



**POMP (NC\_000013.10, GRCh37) - gDNA - 2026-02-28**

tgaactttag ccagacttag gccttctttc cagttccggt tttgcacaag 29232216  
cagatctgca cgtaatgttg ttttaaatat cctactacco caaactagtt 29232266  
cgctcttatac ttttagctgt cagtccaaag attccctaag atgtctccat 29232316  
cctgtggcag cagactataa ggccgtttta ttacattata tttgaacaat 29232366  
acagaatagt gtaatgagca tggattctag actcataaat atgtccttag 29232416  
gcatatttat ttaagccctt catgtctcgg tttcttcacc tgtaaattgt 29232466  
acttgtaagg ttattgaaaa gattaaaga gataaaggat gtaagcactt 29232516  
agaactgtgt tgataacgca attcaaaggg cccaacatat gtcggtcatg 29232566  
atcacattta cttaatttgt agtcactatc gtcccctctc tcccctctag 29232616  
cctccggagt acccctgctc ctctagccca gaggccacac cggcctggtc 29232666  
cttttttgta ttccctagcct cagcacaggg ttcggaacat accaggcctt 29232716  
caatattatg ttttttaaaa atgacaaaag ccttgtgtcc caattttgct 29232766  
ttattagccg aacgatctca agcaaatcac tcaaaccacc tacgcctcgt 29232816  
ttacccttct gtgaaatgta atagctacct cagagagggt ttgtgttaaa 29232866  
taaggcgatg tacctacaaa agcacactgc acatcttaaa atgccgtaca 29232916  
aacgtagat gtttattaat aaaccggagt ccgtgtcttc cctcccctca 29232966  
ggcacgtctc gtcccgacc ctccctcctc ccagcccaca cccttactgc 29233016  
gcccttggcc ctgggtccct tgggattgca agcgtgggag cctcggcccc 29233066  
gcgcagctcc ctccggcgtc ccgcgcctc ctcccttctc cgcagagacg 29233116  
gacgcacttc cggcggatgt gggggccagc cctcggaaac ggaagtgagc 29233166 c.-95delC  
**GGCGGGGTGC ACTGACGGTA ACGGGCAGA GAGGCTGTTT GCAGAGCTGC** 29233216  
**GGAAGATG**gt gagtgggtac ccgggcggct ggagttccac gcgggctcgg 29233266

gaccgtggct cggcagaaac aggcagtcgc ctcccaaccc gtccccggtg 29233316  
gcggcggcgg cggcagcgtg gggctgaggc cggcctcagg cgccataatc 29233366  
tgtcgagtca cggggtttgg gtgggtcgtg actgtcgccg gggcccggca 29233416  
ctagtccac tagcagtgct tcggcttcat cctgctcctc ttagctcgtt 29233466  
ttgcgccctt ccatccctta gaccccagca ggcccagacc tcctcccctt 29233516  
acttggcgca gaagtggaaa aggcagccgt gaaagtgcaa cgttctgtgg 29233566  
ggtggcgctg gcgacccttt ccttgacggg taacctctgg gagcccagag 29233616  
ctctcagact cctcatctcc cccagcccc gcccttgtaa ctgcctagta 29233666  
aacagcccac aactataggt cgcatttgtg taacgcagct ttgctctaca 29233716  
aacttttttg agagcttgta gtgtgctaga tgtagaggg gaaaaaatca 29233766  
gacagttgct attccctggt tgccagtatt gttagtatat ctctccctc 29233816  
cttctcctcc ccaccacttt ctctttcttt ttaacttaga agttgtggta 29233866  
tttgagaaga aactgagtc accattgcca cagactctga tatcggact 29233916  
gctgtaggc catccatcca aatctagaaa gtttctattg gtaaatactg 29233966  
ctaactgta tctaaaaagt ttttaggca ctctcaaag taactagtag 29234016  
ttaggttttc gtagatttgc ctttctcggc tccttccttt attagaaaca 29234066  
gcaagtacta atcttgatat ttacagaag gaaattggga aaaatgacaa 29234116  
taacagaatc cagaagtcag aattcacctt ttctttgtgc gttgaaacct 29234166  
tgttacttta caataaagca gtccagaagg aggagaatgt tcatataggg 29234216  
aagtaataga agatacattt ggaaagcaac aatcacacat ctctgctgaa 29234266  
ggtccccaac ttctggtggt tcaacaatct tctgacttta tgatggtgtg 29234316  
aaatccatac acagtcagta gaggccatat ttgagtacca atacagccat 29234366  
tctgtttttc actttcagta cagtattcaa taaattacat gagataccca 29234416  
gtacttttta ataaagtagg ctttgtatta gatgattttg gccgactgta 29234466  
ggctagtgta agtgttctga gcacatttaa ggtaggctag gctaaggcct 29234516  
gatgtttagt aggttaggtg tgtaaagtgt gtttttgact tttgacattt 29234566  
tcaatttaag atggatttat taggaagtaa cccatcata agtcaaggag 29234616  
cattttagt cctggtagga gttcagctcc ttggtgcaga tgagtaaaca 29234666

