

## Product datasheet for **RG220285**

### PPFIBP1 (NM\_003622) Human Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | PPFIBP1 (NM_003622) Human Tagged ORF Clone                                  |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | PPFIBP1                                                                     |
| Synonyms:                 | hSGT2; hSgt2p; L2; SGT2                                                     |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG220285 representing NM_003622<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGAGTGATGCAAGTGACATGTTGGCTGCAGCGTTGGAGCAGATGGATGGTATCATAGCAGTTCTA  
 AGGCTCTGGAATATTTCAATGGGATTTTGTATTGCCAATCTCCACCTCTCCATTCATGGGAAGTTTGC  
 AGCTCTGCACCTTGTGGAAGACCTGCGTGGATTGTTAGAGATGATGGAACAGATGAGAAAGAAGGCTTG  
 AGATGCCAGATCCAGATTCAACAGCAGAAACGCTTGTGAATGGCTTCAGAGTCAAATGACAAATGGAC  
 ACCTACCGGGAACGGAGATGTGTATCAAGAAAGGCTGGCAGCTTAGAAAATGATAAAGAATCCCTCGT  
 TCTTCAGGTAAGTGTGTTAACAGACCAGGTGGAGGCTCAGGGAGAGAAGATTCGAGATTTGGAGTTTGT  
 CTTGAAGAGCACAGAGAGAAGGTGAATGCCACAGAAGAAATGCTGCAGCAGGAGCTTCTAAGTAGGACAT  
 CCTTAGAACTCAGAAGTTGGATCTGATGGCTGAAATATCTAACTTGAAGTTGAACTGACAGCTGTAGA  
 GAAGGACAGATTGGATTATGAAGATAAGTTCAGAGACACAGAGGGGCTGATTCAGGAGATCAATGATTTG  
 AGGTAAAAAGTTAGTGAAATGGACAGTGAGAGACTTCAGTATGAAAAAAGCTTAAATCAACCAAAGATG  
 AACTGGCATCTTTAAAGAACAACCTAGAAGAAAAGGAATCTGAAGTAAAAAGGCTACAAGAAAAATTGGT  
 TTGCAAGATGAAAGGAGAAGGGTTGAAATTGTTGATAGAGATGAAAATTTTAAAAAGAAGCTCAAAGAA  
 AAAAAATCGAAGTACAAAAATGAAAAAGCTGTGGAGTCCTTGATGGCAGCAAATGAAGAAAAGGATC  
 GGAAAAATAGAAGATCTTCGACAGTGCCTGAACAGGTACAAGAAAATGCAAGACACGGTGGTACTGGCCCA  
 AGGTAAAAAAGGCAAGATGGAGAATATGAAGAGCTGCTCAATTCAGTTCATCTCCTCTTTGCTGGAT  
 GCACAGGGTTTCAGTGATCTGGAGAAAAGTCCATCACCCACTCCAGTAATGGGATCTCCAGTTGTGACC  
 CATTTAACACAAGTGTTCCCGAAGAGTTCATACTACCATCTTGCAAGTTTCCATCCCTTCATTATTGCC  
 AGCAACTGTAAGCATGGAACCTCTGAAAAATCAAAGTTGACTCCTAAGCCAGAGACTTCATTTGAAGAA  
 AATGATGGAAACATAATCCTTGGTGCCACTGTTGATACCAACTGTGTGATAAACTTTAACTTCAAGTC  
 TGCAGAAGTCCAGCAGCCTGGGCAATCTGAAGAAAGAGACATCTGATGGGAAAAGGAACTATTCAGAA  
 GACTTCAGAGGACAGAGCTCCGGCAGAAAGCAGGCCATTTGGGACCTTCTCCAGGCCCCAGGGCAG


