



NLRP12 (NC_000019.10, GRCh38) - gDNA - 2026-04-17

tctttgggga ccatcatcct gcctaccgca aagtcctct catgccactc 53825265
ttgtgactga gagaacagaa aaaaaatagc agacctacgt gaggtcctta 53825215
ataattctcc ctgaggctgg gctcagtgcc tcatgcctgt aatcccagca 53825165
ctttggaagg ctgaggtggg cggatcgttt gagctcagga gttcaaggcc 53825115
agcctgggca acataagaag accttgtctc taccaaaaact acaaaaaactt 53825065
agctgggcat ggtggcgcac gtctgtggtc ccagctactt gagaggctga 53825015
ggtgggagaa tcgctggaac ctgggaggcg gaggttgacg tgagctgaga 53824965
tcacgccagt gaactctagc ctgggtggca gagtgagact ctgactcaaa 53824915
gaaaaaaaa aaaaaaaaaag ccagggacgg tggctcacac ctgtaatcct 53824865
agcactttgg aaggctgagg cgggtggatc acctgaggtc aggagttcga 53824815
gaccagcctg accaacatgg tgaaccctg tctcttctaa aaccacaaaa 53824765
attagctggg tgtggtgtcc ggcgctgta atcccagcta ctcaagggaa 53824715
gctgaggtgg gagaatcgct tgaacctggg aggcagaggt tgcggtgagc 53824665
caagatcgca gagccagggc cacagagtaa gactctgtct caaaaaaaaa 53824615
aaaattctcc ctggaagagg cgcagtcgca gttttgataa tacactctac 53824565
cacacacact agtgaaatga ggaaaacaag aggaaagcgg aaagagagtg 53824515
actgttttgt caagagatcc aggaagagac agcagaagtg aaaatctttt 53824465
tcatcagcca agtggctcct cggatttctt aatctcccc cgaacttcct 53824415
cttctccacc cagaacagcc attggtgagt ggggcagggc aggagggaac 53824365
tgaagagtga gaaagcatta tttcagcaaa aggtctttcc tcctttgctc 53824315 **c.-140T>A**
TCCTCCTCCAA CCACTGGCTC AGCCTCTCCG CCCGCTGCCT GTGAATGATG 53824265
CAATGGAAGG TGTGCTGGGG TCGCCCTGTG TCCCGTGCAT AGGAGCATCT 53824215

CAGCCTCCAG GTCCTCTCCT TTGGGGCTCA CGGCACCCCC ATGCTACGAA 53824165 c.-12C>T
CCGCAGGCAG GGACGGCCTC TGTCGCCTGT CCACCTACTT GGAAGAACTC 53824115
GAGGCTGTGG AACTGAAGAA GTTCAAGTTA TACCTGGGGA CCGCGACAGA 53824065
GCTGGGAGAA GGCAAGATCC CCTGGGGAAG CATGGAGAAG GCCGGTCCCC 53824015 G39V c.154G>A
TGGAAATGGC CCAGCTGCTC ATCACCCTACT TCGGGCCAGA GGAGGCCTGG 53823965 W70*
AGGTTGGCTC TCAGCACCTT TGAGCGGATA AACAGGAAGG ACCTGTGGGA 53823915
GAGAGGACAG AGAGAGGACC TGGTGAGGGg taaggaggtg gcggga_cagg 53823865 c.289+6G>C c.289+18C>T
caaggctaga atgccagccg ggtccagtga ctcataacctg taatctcagc 53823815
actttgggag gctgaagagg gcagatcact tgaggtgagg agttcaagac 53823765
cagtctggac aacatagtga ggctctgtct ctaccaaaaa taaaaaaaaat 53823715
tagccaggtg tgggtgtata cgtctgtgat cccagcttct caggaggctg 53823665
agtgaggagg atcacttgag accagaaggt cgaggctgcy gtgagctatg 53823615
atcctgccac tgcaccccag cctaggtgac agaacgagac cttgcctcaa 53823565
atatttaaaa tatatttttt taaaatatat atatttaaaa tatatgtttt 53823515
aaatataat tttaaataaa tatattttta aatataatatt ttaaataat 53823465
atntaaaata tatatttaaa acatatatnt taaatatata tattntaaaac 53823415
atatatttta aatataatatt taaaatatgt atataattat attatntaaat 53823365
atatatntaa tatggtatat attatatata aatataatgat atattntatta 53823315
tataaatata ctatattata taaatatggt atattatata aatataatata 53823265
aataaataat attataatatt aaatattntaa tacatatatt attaaaataa 53823215
atattntaaa tacatatata taaaatccct gagcctggga gatctggaat 53823165
ttatatatat atacacacac gtatatatat gtgtatatat gtgtatatat 53823115
atgtgtgtgt atatgtgtgt gtgtatatat attntaaagag atgaggtagc 53823065
cagggtgcagt ggctcacacc tataatccca gcactntggg aggccaaggc 53823015
gggtgggtca cctgaggtca ggaattcgag atcagctctgg ccaacatagc 53822965
aaaaccctgt ctctactaaa aatacaaaaa ttagccaggc gtggtggcac 53822915
acgcttatag tcccagctac atgggaggct gaggcaggag aatcgcttga 53822865
acctgagagg tggagattgc agtgagttga gattgcacca ctgtactcca 53822815

ggctgggtaa cagagtghaa ccccatctca aaaataaatt aagaaagaga 53822765
tgaggtatcc tttttttttt ttttttttaa gactgagtct cgctctgttg 53822715
cccaggctgg agtgcagtgg cgcaatctcc gctcactgca acctccgtct 53822665
cccaggttca agcaattttc tgcctcagca tcccagtag ctgagattac 53822615
aggtacctgc caccatgcct ggctaatttt ttgtatttgt attttttcta 53822565
gagacggggt ttcactatct tggccaggct ggtcttgaac ttctgacctc 53822515
gtgatccacc cacctcagcc tcccaaagtg ctgggattac gggcataagc 53822465
cactgtgccc ggccaagatg aggtgtcctt atgttgcccc ggctggtcct 53822415
gaactcctgg gctcaagcga gcttccacct tagcctccca aagtgtctggg 53822365
attacaggca tgaatgacca ctgcctggcc accaattccc ttttctttca 53822315
tactaatccc tgagcctggg agatctggaa ttctaattta cgtacacaca 53822265
catctatatc tatataaaaa tttcaacttt tagattcaag ggttacatgt 53822215
gcaggtttgt tacatgggta tattgagtga tgctgagatt cagagtaaga 53822165
ttgatcctat catgcaggta cttgaacata gtaatagtag ccaatggtga 53822115
gatttctccc cgccacgagt cccagtgctc tcttctccc atctttctgt 53822065
ccatgagaac ccaatgttta gcttccactt ataagtgaga acatgcagtc 53822015
tttggttttc tattcctgca ttagtttgtc ttggataatg gcctccagct 53821965
gctccatgt tactgcaaag aacatgattt tgttcttttt tatgactgtg 53821915
tacagaattc taatttcac cctttggtct ttgttcatgc tgtgttctgc 53821865
ctggaatatt ctccatcttc tttgcctgga aaagtattac ttactgaaac 53821815
cttgaagcca ctaccttctc taaagtaaag tatttactcc tcttcccca 53821765
ctccttctga ttctctgctc ccaccactct ggctggctca gaaacccac 53821715
ttctgtgctt ccttagcact cttggatttc tttttgttgt tgttgtttaa 53821665
acagagtctt gctctgtcgc ccaggctgga gtgcagtggc gcaatctcag 53821615
ctcactgcaa gctctacctc ctgggttcac gccattctcc tgcctcagcc 53821565
tcccagtag ctgggactgc aggtgcccgc caccatgcct ggctaatttt 53821515
ttgtattttt aatagagacg gggtttccct atgttagcca ggatggtctc 53821465
gatctcctga cctcatgatc cagccgtctc ggctcccaa agtgctgtga 53821415

