

#Genomic regions

<SEQ01;DNA;HOMO SAPIENS>33396

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C C G A A A T G C T	C C C A A A T A T G	A A A C G T T A C C	A A C A C T A G T G	T G A C C C A A G T	G G A A A A T T C A
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C C A C A C A T G C	C C A G A T T T T C	C C C A C A T A A G	C A T G C C T A C A	A A G G G T A A T A	A A A T G G C A T G
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T T G G C A T G A T	T A C C C C A G A A	A G A C A C T A C A	G C T G A T G A G A	C A G C C C C T G C	A A G A T T T A A G
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C A T A A A C A T T	T T G T A C C A G T	G C C T T A T G C T	T A T T G C A G G G	A A G C T G G A C T	G A A A G A A G A G
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TAACCCAAGA	TGTAGAGGCT	ACTGCTAGTC	GTCATTCTAG	AATCTGATAT	TTTACTCTGT
ATTTGAAATG	AATGATTAAT	GTCCTAGGAA	ATTAGCTTTA	GCAGATGTCC	AGGTGCCACA
TCAAAAAAGT	GCAATAATTA	TTGACAGTTT	TTTAGATTAG	GCATATTATT	GGAAAAACAAC
TTTATAAAGA	GTGAACATTG	TATACTCTAG	TAAAAACAGCA	TCACTTTAAA	AATATTCATT
TATGAAATCT	GTTACCTATA	GTTGAAGTCT	TGAGTAGTGA	ACAAGGGACT	CTAATACCAA
TACTCTTAAT	ATCTGGCTAT	TTTAGATCCC	TTAAAGGGCA	TAATTATTGG	AAATTTAGGT
ATTTCACTAA	AGCATGTATA	TAATATTGCC	AACAAGAAAA	GTAAATTTGA	AGATTAAGGG
AACTTACTTC	TGCAAACTGT	CTTGCGATAG	TTAAGCAGAA	TTTAAACTCT	GTTTTAAGCA
GGAAACCAGA	AAGATTATTT	TGCAGTTGTA	GAAGATTTCA	TAACTTATTA	AAACTTATTA
ACATTTTGTG	TTGTTTAGAT	ATAGGCAGTT	GATACATACT	AACATCCCG	CCTTTTCAAT
ATCAGGGTTA	AATTATAGGA	AAACTCAGTA	AAATGGTACA	AATCTGAAAG	TTTGATGGTA
GAAACTGAAG	ATTTAACAGA	GAAGTGTGTT	TTACCCGAGT	GCCAAAAATG	CTGTGAGCCT
CCTTGCACAA	AATTTATACC	ACTTTTGCAT	TTTTATCTAT	CAGTCCAGAT	AGTTGTCTCC
CCTCCTTCTC	CCAGGACCTC	TCCACCATTA	AAATGCACAA	ACCACATGGC	CGATTTCAAC
ATTTACATTT	ATTTTCAAAA	GTTACTACAA	CCAAATTAAT	TCTATTAGAA	GAAATGTAGA
CAAATCTAT	AAAGACTATA	GATTGTGACC	TAAGAAAGAA	ATGAGGCAAA	GAACCAAACA
TTGAATTTAA	TGCTACATGG	GTGACTAAGA	TCTGTTTCAA	GTCAAGTATA	ATATAGCCAC
TTCTGGGTAC	TTCAGTATCA	GAGATCAGTT	CTCGTGGTTT	AGACAGTTCC	TATCTATAGC
TGACTATCCT	TGTCCTTGAA	TATGGTGTAA	CTGACTATTG	GCTCTACAGT	TTTATTGGGC
CACCTAAGAA	ATATTTCTCT	GAATAATTAT	TTTGAGAAAA	AGTCTAAAAG	TAATAAAAAT
AATTTTAAAC	ACACTGTAGT	AAGAAATGAC	TGTTGGAAAA	TTATGCTTTC	ACTTTCTACC
ATATTCTCAG	CTATACAAAA	CCATTTATTT	TGAAGATTTT	TAGACTACTG	TTAATTTGAA
ATCTGTTACT	CTTATTGTGG	AATTTGTTTT	TTTAAAAAAG	ATGTTTCTAA	TTGGATTTTT
AAAAGAAGAA	TGGAAATTTG	TTGCTATTTT	ACAATAGAAC	CTAAGCTTTT	TGTGGTCTTT
AGTGTCTTAT	GTAAAACTTA	GTGTCAAAGT	AATCAACTTT	GAGATTTTCC	CTTCTATTCT
GCTTTATATT	AAAAGCCCAT	TAGAAAATGG	GAACCTGGTG	AATATATAAT	GAATTGTAAG
ATATTTTAAT	GTGTAACCTT	TTCAACTGTG	AAACTGACTT	GATTTTTTGA	TGAAAACAGC
TGCTGATAAA	GTATTTTGTG	TAAAGTGTAG	TTCTTATTAA	TCAGGAAAA	GATGACTTGA
TTAGACTGTA	TATGCCCTCT	TGGATTTTAT	TTTAAATGGA	TTGGTGACTT	TCACATAGGT
AAAACACAGT	CCATCTGTAT	TCTTTTTTCC	ATCAAAAATC	GAGTGATTTG	GAATTATATA
AAAATTGTGA	GCAGCCTATT	TGAAAGGCAT	CATGGAAATT	TCACAGCACA	ATAACACGGA
TTTGTTTTTT	CTTAATGATG	TAAATCCGTT	TAATTCATAC	TTTGATCAAT	AGCCCATGCT
TGCCAACTCT	GAAGAAATTT	AATTTCCAGC	AGTATTTTAA	AGCTAGCCTG	TTAACTTTTT
CTGAATATTT	AAAGTTCCCTC	TTTTTTCTAT	GTCTGCACAA	ACTGCAGACC	TGGGCTGGAC
CCACATCTCT	AAGAGTCCAC	CTTAAGAAAT	TATTTTGATG	TCCAAGACAT	CACATAAGATA
TTTAAGTTTA	AAGATAATAT	GTGGTGTTAA	TAGATTGTGG	TGCTTTTACT	ATTTAAAGAC
AACTTTCATA	CTTCAGATGT	TTTTGAGAAG	AGGGGAATGT	GAGGGGAGGG	GGCAGAACAG
GGAGGAGTTG	TTTGAATGAA	TTACATTCTT	TATATCCATC	CTGCTCATTT	GGGGCATGTC
TTTAAGAGAA	GGCTGAAAGT	TGTGAGAGTA	TATTGTATAC	CGTAAGAGAA	TCAACTCTTC
ATCATGGATG	GGATTGTGAA	GGCTGAACCTA	TAAAATTCAG	CATTGACAGC	ATCCTCAATT
AATAATTTCT	GGTGACAGAA	TAATACAGCT	GGGCTGTTTT	TTAAAATATA	AACAATACCA
TTTTTAATTA	TTACATTAAA	AATTGTAAAT	ATATCTATGT	GCCATGGCCT	GGGAAGCCTG
CTTTCTTTTT	TCATAAAAAAT	TATTTTTTACT	GTATGAAAAG	ATCATGGGGT	TTAGCTCAAA
ATATCTGTGG	TCCTGATAAA	ATTGGATTGG	TAACCTCTACC	TCAGAAGGAA	AATGGGAAAA
AAAAATAGAT	GAGTCACAAAT	TCAATACTTC	AAGCTCAGAA	ACTGTGCAGA	TCACTGAATT
TTAGATTTAT	AAAGTCAGAG	TTGGCATGCC	TTGTTTTTAA	TGATATGGAA	GACCTTAAAG
AAAAAACTTG	GCTGAAAGTTT	AATCGTTGGT	CCAGCCATTT	GAAAAAGGCA	ATAGTTTGAG
GAGGTTCCCG	AATTGCGCAT	TTGAAATTTCA	TTTTGTTCTC	TCTTCTTCAT	TATTAGTGCA
TTTGGTGTGT	GTATACTTGC	ACACAATTCT	GTTTGTGTAC	ACACTGCTTG	CTTAGCCCTA
GTCAAGAGGC	ATCTTTTATA	AAAGGTGTAA	AGAAATATCA	AGGTTCTAAA	ATTTCGGAAG
GTTTAGAATT	TATTAGGAGT	TTCCCAAGTT	GGGATGTTAG	TCTTTAAATA	AACTTCATGC
ACCTATTCCA	CTTAAGGTTT	TGCACCTCCT	TTTTATTAGT	GCAGTGCCAT	TTCTTCTGCT
TGATTTTACG	TTTCTTAATA	TTCCAGCCTT	GCTAGTTAGC	ATAAAGTGAC	AGGTGTGAGC
CATGAGGAAA	TTTTCTGACT	TAATTTGTAC	ACAACCTACAT	ATAAGAGTTT	TAGTGGAGGA
AAAAAATTAG	TCCCTTGTGC	GTATACAGTA	GTTAGGTAAA	TGATTTTTCT	ACCAACAGTA

