

Product datasheet for RC201556

PRP18 homolog (PRPF18) (NM_003675) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRP18 homolog (PRPF18) (NM_003675) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRP18 homolog
Synonyms:	hPrp18; PRP18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201556 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATTCTGAAATCAGAGATCCTTCGGAAGCGGCAGCTGGTGGAGGACAGGAACCTGCTGGTGGAAA
ATAAAAAATATTTCAAGCGTAGTGAGCTCGCCAAAAAGAAGAGGAAGCATATTTTGAAAGATGTGGCTA
CAAGATACAGCCAAAAGAGGAGGACCAGAAACCATTAAC TTCATCGAATCCAGTGTAGAACTTGAAGT
GCAGAGGAAAAATTACCTATGACGCTTCTAGGCAAGAGGTCATCAGAAGATTGAGAGAAAGAGGAGAAC
CAATCAGACTATTTGGAGAGACTGATTATGATGCTTTTCAACGTTAAGGAAAATAGAGATCCTCACACC
AGAAGTTAACAAGGATTGAGGAATGATTTGAAAGCAGCCTTGGATAAGATTGATCAGCAGTACCTCAAT
GAAATCGTCGGCGGTGAGGAGCCTGGAGAGGAAGACACAGAATGATCTGAAAGTTCATGAGGAAAACA
CCACAATTGAAGAGTTAGAGGCGCTTGGAGAGTCTTAGGGAAAGGCGATGATCATAAGGACATGGACAT
CATCACCAAATTCCTGAAGTTTCTTCTGGCGTTGGGCTAAAGAATTGAATGCCAGAGAAGATTATGTG
AAACGCAGTGTGCAGGGTAAACTGAACAGTGCACCCAGAAACAGACCGAGTCTACCTAAGACCACTTT
TTAGAAAGCTACGAAAAGGAATCTTCTGCTGATATTAAGAATCAATAACGGATATTATTAATTCAT
GTTGCAGAGAGAATACGTGAAGGCAAATGATGCTTATCTTCAGATGGCCATTGGAATGCGCCTTGCC
ATCGGTGTCATATGTTGGTATCCATGCCAGAAGTGGCAGAGAAAAGATTTTTTCAAGCATGTTGCAC
ATGTTTTAAATGACGAACTCAGCGGAAATATATTCAGGGATTGAAGAGGTTAATGACCATTTGCCAGAA
ACACTTTCCTACAGACCCATCCAATGTGTGGAGTACAATGCACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201556 protein sequence
 Red=Cloning site Green=Tags(s)

MDILKSEILRKRQLVEDRNLLVENKKYFKRSELAKEEEAYFERCGYKIQPKEEDQKPLTSSNPVLELEL
 AEEKLPMTLSRQEVIRRLRERGEPIRLFGETDYDAFQRLRKIEILTPEVNKGLRNDLKAALDKIDQQYLN
 EIVGGQEPGEEDTQNDLKVHEENTTIEELEALGESLKGDDHKMDIITKFLKFLGJVAKELNAREDYV
 KRSVQGKLN SATQKQTESYLRPLFRKLRRKRNLPADIKESITDI IKFMLQREYVKANDAYLQMAIGNAPWP
 IGVTMVGIHARTGREKIFSKHVAHVLNDETQRKYIQGLKRLMTICQKHFPTDPSKCV EYNAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Chromatograms: https://cdn.origene.com/chromatograms/mk6541_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_003675

ORF Size: 1026 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:

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_003675.4](#)

RefSeq Size: 1711 bp

RefSeq ORF: 1029 bp

Locus ID: 8559

UniProt ID: [Q99633](#)

Cytogenetics: 10p13

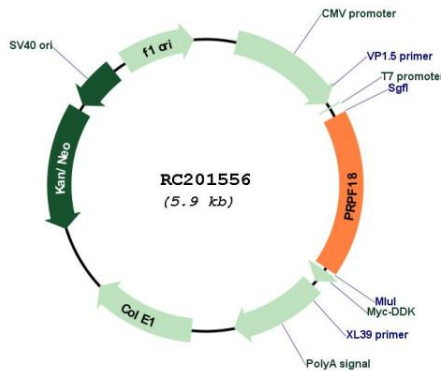
Domains: SFM, Prp18

Protein Pathways: Spliceosome

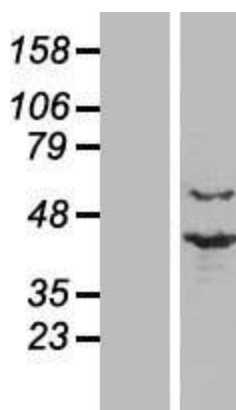
MW: 39.9 kDa

Gene Summary: Pre-mRNA splicing occurs in 2 sequential transesterification steps. The protein encoded by this gene is found to be essential for the catalytic step II in pre-mRNA splicing process. It is found in the spliceosome, and contains seven WD repeats, which function in protein-protein interactions. This protein has a sequence similarity to the yeast splicing factor Prp18. [provided by RefSeq, Jul 2008]

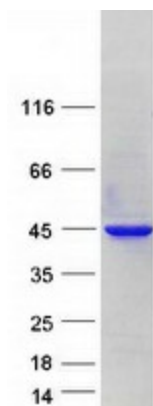
Product images:



Circular map for RC201556



Western blot validation of overexpression lysate (Cat# [LY418505]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201556 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRPF18 protein (Cat# [TP301556]). The protein was produced from HEK293T cells transfected with PRPF18 cDNA clone (Cat# RC201556) using MegaTran 2.0 (Cat# [TT210002]).