aggccagaga ggttggtgct ttgctggcag tcacaaaagta ggtagtgac 29234716  
agtcacact agagtcacaga ttcttttctc cgtccacat gacttcttgt 29234766  
atgtagggga gttggaacct attatgcagg ttcttttaggt ccaggctaag 29234816  
gagtctgaac tttgtgcttc agacatcgat gaaccaacaa agattttata 29234866  
gcagttttgt tggaggagggt ttcatgcttg aggaaaacct tgatatacag 29234916  
aactggaaaa tgggtgagtc taaaggcagc aagaccagt agaatgctgt 29234966  
tgaagttatc catgtgtgat aggctgggct ggagtggat agtgaagaaa 29235016  
ccctgcaaag gataaaatac ctgactaaat caaatataca aacgaattaa 29235066  
gaaatcagtt aaaaagctga cttctcagaa tattttcttc tagaataata 29235116  
taaaatttga tactaaaact acctgtagct gttttacatt tttctgcaga 29235166  
atcacagga tattggactt gagcaacaag tgatttaaag ttagcgtctt 29235216  
gggccgtgca tgctggctga cacctgtaat tccagcactt tgggggtgct 29235266  
tgaggcagga agatggcttg agcacaggag tttgagacta gcctggccat 29235316  
catagttgag accttatctc cacaaaaaat aaaaaaatta gccaggcgtg 29235366  
atgttgcacg cctgtagtcc cagctacttg agaggctgag gcaggaggat 29235416  
cgcttgaacc tgggaagtct aggctgcagt tagccgtgat tgctcgactg 29235466  
cattccagcc tggatgacag agcaagacc tatctcaaaa agtaaataaa 29235516  
taaagttagc atctcatgct ttgcctgttg taacaccatg ttttctttgc 29235566  
ttgtttaata tattttcata agctgaagcc ccgggaggta gacatgtagc 29235616  
ttcagtatct agcagagtac ctgacacata gtagatggct aataagtatc 29235666  
tggtgattgc gcatttcaca gtagcgtagg gtaatcatal accaatacca 29235716  
aatgcactgt cttttttact ttgttttata ctatcctgat tagatacaca 29235766  
tagtttttat aggtagcgtc atcttcatal agaaaccaa cactttctga 29235816  
aattcccttt ttttccagc ttctctactt ttctttatcc atcctgtctg 29235866  
ttaatcccat ttctgtgttg tttttccttg tcctcagga atagtattcc 29235916  
cgaggatgct gtcttcaact tttttattct gtgttatata ctctaaccta 29235966  
agggagtggg ttttccaggg gaaacaaatt caatcatgcc ataacctttc 29236016  
agaggctttc agttttggaa taaaacccat atttctttgc acataagatg 29236066

tttcactttt gtatttcac agcctttact tctgcctcac tggaaacata 29236116  
tttagccagt tatctcaaac tacctgaagc ttgttcattt atattttctt 29236166  
gcctttattc atgttatttt ttcttggaaat gcctttcaaa ctgacagcat 29236216  
tcagagatca cctcaggaat ccttcccaca tctaaatttg gtattttcat 29236266  
tgtaccatgt gtgtctctat catatcataa tgtttaaggc ttgctgtaat 29236316  
tgtctagtct ggactttttg agggcctctt atttttctgt ctctactta 29236366  
aacaatattt ttgacacagc tgcctgggtg tgtgtttaa tttttttct 29236416  
atttaataat gttttttatt tgtgtttag **AATGCCAGAG GACTTGGATC** 29236466  
**TGAGCTAAAG GACAGTATTC CAGTTACTGA ACTTTCAGCA AGTGGACCTT** 29236516  
**TTGAAAGTCA TGATCTTCTT CGGAAAGG**gt atatggggga gttatgactt 29236566  
tgattttggt atgtttctgt gaattttcac aatattcttt aagtattttg 29236616  
ataggctata catgtgtatt tagttggcag atggcaagta atatacctta 29236666  
catgggggtgc agaggggaag aggcttagat attttctgta gtggaagagg 29236716  
tgtctcatca aagtagtagg ttcccaatta gagcatcctc ctaggcagtg 29236766  
gtgcccatta gcatgatttg gtaggattct ttttatttat ttttttgcta 29236816  
ctgataactt agccatttgc cttcttgtct taactattag ggtaattcac 29236866  
ttttctttgg gaggcactag aacatagcag ttgagagatt aaactctgga 29236916  
ttcagtcggc ctgggtttgg atcgtggctc tgctctttac tagatgtgtg 29236966  
cctttggaca aatcacataa ttaatgtctc agtgcctta tggatagaat 29237016  
aggcctaata atagtctgta tcttcttttg aggaataaat gagttaatac 29237066  
ctgaaaaata ttttaaagg tacctgacat tagaagcact cagtatgat 29237116  
tggctaccat ttttttctt ttctagcttt agcatgcagt tacgccatgt 29237166  
ttttgatttc ctttttgttt ctgtatgttt aggtctcagt ttctgggtact 29237216  
agaccatact ctttgcaggc cacttttctg ctttaataaaa taaggataac 29237266  
gacctttccc ccataaacat tttgtgtttt gaatttttga attttacatc 29237316  
taattttaa gtatttactc ttattttttg tttatttatt tattttttga 29237366  
gatggcattt tcctcttgtt gccaggctg gagtgcaatg gcgcatctc 29237416  
ccctcatcgc agcctccgcc tcccgggttc aagtgattct cctgcctcag 29237466

