



NLRP3 (NC_000001.10, GRCh37) - gDNA - 2025-12-07

tgtgccaggc tctgttttaa aggcctcacg tttagccatt cactcagtgt 247578524
tttctgacag ccttctagga taggtaccgt tatttgggtt gatgtagtgc 247578574
ttggtcaaat gcagtataat gaagggatca aggagggggc aattccaagc 247578624
aaaaccactt gttcatccat cctgagtcta ggagatttgg aagatctaaa 247578674
gaagtagcag gcaattattg tcaccctttt acaggtatga ggcacagaca 247578724
gaccagtcga tttgctgaca tcctccact gaactgggtg ctctcctttt 247578774
tcactcacc agaggctgag cgagtgcctc tcaccacca agctctgttg 247578824
aacttggtcc tttgccggtc tgtggtcctg cggccgtctc atgagctgca 247578874
gagtaggtct gtgtgtgtct ctctcaagc tactcaagct gaggctttgt 247578924
gtgcatgcct gccacatacc agccattccg tgagtgttag tggaacaggt 247578974
gagtcaatga gtcagggagt aaaatttgtg ctttaaaagt agaacatgtc 247579024
ggagagaacc tgtactgcct tccagccatc ttgctgtgag aggacagggc 247579074
atggactctg gagtttgaag gctgggtcag gtcatgctct ggattcttta 247579124
ctcactcgca tggcatgtcc ttagtttcac ttcctcact ctcagtggag 247579174
ccgttgacgc gggcagtgtc agaggcaaca tccatttagc actgccgatt 247579224
tgacccccag ccccatctca tactggcctc ccaccctgct tctgtggggg 247579274
gcctcagagg agagcaaggt gaaccccagt atggaaccga gacacgggtt 247579324
tgacaacact gttgatccca tttggaaaat ccagctatgt gattaacat 247579374
tagtctctct gcctctgctc tgatgtaagt ggagaccaca tccttctctg 247579424
cccttctggg gctgcgactg ctataaattc attgcatttc ctctctagct 247579474
GTTCCCTGAGG CTGGCATCTG Ggtaagtcca gctccgcggg gcagtgtggg 247579524
cgacaggacc gggagagcag tgggggagat tgtgttcaga gggcagaact 247579574

tgtcctgggtt aatgcactag gaatttcttc tggcgtctcc aaggttgtgc 247579624
ttcaacaaca tttctggaat gttcttttat cattatttgg gctctacgtg 247579674
tgcaagttcg tgtgtgtgta tgtggcgggg ggaagcgggg aggacagcgg 247579724
cagcaaccat agtttacacc cacgacttca gcagatttgc ccagtatccc 247579774
tcccagggga gaagatggat gggatataca gaaggaaaca aacctcctta 247579824
aagaccaaag ggacagcagat ttttgtgctg gtgttagggg ggaaggagca 247579874
cagaagaaag gcagaatcct gatgcagatg gaaggactga tggggcagga 247579924
gctgggaggg tatgcggagc taatagggct gtctggagag cagtcacctc 247579974
aggatgggca ggagctggga gggatgacgg agctaataagg gctgtctgga 247580024
gagcagtcac ctcaggatgc acagggctgg gtttgcaggg ctcaggaggc 247580074
gaggagtaga taggcaggaa tggagatggg acgggagaga tgagtgagtc 247580124
tgaggcatct tgacattgaa ctgcagtcac agaaattcca atttggagag 247580174
ctccaccgtt ttccaggctc tctgcctccc ttgagtgtta tttatggctt 247580224
taggttgagg tgctttgcca aatagagtat aatcaagga tcaaggaggg 247580274
aacaattcca aacaaagcca acttgttcat ccatccggac tctaggagat 247580324
atggaagatc taaagataca gcaggtgatt gctagttttt gtggaactca 247580374
cagtctagtt ggggaagacta tgttggtgaa tgctgcagtg atacacctgt 247580424
gataaatgct ggggaagtgt gtcttttagt catctatttt gttgtctttg 247580474
tctttgtctg actgaaacaa gtgatggaag acatggtctc atatctctgg 247580524
tcaaaatcct ggctctgttc cttcctgggt ctaaaccctc cggcaggctt 247580574
cctagtcccc ctaagactca gtttatgcat ctataaaatg gggctaggaa 247580624
taggtgcacc tcatagagct ctgtgcaggt tagatgggga aaaacatcag 247580674
tgagtgccta gcctgtggaa agctctaaat taatgtgaat tataatgata 247580724
acaattgcga attttgcaag gagacattaa aggatgtatg tttttattta 247580774
ttttatttta ttctatttta ttttttgaga tggagttttg ctcttattgc 247580824
ccaggctgga gtgcagtggt gtgatcttgg ctcatcgcaa cctccgcctc 247580874
ctgggttcaa gcgattctcc tgcctcagcc tcccagtag ctgggattac 247580924
aggtgcctgg taccatgccc ggtaattttt tgtattttta gtagagacgg 247580974

gatttctccc tgttgtttgg tgagcctggt ctccaactcc tgacctcagg 247581024
tgatccgccc acctcggcct cccaaagtgc tgggattaca gggatgatg 247581074
tttttattat tctccattat gcactcccag cttcatctca cttcaatcca 247581124
ctggttgata gaagtgcagt caaagactgt cccctcctct gcaagctttt 247581174
atgttctctc tcctctctcc cttagccacgt cctgttctgt tatcaacaca 247581224
cttactcacc tcctggcctt ctccttctat tgtctctcat ccctcttccc 247581274
tcacaaaaac agaagcaaag agccagagcc ttcagtttgg aggaactgaa 247581324
aacattctct tctgctttct cattttgtag **ATGAGGAAAC TGAAGTTGAG** 247581374
GAATAGTGAA GAGTTTGTCC AATGTCATAG CCCC GTAATC AACGGGACAA 247581424
AAATTTTCTT GCTGATGGGT CAAGATGGCA TCGTGAAGTG GTTGTTCACC 247581474
GTAAACTGTA ATACAATCCT GTTTATGGAT TTGTTTGCAT ATTTTCCCT 247581524
CCATAGGGAA ACCTTCTTC CATGGCTCAG GACACACTCC TGGATCGAGC 247581574
CAACAGGAGA ACTTCTGGT AAGCATTGG CTAACTTTTT TTTTTTTGAG 247581624
ATGGAGTCTT GCTGTGTCGC CTAGGCTGGA GTGCAGTGGC GTGATCTTGG 247581674
CTCACTGCAG CCTCCACTTC CCGGTTCAA TCAATCTCC TACCTCAACT 247581724
TCCTGAGTAG CTGGGATTAC AGGCGCCCGC CACCACACC GGCTCATTTT 247581774
TGTACTTTTA GTAGAGACAC AGTTTTGCCA TGTGGCCAG GCTGGTCTTG 247581824
AATTCCTCAG CTCAGGTGAT CTGCCTGCCT TGGCCTCTCA AAGTGCTGGG 247581874
ATTACAGGCG TGAGCCACTG TGCCCGCCT TGGCTAACTT TTCAAATA 247581924
AAGATTTTGA CTTGTTACAG TCATGTGACA TTTTTTCTT TCTGTTTGCT 247581974
GAGTTTTTGA TAATTTATAT CTCTCAAAGT GGAGACTTTA AAAAAGACTC 247582024
ATCCGTGTGC CGTGTTCACT GCCTGGTATC TTAGTGTGGA CCGAAGCCTA 247582074 **c.-40G>T**
AGGACCCGTA AACAGCTGC AGATGAAGAT GGCAAGCACC CGCTGCAAGC 247582124
TGGCCAGGTA CCTGGAGGAC CTGGAGGATG TGACTTTGAA GAAATTTAAG 247582174 **D19H**
ATGCACITAG AGGACTATCC TCCCAGAAG GGCTGCATCC CCCTCCCAG 247582224 **H26Y L27V D31V P38S**
GGGTCAGACA GAGAAGGCAG ACCATGTGGA TCTAGCCACG CTAATGATCG 247582274 **H49R I57V D58N**
ACTTCAATGG GGAGGAGAAG GCGTGGGCCA TGGCCGTGTG GATCTTCGCT 247582324 **M68T A69A V70M**
GCGATCAACA GGAGAGACCT TTATGAGAAA GCAAAAAGAG ATGAGCCGAA 247582374 **A75V D88Y**

