



PSMA5 (NC_000001.11, GRCh38) - gDNA - 2026-06-27

ttaactatag aactcatcca ccttctctga ctgaaacttt gtatcatttg 109427399
accaacattt ccctatattc cccacccccg tgccaagact tcttacttgc 109427349
ctttcttgaa caaatacttg aattacagtg ttattacgaa gctgcaaagt 109427299
tgctcctcaa gcaacttatt gaaggggaagc aagaagcgtc gaaaaagaaa 109427249
gcgctttttt tttttttttt tttttcggat aggggtttggc tgttgcccag 109427199
gctggagtgc aatagcacga tctgggctca aagaaaacac ttatTTTTca 109427149
caaacaacag aaaaagcagt gaatattttg aagtctggat cctgaactct 109427099
aggttattta ggtctgaaac ctgtactagg gggaggggtg caagaaagag 109427049
ttgataaaat taccttaacc atgtggaaac tttaagactt tcttacatac 109426999
taaccctcgc cccccactt ttctcaataa acgagccaaa ctggctgaaa 109426949
cgaagggact cgtccgcggc gccggctcag acccactgta gccgactcat 109426899
taccgcccaa agtcctggag ccctcgaccg ggcatggaga acaccgtgga 109426849
ggaaccctaa gagagggaat cctgcgaaga gaagtcaggt ggtggccttg 109426799
ccggaaacgg gaccaaagtc ctctagctgg gattacggga gccggcgagg 109426749
gacctattat gtcagggttc agacaacca gctctgcatg caagcctttc 109426699
caattgccag tcttggggcg ggctcacatc ttctctacaa ggcgaactca 109426649
ctacacgcct tgggtgccta tcgtccctag caaccacccg cgatttaagg 109426599
cggaagtacc tccttggctc tcctcctcct ccggaccaac caagccctcg 109426549
tgaggaagcg cgttggccca atcacctagg cgggaactac taccagccaa 109426499
taggaagcag gcacaggagg gcgggctaaa gaggtcgcgg tcgcacgcgc 109426449
AGTTGGTCCT TAGTACTGCG GCCGTGTGGG TGAGTTGGCT GCCGGT GAGT 109426399
TGGGTGCCGG TGGAGTCGTG TTGGTCCTCA GAATCCCCGC GTAGCCGCTG 109426349

CCTCCTCCTA CCCTCGCCAT GTTCTTACC CGGTCTGAGT ACGACAGgtc 109426299
cgtgcagctg ggggacgtcg ggtgggaatt atgggtgggc aggcccggga 109426249
cctggccgcg cggcctgggt tctgccgtgt catggggctc cccaggaacc 109426199
cgagactggc cggacctggg gatgttatgc cctcctcagg cgcccggcgt 109426149
ccttcccaa gctagaccac atcggcggca cttgtcctac cgctgagtca 109426099
cccctgggtc ctaactcggg gcggaagcga gaagctccgg ctggtgcttg 109426049
gtaaagaagg cgtgaggagc cggaactcct accttgaacc cggagaaggc 109425999
caagggtcac tctttgctcc gttcatcttt tcgtgcctag tatgactgcc 109425949
ttgaacaaac aaacaaaaag ttaaactgtc ttccctggaag aaaaagcaac 109425899
tggttttag tagggcatgc tgcggtgat agtttcttca gaagcgcgaa 109425849
ggcagtcgta gctttggctg gatataattgt ctggagtctg attttatagg 109425799
aactggaatt tagaatggtt ttcaagagat ttctcatcat gccgattcca 109425749
attgaccaa attttttctg actttttaa agtttaaagc aagttttaa 109425699
aaacttttgt ggtatgaaa tgttcacaat attaagttgt acatatatat 109425649
gctgtagaca tttttacttt cagtttctgt tttcgtcagt taagttttta 109425599
catagctact cttttttaa gtcaggaag gcagacattt tctttgtact 109425549
gagtggtag agatgctgca tttcctgtca agtatatgct gatcctgtcg 109425499
aagttttacc acctgcagtt accacttttt catctttttt actgactcgt 109425449
agaagatgtg tgtgaagttt tgacatattt cccactgtc ctataaagtg 109425399
actttgttgg tcgatattta acttcagaa cattgaagag aatcatcttc 109425349
gggtgacata attttgagtt aggggtgtga tgatagaaat tgttatgctt 109425299
atcagaaggc atttattaaa ttttgtggcc atttacttaa catatgtatt 109425249
gactgctttg ttacttattt ttctgtcttc ccaagacggc ctaaaataca 109425199
tcccttttta ttctcttagt taatgtgctt gagtgcttgc tgtgaacaag 109425149
gcactgttct aggtgctggg gctacagcaa tggacaaaat caagctcctt 109425099
gctcgcatat aggagactct tttgagacag tctcgtctctg tggcccaggc 109425049
tggagtgcag tgacgtgatc ttggctcact gcaacctccc cctcctgggt 109424999
ttgtttgtt tttgagacgg agtctcgtc tgtcggcagg ctgcagtgca 109424949

gtggcatgat ctcggtcac tgcaacctcc gcctcctggg ttcaagcgat 109424899
tctcctgcct cagcctcccc agtagctggg actacaggcg cgcgccacca 109424849
ctcccagcta atttttgtat ttttagtaga gacagggttt caccatgttg 109424799
gccaggatgg tctcgatctt ttgacctcgt gatccacctg ccttggcctc 109424749
ccaaagtgct gggattacag gaggtagcca ccgcgcctgg cctgccgcct 109424699
gggtttaagc aattctctga ctcagcgtcc tgagtagctg ggattacagg 109424649
cgggtgccacc acgcccggct aatttttgtg ttttagtag agacagggtt 109424599
tcctcatctt ggccaggctg gtcttgaact cctgacctcg tggccacct 109424549
gccttggcct cccaaagtgc tgggattaca ggcgagagcc acctcgctcg 109424499
gcctgagact cttaaagaat tgtttacagg tacagtggct catgcctgta 109424449
attccagcac tttggaaggc cgaggcagga ttgcctgagc tcaggagtgtg 109424399
gagaccagcc tgggcaacat agtgagacct catctctact aaacattaaa 109424349
aaatatcagc cgggtgtggt ggcgctgacc ttgtctcaa aaaaaaaaaa 109424299
gaattgttta cagaagtaac tatagtgtga gtcagaaata tattaatgcc 109424249
attagagaaa ttcaaatcaa taccatggaa gttttgatga gggattgcat 109424199
tcaatatgag acgatcatgg aaaacttcac aaaggagctg acatttaaac 109424149
taggtttctt gaaagagtag gaatttaata aagacagtga gatcaatagt 109424099
tgtgggttgg agaatatggg ataaatgaag gaggggcaat ggaaaagcac 109424049
aatacatttt gggaaaagtc cagtctgact ggcacatatg atacgtgtat 109423999
gggaacagca ggagataatg ggaaaaacag gatgctgcta gatattgaat 109423949
ggtttttaat acgaggctaa ggagtttggg tcctatttct gtaggcaact 109423899
gtgtgctggt aaataataat tgtgttttac agagattaat tgtctgaatt 109423849
aggggaaagt gagtcaatac ctgttagtgt taggctatta acaatagtta 109423799
ggtgaaaggt aatgagggca ttgagaagga agagtgatgt gttactgtgg 109423749
aggaggaatt gatatgaatt ggtatgactt agcatatagt tggatatggg 109423699
aaaagatggg gaggaatgag tcagatcatt tagaacttcg tatgttggga 109423649
acactggaag atttgagatg ttttaaatta aaactgaaat tggaatggca 109423599
ggagatgaag tcaattttgc aaggtggctg gatttaaaga gataatattt 109423549

