



POMP (NC_000013.10, GRCh37) - gDNA - 2025-04-03

tgaactttag ccagacttag gccttctttc cagttccggt tttgcacaag 29232216
cagatctgca cgtaatgttg ttttaaatat cctactacco caaactagtt 29232266
cgctcttatc ttttagctgt cagtccaaag attccctaag atgtctccat 29232316
cctgtggcag cagactataa ggccgtttta ttacattata tttgaacaat 29232366
acagaatagt gtaatgagca tggattctag actcataaat atgtccttag 29232416
gcatatttat ttaagcctt catgtctcgg tttcttcacc tgtaaattgt 29232466
acttgtaagg ttattgaaaa gattaaaga gataaaggat gtaagcactt 29232516
agaactgtgt tgataacgca attcaaaggg cccaacatat gtcggtcatt 29232566
atcacattta ctttaattgt agtcactatc gtcccctctc tcccctctag 29232616
cctccggagt acccctgctc ctctagccca gaggccacac cggcctggtc 29232666
cttttttgta ttcttagcct 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 gtcccgacct ctccctcctc ccagcccaca cccttactgc 29233016
gcccttggcc ctgggtccct tgggattgca agcgtgggag cctcggcccc 29233066
gcgcagctcc ctccggcgtc ccgcgccttc cttccttctt cgcagagacg 29233116
gacgcacttc cggcggatgt gggggccagc cctcggaaac ggaagtgagc 29233166 c.-95delC
GGCGGGGTGC ACTGACGGTA ACGGGCAGA GAGGCTGTTT GCAGAGCTGC 29233216
GGAAGATGgt gagtgggtac ccgggcggct ggagtccac gcgggctcgg 29233266

gaccgtggct cggcagaaac aggcagtcgc ctcccaaccc gtccccggtg 29233316
gcggcggcgg cggcagcgtg gggctgaggc cggcctcagg cgccataatc 29233366
tgtcagagca 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 tgttaaatgt gtttttgact tttgacattt 29234566
tcaatttaag atggatttat taggaagtaa cccatcata agtcaaggag 29234616
cattttagt cctggtagga gttcagctcc ttggtgcaga tgagtaaaca 29234666

aggccagaga ggttggtgct ttgctggcag tcacaaaagta ggtagtgac 29234716
agtccacact agagtccaga ttcttttccct 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 tgggggtgc 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 gtaatcatac accaatacca 29235716
aatgcactgt cttttttact ttgttttata ctatcctgat tagatacaca 29235766
tagtttttat aggtagcgt atcttcatat agaaaccaa cactttctga 29235816
aattcccttt ttttccagc ttctctactt ttctttatcc atcctgtctg 29235866
ttaatcccat ttctgtgttg tttttccttg tcctcagga atagtattcc 29235916
cgaggatgct gtcttcaact tttttattct gtgttataca ctctaaccta 29235966
agggagtggg ttttccaggg gaaacaaatt caatcatgcc ataacctttc 29236016
agaggctttc agttttgaa 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 ttttttttct 29236416
atttaataat gttttttatt tgtgtttag **AATGCCAGAG GACTTGGATC** 29236466
TGAGCTAAAG GACAGTATTC CAGTTACTGA ACTTTCAGCA AGTGGACCTT 29236516
TTGAAAGTCA TGATCTTCTT CGGAAAGGgt 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 tcctcttggt gcccaggctg gagtgcaatg gcgcatctc 29237416
ccctcatcgc agcctccgcc tcccgggttc aagtgttct cctgcctcag 29237466

