

Product datasheet for RC209472

PRPF8 (NM_006445) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRPF8 (NM_006445) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PRPF8
Synonyms: HPRP8; PRP8; PRPC8; RP13; SNRNP220
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC209472 representing NM_006445
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAGTGTTCCTTATCGAGGGCCGGTAACCCGGTGCCTGGCCCTCTAGCCCCGCTACCGGACT
ACATGTCCGAGGAGAAGCTGCAGGAGAAAGCTCGAAAATGGCAGCAATTGCAGGCCAAGCGCTATGCAGA
AAAGCGAAGTTTGGGTTTGTGGATGCCAGAAGGAAGACATGCCCCAGAACATGTCAGGAAGATCATT
CGAGACCATGGAGACATGACCAACAGGAAGTTCGCCATGACAAAAGGGTTTACTTGGGTGCCCTAAAGT
ACATGCCCCACGCAGTCCTCAAACCTCCTGGAGAACATGCCTATGCCTGGGAGCAGATTCGGGATGTGCC
TGTGCTGTACCACATCACTGGAGCCATTTCTTCGTCAATGAGATTCCCTGGGTCAATTGAACCTGTCTAC
ATCTCCAGTGGGGTCAATGTGGATTATGATGCGCCGAGAAAAAGAGATAGGAGGCATTTCAAGAGGA
TGCGTTTTCCCTTTTGTGATGATGAGGAGCCGCCCTTGGACTATGCTGACAACATCCTAGATGTTGAGCC
ACTGGAGGCCATTCAGCTAGAGCTGGACCCTGAGGAGGACGCCCTGTGTGGACTGGTTCTATGACCAC
CAGCCGTTGAGGGACAGCAGGAAGTATGTAATGGCTCCACTTACCAGCGCTGGCAGTTCACACTACCTA
TGATGTCGACTCTTACCCTGGCTAATCAGCTCCTGACAGACTTGGTGGATGACAACACTTTCTACCT
GTTTGATTTGAAGGCCTTTTACGTCCAAGGCACTCAATATGGCCATTCTGGAGGCCCAAAATTTGAA
CCTCTTGTTCGAGACATCAACCTACAGGATGAAGACTGGAATGAATTCAATGATATTAACAAGATTATCA
TCCGGCAGCCTATCCGCACTGAGTACAAGATTGCTTTTCTTACTTGTACAACAATCTTCCACACCATGT
CCACCTCACCTGGTACCATACTCCCAATGTTGTATTCAAAAAGTGGAGTCTGACTTCCAGCTTTT
TACTTTGACCCTTTGATCAACCAATCTCCATAGGCACTCAGTCAAGAGCCAGGAACATTGCCGGATG
ATGATGAGGAATTTGAGCTCCCGAGTTTGTGGAGCCCTCTGAAGGACACACCCTCTATACAGACAA
TACAGCCAATGGCATTGCCCTGCTTGGCCCCGCGCCCTTCAACCTACGCTCTGGTGCACCCGTCGG
GCCCTGGACATACCCCTTGTCAAGAAGTGTATCGGGAGCATTGTCTGCCGGGAGCCTGTGAAAGTGA
GGGTCTCCTACCAGAAGCTGCTTAAGTACTATGTGCTGAATGCCCTGAAGCATCGCCCCCTAAGGCTCA
AAAGAAGAGGTATTTGTTCCGCTCCTTCAAGCCACCAAAATCTTTCAGTCCACAAGCTGGACTGGGTG
GAGGTTGGGCTCCAGTTTCCGCCAGGGCTACAACATGCTCAACCTTCTCATTACCGCAAAAACCTCA