caaactggaa aacgttaagt gttaagtgct aataggatat gcaagtggaa 109423499
atgttcagca aacattttaa ttagttagga aagaggtgaa actggtagta 109423449
gagatttggga agtaacttgt gcttagcact ctcccaggct ggagtgtagt 109423399
ggcaccatct cggctcactg caacctccgc ctccctgggtt caagtgattc 109423349
tcatgcctta gcctctcaag tagctgggat tacaggcacc tgccaccacg 109423299
cccagctaata ttatgtgttt ttagtagaga cggggtttca ccttgttggc 109423249
cagcctggtc tcgaactcct gacctcaggt gatccgcctg cctcatcctc 109423199
ccaacgtgct gggattacag gcgtgagcca ccacgccagg ccaaaagcac 109423149
tactatatga catgttacct gttgtaaagt ctggactcca taaaccacgg 109423099
attgcaacca tctcattcat ttgttcacat attttttgtg tccatttgtt 109423049
gctcaaagct tttatagctg agaccatgat tgggtgcctct tctccgtagg 109422999
gatttccagc aacttgagc aaggaaaggt ggaaagtgtt aagtgttaag 109422949
gggaagtgtt tagagaggaa agcagtctga catgtaagtt atataaatat 109422899
tgagtgaatg aactaggta gaattaggaa ctacatggat ctcagtctgt 109422849
taagataaca atagtaattc atacaaataa gtagagaaat gtacctgtga 109422799
ctaactttta gtaaaaagta ataattaggc ccaggcacag tggttcatgc 109422749
ctgtaatccc agcattttgg gaggccgagg cgggtggatc acgaggtcag 109422699
gagttcaaga ccagcctggc caatatgggtg aaaccccatc tctactaaaa 109422649
atacaaaaat tagccgggcg tggtagcatg cacctgtagt cttagctgct 109422599
ggggaggctg aggcaggata actgctttaa cccaggaggc ggaggttaca 109422549
gtgagctgag atcgaccccg cctgagcgac agagcgagac tctgtctcaa 109422499
aaaaaaaaa aaaaaagtaa taactgtgtt ttatagagat tgtctgaatt 109422449
agggggaaaa ctcttcctac ttgctccacg agtcaatacc tgtaggaga 109422399
ctattacaaa cgtaggtga aaggtaatga gggcattgag aatggaaaga 109422349
agagtataaa cccaagtat taacgtcata tgcatgttat gggaagagga 109422299
taaggaaaaa tgcacatttt cttggaaatt ggctgatagt tttgaggcat 109422249
gaacttacca aaggaactgg taagtctatt cagaatggat ccaagttgat 109422199
tcaggattga ggcagaaaag tcatttgctc tcatttcac c aatttggaa 109422149

gactttctgg gagtgaggca gaagtgttct atatataggt tccattgcct 109422099
tgagaaactg ttaatgtaca aaaaaatgct acagattggt gtgggcgaag 109422049
tagagaataa tgacaatgtg cgtattctgt agctatctga gctagttgtc 109421999
aaggaacttg aattcagtg ctacatggct agtttttatg agtataatta 109421949
ataatttttt tttaaattat agGGGCGTGA AACTTTTTTC TCCCGAAGGA 109421899
AGATTATTTTC AAGTGAATA TGCCATTGAG GCTATCAAGg tatagtagca 109421849
agtagcatag gtcctgaaat ttcatggcta cctaacattt tgctggcaga 109421799
acacttgagg taaatgtggt ttaaccattc ctttagaaaa tgttcttata 109421749
tccctttaag caaccactgt taaccatttt tataacagtt tcaatcctat 109421699
tcctaataatc ttttttaaaa ctttttgagc agttaactgc ttcataatta 109421649
tctaaatagc tttttctcag tgggggtgga gggacatatt tgtgcttttg 109421599
atcctcttag ctataaagag aggtacagaa gtccagaatt agcacctgta 109421549
ttactttttc tgttttgttt tcttttagcaa atcatgtatc tgaccacctt 109421499
tgtattcttt ctttttcttt cttttttttt ttttttgaga tggagtctct 109421449
ctcagttgcc caggctggag ttcagtgggc tgatctcagc ttactgcaac 109421399
ctccgccct cgggttcaag tgattttcct gcctcagcct cccagtacca 109421349
ccaggctggg ctcgaaacccc tgacctcaa tgattcgccc atctcagcct 109421299
cccaaagtgc tgggattaca ggcgtgagcc accacgcaca gccaccttt 109421249
gtgttcttgt tggtaaagtc accttaggga ctaaataaga gatttgtttt 109421199
agtggttttt tagagacagg gtctcactct gtcacccatg ctggagtaca 109421149
gtgacaccat cttagctcac tgcagcttct aactcctggg ctcaagcttt 109421099
cctcccacct taacctccct agcagctagg gtacagatgt gtgcaccatg 109421049
cctggctaata tttttttttt tttttttttt ggtagagatg tggctctgct 109420999
atgttgccca agttggcttc aaactcctgg gctcaagtga tcctcctgcc 109420949
tcagcctctc aaagtgttgg gatttacagg tgtgagccac cacacctggc 109420899
gtggactgga taattctttg ttgtggaggg ccatcttgta catttttagca 109420849
tgtttatcaa ttcctgggta ctaccatta ggtgccagta gcactctttc 109420799
agttgtgacc atcaaaaatg tctccagact ttgccaaatg tctggtgggg 109420749

acaaaagggc ccccaattga gaatcactct tctagataaa aagtatatat 109420699
gaattctgtc ctactctggt cagttaggga ttcaagatca gtatactata 109420649
cataaaacaa ttagagaaca actaagtgct aaattaagtt ttctggcaat 109420599
ggtttctgat tatatatttg tttgattttt aaggatataca tgcatgtagt 109420549
ttcagagtta gaaggcaaag tagttctata aaccttgtaa caaaaatagc 109420499
aattcttgag gcctgcatca tctaggttca gcttttcaga ggcaacactt 109420449
taaattgttt cagctggtaa tgttctagga ctgtacctcc atatctctat 109420399
aacacagatg tatggttttt ttttattagg cattatccat ggacttttca 109420349
ttatgaaaga tgaagatttc tgccctaacc ccacaccctc actccccacc 109420299
acacacaatt gtcttctgag gtgggatag ggtgaccctc tccatatata 109420249
tcatgaatat cataattttg taagatcatt agtcaatagt tacattagta 109420199
taactaaatg cttttcacag ctgagccatt ttgcatttta taattatttt 109420149
tctgtttctg cacaacattg tttttcttgg agttaataat tctcttttta 109420099
aaaatatttg cttaatttag gatgatcaat aatgcattcc aaagtctctc 109420049
caggttacat gtatcctctc aaaacattca ggcaaattaa gtgtcctatt 109419999
aaggattcct tttttttttt ttttttgaga cagagtcttg ctctgtcacc 109419949
caggctagaa tgcatggcg catctcaggt cactgcagcc tcaacctacc 109419899
aggctcaagt gatcctccc cctcagcccc caaagtagcc gggactacag 109419849
ctatgcacaa ccatgcgcgg cttgtttttt tttttttttt tttttttttt 109419799
gagacggagt ctactctct caccaggct ggagtgcagt ggcgctatct 109419749
cagcccactg caacctctgc ctcccaggt caagcaattc tcctgcctca 109419699
gcctcctgaa tagctgggat tacaggcgcg tgccaccaca cctaattttt 109419649
gtatttttag tagagatggg gtttcacat atcggtcagg ctggtctcga 109419599
actcctgacc ctgtgatcca cctgcctctg cctcccagag tgctgggatt 109419549
acagatgtga gccaccgcg ctggcctaag tttttgtatt tttttagag 109419499
acggggtttc gctgtgttgc acaggctggc ctcgagctcc tgagctcaag 109419449
tgatccgcc acctaggcct cccaaagtgt tggaaattaca ggtatgagcc 109419399
acagtgcctt attaaggatt cttaatgaaa tcttggagcc ttctaactctg 109419349