GTGGGgtgag tggaaggaag acttttaaaa aaaattgtgg ccaagtgcac 247582424
atagtgtaca attttccatc tttatatata tatatatata tattttttttt 247582474
tgagacggag ttgctcttgt tgcccaggct ggagtgcaat ggtgagatct 247582524
tggctcactg caacctccac ctcccgggtt caagcgattt tcctgcctca 247582574
gcctcccaag tagctgggat tacaggcatt gcacctccac gcccggctaa 247582624
ttttgtatth tttagtagaga tggggtttct ccatgttggc caggttggtc 247582674
tcaaaactccc gacctcaggc gatccaccgc cctcggcctc gcaaagtgc 247582724
ggaattacag gtgtgagcca ccgcgcccgg ccgtaataat ttttaaagt 247582774
acagttcagt agtgtaggt aactcacat tgtgcaacca gtctccagaa 247582824
ctgttttcat cttgcaaaac tgaaactcct caccattga atgataactc 247582874
ctcattgcct cattctcca gccctggtaa ccaccattct atttgccatc 247582924
tctgtgaatc ttactactct ggttacctca tataagtggc aacatacagc 247582974
atthtttctt ttatgagtag tttatthcac tcagcataat gtcctccggg 247583024
ttcaactatg ttgtagcatg tgtcggcaat cccttccttt aaaaaagact 247583074
gtataaatac tccatggtac catataccaa atthttgtta gttatctgth 247583124
gatgaacacc tggattactt ctacctthtt gttatthgta atgctgtht 247583174
gagtgttggc gcacaaatat ctctcaaga ccctgctthg aattctctgg 247583224
ggtatatact cagaagtga atthctgaat catacggtaa thctgtthaa 247583274
taththtgaag aactgctcta ctgtthttaga taccatctgc accaththcc 247583324
accaacagca cacaagggtt ccaaththct catatcctaa gaacacgth 247583374
ththththth ththththth thtatagtag ccaththaat gagtgtgagg 247583424
tggthtctca ctgtagthth gaththccgth thcctaatga thagtthgth 247583474
tgagcacath thcactgctt gthggcath thtagagctt ththcagagaa 247583524
agththctgth aagthththth thcaththth gaccaggthth ggctththgth 247583574
gthgctthgt aggagththth thgtathth agataththaac cccaththcag 247583624
athathgath thcaaatath ththctctath ctgtgggthth thththththth 247583674
tggththactg ththctthth ththcagagag thtagththg thththththth 247583724
ththththctg ththgggctg ththggctgth ththgththth thththththth 247583774

tgaggctgag gtgggtggat cacctgaggt caggagttca acaccagcct 247583824
ggccaacatg gcaaaacccc atctctacta aaaatacaaa aaaaattagc 247583874
cgggtgtggg ggtgggcacc tgtaatccca gctactcagg aggctgaggt 247583924
aggagaattg cttgaacatg gggagtgagg gttgcagtga gctgagattg 247583974
caccacggca ctccagcctg ggctaaagag caagaccctg tttcaaaaaa 247584024
aaattttttt ttcttgtatt gtcttggttt tttctctttt cccctctcac 247584074
ggtagtgcta tgagaagggt gaggcaaact gtttgctttc tctaactcct 247584124
ttaaaaagct gatgcagact gtacctacc cctgggcacc tgccatgatt 247584174
agtcctctct tatctgaatc tcagcagtcg ctagaccctg ctccaattct 247584224
ccatccagct tctcagacca catgttttgt ccagtatctg ctgtgtggtc 247584274
agcaggcttg ggcctctgct tcctatggcc cagagggcag cctctctcct 247584324
tgaagaaccg tggagtttgg ggcagaagcc tttcctttca ccaccacttt 247584374
gggaattgga atgtaaaaga aattctctta atccccatgt acacattggg 247584424
gataaggttc tttcttttgt cttgtgttct aggcaaagggt agggctcaga 247584474
gaagggcagg gtattgcagg atgatgatgt agagctgggtg gtgatgggaa 247584524
ggaggagtac aatgagtca gtggataggg agacacatgt taaggcaggg 247584574
cagcagtggt ggtgtaatga cactggggaa acagacagca gtgtgcagcc 247584624
gggggaggtc agaaaccagt tgctgcaatg gctctcacct gtagtcccag 247584674
ctactcagga ggctaaggca ggaggatcgc ttgagcccag gagctcaaaa 247584724
ccagcctgag caacataggg agacctcatc tctaagtaaa taaagcaatt 247584774
atcatttgtt cagtacttat atactcacat acccaaatga aagtgtcata 247584824
atcacaactg tagaagtact ttgctaagca gtttttatgg attttatggc 247584874
acattcaaga aacccatgaa acagcttctg gtattatccc tcctgcaagt 247584924
gaatgagggt agcctggaag agatcctaac tggcccatgg tttatttcta 247584974
gccataacca gagctggggg aaaaagcagg gcatgtctct gatcaaagcc 247585024
tggctcttaa ccactacacc gtcttttgct ccatatctgg attttgaggc 247585074
agaaaagtta taactagggt tagaagtttg tttgtttggt tcctgggggtg 247585124
gggttaggtt ttaggtaata gactttggct aatttactgt catggctcct 247585174

acctgagtcc cagttactca ggtggctgaa gtgggtgcat cacttgagct 247585224
caggagtcc aggctggagt gagctatgac catgccactg ccctccagct 247585274
ttggaaacaa agcaagactc tgtctcttaa aaaaaaagaa taagattttg 247585324
gttttggtt agattttttg gattttattt tgtgatattg ttaccaagta 247585374
gacagctgtc agaggctctt tatgggctgg gcgcagtggc ttatgcctgt 247585424
aatcccagca cttcaggagg ccaagatggg aggattgctt gagcccagga 247585474
gtttgagacc agcctgggca acatagttag aacctgtctc tacaaaaaat 247585524
gcaaacatta gttagggtgtg gtggcacgtg tcaatagtcc cagctgttct 247585574
ggaggctgag gtgggaggat cacttgagcc caggagggtt aggctgcagg 247585624
gagccatgat tgtgtcattg cactccagcc tgggcaatag agtgaggccc 247585674
tgtctcaaaa aaaaaaaaaa aatcatttat gttacttgta gattcctgcc 247585724
cacctgaagt tatctgtctt atatatttcc cctagtgact aactcttgtt 247585774
ttacctaacc tgaatttctc ctatagaatg ccttcttaag atatgctatc 247585824
tagtgactgt ttggatttgt gattctcaac acagatgcat gttggaatca 247585874
cctgggagct tttagtagt gatggttcct gggcctcacc tcagaggac 247585924
tgaaaaagaa cctctgggcg tgcagtcctg aagtccatat ttttaaagct 247585974
tcctgggtga ttctaaagtc agccaggatt cccaaccact agattaggca 247586024
cgaaatagac tggtcgttct cactcttgaa gaaccagaca tctagacttg 247586074
acaatagaag acgtgtgtaa aatggattgc agggaactgc ggtcagggaa 247586124
gggtgacctt tcttagccca cagccgtgtt ggggatatag gagagcttgg 247586174
agatgccctc acaatcaggc tgccaggggc aggcaaaagc aaacgagggt 247586224
aaaagaaact tagcctgctt cgcattgttg ctgattgatt tccaggcctg 247586274
aggaagagat tctgagactg gggacagtgg gaacacatgc ttggcaggtg 247586324
gacagcagaa g_Ltgttttga aactaggagt gcagaaatgc tccaaccag 247586374 [c.278-196T>C](#)
acttttgact ggatacctgt cctctgcaac tcagagccat gttttgattt 247586424
gggggatggt tggggtctcc tctctcatgc caaatattag gccaggtttc 247586474
aattgcatcc tc_Lgtgataa tagttctggg ttttgacacc ttttttttcc 247586524 [c.278-45T>C](#)
cttttagGTT CAGATAATGC ACGTGTTCG AATCCCACTG TGATATGCCA 247586574 [R98G](#) [R98H](#) [S100L](#)

