

## Product datasheet for **SC303762**

### PROP1 (NM\_006261) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | PROP1 (NM_006261) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | PROP1   |
| Synonyms:                 | CPHD2; PROP-1   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| Fully Sequenced ORF:      | >SC303762 representing NM_006261.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGCAGAAAGGAGGCGCCAGGCTGAGAAGCCAAAGAAGGGGCGAGTCGGCAGCAGCCTGTTGCCT
GAGAGACACCCGGCCACTGGGACCCCGACCACCACGGTGGACTCGAGTGTCCACCCTGCAGAAGGCTC
CCTGGTGCAGGAGGGGGGAGATCAAGTTCTCCCCGAAGGAGGACAGAGGGGCCCGCCACTCCCGG
CGCCGCCACCGCACCACCTTCAGCCAGTGCAGTTGGAACAGCTGGAGTCAGCCTTTGGGAGGAACCAG
TACCCCGACATCTGGGCCGAGAGAGTCTTGGCCGGGACACTGGCCTCAGTGAGGCCGAATCCAGGTC
TGTTCCAGAACCGCAGAGCTAAGCAACGAAGCAAGAGCGCTCACTGCTTCAGCCTCTGGCCCATCTG
TCTCTGCCGCTTTTCCAGCTTCTTGCCAGAGTCCACTGCTTGCCCTATTCTTACGCAGCACCACCA
CCACCAGTGACCTGCTTCCCTCACCCCTACAGCCATGCCCTCCCTTCCCAGCCCTCCACAGGAGGCC
TTTGCTTTGTACACCAGTCTGAGGACTGGTACCTACCTTGACCCAGCCCTGCCGGCCATCTGCC
TGCCCCCACCCTCCCATGCTCCCCCTCAGCCTTGAGCCATCCAAGTCTGGAACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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|                    |           |
|--------------------|-----------|
| Restriction Sites: | Sgfl-MluI |
| ACCN:              | NM_006261 |
| Insert Size:       | 681 bp    |



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**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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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](#)

**RefSeq Size:** 1464 bp

**RefSeq ORF:** 681 bp

**Locus ID:** 5626

**UniProt ID:** [O75360](#)

**Cytogenetics:** 5q35.3

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 25 kDa

**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]