ctccagtctg gactggttgt tctctgggcc tcctgtgtac ctgtggactt 109419299
cattttctgt gagatcattc taggcattcc ctttaactcc ctcttgtgta 109419249
aggcccatg tcatcttttt tgatttattt gctcaatttg gtagaaccca 109419199
ttttccagta gtattgtaga aactatztat ttatttattt attttgaggt 109419149
ggagttttgc tcttgttgcc caggctggag tgcaatggcg tgatctcggc 109419099
tactgcaac ctccgcctcc cgtgttcaag cgattctcct gcctcagcct 109419049
cctgagtagc tgggattaca ggcagcgcc accacgctgg ctaattttgc 109418999
atttttagta gagacggggg ttgtccatgt tggtcaggct agtcttgagc 109418949
tcctgacctc aggtgatctg cccgcctcac cctcccaaat tgctgggatt 109418899
ataggcatga gccaccgtgt ttggccagaa ataattttta attttcaact 109418849
tcttttgttt cttttcttct tattagcatc ccgttcttgt tttatggatg 109418799
aaatgtcttg tttttcttca acaattttct aatttttctt gaaaattttt 109418749
ttccttgtgg acattgttgc tcatccctat aatctcagta ctttgggagg 109418699
ctgagggagg agaatcactt gagcctagga gttcaagact agcctgggca 109418649
acatagcccg tgtctagaaa aaatttaaaa aattaggctg ggcaaggctc 109418599
acacctgtaa tcctagcact ttgggacgct gaggcaggag gactgcttga 109418549
gtctagaagt tcaagaccag cctgagcaac atagtgagac tttgtcttca 109418499
caaaaaattt aaaaaattag ttgagtgtag tagtgtacac ctgtagtctt 109418449
agctattttg caggcttagg tgggaagatc tcgtgagcct gggaggttg 109418399
ggctccatga gacgtgattg tgccactgca ctccatcgtg ggcaacagag 109418349
tgagaccctg tctaaaatat ttttttttcc ttttgaactg gtcagattgt 109418299
ttagagctat gtttttcaaa ctgcaggctc agacctatta ggagataata 109418249
aaataaattt agtggctcatg aggagcattt cttttgagac agaatgtcac 109418199
tctgtcacct agactggagt gcagtggtag gatcacagct cactgcagcc 109418149
tcaacctccc aggctcaagt gatcctccca cctcagcccc cagctacagg 109418099
cacatgccac cacaccagt tatttttttt tattttttgt ggaggtaaag 109418049
ttttgccatg ttgccaggc tggctctcaa ctctctgggct caagtgatct 109417999
tcctgcctca gcctcccaa gtgttgtgat tataggcatg agccaccact 109417949

cctggccac atttctttt taagtgaac agagcagtag atatcaaat 109417899
gccttgccca tagtagtgat gagtggtttt tttcctgaaa ttttgtttct 109417849
gttatgtatt tatatttatt tgtgggtttt agttatgaaa tcaaagtat 109417799
tccttactgt ggcttttggc caaaaagttt gaaaaacatt gctcaggaga 109417749
aaactgcctc ttctcatttc attccgggag ggtatttctg gctgctggct 109417699
tctgagagct gagtaggaa agaaggctga ggttcttaac atttggtttg 109417649
gaaattttta catatttatc ccgttttcag tacattattc ctgccttaga 109417599
ctgtgcttgg tgtcccaat ccaaagacgc tctattttac ggtctccaga 109417549
gaataagcct ggagtcttc acgggagtg gggaggtgca gtcgtctagc 109417499
tttacagcat aggggagggg atccgggaat ctgtttctta aacattgaac 109417449
caccttgcaa tttttagctc ctgtttcatt tccatttcca gaggtccttg 109417399
ttgccacat ttcctttttt gaggtcctgt gataaaaatc aggttgtttc 109417349
tttactttct ttacggctgg tttaggattt ggattacca ggtatcacta 109417299
acctatcttc tttttagctt caaagttttg ttgctgtgtc ttctcccact 109417249
ctctgttata gtggatttat gccttttttag aagtccttta atcttacatc 109417199
aatagactta aggaaggcgt ggaactaat ttatgtcttt agtctgcacc 109417149
tttaactaga aatatgagca ttcattttta tttatttatt ttttgagatg 109417099
gggtctcact ctgttgcca ggctggaatg caatggcgtg atcttggctc 109417049
actacaacct ctgcctcccg ggctcaagca gtcctaccgt ttcagccttc 109416999
cgcgtagctg ggagtacagg catacgccac caagcctggc taattattgt 109416949
atTTTTtata gaaacagggt ttcacatgt tgcccaggct ggtcttgaac 109416899
tcctggactc atgcaatctg cccacctcag cctcccaaag tgctgggatt 109416849
acaggcatga gccacatgc ccaacctgag tactcatttt tttacataaa 109416799
atTTTTtgac agttcatctc ctgtagttat gcaggatcc actgattaag 109416749
aaaatacatg acaaaaagct ggtgtacatt taataaact tctaaataaa 109416699
gtcacaactc aacacatttg aaaaataata tatatgcgtg tgaaatgatc 109416649
atcagctctg cagacatgtt aagcaagtta tacataaaga ttcgtgggat 109416599
tctttggaac tctttgcagt gctcacactt ggtagtgatt actttgtaga 109416549