ACTACCTGCACCTGGACTACAACCTCAAGCCTGTGAAAACGCTCACCACCAAGGAAAGAAAGAA
 ATCTCGTTTTGGGAATGCTTCCACCTGTGTCGGGAAGTTCTGCGTTTACTAAGCTGGTGGTGGATAGT
 CACGTGCAGTATCGGCTGGGCAATGTGGATGCCTCCAGCTGGCAGATGGATTGCAGTATATATTGGCC
 ATGTTGGGCAGTTGACGGGCATGTATCGATACAAATACAAGCTGATGCGACAGATTCGCATGTGCAAGGA
 CCTGAAGCATCTCATCTATTATCGTTTCAACACGGGCCCTGTAGGGAAGGGTCTGGCTGTGGCTTCTGG
 GCTGCCGGTTGGCGAGTCTGGCTCTTTTTCATCGTGGCATTACCCCTTTATTAGAGCGATGGCTGGCA
 ACCTCCTGGCCCCGAGTTTGAAGGTGCACACTCAAAGGGGGTGGCAAAGACAGTAAACAAAGCAGCGAGT
 GGAGTACATTTTGACCTTGAGCTGCGGGCAGCTGTGATGCATGATATTCTGGACATGATGCCTGAGGGG
 ATCAAGCAGAACAAGGCCCGGACAATCCTGCAGCACCTCAGTGAAGCCTGGCGCTGCTGAAAGCCAACA
 TTCCCTGGAAGGTCCCTGGGCTGCCGACGCCATAGAGAATATGATCCTTCGATACGTGAAGGCCAAGGC
 TGACTGGTGGACCAACTGCCACTACAACCGAGAACGGATCCGCCGAGGGGCCACTGTGGACAAGACT
 GTTTGTAAAAAGAATCTGGGCCCTCACCCGGCTCTATCTGAAGGCAGAACAGGAGCGGCAGCACAAC
 ACCTGAAGGACGGGCCTTACATCACAGCGGAGGAAGCAGTGGCAGTATATACCACCACAGTGCATTGGTT
 GAAAGCCGAGGTTTTACCCATCCCATTCCCCCACTCTCCTATAAGCATGACACCAAGTTGCTCATC
 TTGGCATTGGAGCGGCTCAAGGAAGCTTATAGTGTGAAGTCTCGTTGAACCAGTCTCAGAGGGAGGAGC
 TAGGTCTGATCGAGCAGGCTACGATAACCCCCAGAGGCGCTGTCCCGCATCAAGCGTCACTCCTCAC
 ACAGAGAGCCTTCAAAGAGGTGGGCATTGAGTTCATGGATCTGTATAGCCACCTCGTTCCAGTATATGAT
 GTTGAGCCCTGGAGAAGATAACTGATGCTTACCTGGACCAGTACCTGTGGTATGAAGCCGACAAGCGCC
 GCCTGTTCCACCTGGATTAAGCCTGCAGACACAGAACCACCTCCGCTGCTTGTACAAGTGGTGTCA
 AGGCATCAATAACCTGCAGGACGTGTGGGAGACGAGTGAAGGCGAGTGAATGTCATGCTGGAATCCCGC
 TTTGAGAAGATGTATGAGAAGATCGACTTGACTCTGCTCAACAGGCTGCTGCGCCTCATCGTGGACCACA
 ACATAGCCGACTACATGACAGCCAAGAACAACGTCGTCACTAATAAGGACATGAACCATACGAATTC
 ATATGGGATCATCAGAGCCTGCAGTGTTCCTCATTTCATCGTGCAGTATTATGGCCTGGTATGGATTTG
 CTTGTATTGGGATTGCACCGGGCCAGTGAAGTGGCTGGGCCCCCTCAGATGCCAAATGACTTCTCAGTT
 TCCAGGACATAGCCACTGAGGCTGCCACCCCATCCGTCTCTTCTGCAGATACATTGATCGCATCCATAT
 TTTTTTTCAGTTTACAGCAGATGAGGCTCGGGACCTGATTCAACGTTACCTGACAGAGCACCCCTGACCCC