cctcttgagt agctgggatt acaggcatgt gccacatgccc cgggctaatt 29237516  
ttgtatTTTT agtagagacg gggTTTTctct gtgttggca ggctggcctt 29237566  
gaactcctga cctccagtga tccgtacacc ttggcctccc agagtgtctg 29237616  
gattacaggt gtgagccact gcgtctggcc gtaatttact cttactataa 29237666  
tagaatggca ttctaagtct ggtgtctgag tacaaatata atccctcatt 29237716  
acagactttc agTTTTgtag taaaaaaaaatg cagcatatag cctgtgaaat 29237766  
tggagatata atttgatatt tataatcaag ttgattggct aggcagtaac 29237816  
taaggctctga agatTTTTTT cccccacat gaaatgttcc ttcttcttcc 29237866  
tgattggact ggggcaggac cattttcaaa acccacttcc tggataatgt 29237916  
tttgtaaaaa gacaatattc aataaacaat tgttgcaggg tttctaaggt 29237966  
ttttattagc tttaaaatcc tagtttggat aataaggtag tcatctttat 29238016  
atagctagag tgataaagac cagtggcctg gttctagtgt tgccttacct 29238066  
aacatacttt atacatagta ggtgttcagt aaatgttaaa cctattgttc 29238116  
aacatgttta ttaaagatat attaaatatt gaaagtgtta gacctgaagg 29238166  
gaataggctt agtttatata gtgcaagaag tacctcatca gagtaatagc 29238216  
aataaacata cattcattaa atttcttcta gatgtggcac cagatTTTgg 29238266  
caagTTTTcc ctagtgattg aagtcttgac caccaatgtc tataatggat 29238316  
acattcttac attattatat atacctTTTT ttttcctttt ggtgtgtagg 29238366  
tctatgaatt tttagcacat gtatcaattc ctatgactgt caccacagtc 29238416  
aagatacaga acagTTTTgt cacccaaaa aactctctca tgccatccct 29238466  
ttatagatat gattttgagc tctgggtatt gagtgatatt taatctcctc 29238516  
taaagtTTTT ttttttaatg tcctttcagT **TTTTCTTGIG TGAAAAATGA** 29238566  
**ACTTTTGCCT AGTCATCCCC TTGAATTATC AGAAAAAAT** gtaagtatat 29238616  
tattatgtcc ttatTTTTat cttctaatag ataaatactt ttactaatat 29238666  
tggtttcatt ttattaaaac aatTTTggta ctgaggattt gcccatgaag 29238716  
aatatgaggc gttatTTTca aacccttgt aggatagact taaaaattac 29238766  
actgctcctc taaagctccc tttctatgcy ttcttacctg cttttttaat 29238816  
gtacgtctcc aaagggtgat ccacttctcc attcctctca caggaatTTT 29238866

ctctttcaat aatgctgttt cttttatatt tttcctgccca tttttgctgt 29238916  
tgacttccaa gttcatatct ctagttttga cctctttaag tcctgcatct 29238966  
ccgagttact gtaggacaca gccactaggc acagtaggta cttcgatgaa 29239016  
tatgacatca tccccatcct taaataaactt aaaatttaat gaggaagaca 29239066  
agcagtgggt aggagaaggc ttcgtaaaat gctagagaag accaaggatg 29239116  
tgacagccac ctgtgcttag ggcttttttg gaaggcttta tagaagagga 29239166  
gggacctttg aacagtttta gaccagaaag tttactccta aagagaggat 29239216  
agcatgtata catgtccaaa acacaattta aaggattctt aaataaacat 29239266  
ttagaggaag aagaaaaagg tttctgacta cttggggaag atgatgcagt 29239316  
tgttaggtaa cagaaaactg atctgtatth tgtttttgtt gtttgtttgt 29239366  
ttcgctttct aataagagga taggtctgcc tataagaaag agtagaacia 29239416  
ataatgtaat tatgaaattg aagttcaaat tagatgagaa aaataaaaaa 29239466  
attcctcatc gatttaagtg aattcaggtt tcagggtgcag aagttgacag 29239516  
cccagagtac acttataagt atgtgagtat gattataaaa gcacagttga 29239566  
tcatctttga gaactaatgg gagaaatgaa aattggttat agatggatac 29239616  
atattccact tttgtataaa ggatctaact aaaaaataag attgtctgtg 29239666  
gtaacattga tccctgaaac tgtttcttaa gtggactatt gagtgagctg 29239716  
tgagcattta atagggtaag cagtgatcat cagcatctga atgaactcag 29239766  
caaattaatt ttagttcact cttttactca gttgccaaat gggtcagtca 29239816  
agggatcaaa ttatctgaca aggataaga ttgaggatta catggtggat 29239866  
tattaaccga gtgaaagtag tgtagggtaa agtatatgag gttggtaact 29239916  
gtaccagag aacggtgatt agggaaatag caatttgag ggaatatttt 29239966  
gatagggctt tttggcctct gtctacatct taggtagtca ggtggacaca 29240016  
taggaaggat aagtattttt caaggacttg tgggcaacca aagaaagaat 29240066  
gtatattagg tttttgaaa aaaggttgag aaggatagtt cattctgttg 29240116  
aataattgaa ctatatcatg gtgataaaat agaccaaagt ctagaccaa 29240166  
atthaaggaa aacatttata gaggtgagtg tgaagttctg cgtttgatt 29240216  
caaaaaatga attctacacc tttgggcagg gtaaagtgac ttgctctgta 29240266

