\\]\\(#\\) \\[G651S\\]\\(#\\) \\[R652C\\]\\(#\\)  
\\[GCCGT\\\[TACTG\\\]\\\(#\\\) \\\[GGA\\[GGTGGAG \\\[GT\\[TGGAGACA \\\[AGACAGCATG\\\]\\\(#\\\) \\\[GA\\[T\\\[CCTGGGA 2004 \\[R652H\\]\\(#\\) \\[R652R\\]\\(#\\) \\[R653S\\]\\(#\\) \\[R653H\\]\\(#\\) \\[E656A\\]\\(#\\) \\[V659F\\]\\(#\\) \\[D661N\\]\\(#\\) \\[D661Y\\]\\(#\\) \\[K662Dfs\\*36\\]\\(#\\) \\[I666V\\]\\(#\\) \\[G668R\\]\\(#\\)  
\\[GCCT\\\[GCAAGA \\[CATCCATAAG \\\[CAGGAAAGGG \\[AA\\\[C\\[ATGACTC\\]\\(#\\) \\[TGTCG\\\[CCAGA 2054 \\[K671M\\]\\(#\\) \\[S675N\\]\\(#\\) \\[G678R\\]\\(#\\) \\[G678E\\]\\(#\\) \\[N679H\\]\\(#\\) \\[M680L\\]\\(#\\) \\[M680V\\]\\(#\\) \\[M680IGC\\]\\(#\\) \\[M680IGA\\]\\(#\\) \\[M680IGT\\]\\(#\\) \\[T681I\\]\\(#\\) \\[S683S\\]\\(#\\) \\[E685K\\]\\(#\\)  
\\[GAATGGCTAC \\\[TGGGTGGTGA \\[TA\\\[T\\[GATGAA \\\[GG\\[AAAATGAG \\\[TACCAGGCGT 2104 \\[G687D\\]\\(#\\) \\[Y688C\\]\\(#\\) \\[Y688F\\]\\(#\\) \\[Y688X\\]\\(#\\) \\[V690L\\]\\(#\\) \\[V690G\\]\\(#\\) \\[V691G\\]\\(#\\) \\[V691A\\]\\(#\\) \\[I692DEL\\]\\(#\\) \\[M693K\\]\\(#\\) \\[M693I\\]\\(#\\) \\[M694V\\]\\(#\\) \\[M694L\\]\\(#\\)  
\\[M694DEL\\]\\(#\\) \\[M694K\\]\\(#\\) \\[M694I\\]\\(#\\) \\[K695R\\]\\(#\\) \\[K695M\\]\\(#\\) \\[K695N\\]\\(#\\) \\[E698D\\]\\(#\\) \\[A701A\\]\\(#\\)  
\\[CC\\\[AGCG\\[TTCC\\]\\(#\\) \\[CCCG\\\[ACCCGC\\\]\\\(#\\\) \\\[CT\\[GCTAATAA\\]\\(#\\) \\[AGGAGCCTCC\\]\\(#\\) \\[CAAGC\\\[GTGTG\\\]\\\(#\\\) 2154 \\\[S702C\\\]\\\(#\\\) \\\[S703S\\\]\\\(#\\\) \\\[V704I\\\]\\\(#\\\) \\\[P705S\\\]\\\(#\\\) \\\[P706P\\\]\\\(#\\\) \\\[R708C\\\]\\\(#\\\) \\\[L709R\\\]\\\(#\\\) \\\[R717S\\\]\\\(#\\\) \\\[R717H\\\]\\\(#\\\) \\\[R717L\\\]\\\(#\\\)  
\\\[GGCA\\[TCTTCG \\\[TGGACT\\[ACAG \\\[AGT\\[TGGAAGC \\\[AT\\[C\\\[T\\[C\\\[TTTT\\\]\\\(#\\\) \\\[AC\\[A\\\[ATGTGAC 2204 \\[I720M\\]\\(#\\) \\[F721L\\]\\(#\\) \\[F721F\\]\\(#\\) \\[V722M\\]\\(#\\) \\[D723D\\]\\(#\\) \\[V726A\\]\\(#\\) \\[I729V\\]\\(#\\) \\[I729M\\]\\(#\\) \\[S730C\\]\\(#\\) \\[N733D\\]\\(#\\) \\[N733S\\]\\(#\\)  
\\[AGCCA\\\[GATCC\\\]\\\(#\\\) \\\[CACATCTATA \\[CATT\\\[CGCCAG \\[CTGCTC\\\[TTTC\\\]\\\(#\\\) \\\[TC\\[TGGGCCCC\\]\\(#\\) 2254 \\[R737K\\]\\(#\\) \\[F743Y\\]\\(#\\) \\[F743L\\]\\(#\\) \\[F743F\\]\\(#\\) \\[A744S\\]\\(#\\) \\[A744T\\]\\(#\\) \\[A744D\\]\\(#\\) \\[S747C\\]\\(#\\) \\[S749C\\]\\(#\\)  
\\[TTCAA\\\[CCTAT \\[CT\\\[T\\[CAGCCCT\\]\\(#\\) \\[GGGACC\\\[GTG \\[ATGGAGGGAA \\\[GA\\[ACACAGCT 2304 \\\[Q753Q\\\]\\\(#\\\) \\\[Q753H\\\]\\\(#\\\) \\\[P754R\\\]\\\(#\\\) \\\[I755V\\\]\\\(#\\\) \\\[P758S\\\]\\\(#\\\) \\\[R761C\\\]\\\(#\\\) \\\[R761H\\\]\\\(#\\\) \\\[G764G\\\]\\\(#\\\) \\\[N766H\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\]\\\(#\\\)\\]\\(#\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(#\\\\\\\\\\\\\\)\\\\\\\\\\\\\]\\\\\\\\\\\\\(#\\\\\\\\\\\\\)\\\\\\\\\\\\]\\\\\\\\\\\\(#\\\\\\\\\\\\)\\\\\\\\\\\]\\\\\\\\\\\(#\\\\\\\\\\\)\\\\\\\\\\]\\\\\\\\\\(#\\\\\\\\\\)\\\\\\\\\]\\\\\\\\\(#\\\\\\\\\)\\\\\\\\]\\\\\\\\(#\\\\\\\\)\\\\\\\]\\\\\\\(#\\\\\\\)\\\\\\]\\\\\\(#\\\\\\)\\\\\]\\\\\(#\\\\\)\\\\]\\\\(#\\\\)\\\]\\\(#\\\)\\]\\(#\\)\]\(#\)](#)

