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Product datasheet for RC203137

PFDN4 (NM_002623) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PFDN4 (NM_002623) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PFDN4
Synonyms:	C1; PFD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203137 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCACCATGAAGAAGGCGGCTGCAGAAGATGTCAATGTTACTTTCGAAGATCAACAAAAGATAA
ACAAATTTGCACGGAATACAAGTAGAATCACAGAGCTGAAGGAAGAAATAGAAGTAAAAAAGAAACAACT
CCAAAACCTAGAAGATGCTTGTGATGACATCATGCTTGCAGATGATGATTGCTTAATGATACCTTATCAA
ATTGGTGATGTCTTCATTAGCCATTCTCAAGAAGAAACGCAAGAAATGTTAGAAGAAGCAAAGAAAAATT
TGCAAGAAGAAATTGACGCCTTAGAATCCAGAGTGGAATCAATTCAGCGAGTGTTAGCAGATTTGAAAGT
TCAGTTGTATGCAAAATTCGGGAGCAACATAAACCTTGAAGCTGATGAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203137 protein sequence
Red=Cloning site Green=Tags(s)

MAATMKKAAAEDVNVTFEDQQKINKFARNTSRITELKEEIEVKKKQLQNLEDACDDIMLADDDCLMIPYQ
IGDVFISHSQEETQEMLEEAKKNLQEEIDALESRVESIQRVLADLKVQLYAKFGSNINLEADES

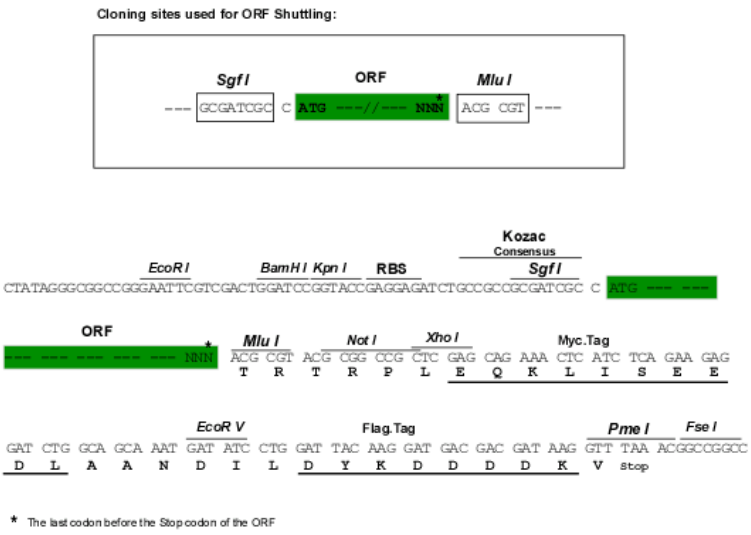
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6434_a12.zip

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_002623

ORF Size: 402 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_002623.4

RefSeq Size: 1383 bp

RefSeq ORF: 405 bp

Locus ID: 5203

UniProt ID: Q9NQP4

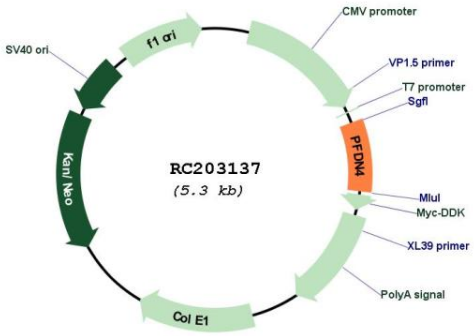
Cytogenetics: 20q13.2

Domains: KE2

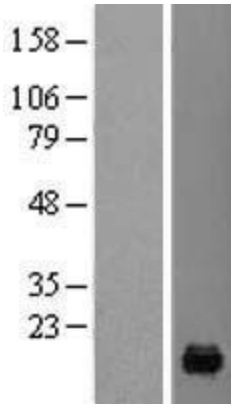
MW: 15.3 kDa

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]

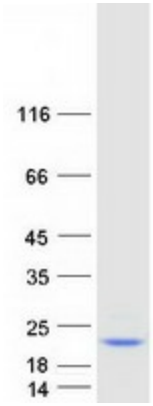
Product images:



Circular map for RC203137



Western blot validation of overexpression lysate (Cat# [LY419198]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203137 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PFDN4 protein (Cat# [TP303137]). The protein was produced from HEK293T cells transfected with PFDN4 cDNA clone (Cat# RC203137) using MegaTran 2.0 (Cat# [TT210002]).