GGAAGACAGC ATTGAAGAGG AGTGGATGGG TTTACTGGAG TACCTTTCGA 247586624 M116I G117S S123L
GAATCTCTAT TTGTA~~AA~~ATG AAGAAAGgta agc~~g~~actggg gtggtgcttc 247586674 K129R c.397+7G>A
tagttgagtt ttaagacctg gttcaggagg ctctgggaag ctgagcagct 247586724
gggtaacttg gccatactat aggttcctgc tctttggaat gcaaaggcct 247586774
gtctcaggaa atccattgtc agttgaagaa acaaattcat gtttgtgtgg 247586824
ctcttgacgt cccagagcca gcggcgggta ttaagcgttt caagtttcat 247586874
aaggcatagg atgcagatta cttaaaggaa taagattgat tcaaatgatc 247586924 c.398-229T>G
tttgggctgg tagctacaca tagagatggg ccttctgctc agctgtgtat 247586974
cttaaaaaact tgacaccaga gattctcggc accttccta cccagtgggg 247587024
aggagctgca ccttccattt ctccattccg gttaccactc gcttccgatg 247587074
acaggcccca gctgagagcg catctcaggt ggatgtgtgt atactttccc 247587124 c.398-56C>T
cctaacttc~~c~~ tgtctttgcc gtagATTACC ~~G~~TAAGAAGTA CAGAAAGTAC 247587174 c.398-15C>T R135H Y141Y
GTGAGAAGCA GATTCCAGT~~G~~ CATTGA~~A~~GAC AGGAATGCCC GTCTGGGTGA 247587224 C148Y E150E
GAGTGTGAGC CTCAACAAAC GCTACACAC~~G~~ ACTG~~C~~GTCTC AT~~C~~AAGGAGC 247587274 R168Q R170S R170H I172T K173E
ACC~~C~~GGAGCCA GCAGGAGAGG G~~A~~GCAGGAGC TTCTGGCCAT CGGCAAGACC 247587324 R176W E182V
AAGA~~C~~GTGTG AGA~~G~~CCCC~~G~~T GAGT~~C~~CCATT AAGATGG~~A~~GT TGCTGTTTGA 247587374 T193K T195M S196N V198M P200T E204G
CCCCGAT~~G~~AT GAGCATTCTG ~~A~~GCCTGTGCA CAC~~C~~GTGGTG TTCCAGGGGG 247587424 D211N H213R T219T A225V
~~C~~GGCAGG~~G~~AT TGGGAAAAC~~A~~ ATCCT~~G~~GCCA GGAAGATGAT GTTGGACTGG 247587474 G227G T231T L233L
GC~~G~~TCGGGGA CACTCTACCA AGACAGGTTT GACTAT~~C~~TGT TCTAT~~A~~TCCA 247587524 A242A p.L254M I257F
CTG~~T~~CGAGAG G~~T~~GAGC~~C~~TTG TG~~A~~CACAGAG GAGCCTGGGG GACCTGATCA 247587574 C259W R260W R260L R260P R260Q V262A V262G L264F L264V L264H L264R L264P T266P
TGAGCTGCTG CCCC~~G~~ACCCA AACCCACCCA TCCACAAGAT ~~C~~GTGAGAAAA 247587624 D280N I288M
CCCTCCAGAA TCCTCTTCCT CA~~T~~GGACGGC T~~T~~CGAT~~G~~AGC T~~G~~CAAGGTGC 247587674 M299V G301S G301D F302C F302L F302L(C>G) D303N D303H D303G D303A E304K E306D
L305M L305P Q306K Q306E G307S G307R G307V G307D p.G307 F309del G307A
CT~~T~~TGA~~C~~GAG CA~~C~~A~~T~~AGGAC ~~C~~GCCTGTCAC TGA~~C~~TGGCAG AAGGCCGAG~~C~~ 247587724 F309S F309Y G309 F311del D310D E311K H312P I313V P315L R325W R325Q
GGG~~G~~AGACAT TCTCCTGAG~~C~~ AG~~C~~CCTCA~~T~~CA GAAAGAAGCT GCTTCC~~C~~GAG 247587774 G326E G326A S331N S331R S332N I334V P340P
GCCTCTCT~~G~~C TCATCACCAC GAGACCT~~G~~TG GCCC~~T~~GGAGA AACTGCAGCA 247587824 L344L T347I T348M T348T P350L V351M V351L V351LGT A352T A352S A352V L353P E354D

K355T K355R K355N H358R

CTTGCTGGAC CATCCTCGGC ATGTGGAGAT CCTGGGTTTC TCCGAGGCCA 247587874 L359V L361W L369M A374D K375E
AAAGGAAGA GTACTTCTTC AAGTACTTCT CTGATGAGGC CCAAGCCAGG 247587924 E378K
GCAGCCTTCA GTCTGATTCA GGAGAACGAG GTCCTCTTCA CCATGTGCTT 247587974 N400Y V402L T405P M406V M406T M406I F408S
CATCCCCCTG GTCTGCTGGA TCGTGTGCAC TGGACTGAAA CAGCAGATGG 247588024 L411L C>T L411V L411F L411M L411L G>T W414L I415I
AGAGTGGCAA GAGCCTTGCC CAGACATCCA AGACCACCAC CGCGGTGTAC 247588074 T433I S434S K435E K437N K435N T436P T436A T436N T436I T436DEL A439T A439P A439V

Y441H Y441C Y441Y V442I
GTCTTCTTCC TTTCCAGTTT GCTGCAGCCC CGGGGAGGGA GCCAGGAGCA 247588124 F443L F444V G454E H458H
CGGCTCTGC GCCCACCTCT GGGGGCTCTG CTCTTTGGCT GCAGATGGAA 247588174 G459C C461C A462T H463H L467L
TCTGGAACCA GAAAATCCCTG TTTGAGGAGT CCGACCTCAG GAATCATGGA 247588224 N477K I480F R488K
CTGCAGAAGG CGGATGTGTC TGCTTTCCTG AGGATGAACC TGTTCAAAA 247588274 A495V
GGAAGTGGAC TCGGAGAAGT TCTACAGCTT CATCCACATG ACTTTCCAGG 247588324 I519T H520N M521T M521K T522S(A>T) T522S(C>G) F523C F523Y F523LC>A F523LC>G
E525K E525V
AGTTCTTTGC CGCCATGTAC TACCTGCTG AAGAGGAAAA GGAAGGAAGG 247588374 L534L
ACGAACGTTT CAGGGAGTCG TTTGAAGCTT CCCAGCCGAG ACGTGACAGT 247588424 T544M V544I R548C R554X T557A
CCTTCTGGAA AACTATGGCA AATTCGAAAA GGGGTATTTG ATTTTTGTTG 247588474 Y563N Y563C G564S G564D K565E F566Y F566L E567K E567Q E567A E567G K568N G569R
G571R G569A G569V G569E Y570H Y570N Y570C Y570F L571V L573W L571F L571FG>C I572F F573S
TACGTTTCTT CTTGGCCTG GTAAACCAGG AGAGGACCTC CTACTTGGAG 247588524 F579Y T587I
AAGAAATTA GTTGCAAGAT CTCTCAGCAA ATCAGGCTGG AGCTGCTGAA 247588574 S595G S595N I598F Q600R R603G E605V
ATGGAATTGAA GTGAAAGCCA AAGCTAAAA GCTGCAGATC CAGCCAGCC 247588624 S624R
AGCTGGAATT GTTCTACTGT TTGTACGAGA TGCAGGAGGA GGACTTCTGT 247588674 E627Q E627G E627D C631W L632F M635T Q636E M635L E638K
CAAAGGGCCA TGGACTATTT CCCCAAGATT GAGATCAATC TCTCCACCAG 247588724 D646Y P649S
AATGGACCAC ATGGTTTCTT CCTTTTGCAT TGAGAACTGT CATCGGGTGG 247588774 M659K M661R M662T M664T
AGTCACTGTC CCTGGGGTTT CTCCATAACA TGCCCAAGGA GGAAGAGGAG 247588824 L677P S678S E688K E690K E690Q
GAGGAAAAGG AAGGCCGACA CCTTGATATG GTGCAGTGTG TCCTCCCAAG 247588874 M701T Q703K P.P707Q
CTCCTCTCAT GCTGCCTGTT CTCATGGta aggaaactcg gcttccaggt 247588924 S710C H711H A712S
gcttcctcct gcttcctcgc cagcttcttc ttggcgcttg cctcctctca 247588974 c.2150+59G>A
tctcttttca actatcttcc aaatactggt gccacagcta catcataatg 247589024

ccaccactgt ctgtttgaga ctccttcacg agcaaagatt gatgtatggt 247589074
aggtaggataa atgggatgag gaaaaaaaaa ataaaaacaag gaacaaatgt 247589124
ttgggggaatg ccagtttagc acaaggtatt aagtaggatg taggattgcc 247589174
tacaaatatt tgtcaactga aatttcttgt aagctacttg gagcactagt 247589224
gcctaagagt cagtcaatgt ctgtggggca gaacaatgcc agagagtctg 247589274
tgtcccagga gcgaggggac agagggcctc agagctggag gctgggggga 247589324
tgtttcttag aaatgtgcaa tctaagcctc ctttaaggaa tggtagggacc 247589374
tgggcgcata gagaagaaat taaaggaatt ctgcactgaa gactggtatg 247589424
agccaaatca tgaatgcagt ctgagaaaaa gtgtgtgcag gtgacagtgg 247589474
agagagacac agtttccttg gaaaaaaaaa tgatgaaggt aaatcaaggg 247589524
aaatagagca gaaatgtgga gaccctcttt ctaggccccc atgttgctct 247589574
gcactgggca ttgccaaaac cccgttttcg ggtctgttca cacacttgct 247589624
gggtggttgg aagctagtgg ccaagtctgt gcaatgaagt ggttgagtca 247589674
cctgacttct gagtcccttt tgggtttatc gttcagtgcc tcctgcagaa 247589724
ggaccacca cagtggttgt aggaaggtgg ccaccctgtg atgtgtgagt 247589774
ttagcctgga tagaagacac ttgacgtggg gcaaaattaa gggaaacagg 247589824
aggcttggcc cttccacagg caacaatgag tttcagcttt cttgatccgt 247589874
tgacattacc atgaccagga ccaccttctt agtcatgggt tggccatgaa 247589924
ggactgactg cccacagggc cgcagtgggt gtgaagacc aggtcctggt 247589974
cacagggact tgaggtctgg ctgtgggaca gtccggaaac aagtgcagat 247590024
gtcggggagg gggatcatgg ctctgacaag gaaacttgca gagtatccaa 247590074
agcacaaggg gacgaacctg ttcaccagcg gggcacgggt ggggtgtcccc 247590124
gctcagccag cttccggagg atgggcagtg agagagtgag agaaggaaa 247590174
gggcagccag gctgggggct tacgggtgtg agagagaggg cagggtgtggg 247590224
aaagcagggc acggtttcta cggcagcaaa cagttccgag tgactggaaa 247590274
aaagacagtt gtcttcattc atcaggttgc cataacaaaa cactgcaggc 247590324
tggttggctt ataagcaaaa ggaaggttca ccttacgggt ctggaggctg 247590374
ggaagtccat gatccaggct ctggcagatc tgggtgttgg tgagggcctg 247590424