TACTCCATTC	CTCATGTAGG	TAAGTACAGA	AAAGGTTTTT	AAATGTATTT	TTTTAGCCAG
TTAAAGTCTA	TGAATCTATC	TGCAACCTTA	TTTAATCTGT	CACTATAATA	ATTTTGTGGT
TATGCTAAGA	ACCATGTATA	CTTTTAGGTA	TTCTTATTTT	TGTCAATTTT	TCTAGGTTGG
CAAGGAGGCA	GAAAACCTTC	ATTGTTTCAT	ATTAAAATAT	AATTAGACTA	AACTTAATTC
TAGTATGAAT	TTCCAAAATC	ATTATCTATT	TATTTTCATT	TTATTTAATT	TTGTTTTTAT
TTCATTTTTA	AAAGTCCCTT	GTTCAATTTA	ACTTATGTTC	CTAAGAGAGG	TTGGAGAACT
TGGCCTTCAT	CTGATTTCAA	AAATGTTTTG	AGTTTCAAAT	GAAGTTAATG	GTTTCAGTGT
GATTCAGTCC	TCAGACCTAA	TTGGGTTGAA	TAAAATCTAA	AAGAATATAC	CCTTTTGGAG
CATAACATTT	TAATACCTTG	GGGAATGTGG	CACTACCAAA	AGAAGACTAC	TAACACGTCA
GATGTTCAAC	TGGAAGCTTT	ATCAAGAAAT	TCGAACCACC	CTTTTGGCCC	CATTAATTGT
AGCAAGTTTA	TTTCTCTATA	TTTTGTCATT	CAGTGAATTG	AAGTCCTGTG	GTATACTGCA
TTCATTAGAA	GAAAAACGTT	TTTAATGTCC	TTTTAATGAT	GGCCCAGAAA	GCATTTGACA
CAGCAAGATG	CATGTGTTAC	TATATTGAGA	ATATAGAATA	ATAACAGTAT	CACTAAATTT
AAGACCTCTT	CCCAGTCTTG	CTGTTCCTAG	CAAGAAGTTT	GGCCTGTGAC	TGCACTTACT
GTTTATGCTC	ATCAGAAACT	GTCAATGTCT	GCTTTTCTTT	AACTCTGCAG	TCTGTAACAT
CACGCTGTTT	ATTAAAAAAA	AAAAGAAAAA	TTA		

#Proteins

<SEQ11;PROTEIN/3;HOMO SAPIENS>481

Met Ser Asp Val Ala Ile Val Lys Glu Gly Trp Leu His Lys Arg Gly Glu Tyr
 Ile Lys
 Thr Trp Arg Pro Arg Tyr Phe Leu Leu Lys Asn Asp Gly Thr Phe Ile Gly Tyr
 Lys Glu
 Arg Pro Gln Asp Val Asp Gln Arg Glu Ala Pro Leu Asn Asn Phe Ser Val Ala
 Gln Cys
 Gln Leu Met Lys Thr Glu Arg Pro Arg Pro Asn Thr Phe Ile Ile Arg Cys Leu
 Gln Trp
 Thr Thr Val Ile Glu Arg Thr Phe His Val Glu Thr Pro Glu Glu Arg Glu Glu
 Trp Thr
 Thr Ala Ile Gln Thr Val Ala Asp Gly Leu Lys Lys Gln Glu Glu Glu Glu Met
 Asp Phe
 Arg Ser Gly Ser Pro Ser Asp Asn Ser Gly Ala Glu Glu Met Glu Val Ser Leu
 Ala Lys
 Pro Lys His Arg Val Thr Met Asn Glu Phe Glu Tyr Leu Lys Leu Leu Gly Lys
 Gly Thr
 Phe Gly Lys Val Ile Leu Val Lys Glu Lys Ala Thr Gly Arg Tyr Tyr Ala Met
 Lys Ile
 Leu Lys Lys Glu Val Ile Val Ala Lys Asp Glu Val Ala His Thr Leu Thr Glu
 Asn Arg
 Val Leu Gln Asn Ser Arg His Pro Phe Leu Thr Ala Leu Lys Tyr Ser Phe Gln
 Thr His
 Asp Arg Leu Cys Phe Val Met Glu Tyr Ala Asn Gly Gly Glu Leu Phe Phe His
 Leu Ser
 Arg Glu Arg Val Phe Ser Glu Asp Arg Ala Arg Phe Tyr Gly Ala Glu Ile Val
 Ser Ala
 Leu Asp Tyr Leu His Ser Glu Lys Asn Val Val Tyr Arg Asp Leu Lys Leu Glu
 Asn Leu
 Met Leu Asp Lys Asp Gly His Ile Lys Ile Thr Asp Phe Gly Leu Cys Lys Glu
 Gly Ile
 Lys Asp Gly Ala Thr Met Lys Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro
 Glu Val
 Leu Glu Asp Asn Asp Tyr Gly Arg Ala Val Asp Trp Trp Gly Leu Gly Val Val
 Met Tyr
 Glu Met Met Cys Gly Arg Leu Pro Phe Tyr Asn Gln Asp His Glu Lys Leu Phe
 Glu Leu
 Ile Leu Met Glu Glu Ile Arg Phe Pro Arg Thr Leu Gly Pro Glu Ala Lys Ser
 Leu Leu
 Ser Gly Leu Leu Lys Lys Asp Pro Lys Gln Arg Leu Gly Gly Gly Ser Glu Asp
 Ala Lys
 Glu Ile Met Gln His Arg Phe Phe Ala Gly Ile Val Trp Gln His Val Tyr Glu
 Lys Lys
 Leu Ser Pro Pro Phe Lys Pro Gln Val Thr Ser Glu Thr Asp Thr Arg Tyr Phe
 Asp Glu
 Glu Phe Thr Ala Gln Met Ile Thr Ile Thr Pro Pro Asp Gln Asp Asp Ser Met
 Glu Cys
 Val Asp Ser Glu Arg Arg Pro His Phe Pro Gln Phe Ser Tyr Ser Ala Ser Gly
 Thr Ala
 *

<SEQ12;PROTEIN/3;HOMO SAPIENS>482

Met Asn Glu Val Ser Val Ile Lys Glu Gly Trp Leu His Lys Arg Gly Glu Tyr
 Ile Lys
 Thr Trp Arg Pro Arg Tyr Phe Leu Leu Lys Ser Asp Gly Ser Phe Ile Gly Tyr
 Lys Glu
 Arg Pro Glu Ala Pro Asp Gln Thr Leu Pro Pro Leu Asn Asn Phe Ser Val Ala
 Glu Cys
 Gln Leu Met Lys Thr Glu Arg Pro Arg Pro Asn Thr Phe Val Ile Arg Cys Leu
 Gln Trp
 Thr Thr Val Ile Glu Arg Thr Phe His Val Asp Ser Pro Asp Glu Arg Glu Glu
 Trp Met
 Arg Ala Ile Gln Met Val Ala Asn Ser Leu Lys Gln Arg Ala Pro Gly Glu Asp
 Pro Met

Asp Tyr Lys Cys Gly Ser Pro Ser Asp Ser Ser Thr Thr Glu Glu Met Glu Val
 Ala Val
 Ser Lys Ala Arg Ala Lys Val Thr Met Asn Asp Phe Asp Tyr Leu Lys Leu Leu
 Gly Lys
 Gly Thr Phe Gly Lys Val Ile Leu Val Arg Glu Lys Ala Thr Gly Arg Tyr Tyr
 Ala Met
 Lys Ile Leu Arg Lys Glu Val Ile Ile Ala Lys Asp Glu Val Ala His Thr Val
 Thr Glu
 Ser Arg Val Leu Gln Asn Thr Arg His Pro Phe Leu Thr Ala Leu Lys Tyr Ala
 Phe Gln
 Thr His Asp Arg Leu Cys Phe Val Met Glu Tyr Ala Asn Gly Gly Glu Leu Phe
 Phe His
 Leu Ser Arg Glu Arg Val Phe Thr Glu Glu Arg Ala Arg Phe Tyr Gly Ala Glu
 Ile Val
 Ser Ala Leu Glu Tyr Leu His Ser Arg Asp Val Val Tyr Arg Asp Ile Lys Leu
 Glu Asn
 Leu Met Leu Asp Lys Asp Gly His Ile Lys Ile Thr Asp Phe Gly Leu Cys Lys
 Glu Gly
 Ile Ser Asp Gly Ala Thr Met Lys Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala
 Pro Glu
 Val Leu Glu Asp Asn Asp Tyr Gly Arg Ala Val Asp Trp Trp Gly Leu Gly Val
 Val Met
 Tyr Glu Met Met Cys Gly Arg Leu Pro Phe Tyr Asn Gln Asp His Glu Arg Leu
 Phe Glu
 Leu Ile Leu Met Glu Glu Ile Arg Phe Pro Arg Thr Leu Ser Pro Glu Ala Lys
 Ser Leu
 Leu Ala Gly Leu Leu Lys Lys Asp Pro Lys Gln Arg Leu Gly Gly Gly Pro Ser
 Asp Ala
 Lys Glu Val Met Glu His Arg Phe Phe Leu Ser Ile Asn Trp Gln Asp Val Val
 Gln Lys
 Lys Leu Leu Pro Pro Phe Lys Pro Gln Val Thr Ser Glu Val Asp Thr Arg Tyr
 Phe Asp
 Asp Glu Phe Thr Ala Gln Ser Ile Thr Ile Thr Pro Pro Asp Arg Tyr Asp Ser
 Leu Gly
 Leu Leu Glu Leu Asp Gln Arg Thr His Phe Pro Gln Phe Ser Tyr Ser Ala Ser
 Ile Arg
 Glu *

