

NSP3

GENETIC INFORMATION WAS DOWNLOADED FROM THE NCBI REFERENCE SEQUENCE

Gene

```
2720                               g caccaacaaa ggttactttt ggtgatgaca ctgtgataga
2761 agtgcaaggt tacaagagtg tgaatatcac ttttgaactt gatgaaagga ttgataaagt
2821 acttaaatgag aagtgctctg cctatacagt tgaactcggg acagaagtaa atgagttcgc
2881 ctgtgttggtg gcagatgctg tcataaaaaac tttgcaacca gtatctgaat tacttacacc
2941 actgggcatt  gatttagatg agtggagtat ggctacatac tacttatttg atgagtctgg
3001 tgagtttaaa  ttggcttcac atatgtattg ttctttctac cctccagatg aggatgaaga
3061 agaaggtgat  tgtgaagaag aagagtttga gccatcaact caatatgagt atgggtactga
3121 agatgattac  caaggtaaac ctttggaatt tggtgccact tctgctgctc ttcaacctga
3181 agaagagcaa  gaagaagatt ggtagatga  tgatagtcaa caaactgttg gtcaacaaga
3241 cggcagtgag  gacaatcaga caactactat tcaaacaatt gttgaggttc aacctcaatt
3301 agagatggaa  cttacaccag ttgttcagac tattgaagtg aatagtttta gtggttattt
3361 aaaacttact  gacaatgtat acattaaaaa tgcagacatt gtggaagaag ctaaaaaggt
3421 aaaaccaaca  gtggttgtta atgcagccaa tgtttacctt aaacatggag gaggtgttgc
3481 aggagcctta  aataaggcta ctaacaatgc catgcaagtt gaatctgatg attacatagc
3541 tactaatgga  ccacttaaag tgggtggtag ttgtgtttta agcggacaca atcttgctaa
3601 aactgtctt  catgtttgct gcccaaatgt taacaaaggt gaagacattc aacttcttaa
3661 gagtgcctt  gaaaatttta atcagcacga agtttactt  gcaccattat tatcagctgg
3721 ttttttggt  gctgacccta tacattcttt aagagtttgt gtagatactg ttcgcacaaa
3781 tgttacttta  gctgtctttg ataaaaatct ctatgacaaa cttgtttcaa gctttttgga
3841 aatgaagagt  gaaaagcaag ttgaacaaaa gatcgctgag attcctaaag aggaagttaa
3901 gccatttata  actgaaagta aaccttcagt tgaacagaga aaacaagatg ataagaaaat
3961 caagcttgt  gttgaagaag ttacaacaaa tctggaagaa actaagttcc tcacagaaaa
4021 cttgttactt  tatattgaca ttaatggcaa tcttcatcca gattctgcca ctcttgttag
4081 tgacattgac  atcactttct taaagaaaga tgctccatat atagtgggtg atgttgttca
4141 agagggtgtt  ttaactgctg tggttatacc tactaaaaag gctggtggca ctactgaaat
4201 gctagcgaaa  gctttgagaa aagtgccaac agacaattat ataaccactt acccggtca
4261 gggtttaaat  ggttacactg tagaggaggc aaagacagtg cttaaaaagt gtaaaagtgc
4321 cttttacatt  ctaccatcta ttatctctaa tgagaagcaa gaaattcttg gaactgtttc
4381 ttggaatttg  cgagaaatgc ttgcacatgc agaagaaaca cgcaaattaa tgcctgtctg
4441 tgtggaaact  aaagccatag tttcaactat acagcgtaaa tataagggta ttaaaatata
4501 agagggtgtg  gttgattatg gtgctagatt ttacttttac accagtaaaa caactgtagc
4561 gtcacttatac aacacactta acgatctaaa tgaaactctt gttacaatgc cacttggcta
4621 tgtaacacat  ggcttaaatt tggaagaagc tgctcggtat atgagatctc tcaaagtgcc
4681 agctacagtt  tctgtttctt cacctgatgc tgttacagcg tataatggtt atcttacttc
4741 ttcttctaaa  acacctgaag aacattttat tgaaaccatc tcacttgctg gttcctataa
4801 agattggtcc  tattctggac aatctacaca actaggtata gaatttctta agagaggtga
4861 taaaagtgta  tattacacta gtaatcctac cacattccac ctagatggtg aagttatcac
4921 ctttgacaat  cttaaagacac ttctttcttt gagagaagtg aggactatta aggtgtttac
4981 aacagtagac  aacattaacc tccacacgca agttgtggac atgtcaatga catatggaca
5041 acagtttggg  ccaacttatt tggatggagc tgatgttact aaaataaaac ctcataattc
5101 acatgaaggt  aaaacatttt atgttttacc taatgatgac actctacgtg ttgaggcttt
5161 tgagtactac  cacacaactg atcctagttt tctgggtagg tacatgtcag cattaatatca
5221 cactaaaaag  tggaaatacc cacaaagtaa tggtttaact tctattaat  gggcagataa
5281 caactgttat  cttgccactg cattgttaac actccaacaa atagagttga agtttaatcc
5341 acctgctcta  caagatgctt attacagagc aagggctggg gaagctgcta acttttgtgc
5401 acttatctta  gcctactgta ataagacagt aggtgagtta ggtgatgta  gagaacaat
5461 gagttacttg  tttcaacatg ccaattttaga ttcttgcaaa agagtcttga acgtgggtgtg
5521 taaaacttgt  ggacaacagc agacaaccct taaggggtga gaagctgta  tgtacatggg
```