ttccctggtc gatggtgcct tctcactgtg tccttacatg gtgaagaggc 247590474
aaggcagctc tctgggggcc ctttcctaag gacagcaatc ccactcctga 247590524
gggctccacc ctcataactt aaccacacct caaaggcccc atcgctgat 247590574
acgtcatggt gagggttagg atttcagcgt atggattttg gggcacacaa 247590624
acattcagac catagaaatg ggagaagaag agtaagacag agagaaaagt 247590674
aggcagaact actcattaag agtgaggtag aaggtggaga gggcagggag 247590724
accttatgaa gatcacacat ctgtgaggaa ggtttgaca ctctcactga 247590774
agccccggta ggaggctcag caccatttc tctagatagc accttccttc 247590824
ctctgaggac agattctgac tggagccctg gtagggggct cagcacccat 247590874
ccctctagat ggcacctgcc ttactctgag gacagactct cactgaagcc 247590924
ccggtaggag gctcagcacc catttctcta gatagcacct tccttcctct 247590974
gaggacagac tctgattgga gccctggcag ggggctcagc acccatttct 247591024
ctagatagca ccttccttcc tctgaggaca gactctcact gaagccccgg 247591074
taggaggctc agcaccatt tctctagata gcaccttct tcctctgagg 247591124
acagactctg attggagccc tggcaggggg ctcagcacc atccctctag 247591174
atggcacctg cttactctg aggacagact ctactgaag ccccggtagg 247591224
aggctcagca accatttctc tagatagcac cttccttct ctgaggacag 247591274
actctgattg gagccctggc agggggctca gcaccattt ctctagatag 247591324
caccttcctt cctctgagga cagactctca ctgaagcccc ggtaggaggc 247591374
tcagcaccca tttctctaga tagcacctt cttcctcagg acagactctg 247591424
actggaacct tggtaggggg ctcagcacc atccctctag atggcacctg 247591474
ccttactctg aggacagact ctgacgggag ccctggtagg gggctcagca 247591524
cccatccctc tagatggcac ctgccttact ctgaggacag actctgactg 247591574
gagccctggt agggggctca gcaccatct ttctagatgg cagctgcctt 247591624
actctgaggg caggagcttg ctttgtatgt tccagtccct tctgagaacc 247591674
agaagcctga gcatctatta gaaatgcagg attgtggacc caatcttaga 247591724
cctagagagc tagactttgc atttgaatga gagctacagg tgattcaaag 247591774
gtgactgcat gtgtgggtgc agtggctctt gcctgtaatc ctaggttttg 247591824

ggaggccaag atgggggat tgcttgaagc caggaattca agtcctacct 247591874
gagcagcaaa gtgagagcac ctctctacag aaaaacaaaa gcaaaaatgt 247591924
gactgcatgt tggagccacc tggctttttt taaataaaaa agatccatat 247591974
agctggacac agtgactcgt gcctgtaacc tcagctactc gggaggctga 247592024
ggcaagagga ttgcttgagc ccaggagttt gaggctgcag tgagctatga 247592074
tcatggcact gcattccagc ttgggtttca tctgaaaaaa aatttaaaaa 247592124
attcatctag ttccacctca gagcttctga ttttatttcc atggatgtgg 247592174
cctgggcttg cgattttctt tttctttttt ttttttttga gatgaagtct 247592224
tgctctgttg cccaggctgg agtgctgtgg catgatcttg gctcactgca 247592274
acttccacct cccaggttca agtgattctc ctgcctcagc ctccctaata 247592324
gctgggatga caggctcgtg ccaccacacc caattaattt ttgtattttt 247592374
agtagagaga gggtttcacc atgttggcca ggctgatctt gaactcctga 247592424
cctcaggtga tctgcccgcc tcggcctccc aaagtgctgg gattacaggt 247592474
gtgagccacc atgccagcc tggcctgagg atttttgtga gcactcctga 247592524
tgctgttggt tagccaggag tgaggactgc cctctgatca cccagcacag 247592574
aacgttcagg gccatgttgg gacagtggac tggtaagggc gagaggagga 247592624
cactggggag caggctgtag ggtgccacag tccgccacag tcacaggctc 247592674
atgctctccg tccgagagga ggcagaactg cttttaccaa ggctcatcca 247592724
gccctcttca tttctctggg aacaattttt ggtttcgtga cccatttctt 247592774
aatccccgga aggcatttct ctgaactggt gccaggcacc ccggccccc 247592824
gctccagtta gttattattc gaggctgatt tcttttctgt ctgtcttct 247592874
tctaattcct agATTGGTGA ACAGCCACCT CACTTCCAGT TTTTGCCGGG 247592924 [L723I](#) [S726G](#)
GCCTCTTTTC AGTTCGTGAGC ACCAGCCAGA GTCTAACTGA ATTGGACCTC 247592974
AGTGACAATT CTCTGGGGGA CCCAGGGATG AGAGTGTGTGT GTGAAACGCT 247593024 [G755RG>C](#) [G755RG>A](#) [G755A](#)
CCAGCATCCT GGCTGTAACA TTCGGAGATT GTGgtgagtc cccgtgcatg 247593074 [G767S](#)
tgatctgtgt gagtgcaagt tcatatgaga gagagagaga gaaacagact 247593124
ggagaaagat cttcaggacc aggttgctgg tgtggtttct ttcttttctt 247593174 [c.2321+85A>G](#)
tttctttttt tctttttttg aggcagagtt ttgctcttat tgcccaggct 247593224

ggagtgcaat gccgtgacct cggctcactg caatctctgc ctctctgggtt 247593274
caagtgattc tcctgcctca gcctcctgag tagctgggat tacaggcacc 247593324
caccaccata cccagctaata tttttgtatt tttagtagag atggggtttc 247593374
atcatgttgt ccaggctagt ctggaagtcc tgacctcagg tgatccgccc 247593424
gcctcggcct cccaaaatgc tgggattaca ggcatgagcc accgcacccg 247593474
gccggtggtg tggtttctgc tgtaacaaag tgccacagac tgaatggctt 247593524
caacaacaaa aattcatttt cttgcagttc tgaggccgaa agtctaagat 247593574
caaggtgtca gcagggttgg tttcttctga ggccgccctc cttggtttgt 247593624
agatgcccc ttctccctgt gtactgatgc catcttgccct tggggggaag 247593674
agtggcctag tctcctcttc ttacagggac agcagtcctg atggattagg 247593724
cacagtcagg catgactaca caagacctaa tgttaatcta gtcactcctt 247593774
taaagacccc atttccaaa acagccacat tatgaggtct tgaggattag 247593824
ggcttcaaca tgtaaatttt tgggggggca cagttcagcc cagaacaagt 247593874
gagaaggtag aatgggttgagg aggccagctg ggaagtttt gtgtgggaa 247593924
gaatgaatga ggaactaaaa aaaaagtcatt ttcttgaaac aaccatgatg 247593974
ctcgatatat tccatttcct catgggcat gttcatagat gagagttgga 247594024
gaatttgcca tttacaacaa tggcaacctc acctaaaaac tatgaaaata 247594074
cttttttttt ttttcttga gacaggacct ctctctgtca cccaggctgg 247594124
agtgtgtgat cacagcttac tgcagcctcg acctcccagg ctcaagcaat 247594174
cctcccacct cagctcccc gagtagctgg gactacaggc atgcaccacc 247594224
atgctggcta atttttgtat ttttttga gagatgtggc ctcatcacgt 247594274
tgcccagcct ggtcagaatg ctttgtatgg gttgaaatgt cacagggaat 247594324
ctcctgtgac tttattaata atgtgcttgc tcacacctgt agtcccagct 247594374
actcgggagg ctgaggcagg agaactgtgt gtacccggga ggcgggatg 247594424
gcagtgagcc gagatcgtgc cattgcactc cagcctgggt gacagagcga 247594474
gattccattt caaaataata ataataata taataataa aatgtgctt 247594524
gctttctccc acaccatgaa tcagattcac acgccccacc gcgctggtgc 247594574
ctgggcccgc tcactagctc tgtttcttc cctgctctgt ggacgcatgc 247594624

