

## Product datasheet for **RG200360**

### PRPF4 (NM\_004697) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRPF4 (NM_004697) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRPF4
Synonyms:	HPRP4; HPRP4P; PRP4; Prp4p; RP70; SNRNP60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200360 representing NM\_004697  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTTCTCGGAGCCTCTTCCACGCAGGCAACCAAACTAAAGCACCCGACGACTTAGTTGCTCCGG  
 TCGTGAAGAAACCACACATCTATTATGGAAGTTTGAAGAGAAGGAGAGGAGCGTCTGGCCAAAGGAGA  
 GTCTGGGATTTTGGGAAAGACGGACTTAAAGCAGGGATCGAAGCTGAAATATTAATATAACCTCTGGA  
 GAAGTGTTTGAAATTGAAGAGCATATCAGCGAGCGACAGGCAGAAGTATTGGCTGAGTTTGAAGAAAGGA  
 AGCGAGCCCGCAGATCAATGTTTCCACAGATGACTCAGAGGTCAAAGCTTGCCTTAGAGCCTTGGGGGA  
 ACCCATCACACTTTTGGAGAGGGTCTGCTGAAAGAAGAAAGGTTAAGAAATATCCTCTCAGTTGTC  
 GGTACTGATGCCTTGA AAAAGACCAAAAAGGATGATGAGAAGTCTAAAAAGTCCAAAGAAGATACAGC  
 AAACCTGGTATCATGAAGACCAAAATAGCTTGAAGGTGGCAAGACTATGGATTGCTAATTATTCTGTGCC  
 CAGGGCAATGAAACGCTTGAAGAGGCCGACTCCATAAGGAGATTCCTGAGACAACAAGGACCTCCCAG  
 ATGCAAGAGCTGACAAGTCTCTCCGGTCTTGAATAATTTTGCAGTCAGATTGGGGATGATCGGCCTA  
 TCTCTACTGTCACTTTAGTCCCAATCCAAGATGCTGGCCACAGCTTGTGGAGTGGGCTTTGCAAGCT  
 CTGGTCTGTTCTGATTGCAACCTCCTTACACTCTTCGAGGGCATAACACAAATGTAGGAGCAATTGTA  
 TTCCATCCAAATCCACTGTCTCCTTGGACCAAAAAGATGTCAACCTGGCCTCTTGTGCGGCTGATGGCT  
 CTGTGAAGCTTTGGAGTCTCGACAGTGTGAACCAAGTGGCAGATATTGAAGGCCATACAGTGCCTGTGGC  
 GCGGGTAAATGTGGCATCCTTCAGGACGTTTCTGGGCACCACCTGCTATGACCGTTATGGCGCTTATGG  
 GATTTGGAGGCTCAAGAGGAGATCCTGCATCAGGAAGGCCATAGCATGGGTGTGTATGACATTGCCTTCC  
 ATCAAGATGGCTCTTTGGCTGGCACTGGGGGACTGGATGCATTTGGTCGAGTTTGGGACCTACGCACAGG  
 AGTTTGTATCATGTTCTTAGAAGGCCACCTGAAAGAAATCTATGGAATAAATTTCTCCCAATGGCTAT  
 CACATTGCAACCGCAGTGGTGACAACCTGCAAAGTGTGGACCTCCGACAGCGGCTTGGCTTACA  
 CCATCCCTGCTCATCAGAACTTAGTGACTGGTGTCAAGTTTGGCCTATCCATGGGAACTTCTTGTCTAC  
 TGGTGCCTATGATAACACAGCCAAGATCTGGACGCACCCAGGCTGGTCCCGCTGAAGACTCTGGCTGGC  
 CACGAAGGCAAAGTATGGGCTAGATATTTCTCCGATGGGCAGCTCATAGCCACTTGCTCATATGACA  
 GGACCTCAAGCTGTGGATGGCTGAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200360 representing NM\_004697  
 Red=Cloning site Green=Tags(s)

MASSRASSTQATKTKAPDDL VAPVVKKPHIYYGSLEEKERERLAKGESGILGKDGLKAGIEAGNINITSG  
 EVFEIEEHI SERQAEVLAEFERRKRARQINVSTDDSEVKACLRLALGEPITLFGEGPAERRERLRNLSV  
 GTDALKKTKDDEKSKSKEEYQQTWYHEGPNLKVVARLWIANYSLPRAMKRLEEARLHKEIPETTRTSQ  
 MQELHKSRLNRFCSQIGDDRPISYCHFSPNSKMLATACWSGLCKLWSVPCNLLHTLRGHNTNVGAI  
 FHPKSTVSLDPKDVNLASCAADGSVKLWLSDEPVADIEGHTVRVARVMWHPSGRFLGTTCYDRSWRLW  
 DLEAQEEILHQEGHSMGYVDIAFHQDGLAGTGGLDAGFRVWDLRTGRCIMFLEGLHKEIYGINFSPNGY  
 HIATGSGDNTCKVWDLRQRRCVYTI PAHQNLVTGVKFEP IHGNFLLTGAYDNTAKI WTHPGWSPLKTLAG  
 HEGKVMGLDISSDGLIATCSYDRTFKLWMAE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**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:** 2756 bp

**RefSeq ORF:** 1569 bp

**Locus ID:** 9128

**UniProt ID:** [O43172](#)

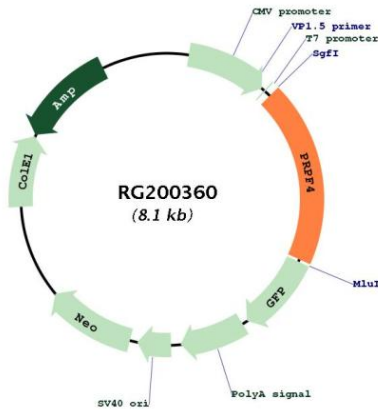
**Cytogenetics:** 9q32

**Domains:** WD40, SFM

**Protein Pathways:** Spliceosome

**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 RG200360