5581 cacacttttct tatgaacaat ttaagaaagg tgttcagata ctttgtacgt gtggtaaaca
5641 agctacaaaa tatctagtag aacaggagtc accttttggt atgatgtcag caccacctgc
5701 tcagtatgaa cttaagcatg gtacatttac ttgtgctagt gagtacctg gtaattacca
5761 gtgtgggtcac tataaacata taacttctaa agaaactttg tattgcatag acgggtgcttt
5821 acttacaaaag tcctcagaat acaaagggtcc tattacggat gttttctaca aagaaaacag
5881 ttacacaaca accataaaac cagttactta taaattggat ggtggtggtt gtacagaaat
5941 tgaccctaag ttggacaatt attataagaa agacaattct tatttcacag agcaaccaat
6001 tgatcttgta ccaaaccaac catatccaaa cgcaagcttc gataatttta agtttgtagt
6061 tgataaatatc aaatttgctg atgattttaa ccagttaact ggttataaga aacctgcttc
6121 aagagagctt aaagttacat ttttccctga cttaaattgg gatgtgggtg ctattgatta
6181 taaacactac acaccctctt ttaagaaagg agctaaattg ttacataaac ctattgtttg
6241 gcatgttaac aatgcaacta ataaagccac gtataaacca aatacctggt gtatacgttg
6301 tccttgaggc acaaaccag ttgaaacatc aaattcgttt gatgtactga agtcagagga
6361 cgcgcaggga atggataatc ttgcctgcga agatctaaaa ccagtctctg aagaagtagt
6421 ggaaaatcct accatacaga aagacgttct tgagtgtaat gtgaaaacta ccgaagtgtg
6481 aggagacatt atacttaaac cagcaaataa tagtttaaaa attacagaag aggttgcca
6541 cacagatcta atggctgctt atgtagacaa ttctagtctt actattaaga aacctaataga
6601 attatctaga gtattaggtt tgaaaaccct tgctactcat ggttttagctg ctgttaatag
6661 tgtcccttgg gatactatag ctaattatgc taagcctttt cttacaaaag ttgttagtac
6721 aactactaac atagttacac ggtgtttaa ccgtgtttgt actaattata tgccttattt
6781 ctttacttta ttgctacaat tgtgtacttt tactagaagt acaaattcta gaattaaagc
6841 atctatgccg actactatag caaagaatac tgtaaagagt gtcggtaaat tttgtctaga
6901 ggcttcattt aattatttga agtcaccta tttttctaaa ctgataaata ttataatttg
6961 gtttttacta ttaagtgttt gcctaggttc tttaatctac tcaaccgctg ctttaggtgt
7021 tttaatgtct aatttaggca tgccttctta ctgtactggt tacagagaag gctatttgaa
7081 ctctactaat gtcactattg caacctactg tactggttct ataccttgta gtgtttgtct
7141 tagtgggtta gattcttttag acacctatcc ttcttttagaa actatacaaa ttaccatttc
7201 atctttttaa tgggatttaa ctgcttttgg cttagttgca gagtgggttt tggcatatat
7261 tcttttctact aggtttttct atgtacttgg attggctgca atcatgcaat tgtttttcag
7321 ctattttgca gtacatttta tttagtaattc ttggcttatg tgggttaataa ttaattttgt
7381 acaaattggcc ccgatttcag ctatggttag aatgtacatc ttctttgcat cttttatta
7441 tgtatggaaa agttatgtgc atgtttgtaga cggttgtaat tcatcaactt gtatgatgtg
7501 ttacaaaacgt aatagagcaa caagagtcga atgtacaact attgttaatg gtgttagaag
7561 gtccttttat gtctatgcta atggaggtaa aggccttttgc aaactacaca attggaattg
7621 tgttaattgt gatacattct gtgctggtag tacatttatt agtgatgaag ttgagagaga
7681 cttgtcacta cagtttaaaa gaccaataaa tctactgac cagtcttctt acatcgttga
7741 tagtgttaca gtgaagaatg gttccatcca tctttacttt gataaagctg gtcaaaagac
7801 ttatgaaaga cattctctct ctcattttgt taacttagac aacctgagag ctaataacac
7861 taaagggttca ttgcctatta atgttatagt ttttgatggt aatcaaaaat gtgaagaatc
7921 atctgcaaaa tcagcgtctg tttactacag tcagcttatg tgtcaaccta tactgttact
7981 agatcaggca ttagtgtctg atgttgggtga tagtgcgaa gttgcagtta aaatgtttga
8041 tgcttacggt aatacgtttt catcaacttt taacgtacca atggaaaaac tcaaaacact
8101 agttgcaact gcagaagctg aacttgcaaa gaatgtgtcc ttagacaatg tcttatctac
8161 ttttatttca gcagctcggc aagggtttgt tgattcagat gtagaaacta aagatgttgt
8221 tgaatgtctt aaattgtcac atcaatctga catagaagtt actggcgata gttgtaataa
8281 ctatatgctc acctataaca aagttgaaaa catgacaccc cgtgaccttg gtgcttgtat
8341 tgactgtagt gcgcgtcata ttaatgcgca ggtagcaaaa agtcacaaca ttgctttgat
8401 atggaacggt aaagatttca tgtcattgtc tgaacaacta cgaaaacaaa tacgtagtgc
8461 tgctaaaaag aataacttac cttttaagtt gacatgtgca actactagac aagttgttaa
8521 tgttgtaaca acaaagatag cacttaaggg tggg

