

Product datasheet for **SC111708**

PPFIBP1 (NM_003622) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPFIBP1 (NM_003622) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPFIBP1
Synonyms:	hSGT2; hSgt2p; L2; SGT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003622, the custom clone sequence may differ by one or more nucleotides

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ATGATGAGTGATGCAAGTGACATGTTGGCTGCAGCGTTGGAGCAGATGGATGGTATCATAGCAGGTTCTA
AGGCTCTGGAATATTCCAATGGGATTTTGGATTGCCAATCTCCCACCTCTCCATTGATGGGAAGTTTGGC
AGCTCTGCACCTTGTGGAAGACCTGCGTGGATTGTTAGAGATGATGGAACAGATGAGAAAGAAGGCTTG
AGATGCCAGATCCCAGATTCAACAGCAGAAACGCTTGTGAATGGCTTCAGAGTCAAATGACAAATGGAC
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TCTTCAGGTAAGTGTGTTAACAGACCAGGTGGAGGCTCAGGGAGAGAAGATTGAGATTTGGAGTTTGT
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CCTTAGAACTCAGAAGTTGGATCTGATGGCTGAAATATCTAAGTTGAAGTTGAACTGACAGCTGTAGA
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AGGTTAAAAGTTAGTGAAATGGACAGTGAGAGACTTCAGTATGAAAAAAGCTTAAATCAACCAAAGATG
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TTGCAAGATGAAAGGAGAAGGGGTTGAAATTGTTGATAGAGATGAAAAATTTAAAAAGAAGCTCAAAGAA
AAAAACATCGAAGTACAAAAATGAAAAAGCTGTGGAGTCTTGATGGCAGCAAATGAAGAAAAGGATC
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GCTTGGGCTCGTACCTGAATTCTGGCAAGCACTGGATTGCATCTGGCCAAACGCTTTTGACAGGCTTCTCA
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ACGTTTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003622 unedited
 GTGCAAATTTTGTAAACGACTCACTATAGGGCGGCNCGCGATTCCGGCAGAGGGGATCA
 CTTTGCTGAGTACATCCAAGATTGAAGAACTGAAATAAATCAGCTTTAAACCTGCTTTT
 TAAAAATATCTGGGTTGGAATTTGCCCCTGACAAATAATAAATGATGAGTGATGCAAGT
 GACATGTTGGCTGCAGCGTTGGAGCAGATGGATGGTATCATAGCAGGTTCTAAGGCTCTG
 GAATATTCCAATGGGATTTTGTATTGCCAATCTCCACCTCTCCATTCATGGGAAGTTTG
 CGAGCTCTGCACCTTGTGGAAGACCTGCGTGGATTGTTAGAGATGATGGAAACAGATGAG
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 GAGAAGGACAGATTGGATTATGAAAGATAAGTCAGAGACACAGAGGGGCTGATTCANGAG
 ATCAATGATNTGAGGTTAANAGTTAGTGAATGGACAGTGAGAGACTTCAGTATGAAAAA
 AAGCTTAATCAACCAAGATGAACTGGCATCTTTAAAGAACCACTAGAGAAAAGGAAATCT
 GAGTAAAAAGCTACAGAAAAATGGGTTGCAGAATGAAGAAGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003622 unedited
 NNTAGCTCTGGACCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTATGTA
 CTGTATATATACATATATTTAGAAAATATATAAAAAAAGACAATAAGAGGCAAGTGGAG
 GTGTGGCTGGCATTTAGTGGGCACACTGAATGCTTAAAGAAGTTCCACATATTGATTCTG
 AAATCATATAATGTCCTACTTAGGTGGCTACAGTGAACACTGATGTAACAAAATCATTCA
 CATCCTGGTTACTGTTCCCTCAAATCCTCCATACCGCGGATATGAATGGAACACTCTGGT
 AAAATACTCATCTTAAATGCAACACTTTAAATATAATATATCACAGATTTTACATTAA
 TAGAAGAAAAACAATTATACTCTCATTACCAAGTGTCTTATTTTTTGTGGCAACTTCAGA
 ATCGGCACATTACTCCTGCTTTCTGTTTAACTTCTCGACAGCAGAAGTTGGAACAACAA
 ACAATAGACAATCCGCTGCCTGTTGTATATACTGTGAGTGTGTTGAAAAGCAAGTAGAAA
 AAAGACTAAGCACTCCTAATGTTTCATCCAGGTGCTACGGTCAAACGTTTGAGTCTTCATC
 TGTAAATGCTGGCACTGGGGGAACGGGCAGCAAAATCTTTAAACATGTCATCTTCTTTTAA
 CATGTGCGTCAGATTGTTGATGCCTTCAGAGAATGCACCTATCTGTCTCACTGTCCCTTC
 TGAATCTTCCATCTGCTCTAACCAGTCCAAATCATCTTCTCATACAGGTGCATATNCCA
 ACCAGGTTTAAATCCTTTCTTAGATGCACTTCTGATGCCTGTCCCAATTCCATTGGACA
 ACATATTCTTCACCATCTTCTGTTCTTCTTCTCAAATCCCAAAATGCTAAAGGCAAGT
 TCTTTGGCTCACTTNTGCAGTACTGTTAAATAC

Restriction Sites:

NotI-NotI

ACCN:

NM_003622

Insert Size:

3750 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](#)

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_003622.2](#), [NP_003613.2](#)

RefSeq Size: 6076 bp

RefSeq ORF: 3018 bp

Locus ID: 8496

UniProt ID: [Q86W92](#)

Cytogenetics: 12p11.23-p11.22

Domains: SAM, integrase_DNA

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]

Transcript Variant: This variant (1) has multiple differences in the coding sequence compared to variant 2. The resulting isoform (1) has the same N- and C-termini but is 6 aa shorter compared to isoform 2.