ttacaggtgt gagccaccgt gccagccaa catgatttct tttattatat 53821365
cttctatctc ataaaataat cacaatgagc tgggtgcggt ggctcacgcc 53821315
tgtaatccca gcactttggg agattgaggt ggatggatca cctgaggtca 53821265
ggagttcgag accagcctgg ccaacatggt gaaaccctgt ctctactaaa 53821215
aatacaaaaa aattagccgg gtgtgggtggc gggcgccagt aatccctgct 53821165
aatctagagg ctgagacagg agaatcactt gaaccaggc ggtggaggtt 53821115
gcagtgagcg aagattaagc cactgcactc cagcctgggt gacagagtaa 53821065
gactctgtct caaaaaaaaa aaaaaaaaa aaagaaaaa tatgatttat 53821015
actcaggcat aagctcaaga gataatacat gcaaagtgtc taacacaatt 53820965
cagagcaggt agcaagtgtc cagcaaatat aggctattgc tgaagtggca 53820915
gagatggcac ttgagctgtg gaattgtttt tttaaaaata tttttatttt 53820865
ttacaaaaaa ttagctgggc gcagtgatgg ggcctgtag tcccagctac 53820815
tcaggaggct gaggcaggag aatggcgtga acctgggagg cagagcttgc 53820765
ggtgagctga gattgtgcca ctgcactcca gcctgggtga cagtgaaga 53820715
ctccgtctca aaaaaaaaa aaataattta ttttttagag atagggtctc 53820665
actatgttgc ccaggctaga ctcaaactcc tgggctgaag tgatccgcct 53820615
gcctcagcct cttgaacagc tggaaactaca ggtgtgcacc acagagcccc 53820565
at ttgagctg tggttttttg ttttgtttg tttctgagac agagtctcac 53820515
tctgtcgccc aggctggagt gcagtggcac aatcttggct cagtgaagc 53820465
tccgcctccc gggttccagt gattctcctg cctcagcctc ctgagtagct 53820415
gggactacag gtgcgtgcca ccacaccag ctaatttttg tatttttagt 53820365
agagacgggg tttcacctg ttggtcaggc tggctctgaa ctccaacct 53820315
caggtgatcc atccacctg gcctcccaa atgctggaat tacaggcgtg 53820265
agccactgca ccctgcttga gctgtggttt ttaatgtaat ttctcacctg 53820215
ttttctctac tgtgacatgg acgccttcaa aggcagaaaag agtcttgact 53820165
cccctgtgtg attctctgcg attccagtgt ctggctgggg ctaggaaccg 53820115
agcaaacttt ggtgaacatt tgctgaatga gtaagcaagc cctgccaata 53820065
actggatata cacagtcact tctgcaaagc ttaatgactc gtcgttaatg 53820015

aggtgtgcc a gtagtagtgt gctgggaaac atctctgtaa aaaacaaagt 53819965
ctttaatgac tgaaaaaaac aaagacactt gttttagacc tttcttccct 53819915
ccttccttcc ttcttttccc ttcttttccc tttccttccc tccttccttt 53819865
cttttctttt ctctccctct cctctctttt tctctttccc ttttctccac 53819815
caccaggag acggagggtg tggtagacca agatcccgcc actgcactcc 53819765
agcctggaca agaagagcaa aactccgtct taatatacat acatacatat 53819715
atatatacgt gtgtgtgtgt gtatatatat gtatacatat atatatgtat 53819665
acatgtgtat atatatacgt atacatacat atatacgcgt atatacgtat 53819615
acatacatat atatgcgtat atacgtatac atacatacat acgcatatat 53819565
atacgtatac atacatacat atacgtatac atacacacat atatacacat 53819515
atgtatacat atatatacac atatgtatat acacacacac acacacacac 53819465
acacacatat atatatacat atatatacat atatatacat atatatacat 53819415
atattagcca ggcgtagtgg cacacgcctg taatcccagc tacttgggag 53819365
gctgaggcag gagaatcact tgaacccggg aggcgagggt tgcagtgagc 53819315
cgagatcacg ccactgcact ccagcctgga tgacaaaagc gagactccat 53819265
ctcaaaaaaa gaaaagaaag aaaaaagtat caatttactt acttgtcata 53819215
ttgtataatt atatctaaat ggaagtgtta catagttatt ttaagaaatg 53819165
gaaataatgt acaaatatag aatcaaaagt aaagtcccac ttttctccct 53819115
cttccgccta aatctctccc agcattgaca atgcataacc atttgccgag 53819065
cgttcttccc cggactgcat ccgtttagtc tactgagagg cagctcagcg 53819015
ttcccaagga gacagatgtc tagctttgct ctttctgtct gtgtgatgct 53818965
ggagaatcga tatgcccctg ggcctccatc tccatctgta aaacaagggc 53818915
atcaggcaag atcggcagtt ctcatgttac tgtgcgtaag agtctctcga 53818865
gacacttgtg gccaatgggg aatccaagac cctcaaccgg tgattctgaa 53818815
tcagcaggtc ttaggcaaca ggaatctgca ttttgatgtg gctggttctc 53818765
gcggcatgcc taggaaacac tgaggagaa catctctgag gcctttttca 53818715
gctgcaattt tcaagaatta cttttttat ttttattat ttattttttt 53818665
gagacggagt ctactctgt caccaggcc ggagtgcagt ggtgcgttct 53818615

cggctcactg caacctccgc ctccccgggtt caagcgattc tcctgcctca 53818565
gcctccccgag tacctgggac tacaggcacc cgccaccacg cccgggctaata 53818515
ttcgtattta tagtagagat ggggtttcac catattagcc aggatggtct 53818465
caatctcctg acctcatgat ccaccacact cagcctccca aaatgttggg 53818415
attacaggcg tgagccaccg cgctggcctg gattaccttt aaaaaaaaaa 53818365
aatgtggcca cacctataat cccagcactt tgggaggctg aggcaggcag 53818315
atcacttgag cccagaagt tggagactggt ctaggcaaca tggcaaaacc 53818265
ccttctctac aaaattgacc aggcacagtgt gtgcatgcct gcagaccag 53818215
ctacctggga ggctgagatg ggaggatcac ttaagcccag gaggtgaagg 53818165
ctgcagtgag ccaagatcat gccacactac tccagcctga gcaacagagc 53818115
aagaccctct ctcaaaaaaa aaaaaaaatt gccaacccagc tgcagtggct 53818065
catgcctgta atcccagcat gttggaggct gaggcacgtg aatcacttga 53818015
gactaggaat ttgacaacag cctggccaac atggtgaaac cctgtctcta 53817965
ctaaaaatac aaaaattagc tggctcgtggt tgtacatgcc tgtaatcca 53817915
gctactccgg aggctgaggc aggagaatca cttgaaccct ggaggcagag 53817865
gttgcagtga gccaacatca caccagcctg gacgacacag tgagactctg 53817815
tctcataaat aaataaataa ataaatagtg ctaaaataca caaaacatga 53817765
aatttgccct ctttttcttt ttttcttga gatggaattt cactcttgtt 53817715
gcctaggctg gagtgcagtg gcgcgatctc ggctcactgc aacctctgcc 53817665
tcatgggttc aagcaattat cctgcctcag cctcccaagt agctgggatt 53817615
acaggcatct gccaccacgc ccagctaatt tttgtatatt tagtagagat 53817565
ggggtttctc catgttggtc agactggtct tgaactcctg acctcaggta 53817515
atccaccac cttggcctcc caaagtgcag ggattacagg catgagccac 53817465
cgcgcccagc ctctcttaa ccactttttc tttcttgaga tggagtctcg 53817415
ctccgtcacc aggctggagt gcaatgatgc gatgtcagca cacttcaacc 53817365
tctgactccc tggttcaagc gattctcctg cctcagcctc ccgagtagct 53817315
gggattacag gcacgcgcca ccatgcctgg ctcatTTTTG tatttttaat 53817265
agagacaagg tttcaccacg ttggttaaggc tagtctttaa ctctgacat 53817215