aggcgtctgc atttttgagg agctgcacag caagtgttaa agtccgccac 247594674
tctaggacat tttgctacct ccctctccgg ctcaacacac tcaccttgtc 247594724
accagtctta tcaatthttc ctctaccgg agctgttttc cacttttcct 247594774
cgtcctcacc ccaccagccc aggtccagca actgtcacca cttgcctgga 247594824
cacgcagtga cctcctagac catcagctcc ccggggatgg ggtttgcgtt 247594874
tgtttgtctt gctgtcatct ttgccacgcc tggacagaca tcttagtacc 247594924
catcagtggt caaaagcacg cactgaatga atgttggtc tttggtctcc 247594974
ctgtgtctgc ctttttccct caccggacca ttctctgcac aaaagtaaga 247595024
tggtccttta gaaaattctg attcgattgt gctgttcggg ggcttaaagt 247595074
ctttctgtct gctctgctct ttatthttta ctttatgtat ttatthttgt 247595124
agatgtaggg ggcgcaagag cagctttgtt tcatggatat gttactgcac 247595174
agtggtagtg tctgggcttt tactgtaact accccttttt ttttgagatg 247595224
gactctcgcc gtgttgcca ggctggagta cagtggagtg atctcggctc 247595274
actgcaacat ccacctctg ggttcaagca attcttcgag tagttgggat 247595324
tacaggcatg ggccaccacg cccagctgat ttttgtattt ttagtaggga 247595374
caaggthtca ccgtattggc taggctggtc tcaaactcct gacctcgtga 247595424
tccaccggcc tcggcctccc aaagtgtgg gattacaggc gtgagccacc 247595474
gtgcccggcc ttagtgtaac tcttaccxaa atagtgaaca ttgtaccxaa 247595524
taaataatth tccagccctc acctggctcc caccctccca cccttctgag 247595574
gctctagtgt ctatcattcc atgctctatg gatgttacc tttgttttagc 247595624
tcccacttgt aagtgagaac gtgtggatt tgactctgtt tctgagttgt 247595674
ttcacttaag gtaatggcct ccagttccat ctgtgtggct tcaaagatgt 247595724
gacttcattc ttttctatgg ctgagcagta ttccattatg tatatagatc 247595774
acactcttca tctttgctct tttggtaaat ttcaaatcgt agtgccatgg 247595824
agactggttg tttgggacat ttaaccttat ttctccaact tcatgcccxa 247595874
attctctccc cactgccatt gccctgtat gattctggag aggcagacac 247595924
aaacagggaa gggtagggga cagtgagatg cttcgcagag aagtagagat 247595974
ccatthgtcc atthgttga agthgttga aggataggga cagaaaggaa 247596024

ggtggtctaa caggctccag gacctatgaa ctattgccct ggaaagaagc 247596074
tagaatgttg ttcttgcccc catgacaggg ataaagtata gtttttgttg 247596124
ctggtggtgg tggtgacggg ggtagtgatg tgcgtgtgtg tttgtgtgca 247596174
tgtgtgtgac ggggaaacta atcaagaatc agagctgcag cgggatgtgg 247596224
aatcccagca ctttgagagg ctgaggtggg cagatcacct gagcccagga 247596274
gttcaaaacc agcctgagca agctggtgag accttgtcct tagaagataa 247596324
taataataat aaaaataaaa tataaataaa ataaaatggc taagcatggt 247596374
agcacatgcc tgtatttgca gccacttggg aggctgaggc aggtggatcc 247596424
cttgagccca ggagtctgag gtggcagtga gctatgatct cgccagtgca 247596474
ctccagcctg tgcaacaaag tgagaccctg tctttaaaaa aagaaaagaa 247596524
aagaaaagaa aaagaatcag agctgctttt cctttcaata tagatggagg 247596574
gctgggatga aatcgtcaaa cacaatgggg tgacaatggt ggtgaagaca 247596624
agaaatagct gagtgcagca ctggcgaggg cagtgccgac tgcgggcacg 247596674
tcaatggtta ggaacacgag ggaaggaggt ggggtgcacag gccacaccg 247596724
cccgttcac ttacaaacca ggagcgcacc attcacatgt ctggggggtg 247596774
atctcaatgc acccggcact gtttacggcc gggagttcac tgacaggtga 247596824
tcctctgct gtgactgggg agactggggg ctgacctccc aatgtgcctt 247596874
gtgctgtatt ccggagctct ctggtcaggt gtattctgat gctttctcta 247596924 [VNTR](#)
ttccagagct ctctggtcag gtgtgtcctg atgctttctc tattccagag 247596974
ctctctggtc aggtgtgtcc tgatgctttc tctattccgg agctctctgg 247597024
tcaggtgtgt cctgatgctt tctctattcc ggagctctct ggtcaggtgt 247597074
gtcctgatgc attctctatt ccagagctct ctggtcaggt gtgtcctgat 247597124
gctttctcta ttccagagct ctcttgtcag gtgtgtcctg atgctttctc 247597174
tattctggag ctctctggtc agatgtgttc tgatgctttc tctattccgg 247597224 [c.2322-225T>C](#) [c.2322-224G>A](#) [c.2322-197T>G](#) [c.2322-194T>C](#)
agctctctgg tcaggtgtgt tctgatgctt tctgtattcc ggagctctct 247597274
gatcagatgt gttctgatgc tttctctatt ccggagcttc ctgatcaggt 247597324
gtgtcctgat gcttcctctg ttctggagct ctctggtcag gtgtgttctg 247597374 [c.2322-76C>T](#) [c.2322-55](#) [2322-54ins42](#) [c.2322-40 G>A](#)
atgctttctg cctctgttct tggcatgaag [GTGGGGCGC](#) [TGTCCTCT](#) 247597424 [R777C](#) [G779V](#)

CGCATGAGTG CTGCTTCGAC ATCTCCTTGG TCCTCAGCAG CAACCAGAAG 247597474 [D787N](#) [Q796P](#)
CTGGTGGAGC TGGACCTGAG TGACAACGCC CTCGGTGACT TCGGAATCAG 247597524 [G809S](#)
ACTTCTGTGT GTGGGACTGA AGCACCTGTT GTGCAATCTG AAGAAGCTCT 247597574 [K829T](#) [L830I](#)
Ggtgagtcga gcccgttccc ctaaggaagt tctgccagcg aggcgtgctg 247597624
cgcactctgg cttcagtgag gcccggtggg ctggggtttg agtgagaatg 247597674 [c.2492+82delG](#)
gccttggcgg ctcgggtgac tgcgtgtgct tgtcttgggg tgtctagcat 247597724
tgcggtcagt gagtgtttgt cgtggggaaa gccacacact caaccctgac 247597774
aaggagcata aataataaca aaaagaagat gtctgccttt aggggtgccta 247597824
ctgcctagct gacaaaaaga aaaaatcagt gtaatgcatt gctttagagg 247597874
agttttagaa cttcatgaca agccctgggt cctcatattg tataagaaaa 247597924
atggtgctaa agcaatgcag accctcgatg ttgtatgcag cccttccctg 247597974
agtgccttctg ggagacttgc attttgaagg agagaaaaaa ccacttaaaa 247598024
atggaagggc catttctcac ccattaggat ggctattatc aaacaaaagc 247598074
aagaaaacta gaaaacaaca agtattggtg tgggtgcgga gaaatggaag 247598124
ccattgtgtg ttgctggtgg gaatgtaaat gatgcagcca ctatggaaaa 247598174
cagcacagca attcctaaaa aataaataca gaattactac tggagccagc 247598224
atttccactg ctgggtatat ctgcaaaaga gttcaaagca ggaactcagc 247598274
caggagcggg ggctcacacc tgtaatccca gcattttggg aggctgaggc 247598324
aggtaggatca ctggaggtcg ggagttcgag actagcctgg ccatcatagt 247598374
aaaaccttgt ctctactaaa aatacaaaaa ttagccaggc atggtggtgc 247598424
atgcctgtaa tcccagttac tcggggtgga ggcaagagaa tcttttgaac 247598474
ctgggaggcg ggggttgagc tgagtcaaga tcccgtcact gtactcccgc 247598524
ctgggtgaca gaggaagcat taaaaaaaaac agaaggcagg aactcaaaca 247598574
tgttatttgt acatctatgt ccatagcaac actattagaa atagccaaaa 247598624
ggtggaata accaaacgtc cttcaacgga tgaaggtgtg tgaaaagtgc 247598674
tatatatgta cattcagctt taaaaagaat tctagtacac actacaacat 247598724
ggatgagcct cggggacatt atgctaagta agataagcta gactcgaaag 247598774
ggcaaatact ctgattgtcc ttataggagg tgtctagaac agacagattc 247598824