CCTCTGACTA TCTGTCCAGT GGGTGGTCAG GGCCTGACT GAATGCCCAA \*8 P769A I772Y Q778Sfs\*4 Q778L G779G P780T

CACTGCATCT CTCTTCCCTGC TTCTGGCCTT GTATCTTGCA TTCACACTCA \*58 \*9C>T \*12T>C \*21C>G

ATAGTCACGG AATGCCGACT AGGTGCTAGC TGCTATGGGA AATGCAAAAA \*108

TAACAAAATA GTTACTGTGC CCACGGAGCC TACCCGATTA TAGCAGAGGT \*158 c.\*133G>A

AAGTTAGGAA CGAACATGTT AGTCAATCCG GGTGAAGACA TGTACTGATG \*208

ACACACCATG GATTTCAGAG GAGGAAGTAC GGAGTCGTTG CATAATCCGC \*258 c.\*245G>A

CCCTGGTGGG TGGCACTCTC AGGTGCTCCT GAACAGAAGA TTTGGCCCTC \*308 c.\*267G>A

ATTTTCCCTC AGAACCCAC GGCAAGGATA TATGTCCCCT TGTTCTCTCT \*358

GCTTCTGTCT TGAGGATATG GGAAGCCTAG AGAAACGCAA GCAGACTGGA \*408

TTGGGATAGA AGTATTTGTG TACCTGGATT AATGAACTAT GATTTTTTTTT \*458

TTTTTTTTTTT GAGACCAAAT CTTGCTCTGT GGCCAGGCT GGAGTGCAGT \*508

GGCACGATCT CAGCTCACTG CAACCTCCAC CTCCCAGGTT CAAGCGATTC \*558

TCCTGCCTCA GCCTCCTGAG CAGCTGGGAT TACAGGTGCG TGCCACCACA \*608

CCAGGCTGGT TTTCTTGTAT TTTTAGTAGA GACGGGGGTT TCACCATGTT \*658

AGCCAGGCTG GTCCTGAACT CCTGACCTCA GGTGATCCAC CCGCCTCAGC \*708

CTCCCAAAGT GCTGGGATTA CAGGCATGAG CCACTGTGCC CGGCCTATGA \*758

TTCTTTTTTTT TTTTTTTTTTT TGAGACAAAG TTTTGCTCTT GTCACCCAGG \*808

CTGGAGTGCA GTGGTGCAAT CTTGGCTCGC AACCTCCGCC TCCCAGGTTT \*858

AAGAGATTCT CCTGCCTCAG CCTCCGAAGT AGCTGGGATT ACAGGCGCCC \*908

GCCACCATGC CCGGCTAATT TTTTGCATTT TTAGTAGACA TGAGGTTTCA \*958

TCATGTTGGC CAGGCCGGTC TCAAACCTCT GACCTCAGGT GATGCACCCA \*1008

CCTCAGCCTC CCAAAGTGCA GGGATTACAG GCATGAGCCA CCATGCCGGG \*1058

CCATGATTCT TAAGAGAATT GACTGGGCCCT CATGAATAAA AAAATTAGAA \*1108

AATCTG

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