 AATAATGAAAACATCGTTGGCTATAATAACAAGAAGTGTGGCCCGAGATGCCCGCATGCGCCTCATGA
 AACATGATGTTAACTTAGGCCGGGCGGTATTCTGGGACATCAAGAACCGTTGCCACGGTCAAGTACTAC
 AGTTCAAGTGGGAGAACAGCTTCGTGTCTGTGTACAGTAAGGACAACCCCAACCTGCTGTTCAACATGTGT
 GGCTTCGAGTGCCGCATCCTGCCTAAGTCCCGCACCAGCTATGAGGAGTTCACCCACAAGGACGGGGTCT
 GGAACCTGCAGAATGAGGTTACTAAGGAGCGCACAGCTCAGTGTTCCTGCGTGTGGACGATGAGTCAAT
 GCAGCGCTCCACAACCGCGTGCCTCAGATTCTCATGGCCTCTGGGTCCACCACCTTACCAAGATTGTG
 AATAAGTGAATACAGCTCTCATTGGCCTTATGACATACTTTCGGGAGGCTGTGGTGAACACCCAAGAGC
 TCTTGGACTTACTGGTGAAGTGTGAGAACAAAATCCAGACACGTATCAAGATTGGACTCAACTCCAAGAT
 GCCAAGTCGGTTCACCCCGGTTGTGTTCTACCCCTAAGGAGTTGGGTGGACTCGGCATGCTCTCAATG
 GGCCATGTGCTCATCCCCAATCCGACCTCAGGTGGTCCAACAGACAGATGTAGGTATCACACACTTTC
 GTTCAGGAATGAGCCATGAAGAAGACCAGCTATTCCCACTGTACCGTACATACAGCCATGGGAGAG
 CGAGTTCATTGATTCTCAGCGGGTCTGGGCTGAGTACGCACTCAAGAGGCAAGAGGCCATTGCTCAGAAG
 AGACCGCTGACTTTAGAAGACCTAGAAGATTTCATGGGATCGTGGCATTCTCGAATCAATACCCCTTCC
 AGAAGGACCGGCACACACTGGCTTATGATAAGGGCTGGCGTGCAGAACTGACTTTAAGCAGTATCAGGT
 TTTGAAGCAGAATCCGTTCTGGTGGACACACCAGCGCATGATGGGAAGCTCTGGAACCTGAACACTAC
 CGTACAGACATGATCCAGGCCCTGGGCGGTGTGGAAGGCATTCTGGAACACACACTCTTTAAGGGCACTT
 ACTTCCCTACCTGGGAGGGGCTTTTCTGGGAGAAGGCCAGTGGCTTTGAGGAATCTATGAAGTGAAGAA
 GCTAACTAATGCTCAGCGATCAGGACTGAACCAGATTCCCAATCGTAGATTACCCTCTGGTGGTCCCCG
 ACCATTAATCGAGCCAATGTATATGTAGGCTTTCAGGTGCAGCTAGACCTGACGGGTATCTTCATGCACG
 GCAAGATCCCCACGCTGAAGATCTCTCATCCAGATCTCCGAGCTCACTTGTGGCAGAAGATCCATGA
 GAGCATTGTTATGGACTTATGTCAGGTGTTTGACCAGGAACCTTGATGCACTGGAAATTGAGACAGTACAA
 AAGGAGACAATCCATCCCCGAAAGTCATATAAGATGAACCTTCTCCTGTGCAGATATCCTGCTCTTTGCC
 CCTATAAGTGAATGTCTCCCGGCCCTCATTGCTGGCTGACTCCAAGGATGTGATGGACAGCACCACCAC
 CCAGAAATACTGGATTGACATCCAGTTGCGCTGGGGGACTATGATTCACACGACATTGAGCGCTACGCC
 CGGGCCAAGTTCTCTGGACTACACCACCGACAACATGAGTATCTACCCTTCGCCACAGGTGTACTCATCG
 CCATTGACCTGGCCTATAACTTGCACAGTGCCTATGAAACTGGTTCACAGCAGCAAGCCTCTCATACA