aataactaaa tataatggaa ttcaaagcag aaagcatagt catggaaggc 109416499
tttgatgagt ggaatttggga ttgggggaag gaagaatgta ttccagggga 109416449
gacagcatga gcagaggggt gcaagggtag gagataacgt ggcttgagcc 109416399
agtgggctgg gctatacctg agggattttg ttggagaata acgagtagtg 109416349
aagttggaag ggaaaagtgg catcaggata tgaaggctct ggaagtttat 109416299
ttggatatat tataggcagt atagggtgat gttaattctt gagagaagaa 109416249
atataatgat aatagcattt tattagatca gtcaggttat aacattagag 109416199
atacattgag agagattaaa gatgagagag gctattgaag tatctaggca 109416149
tggaatatga ataacatttg ttcataattg gcaggcacca ttttaagcat 109416099
tttataatat ataatgtgtt tacccttctt attattattg tcatcctcat 109416049
tttgcaggaa atgggcatag aggagtagat gactgggagt tacgtagaga 109415999
tagagatgaa ttccaggtat attgtggact tctagcgacc ttaaataatt 109415949
aatagtttta cgttggttggg ggtgatgatg gtggtggttc ttttcgtccc 109415899
tccctacctt cctttattac ttttttggag gtcaggtagg ttggggaata 109415849
tcatcacctc ttgggacaga ccaaggtaga tggcagaggt gaaaagaggc 109415799
caggtccaga gaagacatta agagttttat tactttcttg cccactatgt 109415749
ttagaacttt tgaatcctcc gtcctccaaa tattggcatt agagagtgga 109415699
tttttccagt gtttgaaaga ctttgttgaa cttactcttt tggggttctg 109415649
ggaattacat gggtaaatta taaagaaaac attaaaaatt ttaaaaaaat 109415599
ttaagggaga aaaaagaact ttttagaatc acaaaattct gtaaatcaat 109415549
gttcttgcta ttgacaggaa tagtatatta attacttaca gtatgttagg 109415499
gtgctccttc tctctgccta taagatgtgg ccagttgaag tttctatcat 109415449
gtgaagattt acagagagct atctggtagg tatgtaagac agttatttga 109415399
cctatatatg gtaatcataa catgtttctc tttagCTTGG TTCTACAGCC 109415349
ATTGGGATCC AGACATCAGA GGGTGTGTGC CTAGCTGTGG AGAAGAGAAT 109415299
TACTTCCCCA CTGATGGAGC CCAGCAGCAT TGAGAAAATT GTAGAGATTG 109415249
ATGCTCACAT AGgtaaggag tggaggaaaag ctgttctgta ggatctggtc 109415199
tgggttaatt agtcctctat gatgttccaa ggaaggttta tgaaatgaac 109415149

acgttatccc cttgtagct attatnttcc aggcagtagg ccagaatgcg 109415099
taaagttagg agtaggaggc tgttgcagga ctcatnttatg tttaacctac 109415049
tcccataagt tcctttcccc tcaaatttag acttggtaaa tgtgatgggt 109414999
gttgaaatat gcaaagggtg agatctttga agtgactaca agttataaga 109414949
ataatataga cttgcctaga tcagtcttcc tcctttgttt tcagattatc 109414899
tttgtattcc ttgttgcctc tgcccacttt tttggtcttt aattcccctg 109414849
ccttggcttc tgacatcatt gtataatagt attacagggg gagtaattct 109414799
acttatttat agaatggcat tttatttggc tatccaaatt ttcttaacct 109414749
gtctagtcac ctaattaatg aagcattggc aaaataatta attgcttgaa 109414699
ggcatcagaa ccaaagcca tggtgactct gggagcttga tattatgtct 109414649
ttcatagata tagaaactga aattttatct tttaagattg gaacattgtg 109414599
tcttctttaa ctcaagtcac ttggtctttt gaaggtagct cagtgtcact 109414549
gtgttcaaca aattgagagc ctacaatgtg ccagacctta tgctagatac 109414499
caggatatag aaaggaataa gacatagtcc ttgttttaca ggagcataca 109414449
gtctaattgt ggtgggtggac atgtaagtaa gtcaatgcaa ttaagtgaca 109414399
aaagtattaa gaaagactag tgtgttctta gtaggagtag aagggaagaa 109414349
ataattagtt ttgcctggag tcagcggtag tggggctttc agaaaaggat 109414299
tccatgaaag tgattttgag ctgagtttaa ttctgaaaga taaggaagtg 109414249
tacacaaggc aaacaagtgt ctgggtatag caagggagag cattctagtc 109414199
agggggaata gaaatgactg aagccatcgt ggtgtaaaat ataaaatacc 109414149
atgtcacaag cagttttgta ggcctgggcc atgaactgca gcagcagagt 109414099
cggtcagaga gcggaattcc ttttttacca cactgaaggg cttcaatgta 109414049
atccttttgc aaggatggga aaggttttaa gcaatgaggt aataggatcc 109413999
cattataatt ttagaaaggc cattctgata atgatattaa agatagacta 109413949
aagagggctg aaactggagg cacggaggcc agttgaaaaa tttgtaatag 109413899
tccaaacaaa gagatgggtga aggttttaac caacacagta gccagagaat 109413849
ggagaggaag atagaaattg acagaacttg tgatctgatt gattgtgagg 109413799
gccaaaggaag aagacggggg ctggaaggga aatgagtgtg tgatatgtcc 109413749

aagtagatat attaaggaag ttatttggct ttatatgtct gaaacttggg 109413699
agagaaaactt aggctggaga tttagatttg agccatggca tgtacaataa 109413649
cagttatagc cataatcgtg acagcttggg ccatcaggca aactctctct 109413599
gatataacta gttgctttgt gtttgggaca gagaggcaaa aggcttttga 109413549
tttattcgag agtcctccac tgtagtccat agtgaggatga ttttcttttc 109413499
cttgtttccc aggttggggc attagtattt gcttcgtttg aaaatgtatc 109413449
atcgtctaca aagagtgcta aagggatgct tagggatgta atatgtggaa 109413399
attcatgttt ggtagctgc ttttctctgg gcttattttt atcgtctgga 109413349
cttctgtgtc attgtggatg gttttttgtt tctaataatca ttaataacttg 109413299
ggttcagtg agatcatttc ctatctaadc ttttgggtat aaaatgcat 109413249
gggatagctg aatggctgcc gtggttcaa tccagaattt caggatttcc 109413199
tgagtggatg aaagagtttt acaaggattt ggccactggg tcactgtcgc 109413149
ttttacattg cagGTTGTGC CATGAGTGGG CTAATTGCTG ATGCTAAGAC 109413099
TTTAATTGAT AAAGCCAGAG TGGAGACACA Ggtaaaattg gcattatctc 109413049
ctttttacca ggatgcttga gttccttgtt tagtgattat ctagctgcct 109412999
gggctatact gcaggtacct gtgtcaatat tagatgtggc tcttgggagt 109412949
aattttgggt agaattccca gttagaactt cctggggctt ggagtttagc 109412899
tgtccaatca ttgcagtttt aaagaggctc tggtcagtag tgctgacagt 109412849
gtcttccttt tttttttggc tttgcctata tataaagcat gcattgtttc 109412799
ctaattgact ttgtgtggga gcatcatggc aggaggtgga cgtagttaa 109412749
ggatattctc ccctcagctg cctttgctgc caggcttgta aataacagcc 109412699
cgcctttggg gagtaataac ttgtaccaac tgacaaatac tggtcaggga 109412649
tactgttttt ttttttttta aactttgtag ctgctgcttg aagataggct 109412599
agtaagaaaa atacatcaca tggtaaaatt tttgtactt atttgcaagt 109412549
ttgctgtctg tacttatgta agaataagtc atttgaacat caacagaata 109412499
agctagagtc tttgagggaa agaggcactt ttagtttttg aaagagtaaa 109412449
cttggtgctt tgaggcataa ccctcttttt caaggcagta attctcttgt 109412399
ccgtcgttgc gtagagtcct tgtgatatgt ttatttccag agctatttct 109412349

