

Product datasheet for **RG234345**

PRPF4 (NM_001244926) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRPF4 (NM_001244926) 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:

>RG234345 representing NM_001244926
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTTCTCGGAGCCTCTTCCACGGCAACCAAACTAAAGCACCCGACGACTTAGTTGCTCCGGTCG
 TGAAGAAACCACACATCTATTATGGAAGTTTGAAGAGAAGGAGAGGGAGCGTCTGGCCAAAGGAGAGTC
 TGGGATTTTGGGAAAGACGGACTTAAAGCAGGGATCGAAGCTGGAAATATTAATAAACCTCTGGAGAA
 GTGTTTGAATTGAAGAGCATATCAGCGAGCGACAGGCAGAAGTATTGGCTGAGTTTGAAGAAAGGAAGC
 GAGCCCGCAGATCAATGTTTCCACAGATGACTCAGAGGTCAAAGCTTGCCTTAGAGCCTTGGGGAAACC
 CATCACACTTTTTGGAGAGGGTCTGCTGAAAGAAGAGAAAGTTAAGAAATATCCTCTCAGTTGTCGGT
 ACTGATGCCTTGAAGAACCAAAAAGGATGATGAGAAGTCTAAAAGTCCAAAGAAGAGTATCAGCAA
 CCTGGTATCATGAAGGACCAATAGCTTGAAGGTGGCAAGACTATGGATTGCTAATTATTCGTTGCCAG
 GGCAATGAAACGCTTGAAGAGGCCGACTCCATAAGGAGATTCCTGAGACAACAAGGACCTCCAGATG
 CAAGAGCTGCACAAGTCTCTCCGGTCTTTGAATAATTTTTGCAGTCAGATTGGGGATGATCGGCCTATCT
 CCTACTGTCACTTAGTCCCAATCCAAGATGCTGGCCACAGCTTGTGGAGTGGGCTTTCGCAAGCTCTG
 GTCTGTTCTGATTGCAACCTCCTTCACTCTTCGAGGGCATAACACAAATGTAGGAGCAATTGTATTC
 CATCCCAATCCACTGTCTCCTTGGACCAAAAAGATGTCAACCTGGCCTCTTGTGCGGCTGATGGCTCTG
 TGAAGCTTTGGAGTCTCGACAGTGTGAACAGTGGCAGATATTGAAGGCCATACAGTGCCTGTGGCGCG
 GGTAATGTGGCATCCTCAGGACGTTTCTGGGACCACCTGCTATGACCGTTCATGGCGCTTATGGGAT
 TTGGAGGCTCAAGAGGAGATCCTGCATCAGGAAGGCCATAGCATTGGTGTGTATGACATTGCCTCCATC
 AAGATGGCTCTTTGGCTGGCACTGGGGGACTGGATGCAATTTGGTGGAGTTGGGACCTAGCACAGGACG
 TTGTATCATGTTCTTAGAAGGCCACCTGAAAGAAATCTATGGAATAAATTTCTCCCAATGGCTATCAC
 ATTGCAACCGGCAGTGGTGACAACCTGCAAAGTGTGGGACCTCCGACAGCGGCTTGGCTCTACACCA
 TCCCTGCTCATCAGAACTTAGTACTGGTGTCAAGTTTGGCCTATCCATGGGAACCTTCTTGCTTACTGG
 TGCCTATGATAACACAGCCAAGATCTGGACGCACCCAGGCTGGTCCCGCTGAAGACTCTGGCTGGCCAC
 GAAGGCAAAGTATGGGCTAGATATTTCTCCGATGGGACGCTCATAGCCACTTGCTCATATGACAGGA
 CCTTCAAGCTGTGGATGGCTGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234345 representing NM_001244926
 Red=Cloning site Green=Tags(s)

MASSRASSTATKTKAPDDL VAPVVKPHIYYGSLEEKERERLAKGESGILGKDGLKAGIEAGNINITSGE
 VFEIEEHSERQAEVLAEFERRKRARQINVSTDDSEVKACLALGEPITLFGEGPAERRERLRNLSVVG
 TDALKKTKDDEKSKKSKEEYQQTWYHEGPNLKVARLWIANYSLPRAMKRLLEEARLHKEIPETTRTSQM
 QELHKSLRSLNMFCSQIGDRPISYCHFSNPKMLATAACWSGLCKLWSVPDCNLLHTRLRGHNTNVGAI
 VHPKSTVSLDPKDVNLASCAADGSVKLWLSLDSDEPVADIEGHTVVRVARVMWHPSGRFLGTTTCYDRSWRLWD
 LEAQEEILHQEGHSMGVYDIAFHQDGLAGTGGLDAGFRVWDLRTGRCIMFLEGLHKEIYGINFSPNGYH
 IATGSGDNTCKVWDLRQRRVYTI PAHQNLVTGVKFEIHNFLLTGAYDNTAKIWHTPGWSPLKTLAGH
 EGKVMGLDISSDGLIATCSYDRTFKFLWMAE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001244926

ORF Size: 1563 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_001244926.2](#)

RefSeq Size: 2938 bp

RefSeq ORF: 1566 bp

Locus ID: 9128

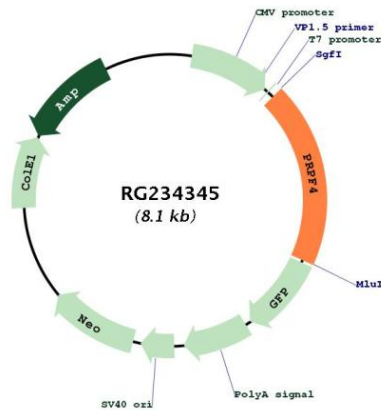
UniProt ID: [O43172](#)

Cytogenetics: 9q32

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 RG234345