

## Product datasheet for **RG210925**

### PPFIA3 (NM\_003660) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPFIA3 (NM_003660) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPFIA3
Synonyms:	LPNA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210925 representing NM_003660 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGTGCGAGGTGATGCCACCATCAGCGAGGATGGCCGGCGGGGCTCGGCGCTGGGCCCGACGAGG  
CGGGCGGGGAGCTGGAGCGCCTCATGGTCACGATGCTCACGGAGCGGAGCGCCTGCTGGAGACGCTGCG  
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CAGCGCCAGCTCAGCATCGCGTGCCCCAGGAGTTTCAGCTCTGACGAAGGAGCTGAACCTATGTCGGG  
AGCAGCTGCTGGAGAGGGAGGAAGAGATTGCGAGCTGAAGGCGGAACGGAACAACACGCGGCTGCTCCT  
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CAGTCCCCGGGTGGGTCTCCTCGGAGGTAGAAGTGTCAAAGCTCTAAAGTCTCTCTTCGAGCACCACA  
AGGCCCTGGATGAGAAGGTCCGGGAGCGGCTGCGGATGGCGCTGGAGCGCGTGGCAGTGCTCGAGGAGGA  
GCTGGAATGAGCAATCAGGAGACTCTGAACCTTCGAGAACAGCTGTCTAGGCGGGCGTCAAGGCTGGAA  
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CAAAGTGGAGAACGAGTTAGCTAGCAAGGAGTCTGTTGATCGGCAGAGTGAAGAGAAGAGCCGTCAGCTG  
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GCTTACAGCTTCACTCAAGGAGCGCATGGGGCGCTGGAGGAGAAGAACTCCCTGAGCGAGGAGATAGC  
CAACATGAAGAAGCTTCAGGATGAGTTGCTGCTAAACAAGGAGCAGCTCTTGGCCGAATGGAGCGGATG



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CAGATGGAGATCGACCAGCTGCGGGGGAGGCCACCATCCTCCTACTCCAGGTCTCTCCCTGGCAGTGCCC  
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GCGGGAAGAAAGTCAGACCCAGATCCGAGACGTGATGGTGTGGTCCAATGAGCGGGTCATGGGTTGGGTG  
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CCGACTCAGCTGAGATGTTGCCCCCACTTTCGTTCCGGTGCAGCGGGAGCCCTGGGCTCTCCGGGGCT  
CCCTCTCCGCAAGCTGCAGCCAGAAGGCCAGACTTCTGGGAGTTCGGGGCAGACGGCGTTCGGTCCGG  
ACCTATTCTCTG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG210925 representing NM\_003660  
 Red=Cloning site Green=Tags(s)

MMCEVMPTISEDGRRGSALGPDEAGGELERLMVTMLTERERLLETLEAQQDGLATAQLRLRELGHEKDSL  
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 ARMLDHLNKKELRGQLKMVDSFHRVSLHYGIMCLKRLNYDRKDLERRREESQTQIRDVMVWSNERVMGWV  
 SGLGLKEFATNLTESGVHGALLALDETFDYSDLALLLQIPTQNAQARQLLEKEFSNLSISLGTDRRLDEDS  
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 TYSC

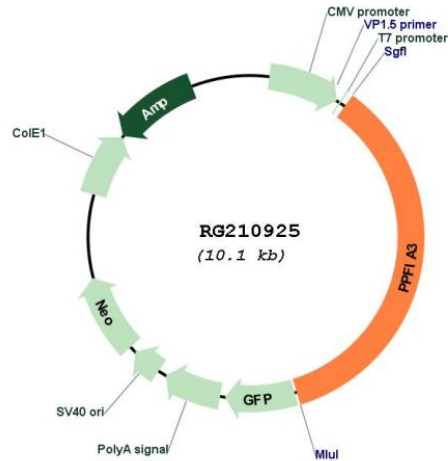
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_003660

**ORF Size:** 3582 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\\_003660.2](#), [NP\\_003651.1](#)

**RefSeq Size:** 4733 bp

**RefSeq ORF:** 3585 bp

**Locus ID:** 8541

**UniProt ID:** [O75145](#)

**Cytogenetics:** 19q13.33

**Protein Families:** Druggable Genome

**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. Liprin family protein has been shown to localize phosphatase LAR to cell focal adhesions and may be involved in the molecular organization of presynaptic active zones. [provided by RefSeq, Jul 2008]