atagagacag gaagaaacgt ggttgcaggc aatgggaggg cggagagtgg 247598874
gaagacattg tttaatgggt atggagtttc agttctgcaa gatgaaagga 247598924
gttctggaga tgggtggtgg gatggttgca caacaatgtg aagtgcctaa 247598974
ggccattaat tgtgcactta aaaatggtta aaatggtaaa ttttatttta 247599024
cacgtatfff accacaataa agctgaatgt agggagctgg gaagatgtag 247599074
tattggtggg agcttgaga atgcttactt gttattccac caaatggaaa 247599124
aggaaatcag aagtgtacat agagcttgtg tccactccct ttccatgtgt 247599174 [c.2493-133G>C](#)
aaactggagt agaggcagtg gcaggtacgg gtgcttcctt gtccatggtg 247599224
gagcgtggtg gagagacatg actgacattc tgccatctct atggaagGTT 247599274 [c.2493-40G>A](#)
GGTCAGCTGC TGCCTCACAT CAGCATGTTG TCAGGATCTT GCATCAGTAT 247599324
TGAGCACCAG CCATTCCCTG ACCAGACTCT [A](#)TGTGGGGGA GAATGCCTTG 247599374 [Y859H](#) [Y859C](#) [V860V](#) [G866R](#)
[G](#)GAGACTCAG GAGTCGCAAT TTTATGTGAA AAAGCCAAGA ATCCACAGTG 247599424 [A871T](#)
TAACCTGCAG AAACCTGGGgt aagtcttcat ggggtgtctta ccagaaaagt 247599474
aacttctfff cagaggtgaa ttatttgaa aatgtggaTg ggggttactt 247599524 [c.2663+71T>C](#)
tggtcaggca gagctgaagg tagagtaagg aggtaaaaac atcagaaatg 247599574
ctttgaagga ctggaggcat ataatgtata ctgctgctaa taagataatt 247599624
tatgctaatt tatgattata gaactagagt ttcttagtgt tggaagaaac 247599674
cttagagatg gtgcagccca attgcctggt gagggaaaaa cttgcttcca 247599724
agacactcac atgaatagtc accatffta tgtgtgcatg cttgcaagca 247599774
tgcaagttat cgcatagtgc atgcagcctc tacactagga aagagctctc 247599824
accctgcagc ctctacacta ggagaggact cttacactgc agcctctata 247599874
tcctcaacag tgtcatggct cagcaccttc acctatgtag ccatgctctc 247599924
ccaggtacac aggctggttt gttagtgtct gtctttgaaa tgggtgccc 247599974
agacctgatg atgcatgggt gatgttttac ctctgttgc agagaactat 247600024
ggtttcactg tggaatctc tgatttcctt gtttttttg gcagttacat 247600074
aagccttttg attcatggtg gaattctgca gtaaacagta gtaggaata 247600124
cccactaata atcatgcact ttccctgtac cactttcctg tatcactffc 247600174
cctgatcac ctgctctffc atgttcttac atggattffc tcagttggct 247600224

tcagaaagat gctatagggt agggatatctg tgtctccaat ttaaagagga 247600274
gaaaataaaa ttcagggagc ctcata^actt tgtccaagga cactcagaga 247600324 [c..2663+859A>C](#)
gaaggtagtg gaactcagt tagacaaacg tctgtgacct cccaagccac 247600374
tgccttaatt cccagtgcac tgccttagga gatggtgcta atgggctctc 247600424
tacagggctt cttcatctgg ctctcagctt aagggtgga cctccaattt 247600474
agctttgcta aacctcatct tacctgtctt ttgaccatt gactaggcag 247600524
ttttgaatct tcattctgac aataatatct acaaatacaa taagcaaatt 247600574
ggataggctc tcattcattc acattattaa tatatatacc agccagatca 247600624
gcattcaaga caaaatttg caggaaaggt cttcccagag gagtaatcca 247600674
ctaaccata attaacaacc aacctctgtt cacaaagctc tgatacttcc 247600724
ttggacctc cccatcagcc aatcctcaga tgtgaccata tctctttcta 247600774
tgaagtcttc ctgcagtgcc ttcatttctc cgccttaggg tattaccctt 247600824
ccttagcaaa tcgccttaga atattactct tccttgcaa tttgacttct 247600874
gcttctctaa gtttgttcaa cagacatgat tttgtccctt cattttgag 247600924
gccctctggg ggctctgtgg tgggactga cagcagcagt gagtaaaaca 247600974
gaccaaatac ctgttttcac aaccgttctt ttagggaagt gataacagat 247601024
aatagacatg ctaaacaata taccctgtgt ataagagcta taagaaaaac 247601074
tggagtgacg gcgaggggtg cttctctgct cacgtttggc gagtgcctct 247601124
ccgagcgggt gacattggag caggtgctca gtgaagcgtg ggatgggctg 247601174
tgaaggagcc ggaagagccc tccaggcaaa gcagatggaa ccgaagaggc 247601224
ccaggcgtag gcactcaggt gactctcagt gatcctgggt ccaaattcca 247601274
catgacaaac aagccaatta caaatgtgcc tgatgcatct gtaatatgct 247601324
ctatgtagtt actattgtca atacctaacc tggtagagct gctgtaataa 247601374
agtatcacia acagagcggc ctaaacaaca agagtttatt gcctctcagt 247601424
tcaggaggcc aaagtctgag actgaggcat cagcaggctg ggtccttata 247601474
ggtcgtacag gtccttcca gtccttactt tagttgacat ctgctgcctt 247601524
taattcattt cactcttctt ctttggagc cttcttcgct cttattttta 247601574
ggtcactact tagtcttcc tgctaagtgt atagcttccc cctccctgga 247601624

tcctgcattg gcttctcttc ctgtggctcg gggatttcac gactggttta 247601674
gttgtgtttt tttttttttt tttttttttg agttggagtc ttactctgtc 247601724
accaggcta aaatgcagtg gcgcaatctt ggctcactgc aacctctgcc 247601774
tcccgggttc caacaattct tctgcctcag ccttctgagt agcagggact 247601824
acagggtgtc actgccatgc ctggctaatt tttgtatfff tagtagatac 247601874
ggggtttcac catgtttgcc aggctggctc cgaatttctg acctcaggtg 247601924
atctgcctgc cttggcctcc caaagtgttg ggattacagg cgtgagccac 247601974
acacccgcct ggtttacctt ttttgttgtt gttgttacta aatatttcta 247602024
aactccctga gaattctcat atacctctca atttcaacaa cagtaggtct 247602074
caaaccaga tatcattcac aaacttttta ttagaaaagt aacacatgct 247602124
tggtgtaaac atatcatagt acagacaaag tggaaagtga aagctccttc 247602174
tcagccctct tctgagagag ccatttacia tagtctgatg aacaaccatc 247602224
cagacttttt ttaatacaat agattgttat ataatccatt catctgtcca 247602274
tccatccatc catccatcat ccatccctct attttccatc cgtcaatcca 247602324
tccatccatc catccatcca tccatccatc catccatcaa tccatccaag 247602374
ggagtatcag agctttgtga acatatattg gttgctaatt atggacaaat 247602424
ggatttcctg tatatgctga tctgggtggg atttatatca gtaatgtgaa 247602474
tgaagaccta tgtgattttc atgttgcatg tgtaatacat tgttatgtag 247602524
tattttaaat gcctagtctg ttagagctac tgtaataaag tatcaciaaac 247602574
agagcagctt aaacaacaga aatttattgt ccctcagttc tggaggccag 247602624
aagtgtgaga ttaagatgct agcaggctgg gtccttctga gggctgtggg 247602674
gaatctgttc atgcttctct ttggcttctg gtggaatgct atcttgctga 247602724
cacattttgc cattccttga cctgtagatg cctctgccac accattgcct 247602774
ttatctctac gtgggtgtct ccctgtgtct gtgtgtgtct ttctccatgt 247602824
cccaagtttc cctgtgaaag aacacaagtc atgttagatt tgtaacgacc 247602874
tgatcttaac taattacatt ttcagtaacc gtatcaccaa ataaggctac 247602924
aatctgaagt actggggcct aggacttcca catataaagt cttagaggaa 247602974
acaattcaat ccataacacc ctatctattg aaactagaac cataatataa 247603024

atatttttct gtgatatcct tttttcattt atcatggata aatttccatg 247603074
ctgatttggt tagatctatc gattggggca taatatccca tagtgtgctt 247603124
taccataatt tatttaatca aatcatgcat tttgggataa ctgttctttt 247603174
ccactattac aaacaactct gcaaaaagca catttgtata tatagtttta 247603224
tgcatgtgta tttgctttga gataggtatc tataagtggc attaatcagt 247603274
cgagactttt atgcatttta tgtgttaggt acagccatac atgtggctgt 247603324
gtgttaggta tagcctatgg gttaggcata gcctgtgtgt taggtatagc 247603374
ctatgggta ggtatagcct acgtgttagg tatagcctat gtgttaggta 247603424
tagcctatgt gttaggata gctacatttt tttctctcga actttgggctc 247603474
ctcatctctg gctgcatatt gtgtactgcc tgtctcaata ctgctcaagg 247603524
gtcacacatg ctgagcattt gcaacattgg ttttaattatc ataccccacc 247603574
ttccaccccc gttctctgac ctgctcctgc cctcttcctc ctgcctcatt 247603624
gaatagtggg gctttccagg aggctgctga gtgagtaaac gggggacggt 247603674
cctaaatgct ctgctttcgg ttccctctac cactcatcac tacaccagag 247603724
ggaacttttt aagatgcaaa tttgaaaata ttgacccttt gttcaaaaat 247603774
cttcaaaaagt tcttctctgc agtcagagtg acatcttagc ttggcacaca 247603824
aggctgtccc tgatactgcc ctctctcctg ccataccttg cactccattt 247603874
tgagtcatat tggatgagtt ttgttttgct gtttttagaga tggggacttg 247603924
ctatgatgct caggctgaat ttgaattcct gggttcatct acagccatac 247603974
caccagagt gcctgatctc atctgcactc ctgggctcaa gcaatcctcc 247604024
cgtctcagcc gcccaagtag ctgggactat aggtggacat cactgtgccc 247604074
agctatgaat tagttttgaa acatcttggg ggttctttta atcttcctta 247604124
ttcttgctac tcttttcctt ttgcctggaa ggttaccccc actttcccac 247604174
tttctactat ccatctaaga agctcctact tattttttaa ttactgtgat 247604224
cctcattttg tccatttaaa agcagggata aaactaacat tcccatcttg 247604274
aggttgtgat cattcaatga gataaccctg tttaaagtcg tcatccatgt 247604324
caagcacaca ataaatactc aaaaaatggt tgatcttctt cttcagattc 247604374
cttccttcct tccttccttc ttccctcctc tcctttcttt ctctcttttt 247604424