caggtaatcc cacctgcctc ggcctcccaa attgctggga ctacaggtgc 53817165
ctgccacccat gccagctaa tttttttttg tatttttagt agagacgggg 53817115
tttcaccgtg ttaccagga tggctcctgat ctctgacct tgtgatccac 53817065
ccgccttggc ctcccaaagt gctgggatta caggcgtgag ccaccgcgcc 53817015
ctggccctct taaccatttt taagtgtgct gctgagtgtt gtacatttac 53816965
actgatgtgc attcaatctg cagaactctt catcttgcaa acaaaactcg 53816915
ataccatta aacaattccc tattttcccc tttcctctca atgataacct 53816865
tctccaatta aaaatttttg agtggccggg tgcahtagct cacgcctgta 53816815
atcccagcac tttgggaggc cgaggcaggc agatcacctg aggtcaggag 53816765
ttcaagacca gcctggccaa catggtcaaa ccgcatctct actaaaaata 53816715
caaaaattat ttttttgat ttttaccacc acctgctgg tcatgggtgc 53816665
ctgtagtccc agctactcgg gagactgagg caggagaatc acttaaacct 53816615
gggaggtgaa gattgtagtg agccgagatc gcgccactgc actccagcct 53816565
gggcgacaga gcgagactgt ctcaaataaa taaaaataaa taaataaaat 53816515
ggtgccagat gactgaatct accagagcca gcactgaaca gaggaaagac 53816465
aacagtttat tagtcacaca gactcacagg gaaggtgtcc ccatatgcca 53816415
agagggtcac atgaagctac agagactgtt ggggggggcg ggctgtgtag 53816365
taacaagagg gtggggtgcc tcctggctcc ttcaaaagga tgttctttgc 53816315
tttcatgaat catttcatgg actagcaacc agcagggagg tgaaaactta 53816265
tcagagttag gaccagatgg ggtgccgctg gctcagctga tgggagaact 53816215
agccaggtgg gaagactttc tcatggagtg agagcaaagg aactcacact 53816165
taggactttg gggggccttc tgaggaccaa agatgccaaag gaaggactcg 53816115
atgtgtagaa tcttatgata tatccaaacg aaggcctttt ttgggctggg 53816065
cacgatggcc catacacta tttccaacac ttcaagaggc caaggtcgaa 53816015
agactgcttg aagctaggag ttccagacca gcctgggtaa catactgaga 53815965
cctaactctct accaaaaaaaa aaaaaaaaaa ttaaaatatt ttaagagac 53815915
agagtcgcca ggcgcagtgg ctcacgcctg taatcccagc actttgggag 53815865
cccgagttgg gtggatcacg aggtcaggag ttcaagacca gcctgacca 53815815

catggtgaaa ccctgtctct actaaaaata caaaataaat tatccgggcg 53815765
tggtgacaca tgcctgtagt cccagctact caggaggctg aggcaggaga 53815715
atcacttgaa cccgggaggc agaggttgca gtgagccaag attgtgccac 53815665
tgactccag cctgggcaac agagccagac tccgtctcga aaagaaaaaa 53815615
gaaaagataa tggatgagat gtggcccaga gctgacaagg gaggagtcca 53815565
gactgactca gaacttccca gtcaaaaaga ttggttgggtg ccagggtgcag 53815515
tggctcacat ctgtaaacc agcactttgg gaggccaagg cagggtggatc 53815465
acaaggtcag gagttcaaga ccagcctggc caacatagtg aaaccccgtc 53815415
tctactaaaa atacaaaaat tagccaggca ttgtggcgca cacctgtaat 53815365
gccagctact cgtgaggctg aggcaggaga atcgcttgaa ttcaggaggt 53815315
ggaggttgtg gtgagccgag atcatgccac tgcatccag cctgggcaac 53815265
agagcaagac tccgtctcaa aaaaaaaaaa aaaaaaaaaag actgattgga 53815215
tggatggagg tgccaatgac catgaggggg acccaggag gaggtgcgc 53815165
tacaaggaac aagggatgag ctatttccca cacacggcct atgcagtcac 53815115
tactgaacat tctgggggtgc gggtgaccag ggagttatgc aggcatctcg 53815065
acgtaatcgc agctaatatg acgcgggtgct actagccaga tgcgtgctag 53815015
ctcatcttcc acaatttctc ttccagATAC CCCACCTGGT GGCCCGTCCT 53814965
CACTTGGGAA CCAGTCAACA TGCCTTCTGG AAGTCTCTCT TGTCACTCCA 53814915
AGAAAAGgtg agcctcaagc catgtaccta catgtattca tctacacaga 53814865
gcagctgacc ccacggagtg taggccaacc acaaacgcgt gattgaggaa 53814815
ttcgtggggt ggattaatga caccatcaaa ggggcagttt cctcctgtgt 53814765
ttcaactcat caaccttcc acgtcagcat tttgtcctga cacgtgtcat 53814715
ctcctggctg aaagatggct accaaacct ctcatcacg caggggcaac 53814665
aaggaaggct aagaggccag gtacagtggc tcacgcctgt aatcccagca 53814615
ctttgggagg ccaaagcggg cagatcacct gaggtcagga gttcaagacc 53814565
agcccggaca acatggcaaa acccgtctc tactaaaaat acaaaattag 53814515
caggtgtggg tggagcatac ctgtagtccc agctactcag aggctgaggc 53814465
agaagaatca cttgaacctg ggaggtagag gttgcagtga gccaaagattg 53814415

caccactgca ctccagcctg ggcaacagag tgagactcca tctcttaaaa 53814365
aaaaagcaaa gaaaggaagg gtaaaggcct tcttcctccc tgttaccagt 53814315
cacatccacg taaccctactg gtcagtactg gggaatctgc ccattctcag 53814265
agcaaccact gacagagggg aacgagggta ctcatgactg atttagcaaa 53814215
accataattc atcctctgag gcttgtgaag gggcaggatt caccactcac 53814165
tcgagtcatg aatcagcatc caccaaccaa acagaatcag gtttgctggc 53814115
aggggaagaaa ccgggggtaca gtctgctggg tagacagcaa cactgttaac 53814065
aatgccacaa atgtttctgg ctatTTTTTT caaggggagc atgaaatgaa 53814015
tctagtctcc agctctacta aagtagaata agagtgggtt caccagctga 53813965
gcaagggtggc tcacgcctgt aatccctgca ctttgggagg ccaggctctg 53813915
agaccagcct gggcaacaag caagacccca tctctacaaa aaaaaacaaa 53813865
aaatcgaaca ttagctgggc atggaaactt gtgcctgtag atccagctac 53813815
tcaggaggct gaggtgggag gattagttga gcccaggagg ttgaagttgc 53813765
agtgagccaa ggtcacgcca ctgcactcca gcctgggggg agtgagaaag 53813715
accctgtctc aaaaaaaaaag gcgggagagg ggtacaaata ttgtatgatt 53813665
ccacttatct aaggcaccta gagtagtcaa attcagaggc ggaaagtaga 53813615
acagcagttg ccacgcccgg catggtggct cacgcctgta atcccagcac 53813565
tttagggaggc tcaggcgggc agatcatgag gtcaggagat cgagaccatc 53813515
ctggctaaca cggtgaaacc ttgtctctac taaaaataca aaaaaattag 53813465
ccaggcgtgg tggcaggcac ctgtagtctg agctacttgg gaggctgagg 53813415
caggagaatg gtgtgagcct gggaggcgga gcttgcahta agccgaatcg 53813365
tgccgccgca ctccagccca ggtgacagag caagactctg tctcaaaaaa 53813315
aaaaaaaaaa aaaaagaaaa gaaaaaaaaa aaagaatagc agttgccagg 53813265
gagaggagaa attatgagtt aatatttaat ggatatggag tttctgttta 53813215
gaatgctgaa agcattctgg aaatagacat tggcggccag gcacagtggc 53813165
tcacgtctgt aattccagca ctttgagagg ccgaggcggg cagatcactt 53813115
gaggtcagga gttcgaacc agcctggcca acatggtgaa actccgtctc 53813065
tactaaaaat acaaaaaatca gctgggtgtg gtggcgagca cctgtaaadc 53813015

gagttactca ggagactgag gcaggagaat cacttgagcc tgggaggcgg 53812965
agtttgcagt gagcctagat catgccactg cactccagcc tgggggacag 53812915
agcaacactc tgtctcaaaa aaaaaaaaaa aaagagatat tgatgattgc 53812865
acaacatcgt gaacttagtg tcacagagtt gtacgcttta aagtggtaa 53812815
aatggtaaat tttatgtgta tgtcactata attaaaagta cacatatttg 53812765
ttttgaaaat tttagtatca aactcagatt ctttttttta agcttctctc 53812715
aggcagctat catgggcctc tgctggcatc caataccaag ggatgcattt 53812665
gtatccagac cagggtttct ccacattggc actgttggca tttcggggcc 53812615
agagcgttct ttgctatggg gtcgtcctgt ggttcctggg atgttgagca 53812565
gcacctctgg cctctatcca ctatgtggca gtagtacttt cccagttgta 53812515
acaaccaacc cacttgctcc gttgccaaat gtcccctggg gaactagggg 53812465
acacagtcac cccaattaag aacattgttc tagatTTTTT tttttttttt 53812415
ttgaggcaga gtctcacgct gtcgcccagg ctggagtgca gtggggcgat 53812365
ctcttacagg tgtgagccac tgcacttagc ccagggactg catttctaac 53812315
aagattgctg catgatatgt atgcgtctta aagttggaga agcacagcca 53812265
ggcatggtgg ttcatgcctg taatctcagc attttgctgg gctcaggcag 53812215
gaggattgtt tgaggctagt agttgtagac cagcctggat aacacagcaa 53812165
gaccctgtct gtactgaaaa aaaaaaaaaag tttgagaagc actgctccca 53812115
agttttctgt gcccccttg ttttctcttt cttttgtttt tatagagaca 53812065
gggtctcact atgttgctcc ggctggtctc aaactcctga gttcaggcga 53812015
tcctcccacc tggacctccc aaagtgtctg gattacaggc gtgagccacc 53811965
gcacctggct tgtgccccct ttgaaaaaag gcagattcat gtctgcacta 53811915
tctggtaatg tacccttct ataaatcctt tgctgaaagt cactttgtgg 53811865
ggctggacac agtggctcat gcctctaadc ctagcacttt ggaaggccga 53811815
ggtgggcaga tcatgaggtc aagagatcga gaccatcctg gccaacatag 53811765
tgaaaccccg tctctactaa aaatacaaaa attagccagg cctggtggca 53811715
tgtgcctgta atcccagcta ctcgggaggc tgagactgga gaatcacttg 53811665
aaccaggag gtggatgtg caggagcac accattgcac tccaagctgg 53811615

