

Product datasheet for RC207901

PFD6 (PFDN6) (NM_014260) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PFD6 (PFDN6) (NM_014260) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PFD6
Synonyms: H2-KE2; HKE2; KE-2; PFD6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207901 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGAGCTGATCCAGAAGAAGCTACAGGGAGAAGTGGAGAAATATCAACAGCTACAGAAGGACTTAA
GTAATCCATGTCGGGGAGGCAGAACTGAAGCACAATAACAGAAAATAATATCGTGAAAGAGGAACT
GGCCCTGCTGGATGGGTCCAACGTGGTCTTTAACTTCTGGGTCCGGTGTAGTCAAACAGGAGCTGGGG
GAGGCTCGGGCCACAGTAGGGAAGAGGCTGGACTATATCACAGCTGAAATTAAGCGATACGAATCCCAGC
TTCGGGATCTTGAGCGGCAGTCAGAGCAACAGAGGGAGACCCCTTGCTCAGCTGCAGCAGGAGTTCAGCG
GGCCAGGCAGCAAAGGCAGGGGCTCCTGGCAAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207901 protein sequence
Red=Cloning site Green=Tags(s)
MAELIQKKLQGEVEKYQLQKDLKSSMSGKQKLEAQLTENNIIVKEELALLDGSNVVFKLLGPVLYKQELG
EARATVGKRLDYITAEIKRYESQLRDLERQSEQQRETLAQLQDEFQRAQAAKAGAPGKA

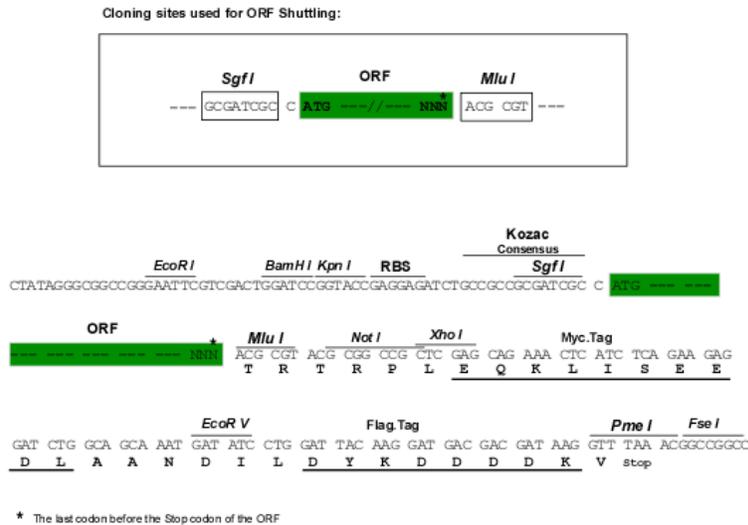
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6338_a04.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_014260

ORF Size: 387 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014260.3](#)

RefSeq Size: 602 bp

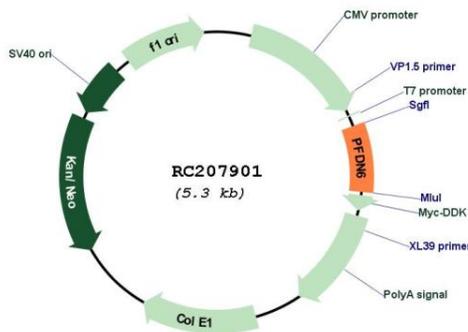
RefSeq ORF: 390 bp

Locus ID: 10471
 UniProt ID: [O15212](#)
 Cytogenetics: 6p21.32

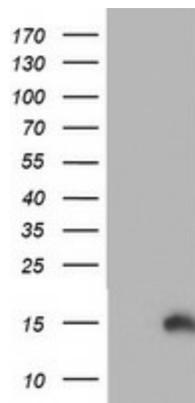
Domains: KE2
 Protein Families: Stem cell - Pluripotency
 MW: 14.6 kDa

Gene Summary: PFDN6 is a subunit of the heteromeric prefoldin complex that chaperones nascent actin (see MIM 102560) and alpha- and beta-tubulin (see MIM 602529 and MIM 191130, respectively) chains pending their transfer to the cytosolic chaperonin containing TCP1 (MIM 186980) (CCT) complex (Hansen et al., 1999 [PubMed 10209023]).[supplied by OMIM, Jul 2010]

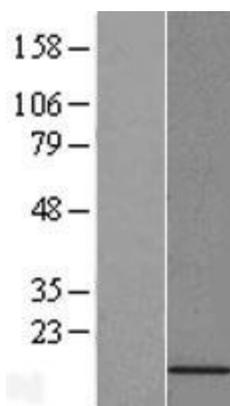
Product images:



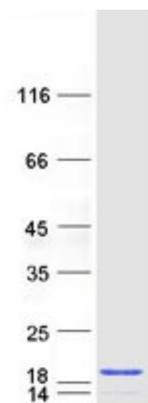
Circular map for RC207901



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PFDN6 (Cat# RC207901, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PFDN6(Cat# [TA504110]). Positive lysates [LY415391] (100ug) and [LC415391] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415391]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207901 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PFDN6 protein (Cat# [TP307901]). The protein was produced from HEK293T cells transfected with PFDN6 cDNA clone (Cat# RC207901) using MegaTran 2.0 (Cat# [TT210002]).