ACAGGCCATGGCCAAGATCATGAAGGCAAACCCTGCCCTGTATGTGTACGTGAACGGATCCGCAAGGGG
CTACAGCTCTATTCATCTGAACCCACTGAGCCTTATTTGTCTTCTCAGAAGTATGGTGAGCTCTTCTCCA
ACCAGATTATCTGGTTTGTGGATGACACCAACGTCTACAGAGTACTATTCACAAGACCTTTGAAGGGAA
CTTGACAACCAAGCCCATCAACGGAGCCATCTTCATCTTCAACCCACGCACAGGGCAGCTGTTCTCAAG
ATAATCCACACGTCCGTGTGGCGGGACAGAAGCGTTTGGGGCAGTTGGCTAAGTGAAGACAGCTGAGG
AGGTGGCCGCCCTGATCCGATCTCTGCCGTGGAGGAGCAGCCCAAGCAGATCATTGTACCAGGAAGGG
CATGCTGGACCCACTGGAGGTGCATTTACTGGACTTCCCAATATTGTCATCAAAGGCATCGGAGCTCCAA
CTCCCTTTCCAGGCGTGTCTCAAGGTGGAAAAATTCGGGGATCTCATCCTTAAAGCCAAGTACAGCCCA
TGGTTCTCTTCAACCTCTATGACGACTGGCTCAAGACTATTTTCATCTTACACGGCCTTCTCCCGTCTCAT
CCTGATTCTGCGTGCCCTACATGTGAACAACGATCGGGCAAAAAGTATCCTGAAGCCAGACAAGACTACT
ATTACAGAACCACACCACATCTGGCCCACTCTGACTGACGAAGAATGGATCAAGGTCGAGGTGCAGCTCA
AGGATCTGATCTTGGCTGACTACGGCAAGAAAAACAATGTGAACGTGGCATCACTGACACAATCAGAAAT
TCGAGACATCATCTGGGTATGGAGATCTCGGCACCGTCACAGCAGCGGCAGCAGATCGTGAGATCGAG
AAGCAGACCAAGGAACAATCGCAGCTGACGGCAACACAGACTCGCACTGTCAACAAGCATGGCGATGAGA
TCATCACCTCCACCACCAGCAACTATGAGACCCAGACTTCTCATCCAAGACTGAGTGGAGGGTCAGGGC
CATCTCTGCTGCCAACCTGCACCTAAGGACCAATCACATCTATGTTTCATCTGACGACATCAAGGAGACT
GGCTACACCTACATCCTTCCCAAGAATGTGCTTAAAGTTCATCTGCATATCTGACCTTCCGGGCCAAA
TTGAGGATACCTATATGGGGTGAAGCCACCAGATAACCCCAAGGTGAAGGAGATCCGCTGCATTGTGAT
GGTGCCGAGTGGGGCACTCACCAGACCGTGCACCTGCCTGGCCAGCTGCCCCAGCATGAGTACCTCAAG
GAGATGGAACCCCTTAGGTTGGATCCACACTCAGCCCAATGAGTCCCCGAGTTATCACCCAGGATGTCA
CCACCATGCCAAGATCATGGCTGACAACCCATCTTGGGATGGCGAGAAGACCATTATCATCACATGCAG
CTTCACGCCAGGCTCCTGTACACTGACGGCCTACAAGCTGACCCCAAGTGGCTACGAATGGGGCCGCGAG
AACACAGACAAGGGCAACAACCCCAAGGGCTACCTGCCTCACACTATGAGAGGGTGCAGATGCTGCTGT
CGGACCGTTTCCCTGGCTTCTTCATGGTCCTGCCAGTCTCGTGGAACTACAACCTTCATGGGTGTTTCG
GCATGACCCCAACATGAAATATGAGCTACAGCTGGCGAACCCCAAGAGTTCTACCACGAGGTGCACAGG
CCCTCTCACTTCTCAACTTTGCTCTCCTGCAGGAGGGGAGGTTTACTCTGCGGATCGGGAGGACCTGT