aaacttgact attttaattg actgtatact cactataagc cagcagatta 29240316  
cgtttagttac taaaaagaaa ggtaaatgca gtcttgggct ttgttaataa 29240366  
gatggggctc aatcaaggg agattatatt attttcctgt gtattagtct 29240416  
ggctattaga tttggaatat tggtttagtt ctaagcaata catattaaga 29240466  
gaaactgaca aatctgagtg agactaggtg gaactgtgaa gaatctaaaa 29240516  
acttcagaga tctttttgag acttacatac atctactgca tctcttcttc 29240566  
tttaatcatt tagccagcta atggcagtct cactctttat gtgactctta 29240616  
ctgtctatta taaatccttc agcatggatt gtgtagttga actatgtggg 29240666  
caccctactt tgctaagtaa acttggggca tattgcttaa ttttctttaa 29240716  
gccttagtct tctcatctgg agttagtaat agcccatcct tggcatattg 29240766  
ctggcctcta gtagctctgc atgattggga gcttcagtgg tgatagtgat 29240816  
ggaagatggc catcatcatt tgtaccagtg gttctcaact aggggaggat 29240866  
catcctcctg cccctacaa gggaacagtt ggcaaagtct gaggacattt 29240916  
taggttgca caagtgggca ggtgggggat ggggggatgt aatattggca 29240966  
tctatggggg agagccagg gatgctgcca aacatcctac agtacacagg 29241016  
acagcctgcc acagtgaaga attatctggc ccaagaaatc agtagtgagg 29241066  
agggttgaga tacatacata atgtcttcca aactggatta taatctccaa 29241116  
ggtaggctgt tcagttttgt tgtgtgttc cacagagcct aattttgca 29241166  
acggttgcta acttacatgt tgattgataa ttacagtatt aatatcacat 29241216  
tacaagatgg ctgtattcat caaaatttac ataaattgag ttattataca 29241266  
taaaattaca tttactgctg ggtgtggtgg ggtgtgcctg tagtcccagc 29241316  
ggcgtgggag gctgaggcgg gggattgctt gagcctggta attcgaggct 29241366  
gtagtgctct ataatcgtgc ctgtgaatag ccactgcact ccagccacat 29241416  
agcaagacc gtctcttaga ataaaattgt attatcatga ggataagcca 29241466  
atattttaaag caaaccttc acttagaact tcagatcata taccataat 29241516  
aaaactgca aggttttccc taaggacat ctgtcaaat ttgctgtgta 29241566  
aagctaaagt aattaaaaag catttggtta gtcaccttac tttcaaactt 29241616  
catagtcata tcccaagtag gtgctaact ctcaatagat tttgttcaa 29241666

aatgaccttt ttgattacta ttagaagaca atgttatcaa gagagtagcg 29241716  
tgtaataaaa aatgacaaga aatgacttta cctcattata atcaccttag 29241766  
ctcagacaaa tctttgtaac agtctgtttg catattacat tcactatcct 29241816  
taggagccat ttttggaaac tgttttagaa tccatgagtc aagtcgattc 29241866  
atthttgcctg aaatacatta agttatggcc aaagtccctt aaatgtaata 29241916  
tcagtactta gtgaaagtat gatccaggaa aaattgctga ttagtaccba 29241966  
atacaaattg aataaacttt tgagagatgt ttgtttttcc cctgaggcaa 29242016  
gtaccaaaaa taagtggagt ttaaacaatag ttaattaac aggatgattt 29242066  
agtggtcaga ttatttcttt tgctgaatcc ttttaaatat atgccttcat 29242116  
acttagaaat taactattht tgtcagtgga tgtgacattt tctggatctc 29242166  
aaattacacc tttgctagtt ttgcagtact ttaatacaaa agcgctaaaa 29242216  
tatgattgtc ttgtaaatct acttttgaat aggagacaca ttcctttact 29242266  
tttataaatt tggaattttg gtagtaattt tactctggta aaagtacacc 29242316  
tgcatgctaa atgaaatata gacatatgtg gtctaaaatt tgcagaaaa 29242366  
aattagtaaa aatacttagt ttttattaca ggtatggata ttaaaattct 29242416  
tcatctaact attgtgttat atatatgcca ctgctaactg ttttgaaagc 29242466  
agagtattga gtgtaatgth taaaattaca ttgtcttttg tagTTCCAGC 29242516  
TCAACCAAGA TAAAATGAAT TTTTCCACAC TGAGAAACAT TCAGGGTCTA 29242566  
TTTGCTCCGC TAAAATTACA GATGGAATTC AAGGCAGTGC AGCAGgtgag 29242616  
ttgatggatc tctgttgcath atgtgtcgath atcattcatg aggaatcttc 29242666  
tgthttcata acagctatth ataccttath taccttaca cctattctac 29242716  
ttccctcccc cthtttaggg tatgacctg atthctactt catagagggg 29242766  
aaaaagaagt cattaaatgg aaaacttcaa attacaggct cagtgtctga 29242816  
aaacttacct gcatctgctt tcatgtthtt ctgggtthtt thtttatgta 29242866  
ttacattgaa tttgagatcc ctctaagaath atccaagtgg aggtgtcaag 29242916  
tatacaatth gtatatagth gaatatacct gthttctaagg aataagtact 29242966  
tggaaaatgt cthtccaath atgtaagaac caccctccta cctgtgctth 29243016  
ggattctath ctgttacath acttcaggaa aatccctth tcaatgatgc 29243066

