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# Product datasheet for RC200584

## PFDN1 (NM_002622) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Tag:** | Myc-DDK |
| **Symbol:** | PFDN1 |
| **Synonyms:** | PDF; PFD1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC200584 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCCCCCGTGGATCTAGAGCTGAAGAAGGCCTTCACAGAGCTTCAAGCCAAAGTTATTGACACTC
AACAGAAGGTGAAGCTCGCAGACATACAGATTGAACAGCTAAACAGAACGAAAAAGCATGCACATCTTAC
AGATACAGAGATCATGACTTTGGTAGATGAGACTAACATGTATGAAGGTGTAGGAAGAATGTTTATTCTT
CAGTCCAAGGAAGCAATTCACAGTCAGCTGTTAGAGAAGCAGAAAATAGCAGAAGAAAAAATTAAAGAAC
TAGAACAGAAAAAGTCCTACCTGGAGCGAAGCGTTAAGGAAGCTGAGGACAACATCCGGGAGATGCTGAT
GGCACGAAGGGCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC200584 protein sequence
Red=Cloning site Green=Tags(s)

MAAPVDLELKKAFTELQAKVIDTQQKVKLADIQIEQLNRTKKHAHLTDTEIMTLVDETNMYEGVGRMFIL
QSKEAIHSQLLEKQKIAEEKIKELEQKKSYLERSVKEAEDNIREMLMARRAQ

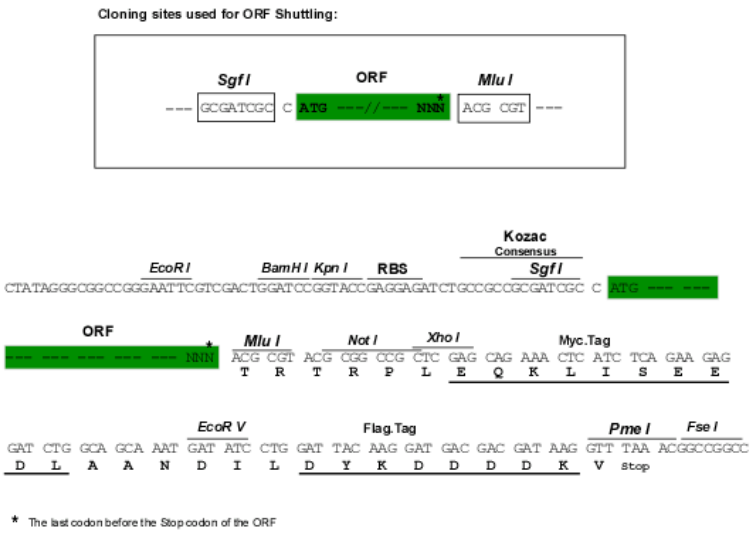
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6555_e04.zip

**Restriction Sites:** SgfI-MluI

View online »

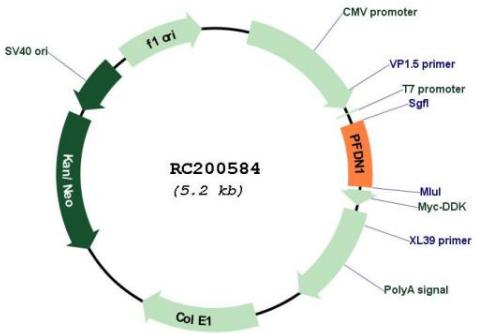
**Cloning Scheme:**



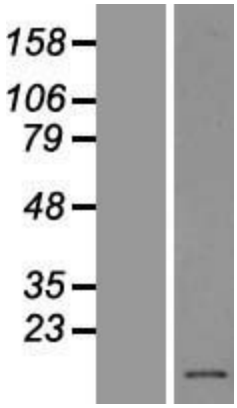

| | |
|---|---|
| **ACCN:** | NM_002622 |
| **ORF Size:** | 366 bp |
| **OTI Disclaimer:** | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **RefSeq:** | NM_002622.5 |
| **RefSeq Size:** | 1324 bp |

| | |
|---|---|
| **RefSeq ORF:** | 369 bp |
| **Locus ID:** | 5201 |
| **UniProt ID:** | O60925 |
| **Cytogenetics:** | 5q31.3 |
| **Protein Families:** | Transcription Factors |
| **MW:** | 14.2 kDa |
| **Gene Summary:** | This gene encodes a member of the prefoldin beta 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. [provided by RefSeq, Jul 2008] |

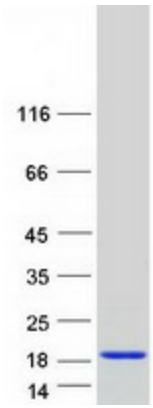
## Product images:




Circular map for RC200584




Western blot validation of overexpression lysate (Cat# [LY419197]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200584 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).




Coomassie blue staining of purified PFDN1 protein (Cat# [TP300584]). The protein was produced from HEK293T cells transfected with PFDN1 cDNA clone (Cat# RC200584) using MegaTran 2.0 (Cat# [TT210002]).