gcaacagagc gagactccat ctaaaaaaaaa aaaaaattag ccagtcttat 53811565
aacctagtct caaaaacaaat aaattatttt aattaaaaaa aattttttttt 53811515
tgagatggag tctggctctg ttgcccaggc tagagtgcag tggtgcgatc 53811465
tcagctcact gcaacctcca cctcaggggt tcaagtgatt ctcccatctc 53811415
agcctcctga gtagctggaa ctacaggcac acaccttctt tgagccacat 53811365
gaggagcgcct ttacctcgtg aactcattag aggctgctga tgagtcttcc 53811315 [c.371-43C>T](#)
acaaaacctt cattcctctc ccctagATCC [CCAGGAAACC](#) [TACAGGGACT](#) 53811265 [Q126X](#)
[ATGTCCGCAG](#) [GAAATCCCG](#) [CTCATGGAAG](#) [ACCGCAATGC](#) [GCGCCTAGGG](#) 53811215 [D142N](#) [N144S](#) [R146H](#)
[GAATGTGTCA](#) [ACCTCAGCCA](#) [CCGGTACACC](#) [CGGCTCCTGC](#) [TGGTGAAGGA](#) 53811165
[GCACTCAAAC](#) [CCCATGCAGG](#) [TCCAGCAGCA](#) [GCTTCTGGAC](#) [ACAGGC](#)[CGGG](#) 53811115 [T179I](#) [R181W](#)
[GACACGCGAG](#) [GACCGTGGGA](#) [CACCAGGCTA](#) [GCCCCATCAA](#) [GATAGAGACC](#) 53811065
[CTCTTTGAGC](#) [CAGA](#)[CGAGGA](#) [GCGCCCCGAG](#) [CCAC](#)[CGCGCA](#) [CCGTGGTCAT](#) 53811015 [D203D](#) [P210L](#)
[GCAAGGC](#)[GCG](#) [GCAGGGATAG](#) [GCAAGTCCAT](#) [GCTGGCACAC](#) [AAGGTGATGC](#) 53810965 [A218T](#)
[TGGACTGGGC](#) [GGACGGGAAG](#) [CTCTTCCAAG](#) [GCAGATTTGA](#) [TTATCTCTTC](#) 53810915
[TACATCAA](#)[CT](#) [GCAGGGAGAT](#) [GAACCAGAGT](#) [GCCA](#)[CGGAAT](#) [GCAGCATGCA](#) 53810865 [N251K](#) [T260M](#)
[AGACCTCATC](#) [TTCAGCTGCT](#) [GGCC](#)[TGAGCC](#) [CAGCGCGCCT](#) [CTCCAGGAGC](#) 53810815 [P273P](#)
[TCATC](#)[CGAGT](#) [TC](#)[CGAGCGC](#) [CTCCTTTTCA](#) [TCATCGA](#)[CGG](#) [CTTCGATGAG](#) 53810765 [R284X](#) [P286L](#) [D294E](#) [G295fs](#)
[CTCAAGCCTT](#) [CTTTC](#)[CACGA](#) [TCCTCAGGGA](#) [CCCTGGTGCC](#) [TCTGCTGGGA](#) 53810715 [H304Y](#)
[GGAGAAACGG](#) [CC](#)[CACGGAGC](#) [TGCTTCTTAA](#) [CAGCTTAATT](#) [CG](#)[GAAGAAGC](#) 53810665 [P319R](#) [R329Q](#)
[TGCTCCCTGA](#) [GCTATCTTTG](#) [CTCATCA](#)[CCA](#) [CAC](#)[GCCCCAC](#) [GGCTTTGGAG](#) 53810615 [T341I](#) [R343Q](#)
[AAGCTCCAC](#)[C](#) [GTC](#)[TGTGGA](#) [GCACCCAGG](#) [CATGTGAGA](#) [TCCTGGGCTT](#) 53810565 [R352C](#)
[CTCTGAGGCA](#) [GAAA](#)[GGAAGG](#) [AATACTTCTA](#) [CAAGTATTTT](#) [CACAAATGCAG](#) 53810515 [c.1109G>A](#) [K371Nfs*20](#)
[AGCAGGCGGG](#) [CCAAGTCTTC](#) [AATTACGTGA](#) [GGGACAACGA](#) [GCCTCTCTTC](#) 53810465
[ACCATGTGCT](#) [T](#)[CGTCC](#)[CCCT](#) [GGTGTGCT](#)[GG](#) [GTGGTGTGTA](#) [CCTGCCTCCA](#) 53810415 [F402L](#) [P404L](#) [W408*](#)
[GCAGCAGCTG](#) [GAGGGTGGGG](#) [GGCTGTTGAG](#) [ACAGACGTCC](#) [AGGACCACCA](#) 53810365
[CTGCAGTGTA](#) [CATGCTCTAC](#) [C](#)[TGCTGAGTC](#) [TGATGCAACC](#) [CAAGCCGG](#)[GG](#) 53810315 [L439Q](#) [G448A](#)
[GCCCCGCGCC](#) [TCCAGCCCCC](#) [ACCCAACCAG](#) [AGAGGGTTGT](#) [GCTCCTTGGC](#) 53810265
[GGCAGATGGG](#) [CTCTGGAATC](#) [AGAAAATCCT](#) [ATTTGAGGAG](#) [CAGGACCTC](#)[C](#) 53810215 [R482W](#)

GGAAGCACGG CCTAGACGGG GAAGACGTCT CTGCCTTCCT CAACATGAAC 53810165
ATCTTCCAGA AGGACATCAA CTGTGAGAGG TACTACAGCT TCATCCACTT 53810115 [E507K](#) [Y509X](#)
GAGTTTCCAG GAATTCTTTG CAGCTATGTA CTATATCCTG GACGAGGGGG 53810065 [M524I](#)
AGGGCGGGGC AGGCCAGAC CAGGACGTGA CCAGGCTGTT GACCGAGTAC 53810015 [A549T](#)
[GCGTTTTCTG](#) AAAGGAGCTT CCTGGCACTC ACCAGCCGCT TCCTGTTTGG 53809965 [L558R](#)
ACTCCTGAAC GAGGAGACCA GGAGCCACCT GGAGAAGAGT CTCTGCTGGA 53809915 [T571S](#) [S578G](#) [W581X](#)
AGGTCTCGCC GCACATCAAG ATGGACCTGT TGCAGTGGAT CCAAAGCAA 53809865 [H586Y](#) [L591M](#)
GCTCAGAGCG ACGGCTCCAC CCTGCAGCAG GGCTCCTTGG AGTTCTTCAG 53809815
CTGCTTGATC GAGATCCAGG AGGAGGAGTT TATCCAGCAG GCCTGAGCC 53809765 [A629D](#)
ACTTCCAGGT GATCGTGGTC AGCAACAATG CCTCCAAGAT GGAGCACATG 53809715 [I641T](#)
GTCTCCTCGT TCTGTCTGAA GCGCTGCAGG AGCGCCAGG TGCTGCACTT 53809665 [S651*](#)
GTATGGCGCC ACCTACAGCG CGGACGGGGA AGACCGCGCG AGGTGCTCCG 53809615
[CAGGAGCGCA](#) CACGCTGTTG GTGCAGCTGL aagtatccct ggggtatccc 53809565 [G683R](#) [c.2072+3insT](#)
ctggggctgc ttaggttcgt gtgttttttt tttttttttt tttttttgct 53809515
ctgttgcccta ggctggagta cactggcgtg acctcagctc actgcaacct 53809465
ccgcctcccg ggttcaagag attctcctgc ttcagcctcc caagtagctg 53809415
ggactacagg tgcacgccac cacgccacc taatttttgt atttttagta 53809365
gagacagggg ttcacatgt tggccagggg ggtctcgatc tcttgacctc 53809315
gtgatctgcc cgccttgcc tcccaaagtg ctgggattac aggcattgagc 53809265
cactgcaccc ggcccacgat tttttttttt tttttttttt aaactaagtc 53809215
tctcttggtc tcctaggctg gtgtgcagtg gcgcaatctt ggctcactgc 53809165
agcctctgcc tcccgggttc aagcgattct cctgcctcag cctcctgagt 53809115
agctgggatt acaggtgccc atcacatgc caggataatt tttgtatttt 53809065
tagtggagat ggggtttcgc tgtgttagcc aggctggtct tgaactcctg 53809015
acctcaagtg atccaccac cttggccttg aggttcatgc tcttaaccag 53808965
tgcctctcag ctgggggtga ttttgctctg acatttggcg atgtttggag 53808915
acacgttttt ggtggtcaca actgggaagc aaataaact actgacatct 53808865
agtggataaa ggccgggaat gctgcaaaca tcctacagta cacaggacag 53808815