cttctcaagc tgatatcttt aaccctctc tgcttgctct gtctcagcag 29243116  
tagcatttga accgctgttg tcttttaaaa caaaaaaaaaa ttgtatcaat 29243166  
ttcaaattcc tttatagtaa cttgtctctc attgagtgtg cttttgcttc 29243216  
ttgaaaagtt gtctacattt gctttctata ctcctttccc tgctatttat 29243266  
ttaaccctact gtttctgtct cccatgacac caatgaaact gtcctgaac 29243316  
aatgtggaca tttttacctt cactttactt catctccctg tagtatttga 29243366  
cactaataat ggcttcttcc tttttccctt ggcttttatg tttttacttt 29243416  
gtatttattt ttttgataca ggatctcatt ctgtcatcca ggctggagtg 29243466  
cagtggatg atcatagctc actgcatcct caaactcctg ggctcaagca 29243516  
atcctcttgc ctcaactctc tgagtagcag ggactacagt cacttgctac 29243566  
ctcgcctggc tagttttaaa aattatgatt tgtagaaacg ggctcttgct 29243616  
atgttgccta ggctgtcctt aaactcctgg cctcaagcta tcatcccacc 29243666  
tccttggctt ttagaacacc acactttcct gatgtcctcc tttctgaatc 29243716  
cttgttctca ggtgtctctg tgtaggttcc atttgttttg cctgtttcct 29243766  
aaaatgccag ttttgttagt gcccacatctc tagtcctttc ctgaccctat 29243816  
ttcctacttg ttgctttagt tatcaattat atgttgatga ttccaactgg 29243866  
gcgtggtgcc tcacacctgt aatcccagca ctttgggagg ccaaggtggg 29243916  
tggatcactc aagctcaggt gttcaagacc agcctgggca acatggcaaa 29243966  
accccatctc tacaaaaaaaa aatacaacaa atgtgccagc cgtggtggtg 29244016  
cacacctata gtcccagcta ctcaggaggc tgagggtggga ggatcatttg 29244066  
agcctgggag tcggaggttg cagtgagccg agatcgtgcc actacactcc 29244116  
agcctaggtg acagaatgag actccgtctc aaaaaataaa atatgttgat 29244166  
gacccccaaag ttacaattct catgagctat aaacctatag gcttttccaa 29244216  
ttggaaagcc caattggaag tcccacaggc acctccagtt ttacatggac 29244266  
aagtacagaa taactcataa tcccataatc cccacatac tccttatccc 29244316  
atatgaatag gtttctgcct aaggcagaaa ttggataatt agccttggtt 29244366  
atgtcaccta gcacccatcc taacctctc ccctgctccc ccaaatcatt 29244416  
cagtttatta cttgctctcc ccaccattgc tactatgctg gtccttgccc 29244466

ctgtcagact tcactctggat tactgcaaca ctcatccctg ctgcccctcc 29244516  
aatccttggt aagactctaa tcagaataat ctttgtaaaa cacagatttg 29244566  
attatgtcat tcccctcact ttaccctcta aataaaaaata aaaccaaca 29244616  
cttagtgagg ctctgtccat gaattggctc cttgcttccc accacacttc 29244666  
ttatcctctt aaactacttg cagtttccta attcattaag ttctttcact 29244716  
gtaggcggtt tgcacacatt tctcctactg gtgcagattc ctttctctga 29244766  
cctagctaaa ttgtcttttt caataaattt ctattggccg agctgggtgg 29244816  
ctcatgcctg taatcccagc actttgggag gccgaggcag atggatcacc 29244866  
tgaggtcagg agttcgagac tagcctggcc aacatggtga aaccccgctc 29244916  
ctactaaaaa tacaaaaatt agccaggcct ggtggcatgt gcctgtaatc 29244966  
ccagctactc gggaggctga ggcaggagaa ttgcctgaac ccaggagaca 29245016  
gaggttgcag tgagccaaaa tcacaccatt gcactccagc ctgggcgaca 29245066  
agagcaaaac tccatctcca aaaaaataa taataagata aattctacta 29245116  
atactatcaa ttgtatttgg ctaagtcatt ctggaagcta ctcgttttcc 29245166  
aaagataaag ctcttaaaaa acatggtttt gagtaaccta gggttgaatc 29245216  
ttggcttagc catctactag tcttaagaac ttgagtaagc tggagagctt 29245266  
tctgaacctt agatttttta atttaatgtg aaataaggag aacagtaaga 29245316  
gtagcatagg attattctga agattaaatg aaatcacatg tttggcacia 29245366  
aattgttagc ttcccttttt attttcctct tactcagatt tcaactacag 29245416  
attgctcaaa ttctggattt aagtttttaa tactatttga tccaaatatt 29245466  
tttgcccaga attctctgtc tttttttttt ttttcttatc tctatacttt 29245516  
tgcagttttg ggttgtcaag atgtataaca gctgcctgct cctccctgct 29245566  
tttgatgcat tcttaggact gtactctgat ctaactacca gaccccttgc 29245616  
tgtctggttt aatttacagg ttccattttt tgtttcttcc tcttctccc 29245666  
acttcctttt tttttttagg ttgacaatc tagagaaatt tttccacact 29245716  
ataaagattt taaatatctc tatggaacat tagtaattga aaataatata 29245766  
tttagtctgg atacattttg ttgggggtgg ggggaatgtg agaaactgcc 29245816  
ctcttagatt ctaacggtgt gattatcttt aaaatactac tatcatttag 29245866

