

## Product datasheet for **RC231742**

### **PFD6 (PFDN6) (NM\_001185181) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PFD6 (PFDN6) (NM\_001185181) 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:** >RC231742 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGCTGATCCAGAAGAAGCTACAGGGAGAAGTGGAGAAATATCAACAGCTACAGAAGGACTTAA  
GTAATCCATGTCGGGGAGGCAGAACTGAAGCACAATAACAGAAAATAATATCGTGAAGAGGAACT  
GGCCCTGCTGGATGGGTCCAACGTGGTCTTTAACTTCTGGGTCCGGTGTAGTCAAACAGGAGCTGGGG  
GAGGCTCGGGCCACAGTAGGGAAGAGGCTGGACTATATCACAGCTGAAATTAAGCGATACGAATCCCAGC  
TTCGGGATCTTGAGCGGCAGTCAGAGCAACAGAGGGAGACCCTTGCTCAGCTGCAGCAGGAGTTCAGCG  
GGCCAGGCAGCAAAGGCAGGGGCTCCTGGCAAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231742 protein sequence  
**Red=Cloning site Green=Tags(s)**  
MAELIQKKLQGEVEKYQLQKDLKSSMSGRQKLEAQLTENNIIVKEELALLDGSNVVFKLLGPVLYKQELG  
EARATVGKRLDYITAEIKRYESQLRDLERQSEQQRETLAQLQDEFQRAQAAKAGAPGKA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6338\\_a04.zip](https://cdn.origene.com/chromatograms/mk6338_a04.zip)

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:



ACCN: NM\_001185181

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.

RefSeq: [NM\\_001185181.3](#)

RefSeq Size: 705 bp

RefSeq ORF: 390 bp

Locus ID: 10471

UniProt ID: [O15212](#)

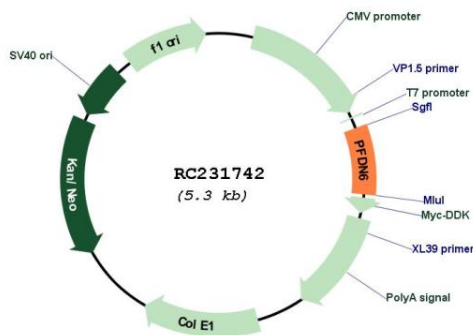
**Cytogenetics:** 6p21.32

**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 RC231742