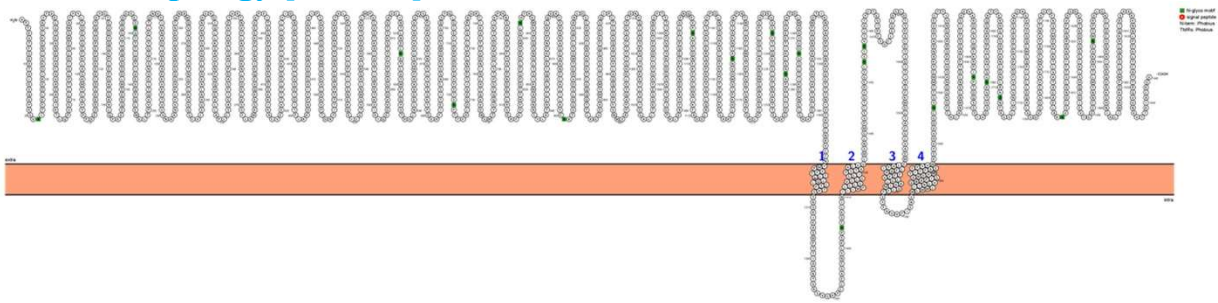


Protein (YP_009725299.1)

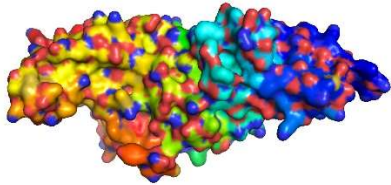
APTKVTFGDDTVIEVQGYKSVNITFELDERIDKVLNEKCSAYTVELGTEVNEFACVVADAVIKTLQPVS
ELLTPLGIDLDEWSMATYYLFDSEGEFKLASHMYCSFYPPDEDEEEGDCEEEEFEPSTQYEYGTEDD
YQGKPLEFGATSAALQPEEEQEEDWLDDDSQQTVGQQDGSSEDNQTTTIQTIVEVQPQLEMELTPVV
QTIEVNSFSGYLKLTDNVYIKNADIVEEAKKVKPTVVVNAANVYLKHGGGVAGALNKATNNAMQVES
DDYIATNGPLKVGGSVLSGHNLAHCLHVVGNPNVNGEDIQLLKSAYENFNQHEVLLAPLLSAGIFG
ADPIHSLRVCVDTVRTNVYLAVFDKNLYDKLVSSFLEMKSEKQVEQKIAEIPKEEVKPFITESKPSVEQ
RKQDDKKIKACVEEVTTTLEETKFLTENLLLYIDINGNLHPDSATLVSDIDITFLKKDAPYIVGDVVQEGV
LTAVVIPTKKAGGTTEMLAKALRKVPTDNYITTYPGQGLNGYTVVEEAKTVLKKCKSAFYILPSIISNEKQ
EILGTVSWNLREMLAHAEETRKLMPVCVETKAIVSTIQRKYKGIKIQEGVVDYGARFYFYTSKTTVASL
INTLNDLNETLVTMPLGYVTHGLNLEEAARYMRSKVPATVSVSSPDAVTAYNGYLTSSSKTPEEHFI
ETISLAGSYKDWSYSGQSTQLGIEFLKRGDKSVYYTSNPTTFHLDGEVITFDNLKTLTSLREVRTIKVF
TTVDNINLHTQVVDMSMTYGQQFGPTYLDGADVTKIKPHNSHEGKTFYVLPNDDTLRVEAFEYYHTT
DPSFLGRYMSALNHTKKWKYPQVNGLTSIKWADNNCYLATALLTLQQIELKFNPPALQDAYRARAG
EAANFCALILAYCNKTVGELGDVRETMSYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYM
GTLSYEQFKKGVQIPCTCGKQATKYLQQESPVMMSAPPAQYELKHGTFTCASEYTGNYQCGHYK
HITSKETLYCIDGALLTKSSEYKGPITDVFYKENSYTTTTIKPVTYKLDGVVCTEIDPKLDNYYKKDNSYF
TEQPIDLVPNQPYPNASFDNFKFCVCDNIKFADDLNQLTGYKKPASRELKVTFPPDLNNGDVVAIDYKHY
TPSFKKGAKLLHKPIVWHVNNATNKATYKPNTWCIRCLWSTKPVETSNSFDVLKSEDAQGMDNLAC
EDLKPVSEEVVENPTIQKDVLECNVKTTEVVGDIIKLPANNSLKITEEVGHTDLMAAYVDNSSLTIKKPN
ELSRVLGLKTLATHGLAAVNSVPWDTIANYAKPFLNKVVSTTTNIVTRCLNRVCTNYMPYFFTLQLC
TFTRSTNSRIKASMPPTIAKNTVKSVMKFCLEASFNYLKSPNFSKLINIIWFLLLSVCLGSLIYSTAALGV
LMSNLGMPSYCTGYREGYLNSTNVTIATYCTGSIPCSVCLSGLDSDTYPSELETIQITISSFKWDLTAF
GLVAEWFLAYILFTRFFYVLGLAAIMQLFFSYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIFFASFY
YVWKSYPVHVVDGCNSSTCMMCYKRNRRATRVECTTIVNGVRRSFYVYANGGKGFCKLHNWNCVNC
DTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFDKAGQKTYERHLSHFVNL
DNLRANNTKGSPLINVIVFDGKSKCEESSAKSASVYYSQLMCQPILLLDQALVSDVGDSADEVAVKMF
AYVNTFSSTFNVPMEKLTVAEAEELAKNVSLDNVLSFISAARQGFVSDVETKDVVECKLKLKSHQ
SDIEVTGDSCNNYMLTYNKVENMTPRDLGACIDCSARHINAQVAKSHNIALIWNVVKDFMSLSEQLRK
QIRSAKKNLPLFKLTCATTRQVVNVVTTKIALKGG



Protein Topology [Protter]



Protein Structure [Surface]



Protein Structure [Ribbon]

