

Product datasheet for RC208482

PFDN3 (VBP1) (NM_003372) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PFDN3 (VBP1) (NM_003372) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PFDN3
Synonyms: HIBBJ46; PFD3; PFDN3; VBP-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC208482 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCCGTTAAGGACAGTTGTGGCAAAGGAGAAATGGCCACAGGGAATGGCGCGCGCTCCACCTGG
 GGATTCCTGAGGCCGTGTTGTGGAAGATGTAGATTCCTTCATGAAACAGCCTGGGAATGAGACTGCAGA
 TACAGTATTAAGAAGCTGGATGAACAGTACCAGAAGTATAAGTTTATGGAACCAACCTTGCTCAAAG
 AAAAGAAGGCTAAAAGGTCAGATTCCTGAAATTAACAGACTTTGGAAATCTAAAATACATGCAGAAGA
 AAAAGAGTCCACCAACTCAATGGAGACCAGATTCCTGCTGGCAGATAACCTGTATTGCAAAGCTTCAGT
 TCCTCCTACCGATAAAGTGTGTCTGTGGTTGGGGCTAATGTAATGCTTGAATATGATATTGATGAAGCT
 CAGGCATTGTTGAAAAGATTTATCGACTGCCACAAAGAATCTTGATTCCTGGAGGAAGACCTTGACT
 TTCTTCGAGATCAATTTACTACCACAGAAGTCAATATGGCCAGGGTTTATAATTGGGATGTAAAAAGAAG
 AAACAAGGATGACTCTACCAAGAACAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208482 protein sequence
 Red=Cloning site Green=Tags(s)

MAAVKDSCGKGEMATGNRRLLHLGIPEAVFVEDVDSFMKQPGNETADTVLKKLDEYQYKFMELNLAQK
 KRRLKGQIPEIKQTLIILKYMQKKKESTNSMETRFLADNLYCKASVPPTDKVCLWLGANVMLEYDIDEA
 QALLEKNLSTATKNLDSLEEDLDFLRDQFTTTEVNMARVYNWDVKRRNKDDSTKNKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6349_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003372

ORF Size: 591 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_003372.7](#)

RefSeq Size: 1643 bp

RefSeq ORF: 594 bp

Locus ID: 7411

UniProt ID: [P61758](#)

Cytogenetics: Xq28

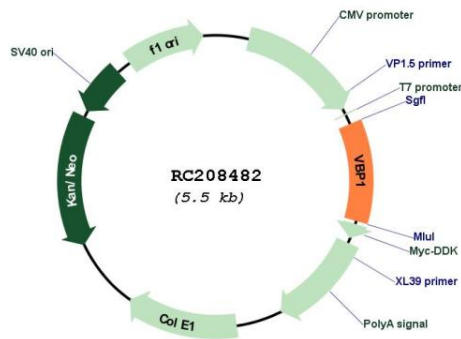
Domains: DUF232

Protein Families: Druggable Genome

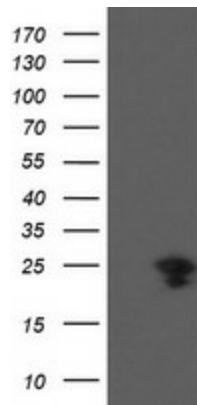
MW: 22.6 kDa

Gene Summary: The protein encoded by this gene interacts with the Von Hippel-Lindau protein to form an intracellular complex. The encoded protein functions as a chaperone protein, and may play a role in the transport of the Von Hippel-Lindau protein from the perinuclear granules to the nucleus or cytoplasm. Alternative splicing and the use of alternate transcription start sites results in multiple transcript variants encoding different protein isoforms. [provided by RefSeq, Jan 2015]

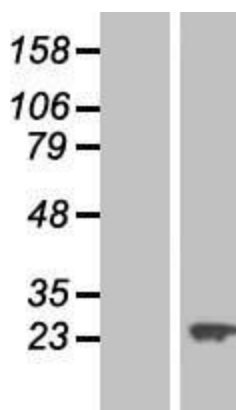
Product images:



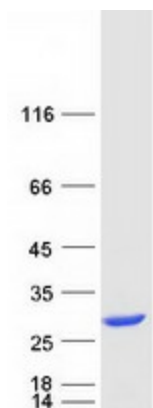
Circular map for RC208482



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY VBP1 (Cat# RC208482, 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-VBP1 (Cat# [TA504914]). Positive lysates [LY418727] (100ug) and [LC418727] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418727]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208482 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VBP1 protein (Cat# [TP308482]). The protein was produced from HEK293T cells transfected with VBP1 cDNA clone (Cat# RC208482) using MegaTran 2.0 (Cat# [TT210002]).