ctttttctct ttctttcttt ctttctctct ctctctcttt ctttctttct 247604474
ctttctccct tcccttcccc tcccccccc ctttcccttt cccctttcct 247604524
ttccttattt tcctttcttt tcttttcttt ttttaagaca gggttttgct 247604574
ctgtggctca gactggagtg cagtggtagg atcatagctc actgtagcct 247604624
tgaactctcc tgggctcaag caatcttcct gcctcagcct tctgactagc 247604674
taggactaca ggtgtgtact accatgcctg ggtaatgttt aaaatgttta 247604724
aaatTTTTTA tgtagagaca gggctctgct atgttgccca ggctggtctc 247604774
aaactcctgg cctcaagtgg tcctcccacc ttggcctccc aaagcactgg 247604824
gattcagttt tcattatgag acagttttgt gacataggca ggtagttaat 247604874
aaataaaaaat ccccaaccaa ttaacttaat acagtacatg gcaagatc 247604924
cgtgcttggg aatgtagag ctgagttagg tggattgggt gaaatcgaga 247604974
tgtcaatcac attcctctaa tccaaggatt ggttggggg acatggttgt 247605024
ttgattcttt aacatttta ttatgtgttc agtgtaaccg ttgcttaata 247605074
gttaccagca ttttcacaat ttggatatga cgttttctta acaaaaactgc 247605124
accgtctggt gcaatttcta ctactactgt gtagtgctcc ccaaactct 247605174
gttgaataat ccattctact ctttttggg aatagtggtg aagcctgcat 247605224
aactttaatt acataattta aaaaatattt tctcttttcc tctttgaaga 247605274
ccatccccat tctactagaa tgtccctggc ctttgccagg aatgctacta 247605324
atcccttctg catgttaatt aacaacaacc ctctgataga attcttaccg 247605374
gggatgagag cttagtagaa gccactcaaa acttgctttg tttttgtctg 247605424
tctctcttgg gcttcatttg cctattagtc ttacttactg tgtcttttca 247605474
gtttgactct tccttaattg ggaagataga aaccagtgga tggataatca 247605524
ctttttcctg ctggatctt gttcatgctt tactgtctga atacactttt 247605574
tctgtatttc tatttttctt gcctcgtaga caccaaagag cttaaaaaac 247605624
atgccattgc caaggactct ggcaggaagg aggcaatcac ctgctgctatt 247605674
cctggcttca tggaatagaa gcatctgtgc tcctaggaat tacgccacca 247605724
gtgattttag agctcttatg ctcttcctgg gtgatagaat gggcttaatt 247605774
tgactcaaga atagtacatc aaaactctta attccatcga gattgatgca 247605824

tttttggggt tttatgctct aaaaggcctt ttgctgtgca gaaggaagag 247605874
agaggtggac agaaagggca gtggggagaa gatgagacta aaaggtggaa 247605924
agtccaggtc tggatccctc cccaccacac acctgctctg tggccttgag 247605974
agaaacatgt aatttttata agccttagat ttctaataatg taaaatgtat 247606024
gtaatagttt tagctgcact ccttccttgc caggttgata taataatcaa 247606074
ataagactgg tctctgggtc aggcacagtg gctcatgcct gtaatcccag 247606124
cactttggga ggccaaggctg ggtggattgt ctgagcccag gagttaaga 247606174
ctgcagtgag ctgtgcactt ggcctgggtg actgagcaag agcctggctt 247606224
tttctattta tttatttatt tttgagacag agtctcactt tgttgcccag 247606274
gttgaagtgc agtggcaatc tcggctcact gcaacctctg cctcccaggt 247606324
tcaagcaatt ctctgcctc agcctcccaa gtagctggga ttacaggctg 247606374
ccaccaccac cctaactaat ttttatattt ttagtagaga tgggctttca 247606424
ccatgttggc caggctggtt ttgaactcct gacctcgtga tccaccctcc 247606474
caaagtgctg gacctcccaa agtgctggga ttacaggcat aagccactgc 247606524
acctggcctt atttatttat ttatttaggc aggtctcac tctgtcacc 247606574
aggctagagt gtggcagcgc aatcatggct cactgcagcc tcgacttct 247606624
ggactcaagc gatcctcca cctctccaac gtggttgagg gctgcagcga 247606674
gaaagatgtg aaaggggcat ttgggggctg aggaaggcgg gaggtggcaa 247606724
ttgctaaggg ccccgccgtg ttctgtcac agccctagct acagcttaga 247606774
aggtcacaat ggacgttcac ctgttgtctt tgatgtttaa atcagaccg 247606824
acttcccag aggaggattt ttttttctg tctctcttaa aaaaaaaaaa 247606874
aaaggcccct gcagtgtggg tgtctgcagt gttacgggga ttattagttg 247606924
aggataacca ctgggatgtg tttctggaag aagtgggtgct gaggagcact 247606974
cctggccgga ggaaagctgt gtgaggagga ggaggagtat ggggtaactg 247607024
gctcagtttg ccttggctct ttctgtcggc ctcatcacagc aaagcatctg 247607074
ctgagacatc atttgtgtct cctgtgacag ccagagacag caggtcttgc 247607124
tctcccaga tcatatctga gatgctggct cctgctctct gagctgaagg 247607174
ctgcagctgc tgagagagga cgaggcactg agtcaaagca gctgcacaat 247607224

gttggggaac agctgggtac tgaggactct tctccctgtc cttctacagG 247607274
TTGGTGAATT CTGGCCTTAC GTCAGTCTGT TGTTCAGCTT TGTCCCTCGGT 247607324 V890L S896P
ACTCAGCACT AATCAGAATC TCACGCACCT TTACCTGCGA GGCAACACTC 247607374 N911S R918Q
TCGGAGACAA GGGGATCAA CTACTCTGTG AGGGACTCTT GCACCCCGAC 247607424
TGCAAGCTTC AGGTGTTGGA gtaagtcctt tggtttatta cagcaatgag 247607474
aacacatggt ggccaagggt ggaggacgt ttaggcagag tggccacaag 247607524
ataatctgta tcttagaagt gaggtgtctt cttagtgttt gccttgttac 247607574
aggatcatgg gactgggagg agtccttcca gatgatatag atgtaggaac 247607624
ttgagtcctt accatcacag ttttctgtac caaaaacaa ggagggcagt 247607674
atgacactta cattttatgg aaatgtaggg aaaggcacag aatttggtaa 247607724
atcaatgaac aaaccactgt tactaatttg atctgtgcaa tgcagtggat 247607774
ttgaaaaaga gagagaagaa taattaccag catacaaggc tgcttgaagc 247607824
tagttagtcc tgtgctcctg tgcttttttt ttttccacct gaaacaagac 247607874
aggctaagat gctaaaatct tggggagcta ggggatggt taaggggaca 247607924
ttttctttaa atcacccct ttttgagAT TAGACAACTG CAACCTCACG 247607974 T952M
TCACACTGCT GCTGGGATCT TTCCACACTT CTGACCTCCA GCCAGAGCCT 247608024 T964fs
GCGAAAGCTG AGCCTGGGCA ACAATGACCT GGGCGACCTG GGGGTCATGA 247608074 S975G
TGTTCTGTGA AGTGCTGAAA CAGCAGAGCT GCCTCCTGCA GAACCTGGGg 247608124 M986I
tgagtgtgct ctgcagagat gcccgtggtg ggactctgag ttctcaggaa 247608174 c.3005+25C>T c.3005+44C>A
acgttgactg ttatcaaaat ccaggatggc tctcgcttca tttgcagcca 247608224
ctcaagatta ggttgggcct ggttcagttg tgggtgatat tttaaaatag 247608274
agaatatggg gttaaaactac acattccact tcaactgagat ggttagaatc 247608324
accaaggcta agctggattt caccacatt ccccaaagaa acacaagccc 247608374
tcatgcgatc atggccaagg aggattctgt tctacacaag gaaccgaact 247608424
tcgtagaact cgtctatggg tcatccaaat tggaaagggtc tttacatagt 247608474
gggatcttg ttgttttgtt tctgaggatt tatttttttt ttccttgaga 247608524
cagagtcttg ctctgtcgcc caggctggag tgcagtggca tgatctcggc 247608574
tcaactgcaag ctccgcctcc cgggttcacg ccattctcct gcctcggcct 247608624