cttcctctca tgtactccca agtactcagg gttaatgtta attaagaaaa 109412299
ccacatttga gccttcagtt ttcaatccca gtttaaaggg atgtgcgtag 109412249
tgagatgggtg ggctgcttta atgtccttat tagaagggtg taccatgctt 109412199
tgctcttctt ctagAACCAC TGGTTCACCT ACAATGAGAC AATGACAGTG 109412149
GAGAGTGTGA CCAAGCTGT GTCCAATCTG GCTTTGCAGT TTGGAGAAGA 109412099
AGATGCAGAT CCAGGTGCCA TGgtgagtgt gatacttctg tcgagttttc 109412049
ttattgttct atgggactta ggacatttgt cctgtgaaca taacattccc 109411999
agcccccttc acctccttac tttatagcca tttatcttaa tatctcttat 109411949
tttttgggtc tagTCTCGTC CCTTTGGAGT AGCATTATTA TTTGGAGGAG 109411899
TTGATGAGAA AGGACCCCAG CTgtaagtac cattttgtaa ttttccccc 109411849
tgcttttgca ggggaattatt ttaatttggg gtggagactg agaagattat 109411799
tgtagactgt tagccaggta ttagcacaca cctgtagtcc cagctacttg 109411749
aaggctaagg caggaggatc tcttgagcct gggagtgtgt atccaggctg 109411699
tagtgagcta tgatcatgcc actgcactcc agcctggata acagagccag 109411649
accccatctc tttaaaaaat acattaaaaa aagattattg taaaaagggc 109411599
tattgtagag tgtgtgtgtg tgtatgtata tacatatata tggcttctaa 109411549
tactaaagtt tagtgattct ataccgtttg cacaaatttg gggattccat 109411499
gaagaattcc cctattggaa ccagtgctaa ttctggaagg aattagaagt 109411449
aacttgttac tatagtcagg gtatgtttta gaactttgct ctggaatggt 109411399
gatctgatcc tcacctcaa atatttctaa gataggcata aacaagtacc 109411349
atatttatac atactatact tctaaatccc taaggaaggt actaattttc 109411299
ttaaacagtt tttaaaatgt ctggtttctc cagacataga acatctttta 109411249
gatctgtgcc tcaatatttc agtgggtgtt cctggctgca gggccaagca 109411199
tttatacttt gttttagtga gacgtttggt acataaagtg ccaccactcc 109411149
tgagcatttt agtcctcatt ttgggggttt tgagGTTTC ATATGGACCC 109411099
ATCTGGGACC TTTGTACAGT GTGATGCTCG AGCAATTGGC TCTGCTTCAG 109411049 [p.Arg168*](#)
AGGGTGCCCA GAGCTCCTTG CAAGAAGTTT ACCACAAGgt aattaagtat 109410999
tctcacaact cttactattt ttttatcatg gtataattta catataataa 109410949

aatgtgcaaa ccttaagagt tcagttctgt tttgacaatt gcaaaacaag 109410899
ataaataaca ctttcatcac caccagaaaa atgctcatcc acattccagt 109410849
caatctcttt ccctcccttg caacctggtt taccaccatg tttaccactc 109410799
tccattagtt ttgtctggtg tgctttgtta taaatggaat taaacagtta 109410749
gtcagtttgt atctgttttg tttaacacac tgtttttgag atccattcat 109410699
gttgttccag tatttccggt tgatggctga gtaatatacc atggtatgga 109410649
tgtaccacaa tatgtttatc ctctatattc acagctttac ttagcacttt 109410599
acaattggct cttgaagcaa gtgggcattt ggtattttct ttgtgagatg 109410549
ggaagatttg gttttgggta actcattggt gtgattgaag gctgctctac 109410499
ttattcaggt ggttcataca gggatgcctg ctcacattag ctccaatgg 109410449
tattgctttt acatgtggaa gaaattaggt acaaaacagg gtaaatttga 109410399
atthttctaaa ccattgggct acctcttaga tcatttgggc attattgttc 109410349
attggatatt accaataata ttatcttcta aattaaaga ggaattcaaa 109410299
tgtacacaag actagtctat ccctttcccc ttcttcaaag attacttttg 109410249
ttggtgactt tattgtggct cacaataagg tttggggggt ttttttcctg 109410199
aaaaaatgta ttctacttat ttgccattta cttgagttct ggagatactt 109410149
gtaatgcacc atactaagta agatgtttga catacttgct aaatactttt 109410099
ttcagtgaga taaagggaaa atctttgaa gaaggacgga ttgtgcataa 109410049
ttaataggca tcttcttgcc ttctttgttt caagTCTATG ACTTTGAAAG 109409999
AAGCCATCAA GTC TTCACTC ATCATCCTCA AACAAGTAAT GGAGGAGAAG 109409949
CTGAATGCAA CAAACATTGA Ggtactttct gttttattgt tggatttttt 109409899
tcggtttttt ttttaagaga tgaggctctgg ctatattgcc tagactggtc 109409849
ttgaaactcat gagttcaagt agtcctccca cccagcctc tcgagtagct 109409799
gggactacag gtgcacacac catgcctggt taatgttttt taattttttt 109409749
agagatgggg tcttgctgtg ttgcccagac tggctctaaa ctctggcct 109409699
caggcaattc tcctgcctca gcctactgag tacctgggac tataggtgag 109409649
agccactgca cctggctggt ttattgtttt ttattcagat atcatagctg 109409599
gcattgctga agactacata gatcatggaa atgacatttt tgtatgttta 109409549

gttcctaaga aattattaac agcctttgaa taataagcag cttcagtaaa 109409499
gtggtgctgg cagaagccag aattcagtga gttaaagaat gaggcctggc 109409449
gaggtggctc acgcctgtaa tcccagcact ttgggaggcc aaggcaggca 109409399
gatcacttga agccaggagt tcgagaccag tctggccagc atggcaaaac 109409349
cccgactcta ccaaaaatac aaatactagc caggtgtggc ggcacgcacc 109409299
tgtagtcca gctactcggg aggctgaggc atcagaattg attgaacca 109409249
ggatttgaa gttgcagtga gctgagattg tgatactgcg ctccaacctg 109409199
ggcgatagag cgagactctg tctcaaaaat aaaataaaaa gaatgaaagg 109409149
gagatgatga gtggagaaaa caatagtatg ctgctttctc aagaagtttg 109409099
attagtgtca gcagaagata gcattaaaga aaaggattgt gtctttttta 109409049
ggatgtggaa aagtcttgaa aatataaacg gagatgaaac tagtgtatag 109408999
aaaaatgttg aaagagttgg gcgcagtggc ctgtaatccc agcactttgg 109408949
gaggctgaga caggtggatc gcttgagggc aggagttaa gaccagcctg 109408899
cccaacatgg tgaaaccca tctctactaa aaatacaaaa attagccagg 109408849
cgtggtggtg gacgcctgta atcccagcta cttgggaagc tgaggcatga 109408799
gaatcacttg aacccgggag gtggaggtta cagtgagccg agattgcacc 109408749
actgcactcc agcctgggag acagaacgag actccgtccc gaaaaaaaaa 109408699
aaagctgaaa gaaataaaaag gagaggttag gatagtgatg gaaaagttat 109408649
agaagaggta aggcatggta cacatgaagg agttggtttt gaaaagtaaa 109408599
attcattcag catcatattg agtaccatt atatagcagg tattatgcta 109408549
gatgcccagg gttacagaca cagaaaatcc aattcctatt caagtagtat 109408499
actgtgtagt gcaggaaca tatagataat aagaacctgg ggtgatactt 109408449
ctataatagc agtaaaaaca gattcctgtg agtatgtata acttagacta 109408399
aagcattagg gaagcttctt ggaagagggt atgtctggaa aagggagcag 109408349
aaaggtattc caggaagacg ggacaacatg tgcaaaggggt tcaagatgta 109408299
aaaataatat tgtgggtaaa ggaaactttg aggttttgtc tgactgctga 109408249
ggtgtgggat gtatataaga tgggtggggga cggtaagggga tgagactgga 109408199
gaggtatgga ccagcttggg aatgtccttt tttagtatgc taagagtaga 109408149