tcaaagacca cctatthttgg tagtctgtgg gaatatcaaa aattatctgc 29245916  
attagctggg cttgggtgaca tggacctgta atcccagttt tagtgggagg 29245966  
atcactagag cccaggagtt tgagaccagc ctaagcaacc tattgagttg 29246016  
gactttcttc aggaatttga tcatcctaca tgtatcagga atgaggcgtg 29246066  
atgttaagct ctgggatttt gcatttcatt acatggtata tgccgtagtt 29246116  
ttcctgagca gaagcaaagc ctcaaaatac atgcacacca ggtaggatta 29246166  
ttgttaatga aaagtataat ttcagtgtct ttacaactta gtttgtgtct 29246216  
aaaatatgaa ctagtgtttt tttccacttg ttaaattgat cttgtatttg 29246266  
gttttgcgaa ttttcaaaca aagaataaag aacatgaaat tagactatat 29246316  
attctgtcat tttcccctga gttttttcta atcttgtccc ttcatacttt 29246366  
tccccaaagG **TTCAGCGTCT** **TCCATTTCTT** **TCAAGCTCAA** **ATCTTTCCT** 29246416  
**GGATGTTTTG** **AGGGGTAATG** **ATGAGACTAT** **TGGATTIGAG** **GATATTCTTA** 29246466 [p.t111fs](#) [Ile112Trpfs\\*3](#) [Phe114Leufs\\*18](#)  
**ATG**gtaagtg tcattcagca cttttttatg gagcccttgt aatttaaaag 29246516  
gcaaacagct gcaaaaagaa taggcaaaat tcttgtcctc atggaactta 29246566  
cagctgattg ggttcacttt attcattgca ttaagataaa gtttaatggt 29246616  
agtaactggt ctttaactgt ttttaaaagt gaagattggc tgggtgcggt 29246666  
ggctcacgtg taatcccagc actttgggag gccgggggtg gcagatcacc 29246716  
tcaggtcagg tgtttgagac aagcctggcc aacatggtga aaccctgtct 29246766  
ctactaaaaa tataaaaaga aaaaaagtga aaattattta tgaaattcta 29246816  
agagtacata gtcatttcag tctagtaatg gtggttattc acttcatgct 29246866  
ctgagcttca agtgtaatat gtcagtctga tattcctagg gtgacttaa 29246916  
caatgataat tatttcagaa ttcacattgt tgggatgtga ctggtgttgt 29246966  
ttttgtgtgt ttagtttgat tttggggttt tttgactagc attttaaaaca 29247016  
actggaaaat aaatctttct ttaaaaagta gctccccaaa aaagtaattt 29247066  
ttgtacttct acagggtgata aataggaaag aggaatctgt cttttttttt 29247116  
ttttttttca agatggagtc ttgtgctggt acccgggctg gagtgcagtg 29247166  
gcgcaatctc agctcactgc aacttccgcc tcctgagttc aagcaattct 29247216  
cctgcctcag cctcccaagt agctgggatt acaggcacc atcaccacac 29247266

ccggctaatt tttgtatfff tagtagagac ggggttttac catggtggcc 29247316  
aggctggtct cgaactcctg accttgtgat ctgccccgct cggcctccca 29247366  
aagtgctggg attagaggcg tgagccactg cccccggccg aatctgttat 29247416  
ttttaataaa attccctgaa taattgtaa tgaatttaag taagaacaat 29247466  
atatgcagca tcctctatff tttctggtcc tgaggaagat aaacaaatac 29247516  
aatcctgtcc aatgctgcct ctgctcgta tgccccagca gtgcaggaga 29247566  
aacaaaaata tccaacagga ttaagtttta ttagttttgc ttggctgctg 29247616  
atgtccggta aggaaatgct gtggacataa cagaagtcta gtgagcctcc 29247666  
tttcagaatc ttccctgagg gagcattttg gatgcaggaa aagctgggat 29247716  
tcttaagctt ttacattgaa cttagacctt atttaaaact actaaggatga 29247766  
tagttcagggt ctttagttac aaaagcattc atttaaaaat ctgcttctgt 29247816  
aattctgttt aaagaaaggg agagggactt aggagcattt atctagtcag 29247866  
tcaaatatgt gtcaggcact gggctaggct ctgaatatac agctgtgaac 29247916  
aaaacaaata tctgtgcttt caaatggggg agataaacac ataaacacaa 29247966  
atatacaatt tgataattct aggaataaaa aggatgtttt tgggttggga 29248016  
gggcacatac ctctgggaat acaacacaga agtgaatttc tgaaagaaac 29248066  
atgaaatcat tgacctagaa gtagaaggag agtatttcag acagaagaga 29248116  
tgagtatgtt cagggtatgt aacctgagaa cagctgaaga actctgaacg 29248166  
gtttgagatc ttactctact ttgaagctaa cttgttagcc tgccatgaat 29248216  
tcatggatgc tggcagaaga caagagactc ctaaaggaca gtttcttatt 29248266  
catagcaata gcgtagccag agtatcagca tttcttttgg ttcccttagc 29248316  
cccacttctt atggggcagc taagaagagg gtaaggatga gccttgtaca 29248366  
ttgagtgtgt tacgttagag gagaggaact ccatgttcag gccacctcag 29248416  
ccttataact ggacagtaaac ctgcctgtcc tgtgctgctt tgtcttatga 29248466  
ggctgaaacg gctttggaaa gatagcctag aacaaaggca gtttagtgtc 29248516  
tctgctccca gcttgacagaa tggagagacc aatagagaac tgtctcccag 29248566  
catatataag agcactttaa gaaggccat atggctggca tgttttgagc 29248616  
aaagtagaga gtagaataag gttgagatca aaaagctcag caaggaacag 29248666