ATGCC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209472 representing NM_006445
 Red=Cloning site Green=Tags(s)

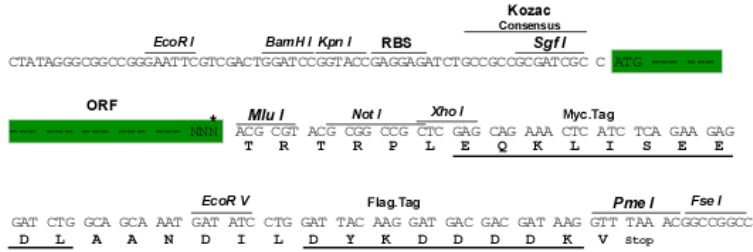
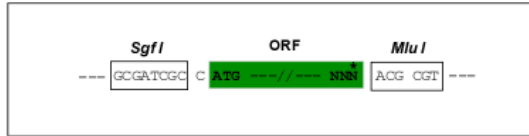
MAGVFPYRGPNGPVPGLAPLPDYMSEEKLEKARKWQQLQAKRYAEKRKFGFVDAQKEDMPPEHVRKII
 RDHGDMTNRKFRHDKRVYL GALKYMPHAVLKLLENMMPWEQIRDVPVLYHITGAI SFVNEIPWVIEPVY
 ISQWGSMMIMMRREKRDRRHFKRMRFPFDDEEPPLDYADNILDVEPLEAIQLELDPEEDAPVLDWFYDH
 QPLRDSRKYVNGSTYQRWQFTLPMSTLYRLANQLLTDLVDDNYFYFLDLKAFFTSKALNMAIPGGPKFE
 PLVRDINLQDEDWNEFNDINKIIIRQPIRTEYKIAFPYLYNNLPHHVHLTWYHTPNVVFIKTEDPDLPAF
 YFDPLINPI SHRHSVKSQEPLPDDDEEFELPEFVEPFLKDTPLYDNTANGIALWAPRPFNLRSRGRTRR
 ALDIPLVKNWYREHCPAGQPVKVRVSYQKLLKYVYLNALKHRPPKAQKKRYLFRSFKATKFFQSTKLDWV
 EVGLQVCRQGYNMLNLLIHRKNLNYLHLDYNFLKPKVKTLLTKERKSRFGNAFHL CREVLRRLTKLVVDS
 HVQYRLGNVDAFQLADGLQYIFAHVGLTGMRYKYKLMRQIRMCKDLKHLIYYRNTGPVKGPGCGFW
 AAGWRVWVFFMRGITPLLERWLNLLARQFEGRHSKGVAKTVTKQRVESHFDLELRAAVMHDILDMPEG
 IKQNKARTILQHLSEAWRCWKANIPWKVPLPTPIENMILRYVKAKADWWTNTAHYNRERIRRGATVDKT
 VCKKNLGRLLRLYLKAEQERQHNYLKDGPYITAEAVAVYTTTWHWLESRRFSPIFPPLSYKHDTKLLI
 LALERLKEAYSVKSRNLNQSREELGLIEQAYDNPHEALSRIKRHLLTQRAFKEVGFEMDLYSHLVPVYD
 VEPLEKITDAYLDQYLWYEADKRRLLFPWIKPADTEPPPLL VYKWCQGINNLQDVWETSEGENVMLESR
 FEKMYEKIDLTLNRLRLIVDHNIAADYMTAKNNVINYKDMNHTNSYGIIRGLQFASFIVQYVGLVMDL
 LVLGLHRASEMAGPPQMPNDFLSFQDIATEAAHPIRLFCRYIDRIHIFFRFTADEARDLIQRYL TEHPDP
 NNENIVGYNNKCKWRDARMRLMKHDVNLGRAVFDIKNRLPRSVTTVQWENSFVSVYSKDNPNLLFNM
 GFECRILPKCRTSYEEFTHKDGWVNLQNEVTKERTAQCFLRVDDDESMQRFHNRVRQILMASGSTTFKIV
 NKWNTALIGLMTYFREAVVNTQELLDLLVKCENKIQTRIKIGLNSKMPSRFPVVFYTPKELGGLGMLSM
 GHVLI PQSDLRWSKQTDVGI THFRSGMSHEEDQLIPNL YRYIQPWESEFIDSQRVWAEYALKRQEAIAQN
 RRLTLEDLEDSDRGIPRINTL FQKDRHTLAYDKGWRVRTDFKQYQVLKQNPFWWTHQRHDGKLVNLLNY
 RTDMIQALGGVEGILEHTL FKGTYFPTWEGLFWEKASGFEE SMKWKLTNAQRSGLNQIPNRRFTLWVSP
 TINRANVYVGFQVQLDLTGIFMHGKIPTLKI SLIQIFRAHLWQKIHESI VMDLCQVFDQELDALEIETVQ
