

Product datasheet for **RG218746**

PROP1 (NM_006261) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PROP1 (NM_006261) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PROP1
Synonyms: CPHD2; PROP-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG218746 representing NM_006261
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCAGAAAGGAGGCGCCAGGCTGAGAAGCCAAAGAAGGGGCGAGTCGGCAGCAGCCTGTTGCCTG
AGAGACACCCGGCCACTGGGACCCCGACCACCACGGTGGACTCGAGTGTCCACCCTGCAGAAGGCTCCC
TGGTGCAGGAGGGGGGAGATCAAGGTTCTCCCCGAAGGAGGACAGAGGGGCCCGCCACTCCCGGCGC
CGCCACCGCACCACCTTCAGCCCAGTGCAGTTGGAACAGCTGGAGTCAGCCTTTGGGAGGAACCAGTACC
CCGACATCTGGGCCGAGAGAGTCTTGCCCGGACACTGGCCTCAGTGAGGCCCGAATCCAGGTCTGGTT
CCAGAACCGCAGAGCTAAGCAACGGAAGCAAGAGCGCTCACTGCTTCAGCCTCTGGCCCATCTGTCTCCT
GCCGCTTTTCCAGCTTCTTGCCAGAGTCCACTGCTTGCCCTATTCTTACGCAGCACCACCACCACAG
TGACCTGCTTCCCTCACCCCTACAGCCATGCCCTCCCTTCCCAGCCCTCCACAGGAGGCGCCTTTGCTTT
GTCACACCAGTCTGAGGACTGGTACCCTACCTTGACCCAGCCCTGCCGGCCATCTGCCCTGCCCCCA
CCCCCTCCCATGCTCCCCCTCAGCCTTGAGCCATCCAAGTCTGGAAC

ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218746 representing NM_006261
Red=Cloning site Green=Tags(s)

MEAEERRRQAEKPKKGRVGSLLPERHPATGTPTTTVDSSAPPCRRLPGAGGGRSRFSPQGGQRGRPHSRR
 RHRTTFSPVQLEQLSAFGRNQYDIWARESLARDTGLSEARIQVWFQNRRAKQRKQERSLLQPLAHLSP
 AAFSSFLPESTACPYSYAAPPPVTCFPHPYSHALPSQPSTGGAFALSHQSEDWYPTLHPAPAGHLPCPP
 PPPMLPLSLEPSKSWN

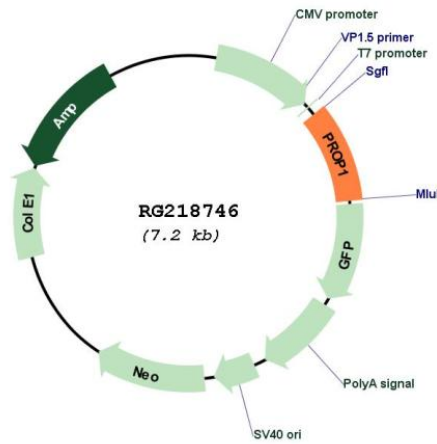
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_006261

ORF Size: 678 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_006261.4](#), [NP_006252.3](#)

RefSeq Size: 1463 bp

RefSeq ORF: 681 bp

Locus ID: 5626

UniProt ID: [O75360](#)

Cytogenetics: 5q35.3

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a paired-like homeodomain transcription factor in the developing pituitary gland. Expression occurs prior to and is required for expression of pou domain transcription factor 1, which is responsible for pituitary development and hormone expression. Mutations in this gene have been associated with combined pituitary hormone deficiency-2 as well as deficiencies in luteinizing hormone, follicle-stimulating hormone, growth hormone, prolactin, and thyroid-stimulating hormone. [provided by RefSeq, Sep 2011]