tccctctggc cccaaagtgt caatagtgcc acaaagacta aacaacaccc 53808765
attgggacta aattgaggtc gatgtctggg agaatttatt caatcaacaa 53808715
atattactaa gtcccttttt cttgagagag tgtggctctg tcaccaaggc 53808665
tggagtgcag gggcacaatc tcagctcact gcaacctcca ccttgcgtgt 53808615
ctcagcctcc tgagcagctg ggaccacagg agtgtgccac cacaccaggc 53808565
taatttttgt atttttttag tagagatggg gtgtcaccat gttggccagg 53808515
ctggtctcaa actctcggcc tcagcctccc aaagtgtctg gattataggt 53808465
gtgagccacc acaccagcc tctatatccc ttttatcggg ggaccaaca 53808415
atcttctgta gacagaagac tgtgtgaata agccaatggt cccaagagag 53808365
cacgcatcct aatgagaacg gagacagata ataaagaggg aaacaagtaa 53808315
accaactatc aatgattagg agcgtcagat agagccagggt gcagcctgga 53808265
caacatgatg agatccccat ctctaaaaat ataaaataaa ttagctggtc 53808215
atgatggtgc acacctgtag cccagcttc tcagtaggct gaggtgggag 53808165
gattgcttaa gcctgggagg tcaagcctac agtgagccat gatctacca 53808115
tgcactccag cctagacaac agggcaaggc cctctaaaaa aaaaaatgaa 53808065
aagatagcat gctttggccg gatgtggtgg ctcacgcctg taatcccagc 53808015
acttcaggag gttgaggcgg gcagatcacc tgaggtcagg agtacgagat 53807965
cagcctggcc aacacggtga aaccccatct ctactaaaaa tacaaaatta 53807915
actgggcgtg gtggctcatg cctgtaatcc cagctactct ggaggctgag 53807865
gcaggagaat cgcttgaacc caggaggcgg aggttgtggt gagctgagat 53807815
tgcgccattg cactccagcc tgggcaacaa gagcgaaact ccgtctcaa 53807765
aaaggatagc atgcttcata aacggtgaaa tgacatgcaa aggccatagt 53807715
tgtcaagcac cagtaacacc agagagtggc ctgtctttcc ttcaagcagA 53807665
CCAGAGAGGA CCGTTCTGCT GGACGCCTAC AGTGAACATC TGGCAGCGGC 53807615
CCTGTGCACC AATCCAAACC TGATAGAGCT GTCTCTGTAC CGAAATGCC 53807565 [L710P](#) [N712S](#)
TGGGCAGCCG GGGGGTAAAG CTGCTCTGTC AAGGACTCAG ACACCCCAAC 53807515 [G730R](#) [V730Glyfs*41](#) [K731Q](#) [N241S](#)
TGCAAACTTTC AGAACCTGAG gtgagtgcag gctggtctgg gcgtttcagg 53807465
tggtcccccac cgtggcctct catggggatc agtcacaaag gttctatcac 53807415 [c.2243+35C>T](#)

gggatggtgt attcgttggc tacggctgcc ataaaaaagt gtcacaaagc 53807365
caggtgccgt ggctcacgtc tgtaatccca gtatgttgac aggtgaaggc 53807315
gggcagatca cttgaggtca ggagtttgag accagcctgg ccaacatggc 53807265
aaaatgccat ctctacaaaa aatacaaaaa tcaggaggggt gtggtggcgg 53807215
gcgccctgtaa tcccagctgc ttgggaggct gaggcaggag aatcgcttga 53807165
acctgggagg cggaggttgc agtgagccgg gattgtgcca ctgcactcca 53807115
gcctgggtga tacggtgaga ctccatctca ggggggaaaa aagtgccaaa 53807065
gactgggtgg cttcaccaca taaatctatt ttctcaaggc aggtgggggg 53807015
ctgctggaag tccaagacaa ggagtgggca ggtaagttc ttctgaggcc 53806965
tctgtcctgg gcctgcagat cactgccttc tgtcttcaca tggatcatcct 53806915
gctgtgtggg tctccaaatt ttttctttt ttttactttt tttttttta 53806865
aatTTTTgag aactgatat gctctgtcac ccaggctgga gtgcagtggc 53806815
acaatcatgg ctactgcag cccaaactc ctggactcaa gcgatcctct 53806765
tgctccagca tcacgagtag ctgggaaac aagcatgtgc aaccacacc 53806715
ggctaatttc tttttttttt tttttttttt tttttgagac ggagtcttgc 53806665
tttgtcacca ggctggagtg cagtagcgtg atctcggctc actgcaacct 53806615
ctgcctcctg ggttcaagcg attctcctgc ctccggcctcc tgagtagctg 53806565
ggactacagg caggtgccac catgccagc taattttttg tatttttagt 53806515
agagacgggg tttcaccata ttagccagga tggctctcaat ctctaacctc 53806465
gtgatccacc cacctcggcc tcccaaagtg ctgggattac agactgagcc 53806415
accgtgccca gccacaccag gctaattttt gtatgttttg gagagatggg 53806365
gtttcaccat gctgcccata ctggtctcaa acttctggcc tcaagtgatc 53806315
ctccttcctc agcctcccta actgttgaga ttacaggtgt gagccactgt 53806265
gcctagccaa atttttttca tatgttattt tttgagatag tattgctctg 53806215
tagcctgggc tggagtgcag tgacatgatc tcgactcact gcaacctccg 53806165
cctcctgagt tcaagcaatt ctctgcctc agcctcctga ttagctggga 53806115
ttacaggggt gcatcaccac acccagctaa tttttgtgtt tatagtagaa 53806065
atggggtttc actgtgttgg ccaggctggt cataaactcc tgacctcagg 53806015

tgatccaccc acctcggcct cccaaagtgc tgagattaca ggcttgagcc 53805965
accgcacatg gccttgaatt tctttaaggg caacctttgt gaatgtattt 53805915
gactacaaag catcaaaaca ttttatattg ttcttggtgc ttttcttgac 53805865
aggtaaaatt tatcatatat aacatgatat tttgaaataa atatattggc 53805815
caggtatgat ggctcacgcc tgtaattcca gcactttggg aggcccagat 53805765
ggggaggatc acttgacca ggagttcaag accagcctgg ccaacatggt 53805715
gaaaccccat ctctactaaa aataccaaaa tgagccaggc atggtggcac 53805665
acgtctgtaa gccagctac tcaggaggcc aaggcaggag gattgcttca 53805615
accaggagg cagaggttgt ggtaagccaa aatcatgccca ctgctctcca 53805565
gcctgggtga cagagcgact ctgtctcaga aaaaaaaaaa aaagcaaaag 53805515
aaaataatcc acaaaactgg agcaaaagaa atgaccagct ctttctcct 53805465
ctttccacc ccagGCTGAA GAGGTGCCGC ATCTCCAGCT CAGCCTGCGA 53805415 [R753H](#)
GGACCTCTCT GCAGCTCTCA TAGCCAATAA GAATTTGACA AGGATGGATC 53805365
TCAGTGGCAA CGCGTTGGA TTCCAGGCA TGATGCTGCT TTGCGAGGGC 53805315 [G787V](#)
CTGCGGCATC CCCAGTGCAG GCTGCAGATG ATTCAgtgag tctctatccc 53805265 [Q798Q](#)
cgggagcaac ttcttaagct cattgtctcc tggggcatga aatatcacia 53805215
aatgctggta atccccaaat ctccacctt aaatcagggc tggcccttaa 53805165
ccccatgacc taagaccctg gccctggact ctaggcactt tgggaagacct 53805115
gcttctgccc tcctctgact ccacactcaa ttctacatga tgaagagtcc 53805065
ctggggccat cccccacctc ttcttttttt ctcccagac ggggtcttgc 53805015
tatgttgccc aagttggggg gcagtgccac aatctcggct cactgcaacc 53804965
cccacttctc gcgttcaagt gattctcctg cctcaggctc ccaagtagct 53804915
gggattacag gcaccacca ccacaccag ctaacttttt tgtattttta 53804865
gtagagatgg ggtttcctca cgttggccag gctggtcttg aactcctgac 53804815
ctcaaatgat ccaccacct tggcctccca aagtgctgga attacaggtg 53804765
tgagccactg cactcgacct acaaaaattt ttttttttta attagccagg 53804715
tatgggcccag gagcgtggt tcacgtctat aatcccagca ctttgggagg 53804665
ccaaggcagg cggatcacct gaggtcagga gttcgagacc agcctggcca 53804615