atgaatcagg gcctacagac catgaaaaga agtttagaat ttcttcagaa 29248716  
tgcaaaaaaa ggccattgag cagttttaag taaggatgta atgtgatgga 29248766  
attatatggt taaaaaggtc actagctggc tggatgtggt ggctcagatc 29248816  
cataatccca gcactctggg aggagaggt gggaggatca gtttagccaa 29248866  
ggagtttgag accagcctgg gtaagatgag accctgtctc tacaattttt 29248916  
tttttttaa ttaattgggc atagtgggtg gcagctgtag tcccaggtag 29248966  
tcaggaggct gaggcaggag gatcacttga gcccaggaat ttgaggccac 29249016  
agtgagcagg gatcacacca gtgtactcca gcctgggcga cagagtgaaa 29249066  
ccctatctca aaaaataaaa aataagccac ttgctatctt gtgggcatct 29249116  
tttaaaattc attccttgtg tctctctaag gtagctatta ggaaaaatca 29249166  
cctgttttag tagatTTTTT ttgttttggg gacacgagtc tagctctgtc 29249216  
accaggctg gagtgcagtg gcgcatctc ggcttactgt aacctccacc 29249266  
tcctgggttc aagcaattct cctgcctcag cctcccagggt agctgggatt 29249316  
acagggtgcc acgaccacac ctgcctaatt ttgtatttta gtagagtcag 29249366  
ggtttcacca tcttgccaa gctggctca aattcctgac ctccgtagt 29249416  
ctgccccct cagcctcca aagtgctggg attacaggcg tgagccatca 29249466  
cgccccgcca ggtagatgat ttttatccac ctggtagatg attacagtga 29249516  
gaccactgta tttgggtag ttttttctt gtgggaactg ttattgcata 29249566  
atatacgggt aacttagggc ttcaccttag ggacctgaat tagctgttcc 29249616  
tttctgcctc aaatagtta ccctcatttt tcagatccca acctaaatat 29249666  
tactcagaga gtccctcgtt aactactggt agtctgttct tgcatgcta 29249716  
taaagaaata cctgaagctg ggtaatttgt aaagaaaatt tattttggca 29249766  
tatggttctt caggctgtac aggaagcata gtgctggtat ctgcttctgg 29249816  
taagggcctc aggaagctta caatcgtggc agaagacaaa gggggccag 29249866  
tgaattatat ggcgagaggg agcaagagag tgagggggct gccacacagc 29249916  
tttaaacaac cagaacttgt gtgaactcag aacaagaact cacttatccg 29249966  
gggggtggtg ctagaccatc catgaagtgt tcaactctgt ggtccagtta 29250016  
cctccctaca gggccacctt ccgactggg aatcacatgg ctttgttttt 29250066

tttctctctc tgtcaccag gctggagtgc agtggcgcgga tctctgctca 29250116  
ctgcaagctc tgcctcccgg gttcaagcga ttctcctgcc tcagactcct 29250166  
gagtagctgg gactacaggc gccaccacc acgcctggct aatTTTTTgt 29250216  
atTTTTacta gagatgggggt ttcaccgtgt tagccaggat ggtctcgatc 29250266  
tcctgacctc gtgatctgcc cacctcggcc ttccaaagtg ctgggattac 29250316  
aagcgtgggc caccgcgctt ggccgggaat cacatttcca acatgagatt 29250366  
tggaggggac aaacatccaa accatatcaa ctacctaatac taaagtaatac 29250416  
cccgtctgt caccctgcct tatattaatt ctttacataa cacttatgtg 29250466  
atTTTTtctt tatttattat ttgtccaact taaatatac tgtcaggaga 29250516  
gctggagatt ttttcttgt taacagttgt gttcccagta cctgataggg 29250566  
ggcttgatcc atagttaagg gtcagtgtga tcacattctt atcacctttg 29250616  
acacaaaaca cagtgttaag tctataatca gagagtagct tgtaaatcta 29250666  
aatactgtgt aaagactgtg acagtattgg agatgatgac ttttttgcct 29250716  
gcttatcagt gaagtactta ggcaagttaa ttctgtacat tttacaagat 29250766  
taagaaggac gtataaggac actagtagaa tcaaaaatag actTTTTtctt 29250816  
aatgctggaa ggggactttc atgtactcta atcccctaac tggaagatga 29250866  
gtaaatggaa gctcacagag gctcagtcct cactcagagt ctcacggcga 29250916  
gcttgtagta caacagatgc aaaaccgctc tccaccagtg ccttgcttac 29250966  
atgatatgct gtcttttgggt gcaagtgatt tatttaataa atgcatttta 29251016  
ttaaagaagc tttaaaagc aggggtgtgga gaaaagtta gttacataaa 29251066  
tgagtatatt ctttgtgcaa aaatttgaaa tattaccatt gaaactcaga 29251116  
tttgctgtag tgaccctcaa tcccattttt ctcgttccct aattaccggc 29251166  
tgTTTTtagtt tggTTTTagtc tgtccttcca gactgttctg cgtgtctttc 29251216  
tatgtagtca aaaatattgc cttttttttt ttttaagttga ggTTTTgagt 29251266  
gccttttata tacacagcag tttattaatc tccagtctct taggagggtcc 29251316  
agtgaggaaa catccacatt gtactgaact gttcctcttg gtagccacca 29251366  
ttattatgtg cagggttatt catttttaca aagtgatttt acgatttagt 29251416  
tcattaggtt tttattctgt ttctagtcct atggttgagta gaggacaaag 29251466

