

Product datasheet for **RC200360**

PRPF4 (NM_004697) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRPF4 (NM_004697) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRPF4
Synonyms:	HPRP4; HPRP4P; PRP4; Prp4p; RP70; SNRNP60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200360 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTCTCGCGAGCCTCTTCCACGCAGGCAACCAAACTAAAGCACCCGACGACTTAGTTGCTCCGG
 TCGTGAAGAAACCACACATCTATTATGGAAGTTTGAAGAGAAGGAGAGGAGCGTCTGGCCAAAGGAGA
 GTCTGGGATTTTGGGAAAGACGGACTTAAAGCAGGGATCGAAGCTGAAATATTAATATAACCTTGGA
 GAAGTGTTTGAAATTGAAGAGCATATCAGCGAGCGACAGGCAGAAGTATTGGCTGAGTTTGAAGAGAAGGA
 AGCGAGCCCGGCAGATCAATGTTTCCACAGATGACTCAGAGGTCAAAGCTTGCCTTAGAGCCTTGGGGGA
 ACCCATCACACTTTTGGAGAGGGTCTGCTGAAAGAAGAGAAAGTTAAGAAATATCCTCTCAGTTGTC
 GGTACTGATGCCTTGAAGGACCAAAAGGATGATGAGAAGTCTAAAAAGTCAAAGAAGAGTATCAGC
 AAACCTGGTATCATGAAGGACCAATAGCTTGAAGGTGGCAAGACTATGGATTGCTAATTATTCGTTGCC
 CAGGGCAATGAAACGCTTGAAGAGGCCCGACTCCATAAGGAGATTCTGAGACAACAAGGACCTCCAG
 ATGCAAGAGCTGACAAGTCTCTCCGGTCTTGAATAATTTTGCAGTCAGATTGGGGATGATCGGCCTA
 TCTCTACTGTCACTTTAGTCCCAATCCAAGATGCTGGCCACAGCTTGTGGAGTGGGCTTTGCAAGCT
 CTGGTCTGTTCTGATTGCAACCTCCTTACACCTTTCGAGGGCATAACACAAATGTAGGAGCAATTGTA
 TTCCATCCCAATCCACTGTCTCCTTGGACCCAAAAGATGTCAACCTGGCCTCTTGTGCGGCTGATGGCT
 CTGTGAAGCTTTGGAGTCTCGACAGTGTGAACCAAGTGGCAGATATTGAAGGCCATACAGTGCCTGTTGGC
 GCGGTAATGTGGCATCCTTCAAGACGTTTCTGGGCACCACCTGCTATGACCGTTATGGCGCTTATGG
 GATTTGGAGGCTCAAGAGGAGATCCTGCATCAGGAAGGCCATAGCATGGGTGTGTATGACATTGCCTTCC
 ATCAAGATGGCTCTTGGCTGGCACTGGGGGACTGGATGCATTTGGTTCGAGTTTGGGACCTACGCACAGG
 AGTTTGTATCATGTTCTTGAAGGCCACCTGAAAGAAATCTATGGAATAAATTTCTCCCAATGGCTAT
 CACATTGCAACCGCAGTGGTGACAACCTGCAAAGTGTGGACCTCCGACAGCGGCTTGGCTTACA
 CCATCCCTGCTCATCAGAACTTAGTGACTGGTGTCAAGTTTGGCCTATCCATGGGAACTTCTTGTCTAC
 TGGTGCCTATGATAACACAGCCAAGATCTGGACGCACCCAGGCTGGTCCCGCTGAAGACTCTGGCTGGC
 CACGAAGGCAAAGTATGGGCTAGATATTTCTCCGATGGGCAGCTCATAGCCACTTGCTCATATGACA
 GGACCTCAAGCTGTGGATGGCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200360 protein sequence
 Red=Cloning site Green=Tags(s)

MASSRASSTQATKTKAPDDL VAPVVKKPHIYYGSLEEKERERLAKGESGILGKDGLKAGIEAGNINITSG
 EVFEIEEHI SERQAEVLA EFERRKRARQINVSTDDSEVKACLRLALGEPITLFGEGPAERRERLRNLSV
 GTDALKTKKDDDEKSKSKEEYQQTWYHEGPNSLKVARLWIANYSLPRAMKRLEEARLHKEIPETTRTSQ
 MQELHKSLRSLNFC SQIGDDRPISYCHFSPNSKMLATACWSGLCKLWSVPDCNLLHLRGHNTNVGAI
 FHPKSTVSLDPKDVNLASCAADGSVKLWLSLDSDEPVADIEGHTVRVARVMWHPSGRFLGTTCYDRSWRLW
 DLEAQEEILHQEGHSMGVYDIAFHQDGLAGTGGLDAFGRVWDLRTGRCIMFLEGLHKEIYGINFSPNGY
 HIATGSGDNTCKVWDLRQRRCVYTI PAHQNLVTGVKFEPIHGNFLLTGAYDNTAKI WTHPGWSPLKTLG
 HEGKVMGLDISSDGLIATCSYDRTFKLWMAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6418_b08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004697

ORF Size: 1566 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_004697.5](#)

RefSeq Size: 2941 bp

RefSeq ORF: 1569 bp

Locus ID: 9128

UniProt ID: [O43172](#)

Cytogenetics: 9q32

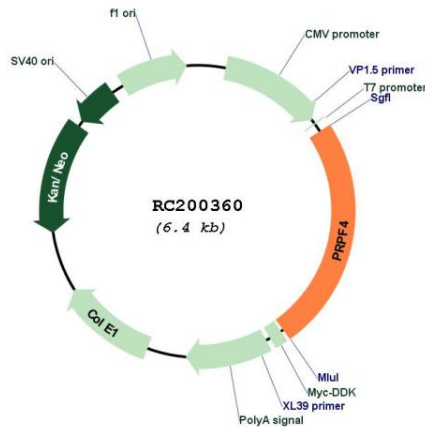
Domains: WD40, SFM

Protein Pathways: Spliceosome

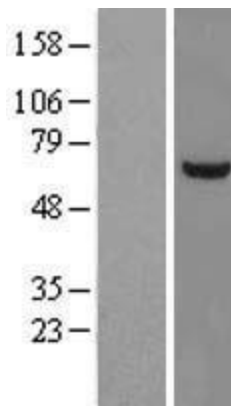
MW: 58.4 kDa

Gene Summary: The protein encoded by this gene is part of a heteromeric complex that binds U4, U5, and U6 small nuclear RNAs and is involved in pre-mRNA splicing. The encoded protein also is a mitotic checkpoint protein and a regulator of chemoresistance in human ovarian cancer. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2016]

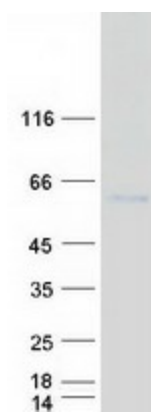
Product images:



Circular map for RC200360



Western blot validation of overexpression lysate (Cat# [LY417825]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200360 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRPF4 protein (Cat# [TP300360]). The protein was produced from HEK293T cells transfected with PRPF4 cDNA clone (Cat# RC200360) using MegaTran 2.0 (Cat# [TT210002]).