caggagcaaa ggaagtaatg acgagtaaag ataggtgggt ttggcggtaa 109408099
acctggagag atgtcccaca tttcccaga tttttcctag tgattgtaaa 109408049
gtcatctgcc gagggtaggt gaatgcaaca gtaaaattga gaatgggaaa 109407999
tatttggtaaa agttgttatg agaagacagg gaagagtaaa aggattgctg 109407949
ggccatatta aaatcgtagt tgaggccagt aatcccagca ctttgggagg 109407899
ccaaggcagg aagatcacgt gaggccagaa gttcgagact agcctggcca 109407849
acatagttaa accccgtctc tactaaaaaa atacaaaaaa ttagctgggt 109407799
gtgggtgtgc gtgcctgtaa tctcagctat tcgggaggct gaggcattgag 109407749
aattgcttga acctgggcag tagaggttgc agtgagctga gattgcactc 109407699
cagctgcact ccatcctggg caacagcacg aaactctgtc tcaaaaaata 109407649
aataaataaa atttaaaggc caaccaaggc tgtaattata tatcagtaat 109407599
taaaccaatc agtacttacc aggatatttg ttgaccacac tcatgagaaa 109407549
atggatggtt ggattaatcc atggtagggg attgactagt taagaacaga 109407499
agattagaga ggactggaga gtattgttgg tgaatgtctc acctatagaa 109407449
ccagctttca taggctgctg tgaaaggcca gtctaagaag gactgacatt 109407399
tgggagccac tgcgctagag cccatctgct ttaagttctt agtccattag 109407349
ttgttccttg gagctccagc ctccctacat gaactgcttc ccctaagaaa 109407299
aggaaaatat ccggccaggc gtgggtggctc atgcctgtaa tctcagcact 109407249
ttgggaggcc gaggctggcg gatcacgagg tcaggagatt gagaccatcc 109407199
tggctaacag ggtgaaacc cttctctact aaaaatacaa aaaaaattag 109407149
ccgggtatgg tggcgggccc ctatagtccc agctactcca gaggctgagg 109407099
caggagaagt gtgaaccctg gaggcggagc ttgcagtgag ccgagatcat 109407049
gccgcgccac tgcactccag cctgggagac agagcgagac tgtctcaaaa 109406999
tatatatata tatccaagtt acatcttaca tctttctttt taagaaaatc 109406949
tttatatgta cctccttctg tcgagtgtcc ttactttcaa tgaacttttt 109406899
tgagatataa tttatataca gtaaaatgta cctattttaa gtttacaatt 109406849
cagcggatgt tgacaaatgt acaacccccca gtatctgtca cccagtcatt 109406799
tatattgatc ctcccaaaaa gttctctcat gtccctttgt agtctcttcc 109406749

cccacattga tctacttttt gtcactatag atttgttttg tgttctagaa 109406699
tttcatataa atgtttttgt ttgttttttt aagagatgag gtctggctgt 109406649
attgcctaga ctggctctga actcatgagc tcaagtagtc ctcccacccc 109406599
agcctctcga gtagctggga ctacagggtgc acacacccatg cctgggctaata 109406549
gttttttaaat ttttttagag atggggctctt gctgtgttgc ccagactggt 109406499
cttaaactcc tggcctcagg cagttctcct gcctcagcct cctgagtaata 109406449
tgggactata ggtgattata gggactatac ttctttcact tggcatgatt 109406399
ttgagattca cctgtgttgc atcaattctg ttacatttca ttgctgagt 109406349
ctatctcatc catcctattt tttcaccttt attgcccaagt ctccctccaaa 109406299
cagaacctgt attatctcca ctgcttcacc tctcatttac tcctcaatca 109406249
ctactatttg tttcagcttt tattatttcc atgagactgc tccttgctaa 109406199
gataactcct atttgtcaga tttcatggtc actccttggga actatcattt 109406149
gacttttttg aaggattcac ctcagatttg acagttctaa aattaaatc 109406099
attatctttc ctaaaaaacca tttcatcttc ccatatttct aatcttgggt 109406049
gatgacaccc ccagggtact tgtcattcac acgagaaacc tggaagactt 109405999
tgactttcct tcccttttac tcagtcattt ctttgctccc ttataaataa 109405949
ctcccaaate catgtccctt ctccatccct acttccagt cgccttttg 109405899
ttcaggttcc catttttccc ctaccttgta tattttcaga ggcttcctaa 109405849
ttaatcttgc cctcctccat ttcagtccat ttttctca ttgtgctact 109405799
atagtggatt ttctaagcta tatctaactt taatggttct cacttaaaa 109405749
aatattttct ggctggacat gtggctcaca cctgtaatcc cagcactttg 109405699
gtaagccaag atgggtggat cacttgaggc caggagtca agaccagcca 109405649
ggccaatat gtgaaacccc tgtctctaata aaaaatacaa gaaattagct 109405599
aagcacgggtg acatgtgcct gtaatcccag gtacttggga ggctgaggca 109405549
tgagaattgc ttgaaccag gaggcggagg ttgcagtgag ctggaatcac 109405499
gccactgcac tccagagcga gactctgtct caaaaaaaaa aaaaaaaaaa 109405449
accttttctg acttctattg tctgtgagat aaattccaaa attcttttca 109405399
tggcataatt cactacttct taagtcattt gttaaatcta ttagagactt 109405349