<SEQ13;PROTEIN/3;HOMO SAPIENS>400

Met Ala Ala Pro Ser Pro Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Ser
 Gly Thr
 Pro Gly Pro Val Gly Ser Pro Ala Pro Gly His Pro Ala Val Ser Ser Met Gln
 Gly Lys
 Arg Lys Ala Leu Lys Leu Asn Phe Ala Asn Pro Pro Phe Lys Ser Thr Ala Arg
 Phe Thr
 Leu Asn Pro Asn Pro Thr Gly Val Gln Asn Pro His Ile Glu Arg Leu Arg Thr
 His Ser
 Ile Glu Ser Ser Gly Lys Leu Lys Ile Ser Pro Glu Gln His Trp Asp Phe Thr
 Ala Glu
 Asp Leu Lys Asp Leu Gly Glu Ile Gly Arg Gly Ala Tyr Gly Ser Val Asn Lys
 Met Val
 His Lys Pro Ser Gly Gln Ile Met Ala Val Lys Arg Ile Arg Ser Thr Val Asp
 Glu Lys
 Glu Gln Lys Gln Leu Leu Met Asp Leu Asp Val Val Met Arg Ser Ser Asp Cys
 Pro Tyr
 Ile Val Gln Phe Tyr Gly Ala Leu Phe Arg Glu Gly Asp Cys Trp Ile Cys Met
 Glu Leu
 Met Ser Thr Ser Phe Asp Lys Phe Tyr Lys Tyr Val Tyr Ser Val Leu Asp Asp
 Val Ile
 Pro Glu Glu Ile Leu Gly Lys Ile Thr Leu Ala Thr Val Lys Ala Leu Asn His
 Leu Lys
 Glu Asn Leu Lys Ile Ile His Arg Asp Ile Lys Pro Ser Asn Ile Leu Leu Asp
 Arg Ser
 Gly Asn Ile Lys Leu Cys Asp Phe Gly Ile Ser Gly Gln Leu Val Asp Ser Ile
 Ala Lys
 Thr Arg Asp Ala Gly Cys Arg Pro Tyr Met Ala Pro Glu Arg Ile Asp Pro Ser
 Ala Ser

Arg Gln Gly Tyr Asp Val Arg Ser Asp Val Trp Ser Leu Gly Ile Thr Leu Tyr
 Glu Leu
 Ala Thr Gly Arg Phe Pro Tyr Pro Lys Trp Asn Ser Val Phe Asp Gln Leu Thr
 Gln Val
 Val Lys Gly Asp Pro Pro Gln Leu Ser Asn Ser Glu Glu Arg Glu Phe Ser Pro
 Ser Phe
 Ile Asn Phe Val Asn Leu Cys Leu Thr Lys Asp Glu Ser Lys Arg Pro Lys Tyr
 Lys Glu
 Leu Leu Lys His Pro Phe Ile Leu Met Tyr Glu Glu Arg Ala Val Glu Val Ala
 Cys Tyr
 Val Cys Lys Ile Leu Asp Gln Met Pro Ala Thr Pro Ser Ser Pro Met Tyr Val
 Asp *

<SEQ14;PROTEIN/3;HOMO SAPIENS>1513

Met Ala Ala Ala Ala Gly Asn Arg Ala Ser Ser Ser Gly Phe Pro Gly Ala Arg
 Ala Thr
 Ser Pro Glu Ala Gly Gly Gly Gly Gly Ala Leu Lys Ala Ser Ser Ala Pro Ala
 Ala Ala
 Ala Gly Leu Leu Arg Glu Ala Gly Ser Gly Gly Arg Glu Arg Ala Asp Trp Arg
 Arg Arg
 Gln Leu Arg Lys Val Arg Ser Val Glu Leu Asp Gln Leu Pro Glu Gln Pro Leu
 Phe Leu
 Ala Ala Ser Pro Pro Ala Ser Ser Thr Ser Pro Ser Pro Glu Pro Ala Asp Ala
 Ala Gly
 Ser Gly Thr Gly Phe Gln Pro Val Ala Val Pro Pro Pro His Gly Ala Ala Ser
 Arg Gly
 Gly Ala His Leu Thr Glu Ser Val Ala Ala Pro Asp Ser Gly Ala Ser Ser Pro
 Ala Ala
 Ala Glu Pro Gly Glu Lys Arg Ala Pro Ala Ala Glu Pro Ser Pro Ala Ala Ala
 Pro Ala
 Gly Arg Glu Met Glu Asn Lys Glu Thr Leu Lys Gly Leu His Lys Met Asp Asp
 Arg Pro
 Glu Glu Arg Met Ile Arg Glu Lys Leu Lys Ala Thr Cys Met Pro Ala Trp Lys
 His Glu
 Trp Leu Glu Arg Arg Asn Arg Arg Gly Pro Val Val Val Lys Pro Ile Pro Val
 Lys Gly
 Asp Gly Ser Glu Met Asn His Leu Ala Ala Glu Ser Pro Gly Glu Val Gln Ala
 Ser Ala
 Ala Ser Pro Ala Ser Lys Gly Arg Arg Ser Pro Ser Pro Gly Asn Ser Pro Ser
 Gly Arg
 Thr Val Lys Ser Glu Ser Pro Gly Val Arg Arg Lys Arg Val Ser Pro Val Pro
 Phe Gln
 Ser Gly Arg Ile Thr Pro Pro Arg Arg Ala Pro Ser Pro Asp Gly Phe Ser Pro
 Tyr Ser
 Pro Glu Glu Thr Asn Arg Arg Val Asn Lys Val Met Arg Ala Arg Leu Tyr Leu
 Leu Gln
 Gln Ile Gly Pro Asn Ser Phe Leu Ile Gly Gly Asp Ser Pro Asp Asn Lys Tyr
 Arg Val
 Phe Ile Gly Pro Gln Asn Cys Ser Cys Ala Arg Gly Thr Phe Cys Ile His Leu
 Leu Phe
 Val Met Leu Arg Val Phe Gln Leu Glu Pro Ser Asp Pro Met Leu Trp Arg Lys
 Thr Leu
 Lys Asn Phe Glu Val Glu Ser Leu Phe Gln Lys Tyr His Ser Arg Arg Ser Ser
 Arg Ile
 Lys Ala Pro Ser Arg Asn Thr Ile Gln Lys Phe Val Ser Arg Met Ser Asn Ser
 His Thr
 Leu Ser Ser Ser Ser Thr Ser Thr Ser Ser Ser Glu Asn Ser Ile Lys Asp Glu
 Glu Glu
 Gln Met Cys Pro Ile Cys Leu Leu Gly Met Leu Asp Glu Glu Ser Leu Thr Val
 Cys Glu
 Asp Gly Cys Arg Asn Lys Leu His His His Cys Met Ser Ile Trp Ala Glu Glu
 Cys Arg
 Arg Asn Arg Glu Pro Leu Ile Cys Pro Leu Cys Arg Ser Lys Trp Arg Ser His
 Asp Phe
 Tyr Ser His Glu Leu Ser Ser Pro Val Asp Ser Pro Ser Ser Leu Arg Ala Ala
 Gln Gln