acacggagaa acacccccgtc tctactaaaa atgcaaaaact tagctgggcg 53804565
tggtggcaca cacctgtagc ccagcctgta gtcccagcta ctcgagactg 53804515
aggatgaaa atcacttgaa cccaggaggt ggaggttgcg gtgaggcaag 53804465
atcacgccac tgtactccag cctgggtgac agaatgaggt tctacctcaa 53804415
aaaaaaaaaa aaacaaaaaa acccaaaaaa aacaaaaaac aaacaaacaa 53804365
aaaaaattag gcaggtgtgg tggtgcacac atgtattccc agttactcag 53804315
gaggctgagg caggaggatc acgggagcct ggaggtcgag gcttcagcga 53804265
gttgatatca ctccactgaa cttcacctcg ggtgacagag caacaacctg 53804215
ttcctaaata ataaaataac aggctggagc atgagtgatc acgacataga 53804165
aaagcaagat ggcgtcccct tcaacctctc cttcctccca agGTTGAGGA 53804115
AGTGTCAGCT GGAGTCCGGG GCTTGTCCAGG AGATGGCTTC TGTGCTCGGC 53804065 L823L(C>A) L823L(C>T)
ACCAACCCAC ATCTGGTTGA GTTGGACCTG ACAGGAAATG CACTGGAGGA 53804015 A121T E840Q
TTTGGGCCTG AGGTTACTAT GCCAGGGACT GAGGCACCCA GTCTGCAGAC 53803965
TACGGACTTT GTGgtgagtt cttcctgggg tcaactataa taaaatggca 53803915
aatctcttca tattgaatga tggataaaaa atgcatccac aggtcgggcg 53803865
cagtggctca cgctgtaat cccggcactt tgggaggcca aagagggcag 53803815
atcatctgag gtcaggagtt cgagaccagc ctggccaaca cggtgaaacc 53803765
ccctctctac taaagataca aaaattagct ggatgtggtg gcacacgcct 53803715
gtaatcacag ctactcaggg ggctgaggca ggaggatcac ttgaacctga 53803665
gaggcggaag ttgcagtgag ctgagatcac gtcactgcac tccagccacg 53803615
gtgacagagt gagactccat ctcaaaaaac aaagtagaat agtggctgcc 53803565
aaggcctaga acaggaagaa atggggagtt accgtttaac gggagcagag 53803515
gttccatttc ggaagatgaa aaagttccag agatgggccc ggtgcggtag 53803465
ttcacgcctg taatcccagc actttgggag gccgaggtgg gcagatcacc 53803415
tgaggctctgg agttcgagac cagcctgacc aacatggaga agccccgtct 53803365
ctactaaaat acaaaattag ccaggcgtgg tggcacatgc ctataatccc 53803315
aactactcgg gaggctgagg caggagaatc acttgaactt gggaggcggga 53803265
ggttggtggtg agccaacact gtgtcattgc actccagcct ggacaacaaa 53803215

aacgaaactc cgtctcaaaa aaaaaaaaaag ttccagagat ggatagcagt 53803165
gatgatttcc cagtagcgtg aaactacttc atgccactga gccacagtca 53803115
gccctctgtg tccacgggtt ctgcattcgt gaatttcatc aaccatggat 53803065
caaaaatatt cagaagggca gggcgcgggtg gctcacagct gtaatcacia 53803015
ccctctggaa ggccaaggca ggagaatggc ttgagtgcag gagctcaaga 53802965
gcagcctggg aaccagtgag acttcatctc tacaaaaaat aaacataatt 53802915
agctgggggtg ggtgggatgt gtctggagtc ccagctattc aggagcctcg 53802865
gaggccaagg ctgcagtgag ctgtgatcaa gccactgtac cccagactgg 53802815
gtgacagggg gagaccctgt ccctaataaa ataaaaagta aatttaattg 53802765
tggtaaaata catgcaacat aaaatgtacc atcttccccca gttttctttt 53802715
ttttttttga gacagagtct tgctctgtcg cccaggctgg agtgcagtgg 53802665
tgtgatctct gctcactgca agctccgcct cccgggttca caccattctc 53802615
ctgcctcgac ctccctagta gctgggacta caggcgcctg ccaccacgct 53802565
tggctaattt tttgtatttt tagtagagac ggggtttcac cgtgttagcc 53802515
aggatggtct cgatctcctg acctcgtgac ccgccccgct cagccccga 53802465
aagtgctggg attacaggcg tgagccacca tgccccggccg cattctattt 53802415
atttttaata gtaggcatcc taatgggtat gagatgctat cttatcgtgg 53802365
ttttcatttg tatttccccca atgattattg agattgagca tcttttcagg 53802315
tgcttttttg ccatttgtac accttccttg aagaaatgtg tattcaagcc 53802265
ttttgctcat ttatttttat ttattattta tttatttgag atggagttcc 53802215
actcttggtg cccaggctgg agtgcaatgg cgtgatctca gctcacggca 53802165
acctccgcct cctgggttca agtgattctc ctgcctcagc ctcccaagta 53802115
gctgggatta caggcatgcg ccaccacgcc cagctaattt tttgtattta 53802065
gtagagacgg ggtttcacca tgtagccag gatggtctcc atctcccaac 53802015
ctcaggtgat ccaccatct cagcctcccc aagtgcctgag attacaggca 53801965
tgagccactg tgcccagtct aattttgtat tattagtaga gagggggttt 53801915
ctccatggtg gtcaggctgg tctcaaaactc ccgacctcag gtgatctgcc 53801865
agcctcggcc tcccaaagtg ctgggattac aggcgtgagc caccaggccg 53801815

ggcccttttg cccattttta aattagattg tctgaaaatg cactactggt 53801765
aagattgggg gcctagggcg agtggctcac gcctgtaatt ccagtccttt 53801715
gggaggctga ggcaggcata tcacccatgg tcaggagttc gagaccaccc 53801665
tagccaacat ggcgagaaac cctgtctcta ctaaaaatac aaaaactaac 53801615
taggcgtgat gccacacgct tgtagtccca gcgattcagg aggctgaggc 53801565
aggagaatcg cttgaacatg ggaggaggag gatgcagctg agccgagatt 53801515
gcaccactgc attccagcct gggcaacaga gtgggactct gtctcaaaaa 53801465
aaaaaaaaaa aaaaaagaaa aagaaaggaa agcctccata atgcttggtg 53801415
aattggactt tgtgcagGCT GAAGATCTGC CGCCTCACTG CTGCTGCCTG 53801365
TGACGAGCTG GCCTCAACTC TCAGTGTGAA CCAGAGCCTG AGAGAGCTGG 53801315
ACCTGAGCCT GAATGAGCTG GGGGACCTCG GGGTGCTGCT GCTGTGTGAG 53801265 [V901L](#)
GGCCTCAGGC ATCCCACGTG CAAGCTCCAG ACCCTGCGgt gagtcccgtt 53801215 [L918L](#) [2756+2T>A](#)
ttgctcacca cgctaggagt cccaatccat gaacgcagcc ctctcacctg 53801165
ggaccacgga ggccaggttg tctctgctcc taaactctag ctactacatc 53801115
agcctttttt tttttttttt gagactccca agtagctgag attacaggcg 53801065
cccgccacca agcccagcta attttttgta ttttttagtag agacaggggt 53801015
tcatcatggt agcaggatgg tctcgatcta ctgacctcat gatctgcctg 53800965
ccttggcctc ccaaagtgct gggattacag gcttgagcca ctgcacccag 53800915
cctacatcag ccttttttaa aggatttttc tggccgggca tggaggctga 53800865
caccttaatt ccagcacttt tgggaggccg aggtgggagg atcacctgag 53800815
gtggggaatt cgagaccagc ctgaccaaca tgtagaaaca ccccatctgt 53800765
actaaaaata caaaagtagc caggcatggt ggtgcatgcc tataatgcca 53800715
gctactcgcg aggctgaggc aggagaatcc gttgaacccg ggagggtgaa 53800665
gttgctgtga gctgagatgg agccattgca ctccagtctg ggcaacaaga 53800615
gcgaaactcc gtctcaaaaa aaaaaagggt gggggttttc tgacgcacgg 53800565
ccctttgcac aagcaattct tattccctgg catgccttct gctctctgtc 53800515
ccctctttgc ctggagaagt tcaatttttc ttctgaacac tctttacttt 53800465
gtattttgag acagggtctt gctctgtcac cagtgtgga gtggagtgg 53800415

