

## **Product datasheet for RG212686**

## OriGene Technologies, Inc.

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### PDPN (NM\_001006624) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** PDPN (NM\_001006624) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: PDPN

**Synonyms:** AGGRUS; GP36; Gp38; GP40; HT1A-1; OTS8; PA2.26; T1A; T1A-2; T1A2; T1A

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG212686 representing NM\_001006624
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCCAGGTGCCGAAGATGATGTGGTGACTCCAGGAACCAGCGAAGACCGCTATAAGTCTGGCTTGACAA CTCTGGTGGCAACAAGTGTCAACAGTGTAACAGGCATTCGCATCGAGGATCTGCCAACTTCAGAAAGCAC AGTCCACGCGCAAGAACAAAGTCCAAGCGCCACAGCCTCAAACGTGGCCACCAGTCACTCCACGGAGAAA GTGGATGGAGACACACAGACAACAGTTGAGAAAGATGGTTTGTCAACAGTGACCCTGGTTGGAATCATAG TTGGGGTCTTACTAGCCATCGGCTTCATTGGTGCAATCATCGTTGTGGTTATGCGAAAAATGTCGGGAAG

GTACTCGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212686 representing NM\_001006624

Red=Cloning site Green=Tags(s)

MPGAEDDVVTPGTSEDRYKSGLTTLVATSVNSVTGIRIEDLPTSESTVHAQEQSPSATASNVATSHSTEK

VDGDTQTTVEKDGLSTVTLVGIIVGVLLAIGFIGAIIVVVMRKMSGRYSP

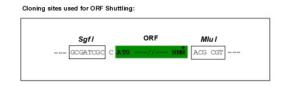
TRTRPLE - GFP Tag - V

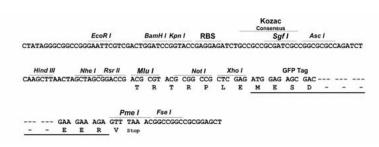
**Restriction Sites:** Sgfl-Mlul



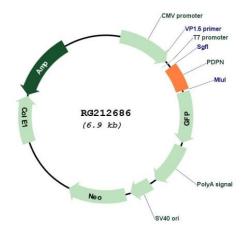


### **Cloning Scheme:**





# Plasmid Map:



**ACCN:** NM\_001006624

ORF Size: 360 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 <a href="mailto:customercom">customercom</a> 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. <u>More info</u>

**OTI Annotation:** 

Components:

varies depending on the nature of the gene.

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).

This clone was engineered to express the complete ORF with an expression tag. Expression

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.

**RefSeg:** NM 001006624.2

 RefSeq Size:
 2652 bp

 RefSeq ORF:
 363 bp

 Locus ID:
 10630

 UniProt ID:
 Q86YL7

 Cytogenetics:
 1p36.21

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes a type-I integral membrane glycoprotein with diverse distribution in

human tissues. The physiological function of this protein may be related to its mucin-type character. The homologous protein in other species has been described as a differentiation antigen and influenza-virus receptor. The specific function of this protein has not been determined but it has been proposed as a marker of lung injury. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul

2008]