tgctaagcat tttacatgca attacatctc ttaatcttca caacacttct 109405299
atgagataga tattcctatt ccgaaaatct tattttacag aagaggaaac 109405249
tggctttgag acggtagggc caacaggtaa atggtagagt caggatttga 109405199
atccagggtct ggtcttaggt cttatacttt taaccacttt aacgtactgt 109405149
ctcccatgag ctctgacccc ctactccctc tccttttcac gtcattattcc 109405099
atgtgcaagc tgtggtctag ccatacagaa ttactttcag ttttgcaaat 109405049
atgtcgtgtt cttttgtggt tctgtgcatt tgcacattgt ttgcccttcc 109404999
tgtctttgac tgtctgaccc attcctgcca tgctttaata cacaactcaa 109404949
aagttgcttc tcctgaagc cttcctgggc tcctccagat cactcttaaa 109404899
catattctta gttctattac aacacttacc tgacattgaa cacatttggc 109404849
atctagcact tagtaaataa agactttctt catctttgga tccttagtca 109404799
caagtacatg taactaatac acaggtgctt agtaattaat tattggtgaa 109404749
ataaattgaa agaaaatc tgttctacct gcctcataga gatgtttttt 109404699
gaaagtgaga taataaatag aaaagtatct ttcatattat gcaaatacat 109404649
ttattattat gcaaatgtaa gggattattt ttacttatct agtgatgagc 109404599
aacttcctga aggcagtcct tggctcagac gctattatta atagtattga 109404549
tttgcgttcc agttcttctg taggactgtt ccactcagag ttttcccagt 109404499
ttctgctttt tagcccctgt aatgttttga gaaggctagc ctgagtcatg 109404449
agtgaaattc tttaggccct cactctttag attattgctc ttatatttct 109404399
ctgtcctcat gtcattgatc atcaagtaaa gatatatctt aagagaagca 109404349
gtagtaacat ttttatttat ttatttattt atttatttga gacaggatct 109404299
cactttgttg cctgggctaa gtgcagtggt gcgatctcag ctactgcaa 109404249
cctccacatc ccatgttcga gcaattcttg tgccctcagct gggcctacag 109404199
gcgtgtgcca ccatgcccga ctaattattg tatttttagt agagacaggg 109404149
ttttgccatg ttcaccaggc tggctcgaac ctccctgacct caagtgatct 109404099
gcctgcccc a gcctcccaa gtgccataat tgaaggaatt acaggctacc 109404049
acgcctggcc aagagaagca gtaataatat ttgtatgttt aaatcctt 109403999
ggaatggaac tcatggtcta catggtaaac taattgttta cctatatttt 109403949

gcagatatat ttgggacttt tctgacattt catgtaatta gagatatatc 109403899
ttttaggaga atctagagga gactacaagc tttgagagga gaactttttt 109403849
tttaagtctg ttcccagata tcagatgtct taagacttgc agcagtcttt 109403799
ctgaatttta cttatagatg aggcagagga tactaaacat catataactg 109403749
gattatgctg attctctcta gcaactttca agttacatta aatattagta 109403699
ctgaaaatta ctttaaaatg ccctactata ttttaatttta aaaaattatt 109403649
attaattaat ttattgtttt agacagagcc tctttctgtc acccaggctg 109403599
gagtgcagtg ggatgatcac aactcactgc agccacaacc tcccagggtt 109403549
aagcaattct cccacctcag cctcctgagt acgtgggaca caggcgtttg 109403499
ctacaccccc tgctagtttt tggggttttt tttttttggt agacacgggg 109403449
tctccctgtg ttgtccaggc tggtttttga ctctcgggct caagtgatcc 109403399
tcccgcctca gtctcccaa gtgctgggggt tacaagcatg agctactggt 109403349
tccagccatg tgtttaattt taaaaattga agaaaaaaga cactatgagg 109403299
aaatgacatg taaaacacaa atcttttgag gcaaatgtga agtggcacct 109403249
attgctcagt attgccc aaa actgtgggac atgatcaaca gagagaatgg 109403199
aaaacctagt catgatagtt aaatttgaaa ttaaccatct tctgacccta 109403149
gttttttatt gttgttggtg cttttaaatg taaatataat ctggatttcc 109403099
agttattact gatatcttca gcagtcacaa ctggtttcct atgccagtgt 109403049
taatgaaatc ttttcttggc cagttctttt aaaaaaacgt aacaggccag 109402999
gtgcagtagc tcacatctgt aatcctagca ctttgggaag ctgaggtggg 109402949
cagatcacct gaggttggga gttcgagacc agcctgacca acatggagaa 109402899
tcgccgtctc tactaaaaat acaaaattag ccgggtgtgg tggcgcagtgt 109402849
ctgtaatccc agctactcga gaggctgagg caggagaatc gcttgaaccc 109402799
gggaggcggg gggttgcggtg agcctagatc acgccattgc actccagcct 109402749
gaacaacaag agcgaactc catctcaaaa caaaaccaa aacaaacaaa 109402699
aaaaactttt ttgttaagtt ttgccacata aacaatttta gagaaaatac 109402649
ctgacaatag ttaatgatta tttgtttag gcaataatgg tctaagcact 109402599
ttatatatat taacatttaa tcctcacaac tactctatga attagctatt 109402549

cttattgtcc tcattgtaca gatgaagaaa tagaggcaca gagtggccaa 109402499
gtaacctcaa gtcacacaca caagctcaac ttttaagtat ttaaataatac 109402449
ttcaaataata tttctaaagg agtctttaac agaaaaaagt actgactcca 109402399
tgtactttgc tgctgctttt gtgatccctg ttgaagtgac ttcaagaagt 109402349
gacaatgatg ccaggcattt ggttaagtat gatgtggtga gttaacctta 109402299
aaatagaaaa tttggtcaat aagcattttt attttgagc cagagagcta 109402249
ttttaggac ctgctgcctg gaaaggatat ccttgggaca gcagatccct 109402199
tagttcctaa tgaatagctg catcaccaac acagcttctc ctgaccatgg 109402149
tagggccatc agcagggtaa ctcagcccag cttattaacc cttctgtttt 109402099
ctttccagCT AGCCACAGTG CAGCCTGGCC AGAATTTCCA CATGTTCACA 109402049
AAGGAAGAAC TTGAAGAGGT TATCAAGGAC ATTAAAGGAA TCCTGATCCT 109401999
CAGAACTTCT CTGGGACAAT TTCAGTTCTA ATAATGTCCT TAAATTTTAT 109401949
TTCCAGCTCC TGTTCCTTGG AAAATCTCCA TTGTATGTGC ATTTTTTAAA 109401899
TGATGTCTGT ACATAAAGGC AGTTCTGAAA TAAAGAAAAT TTTAAAATAT 109401849
TTGTTAATAG ACTGTTCTCT TCTAATAGTC TTTTTTTTTT TTTTTTTTTT 109401799
AAGAGATGAG GTCTCACTAT ATTGCCCAGG CTGGTTTCAA ACTCCTGGGT 109401749
TCAAGTGATC TTCCCGCCTC TGCCTCCTGA AGTGCTAGGA TTATAGGCGA 109401699
GAGCCACTGT GCCCAGCCAT TGTAATACAG TCTTTTGTTC GAAATGCAA 109401649
TGTTAGTGGG CCAAAGGAC AGTGTTATTA ATATCCCTAT TCTATGAAGA 109401599
TGTCGTTCCT AAAACTGTTT TAGTGATGCT CTATAACAGA ATCAACTATA 109401549
TCCATTAATC CCATGGTGTT GATAAATGAA CTAGTCCAGC TCTTCCAGT 109401499
GGTTAATAGA TGTTAACAGC ACTGTAAATC CATTTTCGGCC CTATAATTTT 109401449
TGGAGCAAAC GTGTATTTTT GCTGCTTTTC TTATAAGGAG ATGCTACTAA 109401399
TTGACTATCA GAAGAACATG TTTTGAGGTC CTCCTCAAAA CATTGATGGG 109401349
TTGGAATCAG CCATCAACAG TGTTGTACCA GTTCTTGGGT CTTGATAGAC 109401299
AATTTGAAA GAGATTTCTT TGTTTACGAA GTGAAGGACT AAGAATTTAA 109401249
TTAATGACCT TGGCCTCACT GGCAATCAAT TACAAATCTC TATATCAGTA 109401199
AGAGAATTGT AAAATTCAGA AGCAGTTTAC ATTAGACTTT GGAATGAATG 109401149