gtgatcatag cccgacatcc tgggctgaag ccatcctccc aactcagcct 53800365
cctgagtagc tgggactgca agcgcagtc accacagatg gctaattttt 53800315
actttttttt tgagacgagt cttgccctgt cgcccaggct ggagtgcggt 53800265
ggcgcgatct cagcttactg cgagctccac ctcccgggtt cacaccattc 53800215
tcctgcctca gcctcccag tagctgggac taaagggtgcc cgccaccatg 53800165
cccggctaatt ttttaaaaac attttttttag tagagatggg gtttcaccgt 53800115
gttagccagg atggtctctc tctcctgacc tcatgatcca cctgcctcgg 53800065
cctcccaaag tgctgggatt acaggcgtga gccactgctc ctggccaatt 53800015
tttatttatt ttttgtaggg acaaggtctc gatttggtgc ctaggctggt 53799965
gtcaaactcc tggccttagg agatcctctg gccttggcct tccaaagtgc 53799915
tgggattaca ggtgtgacct actacacca gctggacacc ctttctaatac 53799865
cctagctaaa atctgggttc ctagatttat gatcctatgt gacctcatac 53799815
ttccccctca gcatcattta ttgaaatctg aaggcaggat gcggtggctc 53799765
acacctgtaa tcttagcact ttgggaggcc aagggtgggag aatgacctga 53799715
ggtcaggagt tcaagactag cctggccaac atggtgaaac cccgtctcta 53799665
ctaaaaatat aaaaattagc caggcatggt ggcggacgcc tgatatccag 53799615
gtactcagga ggctgaggca gaagaattgc ttgaaccgg gagccggagg 53799565
ttgcagttag ctgagatttt gccactgcac tccagcctgg atgacagagc 53799515
gagattccat ctcaaaaaaa aaaaagaaaa atttgtaatt tgtgtatatg 53799465
tgtgtgtggt ggcatccac aagcatagga gctatgcca ctgtatctcc 53799415
tagtgactag tataagacgt gggtagaagt gctcaaaaaa cacactttgt 53799365
gtattttttt tatcaaggca ccagcaaaaa acaaaaaaca aaaaatcaca 53799315
cacgcggctg ggcgcgggtg ctcatgcctg taaaccagc actttgggag 53799265
gctgaggcgg gtggatcacg aggtcaagag atggagacca tcctggccaa 53799215
ctggtgaaac cccgtctcta ctaaaaatac aaaaattagc tgggcgtggt 53799165
ggtgtgcacc tgtagtcaca gctactcagg aggctgaggc agaagaatca 53799115
cttgaacca ggaggcggag gttgcagtga gccaagatca cgccactgca 53799065
ctccagcctg ggcgacattg caagactctg tctcaaaaaa aaaaaaaaaa 53799015

aaaatttgta gataggaggc tgaggcgggt ggatcaccta aggtcaggag 53798965
ttcgaaacca gcctgaccaa catggtgaaa ccccgcttgt actaaaaata 53798915
caaaaattag ccgggcatgt tgccacatgc ctgtaatccc atctacttgg 53798865
gagactgagg caggagaatc gcttgagctt gtgagggtgga ggttgacagt 53798815
agccgagatt gcaccattgc actccagcct ggacaacaag agggaaacgc 53798765
catcgcaaaa agaaaaaaaa tttttttttg tacagacaag ttattggttg 53798715
tccagactgg tcacaaactc ctgacctcaa aaaaccctcc agcctcaagc 53798665
ctcccaagat gctgggatga caggcatgag ccagggcacc tggcctgatt 53798615
cttagttgct tccttctgtt ctcttattcc tcccttcctc tcatcttcct 53798565
acttctgtcg tctttttctt tttgtctctc aagggtagag attgagtctg 53798515
tcctctgtc tgcaaccagc acagggcttg gcacagggcc ctcccagcag 53798465
atthttgcagg aggaatgcct cccactccgc cctagcatcc tgtctttgca 53798415 [c.2757-1G>T](#)
[gGTTGGGCAT](#) [CTGCCGGCTG](#) [GGCTCTGCCG](#) [CCTGTGAGGG](#) [TCTTTCTGTG](#) 53798365 [A928A](#) [A930T](#)
[GTGCTCCAGG](#) [CCAACCACAA](#) [CCTCCGGGAG](#) [CTGGACTTGA](#) [GTTTCAACGA](#) 53798315 [N940S](#) [R944R](#)
[CCTGGGAGAC](#) [TGGGCGCTGT](#) [GGTTGCTGGC](#) [TGAGGGGCTG](#) [CAACATCCCG](#) 53798265 [G957S](#) [W959*](#)
[CCTGCAGACT](#) [CCAGAACTG](#) [TGgtgagcat](#) cggggagtgga cgggggtggca 53798215
gtggtcacgt ttggacagt gaagcgcctt ctcatcctc atttttctat 53798165
ttatgaacta tcctgcttca ctacaaaaga ttcaggtagc aagaagagag 53798115
gtggaaagaa aagacaggaa gtctctctga acttattctg atttgggggt 53798065
gctacccgac ttaaaattht aaaaacttaa ggccaggcgc gatggcgcac 53798015
gcctgtaatc ccagcacttt gggaagccga ggtgggtgga tcacctgagg 53797965
tcaggagttc aagaccagcc taacacggtg aaaccctgtc tctactaaat 53797915
acaaaaaaaa tagccggggc tggtggcaca tgcctgtaat ccgagctact 53797865
tgaggaggctg agacaggaga atcgcttgta cctgggaagt agaggtttca 53797815
gtgagccgag atcatgccat tgcactccag cctgggcaac aagagtgaaa 53797765
ctctgtctca aaaaaaaaaa aaattaaaat ttaaaaatta caaaagaggc 53797715
tgggcacggt agcttaatgc ctgcaatccc agcactttgg gaggccgagg 53797665
cgggtggatc acctgaggtc aggagtccga gaccagcctg gccaaaacgg 53797615

tgaaacacca ttctacaaaa atacaaaaat taaccagtg tggtagcgca 53797565
tgcctgtaat cccagctact cgggaggttg aggcaggaga atgacttgaa 53797515
cctgggagggc gagattacag tgagctgaga tcatgccact gccctccagc 53797465
ctgggtgata gagcaagact ctgtctcaaa aataataatt caggccgggc 53797415
acagtggttc atgcctgtaa tcccagcact ttgggagtcc aaggcggaca 53797365
gatcatgagg tcaggagttt gagaccagcc tggccaacat ggccatctct 53797315
attaagaata caaaaattag cctggcgtgg tggtaggtgt ctgtaatccc 53797265
agctacacag gaggctgagg caggagaatc acttgaaccc aggagtgga 53797215
ggttgcatg agcggagatc acaccattgc actccagcct aggtgccaga 53797165
gaaagactcc atctcgagaa aaaaaataa taattcaatc tggtagctctg 53797115
taaattccaa tcaaatgtta attgtgactt tctccctcac ctttctgcca 53797065
ggccagctgt agccctaatc tgaaggactt agaatgggat gaggcatcat 53797015
ctagtttatt tgggattttt tttttttta aacagggtc tccctgtcac 53796965
cctggagtgc agtggcacga tcttggctca ctgcaacctc cacctcccgg 53796915
gttcaagcaa ttctgcctc agcctcccga gtagctggga ttacaggcat 53796865
gcgccaccac cccggctaata tttgtatttt tagtagagac ggggtttctc 53796815
atgttggtca ggctggctct gaactcccga cctcagggtga tctgcctgcc 53796765
tcggcctccc aaagtgctgg aattacaggc gtgagccacc acgcccggcc 53796715
taaccagat aattttttaa aatgtttcag aggctgggcg tagtggctca 53796665
cgcctataat cccagcactt tgggaggcca aggttggtgg atcacttgag 53796615
gtcaggagtt tgagaccagt ctggccaaca tggtagaatc ccctctccac 53796565
taaagatata aaaattacgg ccgggcacag tggctcatgc ctgtaatccc 53796515
agcactttgg gaggctgagg cgggcggatc acgaggtcaa gagattgaga 53796465
ccattctggc caacaaggtg aaaccctctc tctactaata caacaattag 53796415
ttgggtgtgg tggctctcgc ctgtagtccc agctgctggg gaggctgagg 53796365
caggagaatc acttgaaccc gggaggcaga ggttgcatg agccgagatc 53796315
atgccacagc actccagcat gggcaacaga gggagactcc atctcaaaca 53796265
aaacaaaaat aaaaggatac aaaaattagc catgctaatt ggtggtggtg 53796215