Gln Thr Val Gln Gln Gln Pro Leu Ala Gly Ser Arg Arg Asn Gln Glu Ser Asn
 Phe Asn
 Leu Thr His Tyr Gly Thr Gln Gln Ile Pro Pro Ala Tyr Lys Asp Leu Ala Glu
 Pro Trp
 Ile Gln Val Phe Gly Met Glu Leu Val Gly Cys Leu Phe Ser Arg Asn Trp Asn
 Val Arg
 Glu Met Ala Leu Arg Arg Leu Ser His Asp Val Ser Gly Ala Leu Leu Leu Ala
 Asn Gly
 Glu Ser Thr Gly Asn Ser Gly Gly Ser Ser Gly Ser Ser Pro Ser Gly Gly Ala
 Thr Ser
 Gly Ser Ser Gln Thr Ser Ile Ser Gly Asp Val Val Glu Ala Cys Cys Ser Val
 Leu Ser
 Met Val Cys Ala Asp Pro Val Tyr Lys Val Tyr Val Ala Ala Leu Lys Thr Leu
 Arg Ala
 Met Leu Val Tyr Thr Pro Cys His Ser Leu Ala Glu Arg Ile Lys Leu Gln Arg
 Leu Leu
 Gln Pro Val Val Asp Thr Ile Leu Val Lys Cys Ala Asp Ala Asn Ser Arg Thr
 Ser Gln
 Leu Ser Ile Ser Thr Leu Leu Glu Leu Cys Lys Gly Gln Ala Gly Glu Leu Ala
 Val Gly
 Arg Glu Ile Leu Lys Ala Gly Ser Ile Gly Ile Gly Gly Val Asp Tyr Val Leu
 Asn Cys
 Ile Leu Gly Asn Gln Thr Glu Ser Asn Asn Trp Gln Glu Leu Leu Gly Arg Leu
 Cys Leu
 Ile Asp Arg Leu Leu Leu Glu Phe Pro Ala Glu Phe Tyr Pro His Ile Val Ser
 Thr Asp
 Val Ser Gln Ala Glu Pro Val Glu Ile Arg Tyr Lys Lys Leu Leu Ser Leu Leu
 Thr Phe
 Ala Leu Gln Ser Ile Asp Asn Ser His Ser Met Val Gly Lys Leu Ser Arg Arg
 Ile Tyr
 Leu Ser Ser Ala Arg Met Val Thr Thr Val Pro His Val Phe Ser Lys Leu Leu
 Glu Met
 Leu Ser Val Ser Ser Ser Thr His Phe Thr Arg Met Arg Arg Arg Leu Met Ala
 Ile Ala
 Asp Glu Val Glu Ile Ala Glu Ala Ile Gln Leu Gly Val Glu Asp Thr Leu Asp
 Gly Gln
 Gln Asp Ser Phe Leu Gln Ala Ser Val Pro Asn Asn Tyr Leu Glu Thr Thr Glu
 Asn Ser
 Ser Pro Glu Cys Thr Val His Leu Glu Lys Thr Gly Lys Gly Leu Cys Ala Thr
 Lys Leu
 Ser Ala Ser Ser Glu Asp Ile Ser Glu Arg Leu Ala Ser Ile Ser Val Gly Pro
 Ser Ser
 Ser Thr Thr Thr Thr Thr Thr Thr Thr Glu Gln Pro Lys Pro Met Val Gln Thr
 Lys Gly
 Arg Pro His Ser Gln Cys Leu Asn Ser Ser Pro Leu Ser His His Ser Gln Leu
 Met Phe
 Pro Ala Leu Ser Thr Pro Ser Ser Ser Thr Pro Ser Val Pro Ala Gly Thr Ala
 Thr Asp
 Val Ser Lys His Arg Leu Gln Gly Phe Ile Pro Cys Arg Ile Pro Ser Ala Ser
 Pro Gln
 Thr Gln Arg Lys Phe Ser Leu Gln Phe His Arg Asn Cys Pro Glu Asn Lys Asp
 Ser Asp
 Lys Leu Ser Pro Val Phe Thr Gln Ser Arg Pro Leu Pro Ser Ser Asn Ile His
 Arg Pro
 Lys Pro Ser Arg Pro Thr Pro Gly Asn Thr Ser Lys Gln Gly Asp Pro Ser Lys
 Asn Ser
 Met Thr Leu Asp Leu Asn Ser Ser Ser Lys Cys Asp Asp Ser Phe Gly Cys Ser
 Ser Asn
 Ser Ser Asn Ala Val Ile Pro Ser Asp Glu Thr Val Phe Thr Pro Val Glu Glu
 Lys Cys
 Arg Leu Asp Val Asn Thr Glu Leu Asn Ser Ser Ile Glu Asp Leu Leu Glu Ala
 Ser Met
 Pro Ser Ser Asp Thr Thr Val Thr Phe Lys Ser Glu Val Ala Val Leu Ser Pro
 Glu Lys
 Ala Glu Asn Asp Asp Thr Tyr Lys Asp Asp Val Asn His Asn Gln Lys Cys Lys
 Glu Lys

Met Glu Ala Glu Glu Glu Glu Ala Leu Ala Ile Ala Met Ala Met Ser Ala Ser
 Gln Asp
 Ala Leu Pro Ile Val Pro Gln Leu Gln Val Glu Asn Gly Glu Asp Ile Ile Ile
 Ile Gln
 Gln Asp Thr Pro Glu Thr Leu Pro Gly His Thr Lys Ala Lys Gln Pro Tyr Arg
 Glu Asp
 Thr Glu Trp Leu Lys Gly Gln Gln Ile Gly Leu Gly Ala Phe Ser Ser Cys Tyr
 Gln Ala
 Gln Asp Val Gly Thr Gly Thr Leu Met Ala Val Lys Gln Val Thr Tyr Val Arg
 Asn Thr
 Ser Ser Glu Gln Glu Glu Val Val Glu Ala Leu Arg Glu Glu Ile Arg Met Met
 Ser His
 Leu Asn His Pro Asn Ile Ile Arg Met Leu Gly Ala Thr Cys Glu Lys Ser Asn
 Tyr Asn
 Leu Phe Ile Glu Trp Met Ala Gly Gly Ser Val Ala His Leu Leu Ser Lys Tyr
 Gly Ala
 Phe Lys Glu Ser Val Val Ile Asn Tyr Thr Glu Gln Leu Leu Arg Gly Leu Ser
 Tyr Leu
 His Glu Asn Gln Ile Ile His Arg Asp Val Lys Gly Ala Asn Leu Leu Ile Asp
 Ser Thr
 Gly Gln Arg Leu Arg Ile Ala Asp Phe Gly Ala Ala Ala Arg Leu Ala Ser Lys
 Gly Thr
 Gly Ala Gly Glu Phe Gln Gly Gln Leu Leu Gly Thr Ile Ala Phe Met Ala Pro
 Glu Val
 Leu Arg Gly Gln Gln Tyr Gly Arg Ser Cys Asp Val Trp Ser Val Gly Cys Ala
 Ile Ile
 Glu Met Ala Cys Ala Lys Pro Pro Trp Asn Ala Glu Lys His Ser Asn His Leu
 Ala Leu
 Ile Phe Lys Ile Ala Ser Ala Thr Thr Ala Pro Ser Ile Pro Ser His Leu Ser
 Pro Gly
 Leu Arg Asp Val Ala Leu Arg Cys Leu Glu Leu Gln Pro Gln Asp Arg Pro Pro
 Ser Arg
 Glu Leu Leu Lys His Pro Val Phe Arg Thr Thr Trp *

<SEQ15;PROTEIN/3;HOMO SAPIENS>1069

Met Pro Pro Arg Pro Ser Ser Gly Glu Leu Trp Gly Ile His Leu Met Pro Pro
 Arg Ile
 Leu Val Glu Cys Leu Leu Pro Asn Gly Met Ile Val Thr Leu Glu Cys Leu Arg
 Glu Ala
 Thr Leu Ile Thr Ile Lys His Glu Leu Phe Lys Glu Ala Arg Lys Tyr Pro Leu
 His Gln
 Leu Leu Gln Asp Glu Ser Ser Tyr Ile Phe Val Ser Val Thr Gln Glu Ala Glu
 Arg Glu
 Glu Phe Phe Asp Glu Thr Arg Arg Leu Cys Asp Leu Arg Leu Phe Gln Pro Phe
 Leu Lys
 Val Ile Glu Pro Val Gly Asn Arg Glu Glu Lys Ile Leu Asn Arg Glu Ile Gly
 Phe Ala
 Ile Gly Met Pro Val Cys Glu Phe Asp Met Val Lys Asp Pro Glu Val Gln Asp
 Phe Arg
 Arg Asn Ile Leu Asn Val Cys Lys Glu Ala Val Asp Leu Arg Asp Leu Asn Ser
 Pro His
 Ser Arg Ala Met Tyr Val Tyr Pro Pro Asn Val Glu Ser Ser Pro Glu Leu Pro
 Lys His
 Ile Tyr Asn Lys Leu Asp Lys Gly Gln Ile Ile Val Val Ile Trp Val Ile Val
 Ser Pro
 Asn Asn Asp Lys Gln Lys Tyr Thr Leu Lys Ile Asn His Asp Cys Val Pro Glu
 Gln Val
 Ile Ala Glu Ala Ile Arg Lys Lys Thr Arg Ser Met Leu Leu Ser Ser Glu Gln
 Leu Lys
 Leu Cys Val Leu Glu Tyr Gln Gly Lys Tyr Ile Leu Lys Val Cys Gly Cys Asp
 Glu Tyr
 Phe Leu Glu Lys Tyr Pro Leu Ser Gln Tyr Lys Tyr Ile Arg Ser Cys Ile Met
 Leu Gly
 Arg Met Pro Asn Leu Met Leu Met Ala Lys Glu Ser Leu Tyr Ser Gln Leu Pro
 Met Asp
 Cys Phe Thr Met Pro Ser Tyr Ser Arg Arg Ile Ser Thr Ala Thr Pro Tyr Met
 Asn Gly