ATGAACTTTC CCCATTAGAG CTGCCATCAT ATGATTGGTG GAGATTGTTT 109401099
AAAGAATCAT TCTATCTCAG CCTCAAAAAT TACCACGGGA AGATGGTATC 109401049
AGTATCACTA CTTAACAGAT GAAGAATCTA ATGCTGTGTG CCCATGGACA 109400999
CACAAAATTA AGCTGTTGGG ACTTGAACAG CTCAAATTTT CTTGTTTCAG 109400949
ATCACCAGCT CTTGAGTAAT AGGGAAATCT GGAGATTTGA AAAGTACTTG 109400899
CACTGTCCAC AACATGGCTA ATCCATATGT GGATGATGCA GAATTGATTT 109400849
AATTCACTAA CAGGGACCCC ATAATTATTT GCTGGGCTCT GGGTATATTG 109400799
ATGTGTAGGA AGTTGTACTA TATGTTAATA AATTATGACT ATTTGGATAG 109400749
GCTGAATTCA TACTAAATCC ATACTGTAGT TCAACAAAAA ACAACATGTT 109400699
TATATACATT TGGAAACTGC AATGATAGGA AACATTTGGA AGAAAGGGAT 109400649
TTTGCCCTAG AATAACACAT AAGGAAAGCA GAGAATTAGA GTATATTGTT 109400599
ACTGAATGTT CCAGAGACTT CTAGTGATTT TAACACTTAT TAAGTATAGC 109400549
ATGTTGATGG GGAGATTTGT TTCTCTAAAG ATCACTTTGT TTTATTAAAT 109400499
CCTAATAGAA AATACCCCTG AAAATCCTAT CTCATTTATT CCTGTAACAA 109400449
ATTTATGAG CACCTACCTA CTATATGCCA AGAAATGTAT TAGCCATCAG 109400399
GCAGAGAGCT GTTCAAATGG TAGATATGAT CTGTGCTCCT GTGAAACTTC 109400349
TAGTGGGGAG AGCCAAACAA TAAACAATAT TCCTTTTTAA CTCTAGGTTA 109400299
ATGCAGAAAT GGATAAAGCC CATGTTGCTT TTGGGAGAGG TGAGTTGTGT 109400249
CTCTGAATCA CATGCATTTT ATAGGGGGAA AAATGCCCAA ATACTAAGGA 109400199
GTAGCTCTTA GCCTATGTCC GTTCGCCTCA GCTTAAGTTG TTTTCCCTCC 109400149
CACTGGCTGG GCAGCATATT TGTGTTTTAC CTGGTAAAAC AGTAAATTTT 109400099
GTACCTTCTA TAATTGGCAT TCTTCAAAGA GGTAGAACTT TGATTTTTTTT 109400049
GTAGAATATT AAAACAAGCT TTCTTAGGTT AAAGAAGTGA TCTTACTACG 109399999
AACAGCAATG GTTTCATGAT GTGTAATTGC TTTATGTTAT CTTTCTGCTA 109399949
TAGAATGTTT CCTGGAGAAA GGTACGTTTT TTAGTAATAA GATAAATTTA 109399899
CTTTAGTCCT GCAAATAAGG TGAAATCTTA TGTCAGTAT CTCACAAAGG 109399849
AGAAGTACG GTGCCACTTT TATATTTAAT GTCAATCTCA TTAGACAAAA 109399799
ATGAAATATA GTTCCTAGGG TTTCCAATTT AAAAAGTGAA ATAATAAATA 109399749

TATTCACTCA AACATTTTCT CAGTGCCATA TGCAAGTTAC CATGTCCCAG 109399699
AAGCTGATAC AGTTTGAAGA AGGAAATATA TAAGTACTGT AAGCCTGTGA 109399649
TAACTAAAAG CAACATACTA AAAAGTGAAG GTACAGATAA TTGGAACAAA 109399599
TTTAATAGCG TTTAAAAGTG TATTTGGTAA TTTCTCCAGG AGGTGGCACT 109399549
GTTGAGTTGT TTTTTCTTTT CAGACAGTAA GACAATAGAC CATTCACTTT 109399499
TGTGTCACCC AAACAAAGAA ATATTCCTTT ATAACCCCCT TTCCTCCCCC 109399449
CACCTAATCA CATGCTACTG GAACGACTG TCTTGTGATC TACTCCCATA 109399399
GTTGGCATAG ATTTAAAAAT AATCTTTTTT AAATTAATCT GATAGTAGTT 109399349
ATGGAAAGGA ACAAATGTGT CACCAATTTT CATCAGCTTT ATCTTTTCAG 109399299
TCCAGTAACT GAGAACTTAA AAAGACTATT CTAGTGATTT TACTATCCTG 109399249
CTCAGATGGC ATTCAAAAAC ATTTTTCACT TCTCACGTCT TGGAAAAATT 109399199
TGTAATTCG TTAAGTCTTT TTGTTTGAAA GTTAATGTGA CTGGAAATAT 109399149
TTTAATGTAA ATATCGGGT GGGTGCATTG TATCATTTTG CTCTACAATG 109399099
ACTATATCCT CATTTGGGTT TATGGCCAGT TTATAATTAA AAGTAATCTT 109399049
TACTTGCttt gagtgtaatg acttgcatat tttgtatcct tctatttgct 109398999
accttttcta ctgaacaatt tctagcttct tgaagggatg gagtcagtaa 109398949
gcttaaggat tcagaactgg ttttacctgt gctacgtggt gtagaagttg 109398899
tgtgtgcagc ttctgcggtg aagggaaacag cgtagggggt ttattttatt 109398849
cattagaggt ggatcggggt gctaatttag aggacatcac atactggaac 109398799
caaacttgct cgaagctctc actgcagagt taaggcactt tggtaaaata 109398749
aatgtgcatc taggaaatga tcatgtgtac agtaggcatt ggatcattct 109398699
cttgccccctc ttttacctgc ccctaagtgc taagctacat tcgaagtcct 109398649
ggaaaacctg taagtaattc cgcttttggc ctacctcccc tcagaagagg 109398599
aaggtgagag aggccaaacg tatggaaaga ctattcttca ggcttgacag 109398549
agtcacggat gtcctgatgt ctgtctccgt aggatgtggc ccacatcagt 109398499
tcgcattcac cttcttgacg caaggcagct gcttagcaga caatgggctc 109398449
tccagtgagc ggggtttata aaaacccgaa gccccggttc atgatggagc 109398399
ccccttttcc agctgagcaa gctcagggat ttcctgggta ggtttttcca 109398349

ggctctgcct caccgaagga attttaggag tgtctctggg gaacaggagg 109398299
gacgtaacc agccccaact tgagggcgct agaggtgcgg caaggggtcg 109398249
cgacgccagg agcccggggc tcggcgggaa ggtatgagaa gctcctacgt 109398199
gaactccaca agccggggcc gggagacgcc gggcgaggcg gggttgacct 109398149
cagcagtctc tgccccgttc cagccaatca gtcccgcac ttagcatccg 109398099
aatccaggac ccccgaagcc ggaggcgacg cgagccaatg aggagtgggc 109398049
cggggaa

PSMA5 (NC_000001.11, GRCh38) - gDNA - 2026-06-27

