

## Product datasheet for **SC331763**

### Liprin alpha 2 (PPFIA2) (NM\_001220478) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Liprin alpha 2 (PPFIA2) (NM\_001220478) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PPFIA2  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331763 representing NM\_001220478.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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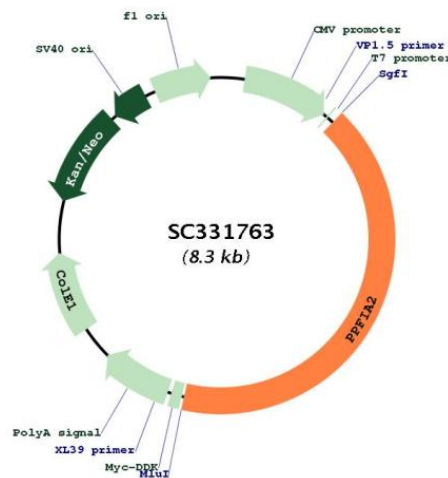


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Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN:

NM\_001220478

Insert Size:

3459 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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\\_001220478.2](#)

**RefSeq Size:** 5517 bp

**RefSeq ORF:** 3459 bp

**Locus ID:** 8499

**UniProt ID:** [O75334](#)

**Cytogenetics:** 12q21.31

**Protein Families:** Druggable Genome

**MW:** 131.6 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 has been shown to bind the calcium/calmodulin-dependent serine protein kinase (MAGUK family) protein (also known as CASK) and proposed to regulate higher-order brain functions in mammals. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]  
Transcript Variant: This variant (7) has multiple differences in the 5' UTR and coding region, compared to variant 1. It encodes isoform g, which is shorter and has a distinct N-terminus, compared to isoform a.