cctcttgagt agctgggatt acaggcatgt gccacatg cgggctaatt 29237516
ttgtatTTTT agtagagacg gggTTTTctct gtgttggtca ggctggcctt 29237566
gaactcctga cctccagtga tccgtacacc ttggcctccc agagtgtctgg 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
taaggtctga 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 aaaggtgat 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 tcaggcgcag 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
atttaaggaa 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
aaaactactgc aggttttccc taaggacat ctgtcaaaat ttgctgtgta 29241566
aagctaaagt aattaaaaag catttggtta gtcaccttac tttcaaactt 29241616
catagtcata tcccaagtag gtgctaactct 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
gtacccaaaa taagtggagt ttaaacaatag ttttaattaac aggatgattt 29242066
agtggtcaga ttattttcttt tgctgaatcc ttttaaatat atgccttcat 29242116
acttagaaat taactatthtt tgtcagtgga tgtgacattt tctggatctc 29242166
aaattacacc tttgctagtt ttgcagtact tttaatcaaa agcgctaaaa 29242216
tatgattgtc ttgtaaatct actthttgaaat agggagacaca ttcctttact 29242266
tttataaatt tggaattttg gtagtaattt tactctggta aaagtacacc 29242316
tgcatgctaa atgaaatata gacatatgtg gtctaaaatt tgtcagaaaa 29242366
aattagtaaa aatacttagt ttttattaca ggtatggata ttaaaattct 29242416
tcatctaact attgtgttat atatatgcca ctgctaactg ttttgaaagc 29242466
agagtattga gtgtaatgtht taaaattaca ttgtctthttg tagTTCCAGC 29242516
TCAACCAAGA TAAAATGAAT TTTTCCACAC TGAGAAACAT TCAGGGTCTA 29242566
TTTGCTCCGC TAAAATTACA GATGGAATTC AAGGCAGTGC AGCAGgtgag 29242616
ttgatggatc tctgttgcath atgtgtcghat atcattcatg aggaatcttc 29242666
tgthttcata acagctattht ataccttatc taccttaca cctattctac 29242716
ttccctcccc cthtttaggg tatgacctg atthtctactt catagagggg 29242766
aaaaagaagt cattaaatgg aaaacttcaa attacaggct cagtgthctga 29242816
aaacttacct gcatctgctt tcatgtthtt ctgggtthtt tthttatgta 29242866
ttacattgaa tttgagatcc ctctaagaat atccaagtgg aggtgtcaag 29242916
tatacaattht gtatatagtht gaatatacct gthttctaagg aataagtact 29242966
tggaaaatgt cthtccaatt atgtaagaac caccctccta cctgtgcttht 29243016
ggattctatc ctgttacath acttcaggaa aatcccttht tcaatgatgc 29243066

cttctcaagc tgatatcttt aaccctctc tgcttgctct gtctcagcag 29243116
tagcatttga accgctgttg tcttttaaaa caaaaaaaaa 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 tagttttaa aattatgatt tgtagaaacg ggctcttgct 29243616
atgttgccta ggctgtcct aaactcctgg cctcaagcta tcatcccacc 29243666
tccttggctt ttagaacacc acactttcct gatgtcctcc tttctgaatc 29243716
cttgttctca ggtgtctctg tgtaggttcc atttgttttg cctgtttcct 29243766
aaaatgccag ttttgttagt gcccctctc tagtcctttc ctgaccctat 29243816
ttcctacttg ttgctttagt tatcaattat atgttgatga ttccaactgg 29243866
gcgtgggtgcc tcacacctgt aatcccagca ctttgggagg ccaaggtggg 29243916
tggatcactc aagctcaggt gttcaagacc agcctgggca acatggcaaa 29243966
acccctctc tacaaaaaaaa aatacaacia atgtgccagc cgtggtggtg 29244016
cacacctata gtcccagcta ctcaggaggc tgagggtggga ggatcatttg 29244066
agcctgggag tcggaggttg cagtgagccg agatcgtgcc actacactcc 29244116
agcctagggt acagaatgag actccgtctc aaaaaataaa atatgttgat 29244166
gacccccaag 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 tccaaatatc 29245466
tttgcccaga attctctgtc tttttttttt ttttcttatc tctatacttt 29245516
tgcagttttg ggttgtcaag atgtataaca gctgcctgct cctccctgct 29245566
tttgatgcat tcttaggact gtactctgat ctaactacca gaccccttgc 29245616
tgtctggttt aatttacagg ttcctatttt 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** **ATCTTTCACT** 29246416
GGATGTTTTG **AGGGGTAATG** **ATGAGACTAT** **TGGATTIGAG** **GATATTCTTA** 29246466 [p.t111fs](#) [Ile112Trpfs*3](#) [Phe114Leufs*18](#)
ATGgtaagtg 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 gccggggtgg gcagatcacc 29246716
tcaggtcagg tgtttgagac aagcctggcc aacatggtga aaccctgtct 29246766
ctactaaaaa tataaaaaga aaaaaagtga aaattattta tgaaattcta 29246816
agagtacata gtcatttcag tctagtaatg gtggttattc acttcatgtc 29246866
ctgagcttca agtgtaatat gtcagtctga tattcctagg gtgacttaaa 29246916
caatgataat tatttcagaa ttcacattgt tgggatgtga ctggtgttgt 29246966
ttttgtgtgt ttagtttgat tttggggttt tttgactagc attttaaaaca 29247016
actggaaaat aaatctttct ttaaaaagta gctccccaaa aaagtaattt 29247066
ttgtacttct acagggtgata aataggaaaag 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
atgtccggtg 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 ggcagtaaac ctgcctgtcc tgtgctgctt tgtcttatga 29248466
ggctgaaacg gctttgaaa 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 attccttggt 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 tcttggccaa gctggtctca aattcctgac ctccgtagt 29249416
ctgcccgcct cagcctccca aagtgctggg attacaggcg tgagccatca 29249466
cgcccggcca ggtagatgat ttttatccac ctggtagatg attacagtga 29249516
gaccactgta tttgggtag ttttttctt gtgggaactg ttattgcata 29249566
atatacgggt aacttagggc ttcaccttag ggacctgaat tagctgttcc 29249616
tttctgcctc aaatagtta ccctcatttt tcagatccca acctaaatat 29249666
tactcagaga gtccctccgtt 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 caccgcgccct ggccgggaat cacatttcca acatgagatt 29250366
tggaggggac aaacatccaa accatatcaa ctacctaatac taaagtaatac 29250416
cccgtctgt caccctgcct tatattaatt ctttacataa cacttatgtg 29250466
atTTTTtctt tatttattat ttgtccaact taaatatacg tgtcaggaga 29250516
gctggagatt tttttcttgt 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 tttaaaaagc aggggtgtgga gaaaagttta 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 atgTTgagta gaggacaaag 29251466