cacacctgta atcccagcta ctcaggaggc tgaggcagga gaatcgcttg 53796165
aacctgggag gcgagggttg cagtgaacag aaatctcacc actgtactcc 53796115
agcctgggag acaggggtgag aactgcctc cgaataacat aagtagcccc 53796065
tggtgttacc ttaaccaact ccttatcttc accagGCTGG ATAGCTGTGG 53796015 [D978H](#) [S979G](#)
CCTCACAGCC AAGGCTTGTG AGAATCTTTA CTTCACCCTG GGGATCAACC 53795965 [I996I](#)
AGACCTTGAC CGACCTTTAC CTGACCAACA ACGCCCTAGG GGACACAGGT 53795915 [c.3025G>T](#)
GTCGACTGC TTTGCAAGCG GCTGAGCCAT CCTGGCTGCA AACTCCGAGT 53795865 [R1016X](#) [R1030*](#)
CCTCTGgtga gggatgatga ccagttcttt ctggaggagg ctggacattg 53795815
ggctgggagc atgagggtag ataagctgga tggacaaata cgttatgcac 53795765
tggtgatgc aattaggggg catacagatg aggccacata ttagctatgt 53795715 [c.3098+99G>A](#)
catctactgg ctgtgtgacc ttggataatt tccttgtctg aggccgggcg 53795665
cggtggtca cacctataat cccagcactt tgggaggccg aggcgggtgg 53795615
atcacgaggt caggagatcg agaccatcct ggctaaaatg gcgaaacccc 53795565
gtctctaata aaaacacaaa aaattagccg ggcgtggtgg cgggcgctg 53795515
tagtcccagc tactcaggag gctgaggcag gagaatggcg tgaaccggg 53795465
aggtggagct tgcagtgacc caagatcaca cactgcact ccagcctggg 53795415
tgacagagtg agactccatc tcaaaaaaaaa aaaatttctt tgtctgttga 53795365
aggggacat cgtggctcac caattgcatt ggaggtcact gtgattcgag 53795315
tgagaatcta gaattactct gcctgggttc aaactccaat tgctttttt 53795265
ttggacagga tcttgctgtg gccaggctg gagtgagtg atgcaatcaa 53795215
agtttaggct ggggtgcagg gatggcgct gtaatcccag tactttgaca 53795165
ggctgagtta ggaaaattgc tttctttaca cacacacaca cacacacaca 53795115
cacacacgca cacaccaggt atgggtggc acacctctaa tcaaagctac 53795065
tcagggggct gaggtgggag gatcctttga gctcaggagt tcaaggctgc 53795015
agtgaacat gattacgcca ctgggtgacc cagcaggaac ttgtctcaag 53794965
aaaaaaaaagg ccaaggcagg caaatcactt gaggcagga gttcaagacc 53794915
agcctggcca acatagcaaa accacatctc tactaaaaat acaaaaactt 53794865
acggctggga gcggtggct ctatgcaaaa attagccagg catggtggca 53794815

cgtgactgta atcccagcta cttgggaggc taaggcagga gaatcgcttg 53794765
aagccaggag gcggagggtg cagtgagctg agatcatgcc actgcactct 53794715
agcctgggca acagagcaag actccatctt ggggaaagaa aaaaaaatg 53794665
gagaacatag ttgcatcttc ataaggctat gataaattat gaattggcca 53794615
ggtgtggtgg ctcacacctg taatcccagc actttgggag gccgaggtgg 53794565
gcggatcacg aggttaggag actaggacca tcctggctaa cacgggtgaa 53794515
accttgtctc tactaaaaat acaaaaaatt agccgggctg ggtggtgggc 53794465
gcctgtagtc ccagctactg gggaggctga ggaggagaa tcgcttgaac 53794415
ctgggaggtg gaggttgacg tgagctgaga ttgcaccact gcactccagc 53794365
ctgggtgaca gaatgagact gtgtctcaaa aaaaaaaaaa ttatgcagtt 53794315
aacacagctt ggggacttgc atgtagcatg tagtaagcct actttccagc 53794265
agcgttgggt ggaatttctg gaggatcatg gaattatctt accacggtag 53794215
tgcacaatag atacttaagg cttattaatt gaatgccaca gtagt_aact 53794165 [c.3099-33A>G](#)
ggaataatat caactcttgt gtccacagGT TATTTGGGAT GGACCTGAAT 53794115 [W1033*](#)
AAAATGACC ACAGTAGGTT GGCAGCGCTT CGAGTAACAA AACCTTATTT 53794065 [T1043A](#)
GGACATTTGGC TGC TGAATGG TCCTATCTGC TGGCTCTCCC CTGAGATCTG 53794015
GACAGAGGAA GATGGGAGGG TGCTCATCAC CCCCCAGCA TAATGATCAG 53793965
CCTCCTTCCT AGAGACAGAC TCATGCAGAT TGAGATCAAA AGTCCCTCTG 53793915
CTTGGGATCA AATTAATGTT TGACAGAGCT GGCCAGGCGT GGTGGCTCAT 53793865
GTATGTAATC CTAGCAC TTC GAGAGGCCGA GGCAGGTGGA TCACGAGGTC 53793815
AGGAGTTTGA GATTAGCCTG GCCAAGATGG TGAAACCCTG TCTCTACTAA 53793765
AAATAAAAAA AAATTAGCCA GGCA tgggtgg cgggcacctg tagtcccage 53793715
tactcaggag gctgaggcag gagaatcgct tgaacccggg aggtggaggt 53793665
tgcagtgagc cgagatcgcg ccactgcact ccagcctggg cgacagagtg 53793615
ggactccatc tcaaaaaaaaa aaaaaaaaaa agtttgacgg agctttaagg 53793565
gatgaccaac taagagaggt ttgatggccc ctaacaggag gggtaaactc 53793515
caacaggggc caggtgcggt gtctcacgcc tgtaaccccc gtactttcaa 53793465
aggtggaggc aagatgggtt gcttaagtct aggagttaga gaccagccta 53793415

agcaacatag caagactcca ctgttactaa ttagccaact actattaatt 53793365
agtacaatta attaccagc agtagcagca catgcctgta gtcccagcta 53793315
ctctggggac tgaggtggga agatcgcttg agcccaggag gtcgaggctg 53793265
cagtgagctg tcattgcatc actgcgcccc agcctgggca acagagggag 53793215
acggtgaaaa atggccagta ggggccctca gaggccaccc agccctgcca 53793165
agccctggct gcatcggaac atagtaatat ttgagctctg ggggtgggtgc 53793115
cactgccatc tagtggacga cactaggaat gcatgccaac atccagcaag 53793065
gaatgcacag gacaaagcac ttggtccaaa ggcaaattgt gccaaagtga 53793015
ggaaagccta ttctcaaagtc tcacaggata catggggcaa ctcagcattt 53792965
gggaagagac tggatgcaa gctaaccctc agaatgcttg ttatgccaac 53792915
agccctgatc ctcccttgct ggaggggata atgtctgaaa tcttaacgtg 53792865
gcaggcatgt caggatggcc ccctgcctgg aattcactgg gcctgcca 53792815
gaactgacac ctacaaggcc acgtgtaggc tggccataac ctattataca 53792765
ctgtgctttc aacaaaaata ccgc

NLRP12 (NC_000019.10, GRCh38) - gDNA - 2026-04-17

