

Product datasheet for RC204553

PFDN2 (NM_012394) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PFDN2 (NM_012394) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PFDN2
Synonyms: PFD2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204553 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGAACAGCGGTCGCGCCGGCAAGAGCAGCGGGAGCGGCGGGGAAGGGGGCGGTGTCCGCAG
 AGCAGGTGATTGCTGGCTTCAACCGCCTTCGGCAGGAACAGCGAGGCCTGGCATCCAAAGCAGCTGAGTT
 GGAGATGGAGTTGAATGAGCACAGCCTAGTGATCGATACACTGAAGGAGGTAGATGAAACTCGTAAGTGC
 TACCGCATGGTTGGAGGAGTGTGGTGGAGCGAACTGTCAAAGAGGTGCTGCCCGCTTTGGAGAACAACA
 AGGAGCAGATACAGAAGATCATTGAGACTGACACAGCAGCTTCAGGCAAAGGGAAAAGAACTAAATGA
 ATTCCGGGAAAAGCACAACATTCGTCTCATGGGAGAAGATGAGAAGCCAGCAGCCAAGGAAAAGCTAGAA
 GGGGCTGGGGCTAAGCCAGCTCAGCTGGAGTGTGGTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204553 protein sequence
 Red=Cloning site Green=Tags(s)

MAENSGRAGKSSGSGAGKGAVSAEQVIAGFNRLRQEQRLASKAAELEMELNEHSLVIDTLKEVDETRKC
 YRMVGGVVERTVKEVLPALENNKEIQIKIETLTQQLQAKGKELNEFREKHNIRLMGEDEKPAAKENSE
 GAGAKASSAGVLVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

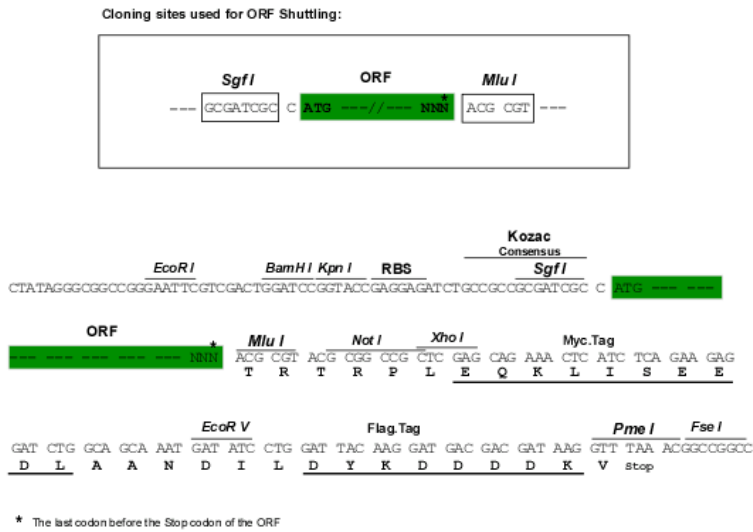
Chromatograms: https://cdn.origene.com/chromatograms/mk6325_h07.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012394

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.

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

RefSeq: [NM_012394.4](#)

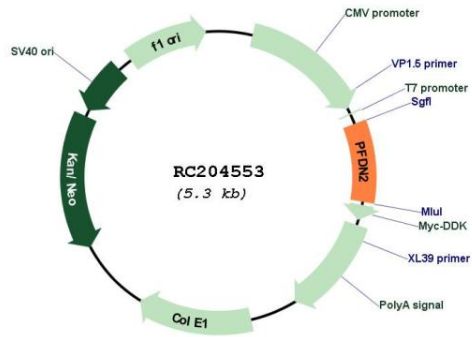
RefSeq Size: 668 bp

RefSeq ORF: 465 bp

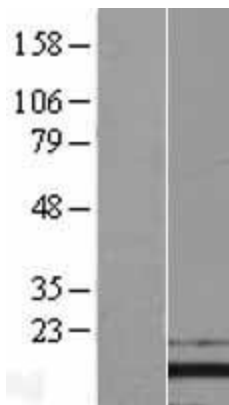
Locus ID: 5202
UniProt ID: [Q9UHV9](#)
Cytogenetics: 1q23.3
Domains: KE2
MW: 16.6 kDa

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]

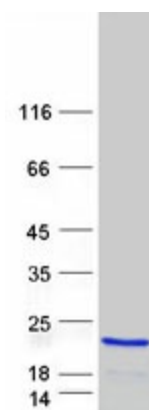
Product images:



Circular map for RC204553



Western blot validation of overexpression lysate (Cat# [LY415791]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204553 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PFDN2 protein (Cat# [TP304553]). The protein was produced from HEK293T cells transfected with PFDN2 cDNA clone (Cat# RC204553) using MegaTran 2.0 (Cat# [TT210002]).