cccaagtagc tgggaccaca ggcgcctgcc accacacccc gctaattttt 247608674
tgtattttta gtagagttgg ggtttcactg tgtagccag gatggtctcc 247608724
atctcctgac ctcgtgatct gcctgcctcg gcctcccca gtgctgggat 247608774
tacagggtg agcctccgtg cctggcggtt tctgaggatt tctaaatggg 247608824
aaaagagtgc tccaggaata gcaagatggg aaattacacg aaattcgaca 247608874
gtgtgtcagg atattgccag cccacctctg tgatactact gaggtagtctg 247608924
tctcctctct agcaagagct tcctggcgag tcccacgggt ctgtcagccg 247608974
tgatgattgc acttttccct gaagacgttt tcaactgctt gctttaaggc 247609024
caacatgctc tcctggggtt tctcctatct catcagatcc ttctactcag 247609074
tctcctttct ggccctcttct tcatcatcct gacccttatg tgttgaatcc 247609124
tcagagctta gtcgctgggc taatttttct tccctacact ttctccctca 247609174
tttaaattat ctggtcttct ggcttcatga tatgtgtgct gtggcctcca 247609224
gattatatgt ccataaattc tgtgtctccg tgcttggtg atctttcttc 247609274
ttgaagggtt aataaacctc tcaaacgtca catctagatc cacacccttg 247609324
ctactctctt ctaccgaaa cctgattctt cccatttca gtcgatggtc 247609374
acttcctcca agttgctcgg gccaaaacat ttctgggtct gtcgtcactg 247609424
tctctttttc cttataatca tgtccaatgt gtcagcaca cctgtgagct 247609474
ctgccttccc agcttggcca ctccctgacc acttcaggcc agcttcacgg 247609524
cttcttcctt ggctcaagcc accatcacct ggtgtctgga ttgtcatggt 247609574
ggcattctga caggtcacc tgcatctggt attctgatt tagcagacaa 247609624
gggattcagc taaaacgtaa ctcgatcat atcactcttg tcaacatcgt 247609674
cttcttatca ctttcataat cagagcaaca aactcatggt ggcttccatg 247609724
ccccacataa tccagcctct cctgcttccg aagattccgc ttctcccaac 247609774
ccttgcttat tctgccccag tacagtgatc tccttgctgt ttgcaagaa 247609824
cactgtcatc tctggattht tgcaactgct tttcttctgg cctagaactc 247609874
tctccccttc agtatccacc tgcattattc cctgtacctt cctaaattct 247609924
ctgcttaaag gtcttctctg cgaggctgtc tttgactatt ctactgaaaa 247609974
tagaagcact ttttcttctc ttctcattct cctctgcagt gtagcacatc 247610024

ttatgtgcta tgtcattttc ttgtttatth attatctatc tctgctccca 247610074
aaatataaat tccattagtc cagggacttc tgtccatatt aatgatctca 247610124
aggctgagaa cttgttgga tgcaggtttg aataaataca agtttgaatc 247610174
agccttgcac ccttgtgcca acataatgga gcacatttgc tgcaggacaa 247610224
gccaatattc ccagagctaa gagagatggg ggaacaaaaca aaggattggt 247610274
caggtcaaag ctggggacac tgctacatgt agcatcactg acctagccct 247610324
gagggacatt ctggaccag gctgaggac aggctcaaaa tagattgaag 247610374
aatccatgaa tgcaatcaac ccgttttctc aggctgcat aacaagctgc 247610424
tttagactgt gtgactcaaa cacagattta ttatctcaca atactggagg 247610474
ctagaaagtc caaaatcaag tctctgatga atttggttgc tggcgagagt 247610524
cctcttcctg atttgcagat ggctacctc ttgttatgtg attgcatgga 247610574
gggaggggag gcaagggaga gaagacaggg gagaaagaac aaactctctg 247610624
atatctctcc tgtaaggga ctcacccat actgagggcc ccaccctcac 247610674
aacttcatct aactctaact acttcccaag ggcctcacct ttaagtaccg 247610724
tacattaggg gttcgggctt catcatggga attgttaagg aagacaaaca 247610774
ttcagtatat aacaccacca aattgagatg gttataaatg gtgcaggaca 247610824
aatgggtgga tttattagtt aagttgcaag ggaaacttta ttaaagagga 247610874
ggaagaactt acatcgaaga tgtgagaggc atcctgggca aatgcaatgt 247610924
gtagaattga tcaggttagt gactaaatga acataaggta aaaaaattta 247610974
caagacagtt gaggaagcgt aaatgctgac tggacataca gtgatactaa 247611024
gaaattattg ttaaacgatt ttggtgtgat agtgacattg taattatatt 247611074
ttagtgtcac aaagtgaatt attgatagat gcattaaatg cagtatttaa 247611124
aataatccat ggggtgggagg agtgggtggg caatagaaga aacaagttga 247611174
catgacctgt ttaattgtcg aacttgggta atggacacag ggggttcatt 247611224
atactatttt ctatactttt atgtatgctt aacattttcc caactagata 247611274
gttaaaaata taacaggaac cacattgggc acttagagct tttttttttt 247611324
tttcccaca tttttattgg gagccgtggg aggggcctcc tctgtcattg 247611374
gaggtgctca cagtttcttc agccactcca ggctggggtc ctgggggtct 247611424

gaggctccca gtgacgaag acacgacgag caccggctcc ttggcccagg 247611474
cattcttgaa gaaggtgcg agtctcgcg ccatcttggc ctcggcgcg 247611524
gcgacggcg cgaggacgag gagcactctg ggagttgtgg tccctctttt 247611574
tttttttttt ttttttttac attttagaag tgtgtggagt ttagggaaat 247611624
gaagagatga gacttttaag gttaacgact ctgacagagt tatctgaaga 247611674 c.3006-45 -44delAG
gtgcaacca ggctttctat ttgcttttac agGTTGICTG AAATGTATTT 247611724 s1004P
CAATTATGAG AAAAAAGTG CGTTAGAAAC ACTTCAAGAA GAAAAGCCTG 247611774
AGCTGACCCT CGTCTTTGAG CCTTCTTGGT AGGAGTGGAA ACGGGGCTGC 247611824 V1028fs
CAGACGCCAG TGTTCCTCCG TCCCTCCAGC TGGGGGCCCT CAGGTGGAGA 247611874
GAGCTGCGAT CCATCCAGGC CAAGACCACA GCTCTGTGAT CCTTCCGGTG 247611924
GAGTGTCCGA GAAGAGAGCT TGCCGACGAT GCCTTCCTGT GCAGAGCTTG 247611974
GGCATCTCCT TTACGCCAGG GTGAGGAAGA CACCAGGACA ATGACAGCAT 247612024 c.*177delC
CGGGTGTGTG TGTTCATACA GCGCCTCAGT TAGAGGATGT TCCTCTTGGT 247612074 c.*230G>C
GACCTCATGT AATTAGCTCA TTCAATAAAG CACTTCTTTT ATTTTtctct 247612124
tctctgtcta actttctttt tcctatcttt tttctctttt gttctgttta 247612174
cttttgctca tatcatcatt cccgctatct ttctattaac tgaccataac 247612224
acagaactag ttgactatat attatgttga aattttatgg cagctattta 247612274
tttatttaaa ttttttgtaa cagttttggt ttctaataag aaaaatccat 247612324
gctttttgta gctggttgaa aattcaggaa tatgtaaaac tttttggtat 247612374
ttaattaaat tgattccttt tcttaatttt aaaaaagagt acctagaaat 247612424
ttttcaaatt atttctctaa accactaaag ataaattaa ttgtttggtg 247612474
cattttaaaa gtcactttgg caaatgattc cattgtagat aatttttaaa 247612524
acgttacctc actctaactg taatgagtgg aatttcactc ttgataggat 247612574
aggagattga aaatcgtgga gggaaagggt tgagagtatc agagcctgcy 247612624
ctcctaacta gaagtattat gtagaagatg catcttgctt tcagttgata 247612674
acagcttatt ttggatttat cccatccgag gaacagttca tctattatac 247612724
ttcacagagc attaagttat aaggaaatat ttactaattg cttctctaca 247612774
catggacaac tcttaaaccg catggaattg ctcaggatgg aaatactatt 247612824

tcctctgtac aattagccat caaagtagcc acactttgct actcaaagtg 247612874
tagtctatga actgtcgata taaggagcct gtataagaat gtaaaacaat 247612924
cacattatta aacatacctt ttagatgagc tgacatttaa aaaaaacctt 247612974
gaagactatt tttataaggg aaacagtatg agatttacat tctggtgcaa 247613024
actctgtcct gttagcactt ctgagcagca ccaactggag actgggtttc 247613074
tgcaccttgg tgaactatta ccgactgcct tcctgctaca aacac

NLRP3 (NC_000001.10, GRCh37) - gDNA - 2025-12-07

