

## Product datasheet for **RG201365**

### PRPF3 (NM\_004698) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRPF3 (NM_004698) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRPF3
Synonyms:	HPRP3; HPRP3P; PRP3; Prp3p; RP18; SNRNP90
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG201365 representing NM\_004698  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCACTGTCAAAGAGGGAGCTGGATGAGCTGAAACCATGGATAGAGAAGACAGTGAAGAGGGTCTCTGG  
 GTTCTCAGAGCCTACGGTGGTACAGCAGCATTGAACCTGTGGGGAAGGGCATGGACAAGAAGAAGGC  
 AGCCGATCATCTGAAACCTTTTCTTGATGATTCTACTCTCCGATTTGTGGACAACTGTTTGAGGCTGTG  
 GAGGAAGGCCGAAGCTCTAGGCATTCCAAGTCTAGCAGTGACAGGAGCAGAAAACGAGAGCTAAAGGAGG  
 TGTGGTGGTACTCTGAGATCTCTAAAGAATCATCAGGAGTAAAGAAGCGACGAATACCCCGTTTTGA  
 GGAGGTGGAAGAAGGCCAGAGGTGATCCCTGGGCCTCCATCAGAGAGCCCTGGCATGCTGACTAAGCTC  
 CAGATCAAACAGATGATGGAGGCAGCAACACGACAAATCGAGGAGAGGAAAAACAGCTGAGCTTCATTA  
 GCCCCCTACACCTCAGCCAAAGACTCCTTCTTCTCCCAACCAGAACGACTTCTATTGGCAACACTAT  
 TCAGCCCTCCCAGGCTGCCACTTTCATGAATGATGCCATTGAGAAGGCAAGGAAAGCAGCTGAACCTGCAA  
 GCTCGAATCCAAGCCAGCTGGCACTGAAGCCAGGACTCATCGGCAATGCCAACATGGTGGGCCTGGCTA  
 ATCTCCATGCCATGGGCATTGCTCCCCGAAGGTGGAGTAAAAGACCAACGAAACCTACACCCTGAT  
 CCTGGATGAGCAAGGGCGCACTGTAGTGCAACAGGCAAGGAGATTGAGCTGACACACCGCATGCCTACT  
 CTGAAAGCCAATATTCGTGCTGTGAAGAGGGAACAATCAAGCAACAATAAGGAAAAGCCATCAGAAG  
 ACATGGAATCCAATACCTTTTTTGACCCCGAGTCTCCATTGCCCTTCCCAGCGCCAGAGACGCACTTT  
 TAAATTCATGACAAGGGCAAATTTGAGAAGATTGCTCAGCGATTACGGACAAAGGCTCACTGGAGAAG  
 CTACAGGCAGAGATTTACAAGCAGCTCGAAAAACAGGCATCCATACTTCGACTAGGCTTGCCCTCATTG  
 CTCCTAAGAAGGAGCTAAAGGAAGGAGATATTCCTGAAATTTGAGTGGTGGGACTTTACATAATCCCCAA  
 TGGCTTTGATCTTACAGAGGAAAAATCCCAAGAGAGAAGATTATTTTGAATCACAAATCTTGTGAACAT  
 CCAGCCCAGCTCAATCCTCCAGTTGACAATGACACACCAGTACTCTGGGAGTATATCTTACCAAGAAGG  
 AACAGAAAAAATTCGGAGACAAACAAGGAGGGAAGCACAGAAGGAACTACAAGAAAAAGTCAAGGCTGGG  
 CCTGATGCCTCCTCCAGAACCCAAAGTGAATTTCTAATTTGATGCGAGTATTAGGAACAGAAGCTGTT  
 CAAGACCCACGAAGGTAGAAGCCACGTCAGAGCTCAGATGGCAAAAAGACAGAAAGCGCATGAAGAGG  
 CCAACGCTGCCGAAAATCACAGCAGAACAGAGAAAGGTCAAGAAAATTAAGAAAGCTTAAAGAAGACAT  
 TTCACAGGGGTACACATATCTGTATATAGAGTTCGAAATTTGAGCAACCCAGCCAAGAAGTTCAAGATT  
 GAAGCCAATGCTGGGCACTGTACTGACAGGGTGGTGGTACTGCACAAGGATGTCAACGTGGTAGTAG  
 TGAAGGGGGCCCAAGGCCAGAAGAAATTAAGCGTCTTATGCTGCATCGGATAAAGTGGGATGAACA  
 GACATCTAACACAAGGGAGATGATGATGAGGAGTCTGATGAGGAAGCTGTGAAGAAAACCAACAATGT  
 GTACTAGTCTGGGAGGTTACAGCCAAAGACCGGAGCTTTGGAGAGATGAAGTTTAAACAGTGCCTACAG  
 AGAACATGGCTCGTGAGCATTTCAAAAAGCATGGGGCTGAACACTACTGGGACCTTGCCTGAGTGAATC  
 TGTGTTAGAGTCCACTGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201365 representing NM\_004698  
 Red=Cloning site Green=Tags(s)