aaaaagtctc tgtctttagg aagcttatgc ttggtattaa ttttaaaagt 29251516
tcttttaggt gtataatcac agttaaata aggcttttgt ctgactcatc 29251566
tgtaaacaca aaagtgatga tttttaaaagg ttttctttct taagaattct 29251616
tacgtttgtg tggatacaac aggtcagaag acaatacaga taaaacattt 29251666
ttgtgaatta agagattggt tcccgtcctg tgggaagcca ctagaaaact 29251716
taagaacttt gaaaaaaaaa 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
AATATAAACT TGGTTTACTG TAATAGTGTG CTGTTTCATGG AAACCGAGGG 29252166
CTGCATCTTG TTTATAGTCA TCTTTGTACT GTAATTTGAT GTACACAACA 29252216
TTAAAAGTAC TGACACCTGA GAATTTCTGC TCAAGTAGTA TCAGTGATCA 29252266
TTTAAAATTT GGAGGGGTCT TTGGTTTACA GCCATGTGAC AATTAAAAGC 29252316
ACTAAAGGGA GATCATGTTA AAGCTCTTAA TTTATATTA AACAGTAGCC 29252366
TTTGTCCTTA AAAAAGTTGT TGCTCATGAA TATTATAAAA TGATCTACAG 29252416
GTTTCAATTC AACCTGTTTC TAGGTTTTTT TGTAATTTA GTTTTGATTA 29252466
AGCATTATAA GCATTTGAGT CTATAAACTT TATAGTAGCA TCTTTCAGAA 29252516
TAAACATTTT TAATGATTT CAGTGGCAAC TCTCAAATG ATTACAATAT 29252566
GAGATATATC AGTGTCTGCC ATTAACACTC ATAAGAATAA TATTTACTGT 29252616
GTCAGTGCTA TTTTAGGATT ATAGTTATTG TTTGATTATT TCAGGTTGAA 29252666
AAGTAGAAGT TCCAAGTTTT TGATTTTGGT CTGGTCTTTA AGTGAAAAAT 29252716
TAAAGCAACC AGTAGATGTA GGTAAACTT TTACTTCATA 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 taaaaactt 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 cttaaaccta 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 - 2025-04-03

