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Product datasheet for RC220285

PPFIBP1 (NM_003622) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPFIBP1 (NM_003622) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPFIBP1
Synonyms:	hSGT2; hSgt2p; L2; SGT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220285 representing NM_003622
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGAGTGATGCAAGTGACATGTTGGCTGCAGCGTTGGAGCAGATGGATGGTATCATAGCAGGTTCTA
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GACACCTCCATGGATGACAACCCCTTCGGCACTCGAAAAGTCAGATCTTCCTTTGGCCGGGGCTTTTTTA
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Protein Sequence:

>RC220285 representing NM_003622
Red=Cloning site Green=Tags(s)

MMSDASDMLAAALEQMDGIIAGSKALEYSNGIFDCQSPTSPFMGSLRALHLVEDLRGLLEMMETDEKEGL
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RLKVSEMDSERLQYEKKLKSTKDELASLKEQLEEKESEVKRLQEKLVCKMKGEGVEIVDRDENFKKKLKE
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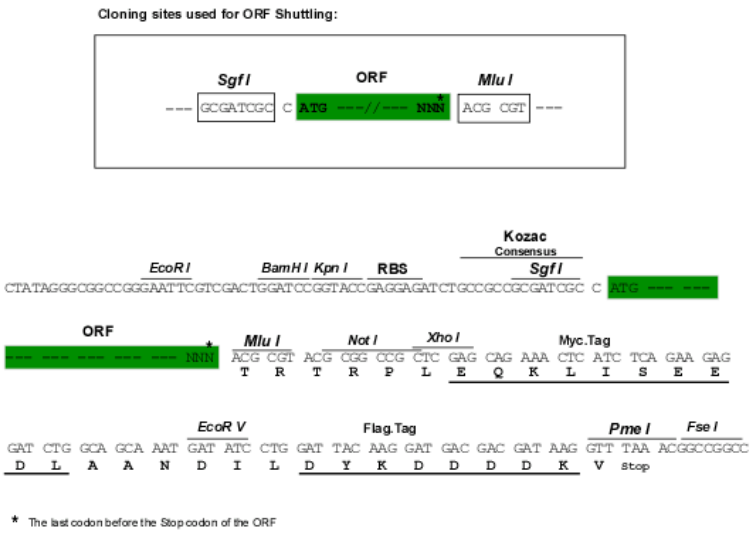
Chromatograms: https://cdn.origene.com/chromatograms/mg2850_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003622

ORF Size: 3015 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

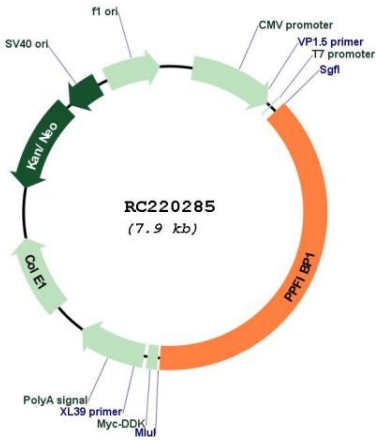
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

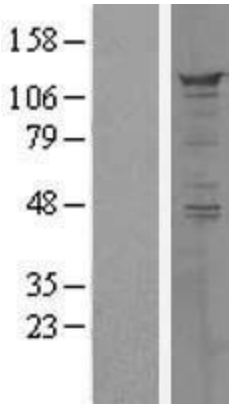
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_003622.4
RefSeq Size:	6076 bp
RefSeq ORF:	3018 bp
Locus ID:	8496
UniProt ID:	Q86W92
Cytogenetics:	12p11.23-p11.22
Domains:	SAM, integrase_DNA
MW:	113 kDa
Gene Summary:	The protein encoded by this gene is a member of the LAR protein-tyrosine phosphatase-interacting protein (liprin) family. Liprins interact with members of LAR family of transmembrane protein tyrosine phosphatases, which are known to be important for axon guidance and mammary gland development. It has been proposed that liprins are multivalent proteins that form complex structures and act as scaffolds for the recruitment and anchoring of LAR family of tyrosine phosphatases. This protein was found to interact with S100A4, a calcium-binding protein related to tumor invasiveness and metastasis. In vitro experiment demonstrated that the interaction inhibited the phosphorylation of this protein by protein kinase C and protein kinase CK2. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

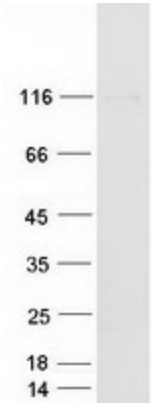
Product images:



Circular map for RC220285



Western blot validation of overexpression lysate (Cat# [LY418540]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220285 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPFIBP1 protein (Cat# [TP320285]). The protein was produced from HEK293T cells transfected with PPFIBP1 cDNA clone (Cat# RC220285) using MegaTran 2.0 (Cat# [TT210002]).