

## Product datasheet for **RC232734**

### Liprin alpha 2 (PPFIA2) (NM\_001220480) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Liprin alpha 2 (PPFIA2) (NM\_001220480) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PPFIA2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232734 representing NM\_001220480  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACTCACACTCTCCCTTCTTCTACCACAATGATGCTCGAAGTAGTTATCTGTCTCTCTTGAGCCAG  
AAAGCCTCGGGCTTGGTAGTGCCAACAGCAGCCAAGACTCTTTCACAAAGCCCCAAGAAGAAAGGAAT  
CAAGTCTTCAATAGGACGTTTGGTTGGTAAAAAAGAAAAAGCTCGACTTGGCAGCTCCGAGGCTTATG  
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GACTAAAGAAAAAGCATGAACTTCTGAAGAAGCTCGGAGAAAGGATTACCTTTTGCCAGTGGGATGG  
GCCAAGTGGTGCATGGCTAGAGCTTGGTTGGGAATGCCTGCGTGGTACGTGGCAGCCTGCCGAGCC  
AACGTGAAGAGTGGTGCCATCATGTCTGCTTTATCTGACTGAGATCCAGAGAGAAATTGGAATCAGCA  
ATCCACTGCATCGCTTAAACTTCGATTAGCAATCCAGGAGATGGTTCCCTAACAAGTCTTCAGCTCC  
TCCAACATCTCGAACTTGTCCGGTTTTCTACAGACCCTGGCTTATGGAGATATGAATCATGAGTGGATT  
GGAAATGAATGGCTTCCAGCTTGGGGTTACCTCAGTACAGAAGTTACTTTATGGAATGCTTGGTAGATG  
CAAGAATGTTAGATCACCTAACAAAAAAGATCTCCGTGTCCATTTAAAAATGGTGGATAGTTTCCATCG  
AACAAAGTTTACAATATGGAATTATGTGCTTAAAGAGGTTGAATTATGACAGAAAAGAACTAGAAAAGA  
CGGAAGCAAGCCAACATGAAATAAAAGACGTGTTGGTGTGGAGCAATGACCGAGTTATTCGCTGGATAC  
AAGCAATTGGACTTCGAGAATATGCAAATAATATACTTGAGAGCGGTGTGCATGGCTCACTTATAGCCCT  
GGATGAAAACCTTGGACTACAGCAGCTTAGCTTTATTATTACAGATTCCAACACAGAACCCAGGCAAGG  
CAGATTCTTGAAGAGAAATAACAATACCTTGGCCCTGGGAAGTAAAGGCGACTGGATGAAAAGTATG  
ACAAGAAGTTCAGACGTGGATCAACCTGGAGAAGGAGTTCCTCCTCGTGAAGTACATGGAATCAGCAT  
GATGCTGGGTCTCAGAAACATTACCAGCTGGATTTAGGTTAACCACAACCTCTGGGCAGTCAAGAAAA  
ATGACAACAGATGTTGCTTCATCAAGACTGCAGAGGTTAGACAACCTCACTGTTCCGACATACTCATGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232734 representing NM\_001220480  
 Red=Cloning site Green=Tags(s)

MTHTLPSSYHNDARSSLVSVLEPESLGLGSANSSQDSLHKAPKKKGIKSSIGRLF GKKEKARLGQLRGFM  
 ETEAAAQESLGLGKLTQAEKDRRLKKKHELLEEARRGLPFAQWDGPTVVAWLELWLGMPAWVAACRA  
 NVKSGAIMSALSDTEIQREIGISNPLHRLKRLRLAIQEMVSLTSPSAPPTSRTCVPVFLQTLAYGDMNHEWI  
 GNEWLPSLGLPQYRSYFMECLVDARMLDHLTKKDLRVHLKVMVDFHRTSLQYGI MCLKRLNYDRKELERR  
 REASQHEIKDVLVMSNDRVIRWIAIGLREYANNILESGVHGSLIALDENFDYSSLALLLQIPTQNTQAR  
 QILEREYNNLLALGTERRLDESDDKNFRRGSTWRRQFPFPPREVHGISMMPGSSETLPAGFRLTTTSGQSRK  
 MTTDVASSRLQRLDNSTVRTYSC

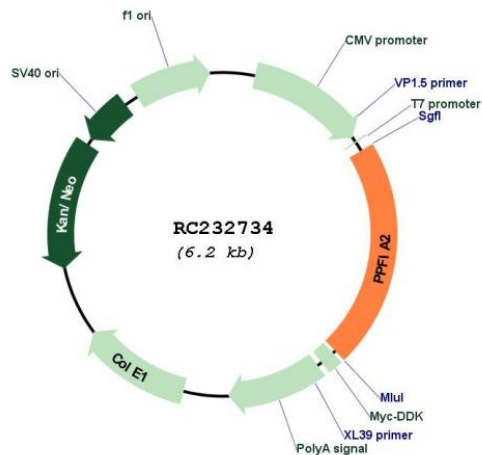
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_001220480
<b>ORF Size:</b>	1329 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001220480.2</a> , <a href="#">NP_001207409.1</a>
<b>RefSeq Size:</b>	4192 bp
<b>RefSeq ORF:</b>	1332 bp
<b>Locus ID:</b>	8499
<b>UniProt ID:</b>	<a href="#">O75334</a>
<b>Cytogenetics:</b>	12q21.31
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	50.7 kDa
<b>Gene Summary:</b>	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]