Glu Thr Ser Thr Lys Ser Leu Trp Val Ile Asn Ser Ala Leu Arg Ile Lys Ile
 Leu Cys
 Ala Thr Tyr Val Asn Val Asn Ile Arg Asp Ile Asp Lys Ile Tyr Val Arg Thr
 Gly Ile
 Tyr His Gly Gly Glu Pro Leu Cys Asp Asn Val Asn Thr Gln Arg Val Pro Cys
 Ser Asn
 Pro Arg Trp Asn Glu Trp Leu Asn Tyr Asp Ile Tyr Ile Pro Asp Leu Pro Arg
 Ala Ala
 Arg Leu Cys Leu Ser Ile Cys Ser Val Lys Gly Arg Lys Gly Ala Lys Glu Glu
 His Cys
 Pro Leu Ala Trp Gly Asn Ile Asn Leu Phe Asp Tyr Thr Asp Thr Leu Val Ser
 Gly Lys
 Met Ala Leu Asn Leu Trp Pro Val Pro His Gly Leu Glu Asp Leu Leu Asn Pro
 Ile Gly
 Val Thr Gly Ser Asn Pro Asn Lys Glu Thr Pro Cys Leu Glu Leu Glu Phe Asp
 Trp Phe
 Ser Ser Val Val Lys Phe Pro Asp Met Ser Val Ile Glu Glu His Ala Asn Trp
 Ser Val
 Ser Arg Glu Ala Gly Phe Ser Tyr Ser His Ala Gly Leu Ser Asn Arg Leu Ala
 Arg Asp
 Asn Glu Leu Arg Glu Asn Asp Lys Glu Gln Leu Lys Ala Ile Ser Thr Arg Asp
 Pro Leu
 Ser Glu Ile Thr Glu Gln Glu Lys Asp Phe Leu Trp Ser His Arg His Tyr Cys
 Val Thr
 Ile Pro Glu Ile Leu Pro Lys Leu Leu Leu Ser Val Lys Trp Asn Ser Arg Asp
 Glu Val
 Ala Gln Met Tyr Cys Leu Val Lys Asp Trp Pro Pro Ile Lys Pro Glu Gln Ala
 Met Glu
 Leu Leu Asp Cys Asn Tyr Pro Asp Pro Met Val Arg Gly Phe Ala Val Arg Cys
 Leu Glu
 Lys Tyr Leu Thr Asp Asp Lys Leu Ser Gln Tyr Leu Ile Gln Leu Val Gln Val
 Leu Lys
 Tyr Glu Gln Tyr Leu Asp Asn Leu Leu Val Arg Phe Leu Leu Lys Lys Ala Leu
 Thr Asn
 Gln Arg Ile Gly His Phe Phe Phe Trp His Leu Lys Ser Glu Met His Asn Lys
 Thr Val
 Ser Gln Arg Phe Gly Leu Leu Leu Glu Ser Tyr Cys Arg Ala Cys Gly Met Tyr
 Leu Lys
 His Leu Asn Arg Gln Val Glu Ala Met Glu Lys Leu Ile Asn Leu Thr Asp Ile
 Leu Lys
 Gln Glu Lys Lys Asp Glu Thr Gln Lys Val Gln Met Lys Phe Leu Val Glu Gln
 Met Arg
 Arg Pro Asp Phe Met Asp Ala Leu Gln Gly Phe Leu Ser Pro Leu Asn Pro Ala
 His Gln
 Leu Gly Asn Leu Arg Leu Glu Glu Cys Arg Ile Met Ser Ser Ala Lys Arg Pro
 Leu Trp
 Leu Asn Trp Glu Asn Pro Asp Ile Met Ser Glu Leu Leu Phe Gln Asn Asn Glu
 Ile Ile
 Phe Lys Asn Gly Asp Asp Leu Arg Gln Asp Met Leu Thr Leu Gln Ile Ile Arg
 Ile Met
 Glu Asn Ile Trp Gln Asn Gln Gly Leu Asp Leu Arg Met Leu Pro Tyr Gly Cys
 Leu Ser
 Ile Gly Asp Cys Val Gly Leu Ile Glu Val Val Arg Asn Ser His Thr Ile Met
 Gln Ile
 Gln Cys Lys Gly Gly Leu Lys Gly Ala Leu Gln Phe Asn Ser His Thr Leu His
 Gln Trp
 Leu Lys Asp Lys Asn Lys Gly Glu Ile Tyr Asp Ala Ala Ile Asp Leu Phe Thr
 Arg Ser
 Cys Ala Gly Tyr Cys Val Ala Thr Phe Ile Leu Gly Ile Gly Asp Arg His Asn
 Ser Asn
 Ile Met Val Lys Asp Asp Gly Gln Leu Phe His Ile Asp Phe Gly His Phe Leu
 Asp His
 Lys Lys Lys Lys Phe Gly Tyr Lys Arg Glu Arg Val Pro Phe Val Leu Thr Gln
 Asp Phe
 Leu Ile Val Ile Ser Lys Gly Ala Gln Glu Cys Thr Lys Thr Arg Glu Phe Glu
 Arg Phe

Gln Glu Met Cys Tyr Lys Ala Tyr Leu Ala Ile Arg Gln His Ala Asn Leu Phe
 Ile Asn
 Leu Phe Ser Met Met Leu Gly Ser Gly Met Pro Glu Leu Gln Ser Phe Asp Asp
 Ile Ala
 Tyr Ile Arg Lys Thr Leu Ala Leu Asp Lys Thr Glu Gln Glu Ala Leu Glu Tyr
 Phe Met
 Lys Gln Met Asn Asp Ala His His Gly Gly Trp Thr Thr Lys Met Asp Trp Ile
 Phe His
 Thr Ile Lys Gln His Ala Leu Asn *

<SEQ16;PROTEIN/3;HOMO SAPIENS>480

Met Ser Asp Val Ala Ile Val Lys Glu Gly Trp Leu His Lys Arg Gly Glu Tyr
 Ile Lys
 Thr Trp Arg Pro Arg Tyr Phe Leu Leu Lys Asn Asp Gly Thr Phe Ile Gly Tyr
 Lys Glu
 Arg Pro Gln Asp Val Asp Gln Arg Glu Ala Pro Leu Asn Asn Phe Ser Val Ala
 Gln Cys
 Gln Leu Met Lys Thr Glu Arg Pro Arg Pro Asn Thr Phe Ile Ile Arg Cys Leu
 Gln Trp
 Thr Thr Val Ile Glu Arg Thr Phe His Val Glu Thr Pro Glu Glu Arg Glu Glu
 Trp Thr
 Thr Ala Ile Gln Thr Val Ala Asp Gly Leu Lys Lys Gln Glu Glu Glu Glu Met
 Asp Phe
 Arg Ser Gly Ser Pro Ser Asp Asn Ser Gly Ala Glu Glu Met Glu Val Ser Leu
 Ala Lys
 Pro Lys His Arg Val Thr Met Asn Glu Phe Glu Tyr Leu Lys Leu Leu Gly Lys
 Gly Thr
 Phe Gly Lys Val Ile Leu Val Lys Glu Lys Ala Thr Gly Arg Tyr Tyr Ala Met
 Lys Ile
 Leu Lys Lys Glu Val Ile Val Ala Lys Asp Glu Val Ala His Thr Leu Thr Glu
 Asn Arg
 Val Leu Gln Asn Ser Arg His Pro Phe Leu Thr Ala Leu Lys Tyr Ser Phe Gln
 Thr His
 Asp Arg Leu Cys Phe Val Met Glu Tyr Ala Asn Gly Gly Glu Leu Phe Phe His
 Leu Ser
 Arg Glu Arg Val Phe Ser Glu Asp Arg Ala Arg Phe Tyr Gly Ala Glu Ile Val
 Ser Ala
 Leu Asp Tyr Leu His Ser Glu Lys Asn Val Val Tyr Arg Asp Leu Lys Leu Glu
 Asn Leu
 Met Leu Asp Lys Asp Gly His Ile Lys Ile Thr Asp Phe Gly Leu Cys Lys Glu
 Gly Ile
 Lys Asp Gly Ala Thr Met Lys Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro
 Glu Val
 Leu Glu Asp Asn Asp Tyr Gly Arg Ala Val Asp Trp Trp Gly Leu Gly Val Val
 Met Tyr
 Glu Met Met Cys Gly Arg Leu Pro Phe Tyr Asn Gln Asp His Glu Lys Leu Phe
 Glu Leu
 Ile Leu Met Glu Glu Ile Arg Phe Pro Arg Thr Leu Gly Pro Glu Ala Lys Ser
 Leu Leu
 Ser Gly Leu Leu Lys Lys Asp Pro Lys Gln Arg Leu Gly Gly Gly Ser Glu Asp
 Ala Lys
 Glu Ile Met Gln His Arg Phe Phe Ala Gly Ile Val Trp Gln His Val Tyr Glu
 Lys Lys
 Leu Ser Pro Pro Phe Lys Pro Gln Val Thr Ser Glu Thr Asp Thr Arg Tyr Phe
 Asp Glu
 Glu Phe Thr Ala Gln Met Ile Thr Ile Thr Pro Pro Asp Gln Asp Asp Ser Met
 Glu Cys
 Val Asp Ser Glu Arg Arg Pro His Phe Pro Gln Phe Ser Tyr Ser Ala Ser Gly
 Thr Ala
 *