aaaaagtctc tgtctttagg aagcttatgc ttggtattaa ttttaaaagt 29251516  
tcttttaggt gtataatcac agttaaata aggcttttgt ctgactcatc 29251566  
tgtaaacaca aaagtgatga tttttaaagg ttttcttct taagaattct 29251616  
tacgtttgtg tggatacaac aggtcagaag acaatacaga taaaacattt 29251666  
ttgtgaatta agagattggt tcccgtcctg tgggaagcca ctagaaaact 29251716  
taagaacttt gaaaaaaaa cttttgtcaa tctgtttttt ctttttaaat 29251766  
ccactatttt gagatattat tgacatacaa taaagtacac ctatttttaa 29251816  
gtgtacagtt ctgtggggtt taattaacat ggaacctggt ctcctaaaca 29251866  
gaggagtaga atgttttcat tgcctcacia agttcccttg gtcccttttc 29251916  
agtcagtcac cccaccccag ccccaggcaa tccactgggtt gttttctata 29251966  
acttttaggt agttttgact cttctggatt cttatgtaag cagaatcatt 29252016  
gaatgtatct cttttttgag agtcttttaa aatgtttggt tttgtttgct 29252066  
ttcagATCCA TCACAAAGCG AAGTCATGGG AGAGCCACAC TTGATGGTGG 29252116  
AATATAAAGT TGGTTTACTG TAATAGTGTG CTGTTTCATGG AAACCGAGGG 29252166  
CTGCATCTTG TTTATAGTCA TCTTTGTACT GTAATTTGAT GTACACAACA 29252216  
TTAAAAGTAC TGACACCTGA GAATTTCTGC TCAAGTAGTA TCAGTGATCA 29252266  
TTTAAAATTT GGAGGGGTCT TTGGTTTACA GCCATGTGAC AATTTAAAAGC 29252316  
ACTAAAGGGA GATCATGTTA AAGCTCTTAA TTTATATTA AACAGTAGCC 29252366  
TTTGTCCTTA AAAAAGTTGT TGCTCATGAA TATTATAAAA TGATCTACAG 29252416  
GTTTCAATTC AACCTGTTTC TAGGTTTTTT TGTAATTTA GTTTTGATTA 29252466  
AGCATTATAA GCATTTGAGT CTATAAAGTT TATAGTAGCA TCTTTCAGAA 29252516  
TAAACATTTT TAATGATTT CAGTGGCAAC TCTCAAATG ATTACAATAT 29252566  
GAGATATATC AGTGTCTGCC ATTAACACTC ATAAGAATAA TATTTACTGT 29252616  
GTCAGTGCTA TTTTAGGATT ATAGTTATTG TTTGATTATT TCAGGTTGAA 29252666  
AAGTAGAAGT TCCAAGGTTT TGATTTTGGT CTGGTCTTTA AGTGAAAAAT 29252716  
TAAAGCAACC AGTAGATGTA GGTAAAGTT TACTTCATA GACTTAATAT 29252766  
GTAATTAATA TATTGCCAAG CAACACTGTT AAAGAAAAGT AAAACTCATT 29252816  
TTTTCTTGTT CTTAATTTAT ATATTACAAG ATACTGTAAG GTATCTTTA 29252866

TGAAGTTGAT ATATAAAAAT TTACATTTTT AGAACATTAG TGAATGGATC 29252916  
ATCTTTTACA ATTAAAAGTA TATTTTGATT ATCAGTTTCT TAGGAACATC 29252966  
TTTGATTAGA TAAATTACTG ATTTGAAACA tttggcaatg tctagagact 29253016  
ttttggagtt acaacttttg ggttgggctg ctactggcat ctagtgggta 29253066  
gaagccagga atacagctaa agatcctaaa atgcacggaa catcagcatc 29253116  
aatttatggt cttgtaacta gttgaagaca ctaaagggaa atgaatttaa 29253166  
aactcacaat ttatatattgt acagtagcat tctatgtctt taaaaaactt 29253216  
acttatgaac attctaaaac catctacata cagtttgcac tctgcaacca 29253266  
agatcatttg gttcaaaatg tcagtagttg ctaaagttga caaaccttga 29253316  
gaaaagtcaa gtacacttaa aaaatttctt ttgttgctca ggctggagta 29253366  
cagtggcgag atcatggttc attgcagctg agacttccca ggctcaagca 29253416  
atcctcccac ctcagcctcc caagtagctg ggagtacagg ggtgcatctc 29253466  
cacacctggc taatttttta tttttttata gaaatggagt ttcgctatat 29253516  
attgcccaga ctggtcttga actcctggcc tctagtaatc ctctgcctt 29253566  
ggcctcccca aagtgctggg attacaggca tgagccactg cacctggccc 29253616  
gttacacatt tttaaaatag atatcttgct cttacctatt gagattaagt 29253666  
ttagaatcgt ctttgctaata acagtgttct ccagcccact ttacacttaa 29253716  
ataataagaa aatgtagaaa taataaagat tcactaattg cttctacata 29253766  
tattctcctt aattaaggaa gttggagatt tcttctgtac cttaaacctt 29253816  
ggaataatag ataacccttc ctgaccagta gagggactg tgtttaagag 29253866  
tgtagtttaa atggaaaatg tgaggcttta atatagaact tggtaatcac 29253916  
aaataacact ttctgatggt ctttttgctt cctctctcct cttttaacct 29253966  
ttgtgttacc agtggcctc acccctggat

*POMP* (NC\_000013.10, GRCh37) - gDNA - 2026-02-28