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GACACCTCCATGGATGACAACCCCTTCGGCACTCGAAAAGTCAGATCTTCCTTTGGCCGGGGCTTTTTTA  
 AAATCAAAAGTAACAAGAGAACGCAAGTGCACCAAACTTAGATCGTAAACGAAGTGCCAGTGCACCCAC  
 CCTAGCTGAAACAGAAAAAGAGACAGCAGACCTAGATCTGGCTGGTCTTCTTCGGCCAAAAGAT  
 TCACAGAGGAACAGTCCCTTCCAGATACCGCTCCATCTCCAGATTCCAAAAAGAAATCCAGAGGTATCA  
 TGAAACTCTTTGAAAACTTAGGAGAAGTCAATCAACTACATTCAACCCAGATGACATGTCTGAGCCTGA  
 ATTCAAAAGAGGAGGACAAGGGCAACCGCGGGGCCCCGATTAGGTTGGTCTCGAGACTTGGGACAGTCT  
 AACAGTGACTTGGATATGCCATTTGCCAAGTGGACCAAGGAGCAGGTTTGCAATTGGCTGATGGAACAGG  
 GCTTGGGCTCGTACCTGAATTCTGGCAAGCACTGGATTGCATCTGGCCAAACGCTTTTGACGGCTTCTCA  
 ACAAGATCTAGAGAAGGAACCTGGAATCAAGCATTCACTTCATCGAAAAGAACTCCAGCTAGCACTCCAA  
 GCCCTGGGATCTGAAGAAGAAACCAATCATGGGAAGCTGGATTTCAACTGGGTCACTAGATGGTTGGATG  
 ACATTGGCTCCCTCAATATAAGACCCAGTTTGATGAAGGACGGGTTGATGGTGAATGCTACATTACAT  
 GACTGTTGATGACTTACTGTCTCTGAAGGTTGTAAGTGTCTACACCATCTCAGTATCAAAAGGGCCATC  
 CAGGTCTGAGGATCAATAACTTTGAACCAAACTGTCTACGGAGCGGCCATCTGATGAGAATACCATCG  
 CCCCATCAGAAGTTCAGAAGTGGACTAACCATCGAGTGTGGAGTGGCTGCGCTCCGTGGACTTGGCAGA  
 ATATGCGCCCAATCTCAGAGGCAGTGGTGTCCATGGTGGGCTCATGGTTCTAGAGCTCGTTTTAACGTA  
 GAAACAATGGCTCAGTTATTGAACATCCACCCAATAAGACTTTGCTGCGAAGACATTTGGCCACTCATT  
 TCAACCTTCTGATTGGGGCTGAGGCACAGCACCAGAAGCGAGATGCCATGGAGCTGCCGGATTATGTACT  
 TCTAACAGCTACTGCCAAAGTGAAGCCAAAGAACTTGCTTTAGCAATTTTGGGAATTTGAGAAAGAAG  
 AAACAGGAAGATGGTGAAGAATATGTTTGTCCAATGGAATTGGGACAGGCATCAGGAAGTGCATCTAAGA  
 AAGGATTTAACTGGTTTGGATATGCGCTGTATGAGGAAGATGTTTGGACCGGTTAGAGCAGATGGA  
 AGATTGAGAAGGACAGTGAGACAGATAGGTGCATTCTCTGAAGGCATCAACAATCTGACGCACATGTTA  
 AAAGAAGATGACATGTTTAAAGATTTGCTGCCGTTCCCCCAGTGCCAGCATTACAGATGAAGACTCAA  
 ACGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG220285 representing NM\_003622

Red=Cloning site Green=Tags(s)

MMSDASDMLAAALEQMDGIIAGSKALEYSNGIFDCQSPTSPFMGSLRALHLVEDLRGLLEMMETDEKEGL  
 RCQIPDSTAETLVEWLQSQMTNGHLPNGDVYQERLARLENDKESLVLQVSVLTDQVEAQGEKIRDLEFC  
 LEEHREKVNATEEMLQQELLRTSLETQKLDLMAEISNLKLTAVEKDRLDYEDKFRDTEGLIQEINDL  
 RLKVSEMDSERLQYEKKLKSTKDELASLKEQLEEKESVLRKLEKLVCMMKGEGVEIVDRDENFKKKLKE  
 KNIEVQKMKKAVESLMAANEEKDRKIEDLRQCLNRYKKMQDTVVLAQGGKGDGEYEELLNSSSISSLLD  
 AQGFSLEKSPSPTPVMGSPSCDPFNTSVPEEFHTTILQVSIPLPATVSMETSEKSLTPKPETSFE  
 NDGNIILGATVDTQLCDKLLTSSLQKSSSLGNLKKETSDGEKETIQKTSEDRAPAESRPFGLPPRPPGQ  
 DTSMDNPFGRKVRSSFGRGFFIKSNKRTASAPNLDRKRSASAPTLAETEKETAHLDLAGASSRPKD  
 SQRNSPFQIPPPSPDSKKKSRGIMKLFGLRRSQSTTFNPDDMSEPEFKRGGTRATAGPRLGWSRDLGQS  
 NSDLMPFAKWTKEQVCNWLMEQLGSLNSGKHWHIASGQTLQASQDLEKELGIKHSLSHRKKLQLALQ  
 ALGSEETNHGKLDFNWVTRWLDIGLPQYKTQFDEGRVDGRMLHYMTVDLLSLKVSVLHHLHSIKRAI  
 QVLRINNFEPNCLRRRPSDENTIAPEVQKWTNHRVMEWLRSDLAEYAPNLRGSGVHGGLMVLEPRFNV  
 ETMAQLLNIPPNKTLRRHLATHFNLLIGAEAQHQKRDAMELPDYVLLTATAKVKPKKLAFAFNGLRKK  
 KQEDGEYVCPMELGQASGSASKKGFKPGLDMRLYEEDDLDRLEQMEDSEGTVRQIGAFSEGINNLTHML  
 KEDDMFKDFAARSPSASITDEDSNV

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-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](mailto: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.

**RefSeq:** [NM\\_003622.4](#)

**RefSeq Size:** 6076 bp

**RefSeq ORF:** 3018 bp

**Locus ID:** 8496

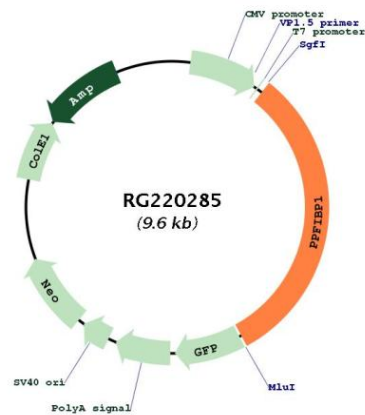
**UniProt ID:** [Q86W92](#)

**Cytogenetics:** 12p11.23-p11.22

**Domains:** SAM, integrase\_DNA

**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 RG220285