<SEQ17;PROTEIN/3;HOMO SAPIENS>481

Met Asn Glu Val Ser Val Ile Lys Glu Gly Trp Leu His Lys Arg Gly Glu Tyr
 Ile Lys
 Thr Trp Arg Pro Arg Tyr Phe Leu Leu Lys Ser Asp Gly Ser Phe Ile Gly Tyr
 Lys Glu

Arg Pro Glu Ala Pro Asp Gln Thr Leu Pro Pro Leu Asn Asn Phe Ser Val Ala
 Glu Cys
 Gln Leu Met Lys Thr Glu Arg Pro Arg Pro Asn Thr Phe Val Ile Arg Cys Leu
 Gln Trp
 Thr Thr Val Ile Glu Arg Thr Phe His Val Asp Ser Pro Asp Glu Arg Glu Glu
 Trp Met
 Arg Ala Ile Gln Met Val Ala Asn Ser Leu Lys Gln Arg Ala Pro Gly Glu Asp
 Pro Met
 Asp Tyr Lys Cys Gly Ser Pro Ser Asp Ser Ser Thr Thr Glu Glu Met Glu Val
 Ala Val
 Ser Lys Ala Arg Ala Lys Val Thr Met Asn Asp Phe Asp Tyr Leu Lys Leu Leu
 Gly Lys
 Gly Thr Phe Gly Lys Val Ile Leu Val Arg Glu Lys Ala Thr Gly Arg Tyr Tyr
 Ala Met
 Lys Ile Leu Arg Lys Glu Val Ile Ile Ala Lys Asp Glu Val Ala His Thr Val
 Thr Glu
 Ser Arg Val Leu Gln Asn Thr Arg His Pro Phe Leu Thr Ala Leu Lys Tyr Ala
 Phe Gln
 Thr His Asp Arg Leu Cys Phe Val Met Glu Tyr Ala Asn Gly Gly Glu Leu Phe
 Phe His
 Leu Ser Arg Glu Arg Val Phe Thr Glu Glu Arg Ala Arg Phe Tyr Gly Ala Glu
 Ile Val
 Ser Ala Leu Glu Tyr Leu His Ser Arg Asp Val Val Tyr Arg Asp Ile Lys Leu
 Glu Asn
 Leu Met Leu Asp Lys Asp Gly His Ile Lys Ile Thr Asp Phe Gly Leu Cys Lys
 Glu Gly
 Ile Ser Asp Gly Ala Thr Met Lys Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala
 Pro Glu
 Val Leu Glu Asp Asn Asp Tyr Gly Arg Ala Val Asp Trp Trp Gly Leu Gly Val
 Val Met
 Tyr Glu Met Met Cys Gly Arg Leu Pro Phe Tyr Asn Gln Asp His Glu Arg Leu
 Phe Glu
 Leu Ile Leu Met Glu Glu Ile Arg Phe Pro Arg Thr Leu Ser Pro Glu Ala Lys
 Ser Leu
 Leu Ala Gly Leu Leu Lys Lys Asp Pro Lys Gln Arg Leu Gly Gly Gly Pro Ser
 Asp Ala
 Lys Glu Val Met Glu His Arg Phe Phe Leu Ser Ile Asn Trp Gln Asp Val Val
 Gln Lys
 Lys Leu Leu Pro Pro Phe Lys Pro Gln Val Thr Ser Glu Val Asp Thr Arg Tyr
 Phe Asp
 Asp Glu Phe Thr Ala Gln Ser Ile Thr Ile Thr Pro Pro Asp Arg Tyr Asp Ser
 Leu Gly
 Leu Leu Glu Leu Asp Gln Arg Thr His Phe Pro Gln Phe Ser Tyr Ser Ala Ser
 Ile Arg
 Glu *

<SEQ18;PROTEIN/3;HOMO SAPIENS>399

Met Ala Ala Pro Ser Pro Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Ser
 Gly Thr
 Pro Gly Pro Val Gly Ser Pro Ala Pro Gly His Pro Ala Val Ser Ser Met Gln
 Gly Lys
 Arg Lys Ala Leu Lys Leu Asn Phe Ala Asn Pro Pro Phe Lys Ser Thr Ala Arg
 Phe Thr
 Leu Asn Pro Asn Pro Thr Gly Val Gln Asn Pro His Ile Glu Arg Leu Arg Thr
 His Ser
 Ile Glu Ser Ser Gly Lys Leu Lys Ile Ser Pro Glu Gln His Trp Asp Phe Thr
 Ala Glu
 Asp Leu Lys Asp Leu Gly Glu Ile Gly Arg Gly Ala Tyr Gly Ser Val Asn Lys
 Met Val
 His Lys Pro Ser Gly Gln Ile Met Ala Val Lys Arg Ile Arg Ser Thr Val Asp
 Glu Lys
 Glu Gln Lys Gln Leu Leu Met Asp Leu Asp Val Val Met Arg Ser Ser Asp Cys
 Pro Tyr
 Ile Val Gln Phe Tyr Gly Ala Leu Phe Arg Glu Gly Asp Cys Trp Ile Cys Met
 Glu Leu
 Met Ser Thr Ser Phe Asp Lys Phe Tyr Lys Tyr Val Tyr Ser Val Leu Asp Asp
 Val Ile

Pro Glu Glu Ile Leu Gly Lys Ile Thr Leu Ala Thr Val Lys Ala Leu Asn His
 Leu Lys
 Glu Asn Leu Lys Ile Ile His Arg Asp Ile Lys Pro Ser Asn Ile Leu Leu Asp
 Arg Ser
 Gly Asn Ile Lys Leu Cys Asp Phe Gly Ile Ser Gly Gln Leu Val Asp Ser Ile
 Ala Lys
 Thr Arg Asp Ala Gly Cys Arg Pro Tyr Met Ala Pro Glu Arg Ile Asp Pro Ser
 Ala Ser
 Arg Gln Gly Tyr Asp Val Arg Ser Asp Val Trp Ser Leu Gly Ile Thr Leu Tyr
 Glu Leu
 Ala Thr Gly Arg Phe Pro Tyr Pro Lys Trp Asn Ser Val Phe Asp Gln Leu Thr
 Gln Val
 Val Lys Gly Asp Pro Pro Gln Leu Ser Asn Ser Glu Glu Arg Glu Phe Ser Pro
 Ser Phe
 Ile Asn Phe Val Asn Leu Cys Leu Thr Lys Asp Glu Ser Lys Arg Pro Lys Tyr
 Lys Glu
 Leu Leu Lys His Pro Phe Ile Leu Met Tyr Glu Glu Arg Ala Val Glu Val Ala
 Cys Tyr
 Val Cys Lys Ile Leu Asp Gln Met Pro Ala Thr Pro Ser Ser Pro Met Tyr Val
 Asp *

<SEQ19;PROTEIN/3;HOMO SAPIENS>1512

Met Ala Ala Ala Ala Gly Asn Arg Ala Ser Ser Ser Gly Phe Pro Gly Ala Arg
 Ala Thr
 Ser Pro Glu Ala Gly Gly Gly Gly Gly Ala Leu Lys Ala Ser Ser Ala Pro Ala
 Ala Ala
 Ala Gly Leu Leu Arg Glu Ala Gly Ser Gly Gly Arg Glu Arg Ala Asp Trp Arg
 Arg Arg
 Gln Leu Arg Lys Val Arg Ser Val Glu Leu Asp Gln Leu Pro Glu Gln Pro Leu
 Phe Leu
 Ala Ala Ser Pro Pro Ala Ser Ser Thr Ser Pro Ser Pro Glu Pro Ala Asp Ala
 Ala Gly
 Ser Gly Thr Gly Phe Gln Pro Val Ala Val Pro Pro Pro His Gly Ala Ala Ser
 Arg Gly
 Gly Ala His Leu Thr Glu Ser Val Ala Ala Pro Asp Ser Gly Ala Ser Ser Pro
 Ala Ala
 Ala Glu Pro Gly Glu Lys Arg Ala Pro Ala Ala Glu Pro Ser Pro Ala Ala Ala
 Pro Ala
 Gly Arg Glu Met Glu Asn Lys Glu Thr Leu Lys Gly Leu His Lys Met Asp Asp
 Arg Pro
 Glu Glu Arg Met Ile Arg Glu Lys Leu Lys Ala Thr Cys Met Pro Ala Trp Lys
 His Glu
 Trp Leu Glu Arg Arg Asn Arg Arg Gly Pro Val Val Val Lys Pro Ile Pro Val
 Lys Gly
 Asp Gly Ser Glu Met Asn His Leu Ala Ala Glu Ser Pro Gly Glu Val Gln Ala
 Ser Ala
 Ala Ser Pro Ala Ser Lys Gly Arg Arg Ser Pro Ser Pro Gly Asn Ser Pro Ser
 Gly Arg
 Thr Val Lys Ser Glu Ser Pro Gly Val Arg Arg Lys Arg Val Ser Pro Val Pro
 Phe Gln
 Ser Gly Arg Ile Thr Pro Pro Arg Arg Ala Pro Ser Pro Asp Gly Phe Ser Pro
 Tyr Ser
 Pro Glu Glu Thr Asn Arg Arg Val Asn Lys Val Met Arg Ala Arg Leu Tyr Leu
 Leu Gln
 Gln Ile Gly Pro Asn Ser Phe Leu Ile Gly Gly Asp Ser Pro Asp Asn Lys Tyr
 Arg Val
 Phe Ile Gly Pro Gln Asn Cys Ser Cys Ala Arg Gly Thr Phe Cys Ile His Leu
 Leu Phe
 Val Met Leu Arg Val Phe Gln Leu Glu Pro Ser Asp Pro Met Leu Trp Arg Lys
 Thr Leu
 Lys Asn Phe Glu Val Glu Ser Leu Phe Gln Lys Tyr His Ser Arg Arg Ser Ser
 Arg Ile
 Lys Ala Pro Ser Arg Asn Thr Ile Gln Lys Phe Val Ser Arg Met Ser Asn Ser
 His Thr
 Leu Ser Ser Ser Thr Ser Thr Ser Ser Ser Glu Asn Ser Ile Lys Asp Glu
 Glu Glu

