

## Product datasheet for **RC223996**

### **PFDN5 (NM\_145897) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PFDN5 (NM\_145897) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PFDN5  
**Synonyms:** MM-1; MM1; PFD5  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC223996 representing NM\_145897  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGGCGCAGTCTATTAACATCACGGAGCTGAATCTGCCGAGCTAGAAATGCTCAAGAACCAGCTGGACC**  
**AGATGTATGTCCCTGGGAAGCTGCATGATGTGGAACACGTGCTCATCGATGTGGAACTGGTACTATGT**  
**AGAGAAGACAGCTGAGGATGCCAAGGACTTCTCAAGAGGAAGATAGATTTTCTAACCAAGCAGATGGAG**  
**AAAATCCAACCAGCTTTCAGGAGAAGCAGCCATGAAACAGGCCGCATGGAAATGATGAGTCAGAAGA**  
 **TTCAGCAGCTCACAGCCCTGGGGCAGCTCAGGCTACTGCTAAGGCC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC223996 representing NM\_145897  
**Red=Cloning site Green=Tags(s)**

MAQSINITELNLPQLEMLKNQLDQMYVPGKLHDVEHVLIDVGTGYVVEKTAEDAQDFFKRKIDFLTKQME  
KIQPALQEKHAMKQAVMEMMSQIQQLTALGAAQATAKA

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI

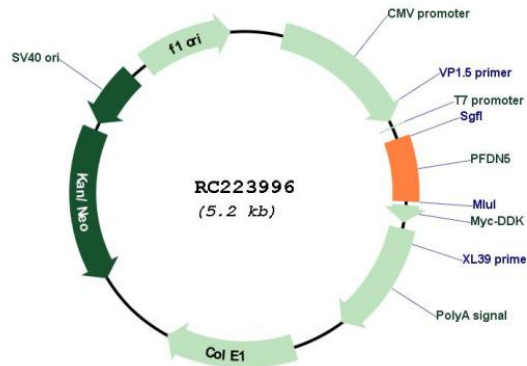


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Cloning Scheme:



Plasmid Map:



ACCN:

NM\_145897

ORF Size:

327 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_145897.2</a> , <a href="#">NP_665904.1</a>
<b>RefSeq Size:</b>	608 bp
<b>RefSeq ORF:</b>	330 bp
<b>Locus ID:</b>	5204
<b>UniProt ID:</b>	<a href="#">Q99471</a>
<b>Cytogenetics:</b>	12q13.13
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	12.4 kDa
<b>Gene Summary:</b>	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]