

## Product datasheet for **RG209347**

### **PFDN5 (NM\_002624) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PFDN5 (NM\_002624) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PFDN5  
**Synonyms:** MM-1; MM1; PFD5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG209347 representing NM\_002624  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCAGTCTATTAACATCACGGAGCTGAATCTGCCGAGCTAGAAATGCTCAAGAACCAGCTGGACC  
 AGGAAGTGGAGTCTTGCCACGTCCATTGCTCAGCTCAAAGTGGTACAGACCAAGTATGTGAAGCCAA  
 GGACTGTCTGAACGTGCTGAACAAGAGCAACGAGGGGAAAGAATTACTCGTCCACTGACGAGTTCTATG  
 TATGTCCCTGGGAAGCTGCATGATGTGGAACACGTGCTCATCGATGTGGAACTGGTACTATGTAGAGA  
 AGACAGCTGAGGATGCCAAGGACTTCTCAAGAGGAAGATAGATTTTCTAACCAAGCAGATGGAGAAAAT  
 CCAACCAGCTCTTCAGGAGAAGCAGCCATGAAACAGGCCGTCATGGAATGATGAGTCAGAAGATTCAG  
 CAGCTCACAGCCCTGGGGCAGCTCAGGCTACTGCTAAGGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG209347 representing NM\_002624  
 Red=Cloning site Green=Tags(s)

MAQSINITELNLPQLEMLKNQLDQEVFLSTSI AQLKVVQTKYVEAKDCLNVLNKSNEGKELLVPLTSSM  
 YVPGKLDVEHVLIDVGTGYVVEKTAEDAKDFFRKIDFLTKQMEKIQPALQEKHAMKQAVMEMMSQKIQ  
 QLTALGAAQATAKA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_002624

**ORF Size:** 462 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\\_002624.4](#)

**RefSeq Size:** 661 bp

**RefSeq ORF:** 465 bp

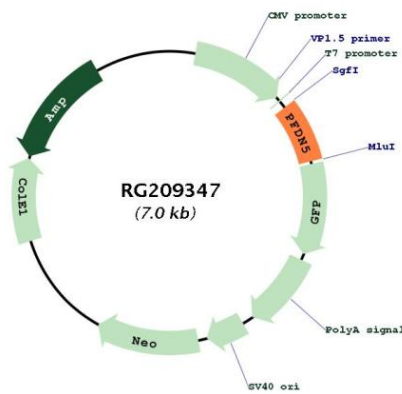
**Locus ID:** 5204

**UniProt ID:** [Q99471](#)

**Cytogenetics:** 12q13.13  
**Domains:** DUF232  
**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a member of the prefoldin alpha subunit family. The encoded protein is one of six subunits of prefoldin, a molecular chaperone complex that binds and stabilizes newly synthesized polypeptides, thereby allowing them to fold correctly. The complex, consisting of two alpha and four beta subunits, forms a double beta barrel assembly with six protruding coiled-coils. The encoded protein may also repress the transcriptional activity of the proto-oncogene c-Myc. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG209347