Gln Met Cys Pro Ile Cys Leu Leu Gly Met Leu Asp Glu Glu Ser Leu Thr Val
 Cys Glu
 Asp Gly Cys Arg Asn Lys Leu His His His Cys Met Ser Ile Trp Ala Glu Glu
 Cys Arg
 Arg Asn Arg Glu Pro Leu Ile Cys Pro Leu Cys Arg Ser Lys Trp Arg Ser His
 Asp Phe
 Tyr Ser His Glu Leu Ser Ser Pro Val Asp Ser Pro Ser Ser Leu Arg Ala Ala
 Gln Gln
 Gln Thr Val Gln Gln Gln Pro Leu Ala Gly Ser Arg Arg Asn Gln Glu Ser Asn
 Phe Asn
 Leu Thr His Tyr Gly Thr Gln Gln Ile Pro Pro Ala Tyr Lys Asp Leu Ala Glu
 Pro Trp
 Ile Gln Val Phe Gly Met Glu Leu Val Gly Cys Leu Phe Ser Arg Asn Trp Asn
 Val Arg
 Glu Met Ala Leu Arg Arg Leu Ser His Asp Val Ser Gly Ala Leu Leu Leu Ala
 Asn Gly
 Glu Ser Thr Gly Asn Ser Gly Gly Ser Ser Gly Ser Ser Pro Ser Gly Gly Ala
 Thr Ser
 Gly Ser Ser Gln Thr Ser Ile Ser Gly Asp Val Val Glu Ala Cys Cys Ser Val
 Leu Ser
 Met Val Cys Ala Asp Pro Val Tyr Lys Val Tyr Val Ala Ala Leu Lys Thr Leu
 Arg Ala
 Met Leu Val Tyr Thr Pro Cys His Ser Leu Ala Glu Arg Ile Lys Leu Gln Arg
 Leu Leu
 Gln Pro Val Val Asp Thr Ile Leu Val Lys Cys Ala Asp Ala Asn Ser Arg Thr
 Ser Gln
 Leu Ser Ile Ser Thr Leu Leu Glu Leu Cys Lys Gly Gln Ala Gly Glu Leu Ala
 Val Gly
 Arg Glu Ile Leu Lys Ala Gly Ser Ile Gly Ile Gly Gly Val Asp Tyr Val Leu
 Asn Cys
 Ile Leu Gly Asn Gln Thr Glu Ser Asn Asn Trp Gln Glu Leu Leu Gly Arg Leu
 Cys Leu
 Ile Asp Arg Leu Leu Leu Glu Phe Pro Ala Glu Phe Tyr Pro His Ile Val Ser
 Thr Asp
 Val Ser Gln Ala Glu Pro Val Glu Ile Arg Tyr Lys Lys Leu Leu Ser Leu Leu
 Thr Phe
 Ala Leu Gln Ser Ile Asp Asn Ser His Ser Met Val Gly Lys Leu Ser Arg Arg
 Ile Tyr
 Leu Ser Ser Ala Arg Met Val Thr Thr Val Pro His Val Phe Ser Lys Leu Leu
 Glu Met
 Leu Ser Val Ser Ser Ser Thr His Phe Thr Arg Met Arg Arg Arg Leu Met Ala
 Ile Ala
 Asp Glu Val Glu Ile Ala Glu Ala Ile Gln Leu Gly Val Glu Asp Thr Leu Asp
 Gly Gln
 Gln Asp Ser Phe Leu Gln Ala Ser Val Pro Asn Asn Tyr Leu Glu Thr Thr Glu
 Asn Ser
 Ser Pro Glu Cys Thr Val His Leu Glu Lys Thr Gly Lys Gly Leu Cys Ala Thr
 Lys Leu
 Ser Ala Ser Ser Glu Asp Ile Ser Glu Arg Leu Ala Ser Ile Ser Val Gly Pro
 Ser Ser
 Ser Thr Thr Thr Thr Thr Thr Thr Thr Glu Gln Pro Lys Pro Met Val Gln Thr
 Lys Gly
 Arg Pro His Ser Gln Cys Leu Asn Ser Ser Pro Leu Ser His His Ser Gln Leu
 Met Phe
 Pro Ala Leu Ser Thr Pro Ser Ser Ser Thr Pro Ser Val Pro Ala Gly Thr Ala
 Thr Asp
 Val Ser Lys His Arg Leu Gln Gly Phe Ile Pro Cys Arg Ile Pro Ser Ala Ser
 Pro Gln
 Thr Gln Arg Lys Phe Ser Leu Gln Phe His Arg Asn Cys Pro Glu Asn Lys Asp
 Ser Asp
 Lys Leu Ser Pro Val Phe Thr Gln Ser Arg Pro Leu Pro Ser Ser Asn Ile His
 Arg Pro
 Lys Pro Ser Arg Pro Thr Pro Gly Asn Thr Ser Lys Gln Gly Asp Pro Ser Lys
 Asn Ser
 Met Thr Leu Asp Leu Asn Ser Ser Ser Lys Cys Asp Asp Ser Phe Gly Cys Ser
 Ser Asn

Ser Ser Asn Ala Val Ile Pro Ser Asp Glu Thr Val Phe Thr Pro Val Glu Glu
 Lys Cys
 Arg Leu Asp Val Asn Thr Glu Leu Asn Ser Ser Ile Glu Asp Leu Leu Glu Ala
 Ser Met
 Pro Ser Ser Asp Thr Thr Val Thr Phe Lys Ser Glu Val Ala Val Leu Ser Pro
 Glu Lys
 Ala Glu Asn Asp Asp Thr Tyr Lys Asp Asp Val Asn His Asn Gln Lys Cys Lys
 Glu Lys
 Met Glu Ala Glu Glu Glu Glu Ala Leu Ala Ile Ala Met Ala Met Ser Ala Ser
 Gln Asp
 Ala Leu Pro Ile Val Pro Gln Leu Gln Val Glu Asn Gly Glu Asp Ile Ile Ile
 Ile Gln
 Gln Asp Thr Pro Glu Thr Leu Pro Gly His Thr Lys Ala Lys Gln Pro Tyr Arg
 Glu Asp
 Thr Glu Trp Leu Lys Gly Gln Gln Ile Gly Leu Gly Ala Phe Ser Ser Cys Tyr
 Gln Ala
 Gln Asp Val Gly Thr Gly Thr Leu Met Ala Val Lys Gln Val Thr Tyr Val Arg
 Asn Thr
 Ser Ser Glu Gln Glu Glu Val Val Glu Ala Leu Arg Glu Glu Ile Arg Met Met
 Ser His
 Leu Asn His Pro Asn Ile Ile Arg Met Leu Gly Ala Thr Cys Glu Lys Ser Asn
 Tyr Asn
 Leu Phe Ile Glu Trp Met Ala Gly Gly Ser Val Ala His Leu Leu Ser Lys Tyr
 Gly Ala
 Phe Lys Glu Ser Val Val Ile Asn Tyr Thr Glu Gln Leu Leu Arg Gly Leu Ser
 Tyr Leu
 His Glu Asn Gln Ile Ile His Arg Asp Val Lys Gly Ala Asn Leu Leu Ile Asp
 Ser Thr
 Gly Gln Arg Leu Arg Ile Ala Asp Phe Gly Ala Ala Ala Arg Leu Ala Ser Lys
 Gly Thr
 Gly Ala Gly Glu Phe Gln Gly Gln Leu Leu Gly Thr Ile Ala Phe Met Ala Pro
 Glu Val
 Leu Arg Gly Gln Gln Tyr Gly Arg Ser Cys Asp Val Trp Ser Val Gly Cys Ala
 Ile Ile
 Glu Met Ala Cys Ala Lys Pro Pro Trp Asn Ala Glu Lys His Ser Asn His Leu
 Ala Leu
 Ile Phe Lys Ile Ala Ser Ala Thr Thr Ala Pro Ser Ile Pro Ser His Leu Ser
 Pro Gly
 Leu Arg Asp Val Ala Leu Arg Cys Leu Glu Leu Gln Pro Gln Asp Arg Pro Pro
 Ser Arg
 Glu Leu Leu Lys His Pro Val Phe Arg Thr Thr Trp *