 KETIHRKSYKMNSSCADILLFASYKWNVSRPSSLADSKDVMSTTTQKYWIDIQLRWGDYSDHDIERYA
 RAKFLDYTTDNMSIYPSPTGVLIAIDLAYNLHSAYGNWFPGSKPLIQQAMAKIMKANPALYVLRERIRKG
 LQLYSSEPTPEYLSNQYIWFVDDTNVYRVTIHKTFEGLN TTKPINGAIFIFNPRTGQLFLK
 I IHTSVWAGQKRLGQLAKWKTAEVAALIRSLPVEEQPKQIIVTRKGM LDPLEVHLLDFPNIVIKGSELQ
 LPFQAACKVEKFGDLILKATEPQMVLFNLYDDWLKTISSYAFSRLILILRALHVNNDRAKVILKPKDKT
 ITEPHHIWPTLTDEEWIKVEVQLKDLILADYGKKNVNVASLTQSEIRDII LGMEISAPSQRQQAIEIE
 KQTKEQSQTATQTRTVNKHGDEIITSTTSNYETQTFSSKTEWRVRAISAANLHLRTNHIYVSSDDIKET
 GYTYILPKNVLKKFICISDLRAQIAGLYYGVSPDPNPQVKEIRCI VMVPQWGTHTVHLPGQLPQHEYLK
 EMEPLGWIHTQPNE SPQLSPQDVTTAKIMADNPSWDGEKTIITCSFTPGSCTL TAYKLTPSGYEWGRQ
 NTDKGNPKGYLPSHYERVQMLLSDRFLGFFMVPQAQSSWNYNFMGVRHDPNMKYELQLANPKFEYHEVHR
 PSHFLNFALLQEGEVYSADREDLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

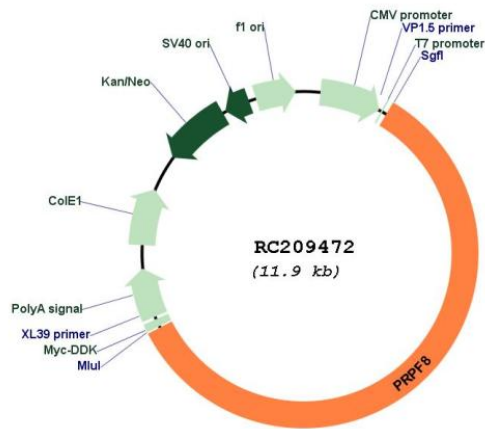
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_006445

ORF Size: 7005 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

| | |
|-------------------------------|---|
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | NM_006445.4 |
| RefSeq Size: | 7311 bp |
| RefSeq ORF: | 7008 bp |
| Locus ID: | 10594 |
| UniProt ID: | Q6P2Q9 |
| Cytogenetics: | 17p13.3 |
| Domains: | JAB_MPN |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Spliceosome |
| MW: | 273.4 kDa |
| Gene Summary: | <p>Pre-mRNA splicing occurs in 2 sequential transesterification steps. The protein encoded by this gene is a component of both U2- and U12-dependent spliceosomes, and found to be essential for the catalytic step II in pre-mRNA splicing process. It contains several WD repeats, which function in protein-protein interactions. This protein has a sequence similarity to yeast Prp8 protein. This gene is a candidate gene for autosomal dominant retinitis pigmentosa. [provided by RefSeq, Jul 2008]</p> |