MALSKRELDLKPWIEKTVKRVLGFSEPTVVTAALNCVGVGMDKKKAADHLKPFLLDDSTLRFVDKLF EAV  
 EEGRSSRHSKSSSDRSRKRELKEVFGDDSEISKESGKRRIPRFEEVEEVEVIPPSPSESPGMLTKL  
 QIKQMMEAATRQIEERKKQLSFI SPPTPQPKTPSSSQPERLPIGNTIQPSQAATFMNDAIEKARKAAELQ  
 ARIQAQLALKPGLIGNANMVGLANLHAMGIAPPKVELKDQTKPTPLILDEQGRVDTGKEIELTHRMP  
 LKANIRAVKREQFKQLKEPSEDMESNTFFDPRVSIAPSQRRRTFKFHDGKFEKIAQRLRTKAQLEK  
 LQAEISQAARKTGHTSTRLLAL IAPKKEKELGDIPEIEWWDSYIIPNGFDL TEENPKREDFYGITNLVEH  
 PAQLNPPVDNDTPVTLGVYLTKKEQKLLRRQTRREAQKELQEKVRLGLMPPPEPKVIRISNLMRVLGT EAV  
 QDPTKVEAHVRAQMAKRQKAHEEANAARKLTAEQRKVKKIKKLEKDISQGVHISVYRVRNLSNPAKFKI  
 EANAGQLYLTGVVVLHKDVNVVVVEGGPKAQKFKRLMLHRIKWDEQTSNTKGDDEESDEEAVKKTNKC  
 VLVWEGTAKDRSFGEMKFKQCPTENMAREHFKKHGAEHYDLAL SESVLESTD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004698

**ORF Size:** 2049 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\\_004698.4](#)

**RefSeq Size:** 2344 bp

**RefSeq ORF:** 2052 bp

**Locus ID:** 9129

**UniProt ID:** [O43395](#)

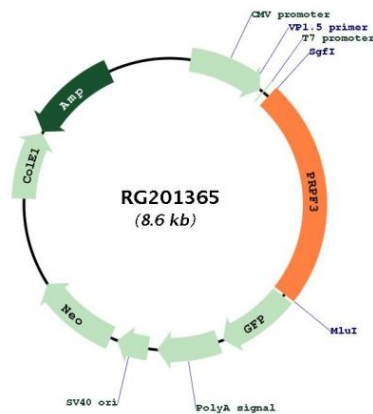
**Cytogenetics:** 1q21.2

**Domains:** PWI

**Protein Pathways:** Spliceosome

**Gene Summary:** The removal of introns from nuclear pre-mRNAs occurs on complexes called spliceosomes, which are made up of 4 small nuclear ribonucleoprotein (snRNP) particles and an undefined number of transiently associated splicing factors. This gene product is one of several proteins that associate with U4 and U6 snRNPs. Mutations in this gene are associated with retinitis pigmentosa-18. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG201365