<SEQ20;PROTEIN/3;HOMO SAPIENS>1068

Met Pro Pro Arg Pro Ser Ser Gly Glu Leu Trp Gly Ile His Leu Met Pro Pro
 Arg Ile
 Leu Val Glu Cys Leu Leu Pro Asn Gly Met Ile Val Thr Leu Glu Cys Leu Arg
 Glu Ala
 Thr Leu Ile Thr Ile Lys His Glu Leu Phe Lys Glu Ala Arg Lys Tyr Pro Leu
 His Gln
 Leu Leu Gln Asp Glu Ser Ser Tyr Ile Phe Val Ser Val Thr Gln Glu Ala Glu
 Arg Glu
 Glu Phe Phe Asp Glu Thr Arg Arg Leu Cys Asp Leu Arg Leu Phe Gln Pro Phe
 Leu Lys
 Val Ile Glu Pro Val Gly Asn Arg Glu Glu Lys Ile Leu Asn Arg Glu Ile Gly
 Phe Ala
 Ile Gly Met Pro Val Cys Glu Phe Asp Met Val Lys Asp Pro Glu Val Gln Asp
 Phe Arg
 Arg Asn Ile Leu Asn Val Cys Lys Glu Ala Val Asp Leu Arg Asp Leu Asn Ser
 Pro His
 Ser Arg Ala Met Tyr Val Tyr Pro Pro Asn Val Glu Ser Ser Pro Glu Leu Pro
 Lys His
 Ile Tyr Asn Lys Leu Asp Lys Gly Gln Ile Ile Val Val Ile Trp Val Ile Val
 Ser Pro
 Asn Asn Asp Lys Gln Lys Tyr Thr Leu Lys Ile Asn His Asp Cys Val Pro Glu
 Gln Val
 Ile Ala Glu Ala Ile Arg Lys Lys Thr Arg Ser Met Leu Leu Ser Ser Glu Gln
 Leu Lys

Leu Cys Val Leu Glu Tyr Gln Gly Lys Tyr Ile Leu Lys Val Cys Gly Cys Asp
 Glu Tyr Phe Leu Glu Lys Tyr Pro Leu Ser Gln Tyr Lys Tyr Ile Arg Ser Cys Ile Met
 Leu Gly Arg Met Pro Asn Leu Met Leu Met Ala Lys Glu Ser Leu Tyr Ser Gln Leu Pro
 Met Asp Cys Phe Thr Met Pro Ser Tyr Ser Arg Arg Ile Ser Thr Ala Thr Pro Tyr Met
 Asn Gly Glu Thr Ser Thr Lys Ser Leu Trp Val Ile Asn Ser Ala Leu Arg Ile Lys Ile
 Leu Cys Ala Thr Tyr Val Asn Val Asn Ile Arg Asp Ile Asp Lys Ile Tyr Val Arg Thr
 Gly Ile Tyr His Gly Gly Glu Pro Leu Cys Asp Asn Val Asn Thr Gln Arg Val Pro Cys
 Ser Asn Pro Arg Trp Asn Glu Trp Leu Asn Tyr Asp Ile Tyr Ile Pro Asp Leu Pro Arg
 Ala Ala Arg Leu Cys Leu Ser Ile Cys Ser Val Lys Gly Arg Lys Gly Ala Lys Glu Glu
 His Cys Pro Leu Ala Trp Gly Asn Ile Asn Leu Phe Asp Tyr Thr Asp Thr Leu Val Ser
 Gly Lys Met Ala Leu Asn Leu Trp Pro Val Pro His Gly Leu Glu Asp Leu Leu Asn Pro
 Ile Gly Val Thr Gly Ser Asn Pro Asn Lys Glu Thr Pro Cys Leu Glu Leu Glu Phe Asp
 Trp Phe Ser Ser Val Val Lys Phe Pro Asp Met Ser Val Ile Glu Glu His Ala Asn Trp
 Ser Val Ser Arg Glu Ala Gly Phe Ser Tyr Ser His Ala Gly Leu Ser Asn Arg Leu Ala
 Arg Asp Asn Glu Leu Arg Glu Asn Asp Lys Glu Gln Leu Lys Ala Ile Ser Thr Arg Asp
 Pro Leu Ser Glu Ile Thr Glu Gln Glu Lys Asp Phe Leu Trp Ser His Arg His Tyr Cys
 Val Thr Ile Pro Glu Ile Leu Pro Lys Leu Leu Leu Ser Val Lys Trp Asn Ser Arg Asp
 Glu Val Ala Gln Met Tyr Cys Leu Val Lys Asp Trp Pro Pro Ile Lys Pro Glu Gln Ala
 Met Glu Leu Leu Asp Cys Asn Tyr Pro Asp Pro Met Val Arg Gly Phe Ala Val Arg Cys
 Leu Glu Lys Tyr Leu Thr Asp Asp Lys Leu Ser Gln Tyr Leu Ile Gln Leu Val Gln Val
 Leu Lys Tyr Glu Gln Tyr Leu Asp Asn Leu Leu Val Arg Phe Leu Leu Lys Lys Ala Leu
 Thr Asn Gln Arg Ile Gly His Phe Phe Phe Trp His Leu Lys Ser Glu Met His Asn Lys
 Thr Val Ser Gln Arg Phe Gly Leu Leu Leu Glu Ser Tyr Cys Arg Ala Cys Gly Met Tyr
 Leu Lys His Leu Asn Arg Gln Val Glu Ala Met Glu Lys Leu Ile Asn Leu Thr Asp Ile
 Leu Lys Gln Glu Lys Lys Asp Glu Thr Gln Lys Val Gln Met Lys Phe Leu Val Glu Gln
 Met Arg Arg Pro Asp Phe Met Asp Ala Leu Gln Gly Phe Leu Ser Pro Leu Asn Pro Ala
 His Gln Leu Gly Asn Leu Arg Leu Glu Glu Cys Arg Ile Met Ser Ser Ala Lys Arg Pro
 Leu Trp Leu Asn Trp Glu Asn Pro Asp Ile Met Ser Glu Leu Leu Phe Gln Asn Asn Glu
 Ile Ile Phe Lys Asn Gly Asp Asp Leu Arg Gln Asp Met Leu Thr Leu Gln Ile Ile Arg
 Ile Met Glu Asn Ile Trp Gln Asn Gln Gly Leu Asp Leu Arg Met Leu Pro Tyr Gly Cys
 Leu Ser Ile Gly Asp Cys Val Gly Leu Ile Glu Val Val Arg Asn Ser His Thr Ile Met
 Gln Ile Gln Cys Lys Gly Gly Leu Lys Gly Ala Leu Gln Phe Asn Ser His Thr Leu His
 Gln Trp Leu Lys Asp Lys Asn Lys Gly Glu Ile Tyr Asp Ala Ala Ile Asp Leu Phe Thr
 Arg Ser

Cys Ala Gly Tyr Cys Val Ala Thr Phe Ile Leu Gly Ile Gly Asp Arg His Asn
 Ser Asn
 Ile Met Val Lys Asp Asp Gly Gln Leu Phe His Ile Asp Phe Gly His Phe Leu
 Asp His
 Lys Lys Lys Lys Phe Gly Tyr Lys Arg Glu Arg Val Pro Phe Val Leu Thr Gln
 Asp Phe
 Leu Ile Val Ile Ser Lys Gly Ala Gln Glu Cys Thr Lys Thr Arg Glu Phe Glu
 Arg Phe
 Gln Glu Met Cys Tyr Lys Ala Tyr Leu Ala Ile Arg Gln His Ala Asn Leu Phe
 Ile Asn
 Leu Phe Ser Met Met Leu Gly Ser Gly Met Pro Glu Leu Gln Ser Phe Asp Asp
 Ile Ala
 Tyr Ile Arg Lys Thr Leu Ala Leu Asp Lys Thr Glu Gln Glu Ala Leu Glu Tyr
 Phe Met
 Lys Gln Met Asn Asp Ala His His Gly Gly Trp Thr Thr Lys Met Asp Trp Ile
 Phe His
 Thr Ile Lys Gln His Ala Leu Asn *