

Product datasheet for **RC233134**

Liprin alpha 2 (PPFIA2) (NM_001220479) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Liprin alpha 2 (PPFIA2) (NM_001220479) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPFIA2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC233134 representing NM_001220479
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGACATTTAGAGGGTCAACTTGAAGAGAAGAATCAAGAACTTCAAAGAGCTAGGCAAAGAGAGAAAA
 TGAATGAGGAGCATAACAAGAGATTATCGGATACGGTTGATAGACTTCTGACTGAATCCAATGAACGCCT
 ACAACTACACTTAAAGGAAAGAATGGCTGCTCTAGAAGAAAAGAATGTTTTAATTCAAGAATCAGAACT
 TTCAGAAAAGAACTTGAAGAATCTTTACATGATAAGGAAAGATTAGCAGAAGAAATTGAAAAGCTGAGAT
 CTGAACCTTGACCAATTGAAAATGAGAACTGGCTCTTTAATTGAACCCACAATACCAAGAACTCATCTAGA
 CACCTCAGCTGAGTTGCGGTACTCAGTGGGATCCCTAGTGGACAGCCAGTCTGATTACAGAACTAA
 GTAATAAGAAGACCAAGGAGAGGCCGATGGGTGTGCGAAGAGATGAGCCAAAGGTGAAATCTCTGGGG
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 GTCTGATATTGATGATGATGACAGAGAAAACAATTTTTAGCTCAATGGATCTTCTCTCTCCAAGTGGTCAT
 TCCGATGCCAGACGCTAGCCATGATGCTTCAGGAACAATTTGGATGCCATCAACAAAAGAAATCAGGCTAA
 TTCAGGAAGAAAAGAATCTACAGAGTTGCGTGTGAAGAAATGAAAATAGAGTGGCTAGTGTGAGCCT
 CGAAGGCCTGAATTTGGCAAGGGTCCACCCAGGTACCTCCATTACTGCCTCTGTTACAGCTTCATCGCTG
 GCCAGTTCATCTCCCCCAGTGGACTCAACTCAAAGCTCACCCCTCGAAGCCCTGCCAGGAAATGG
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 CAAGTCTTCAATAGGACGTTTGGTTGGTAAAAAAGAAAAAGCTCGACTTGGGCAGCTCCGAGGCTTTATG
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 AACGTGAAGAGTGGTCCATCATGTCTGCTTTATCTGACTGAGATCCAGAGAGAAATGGAATCAGCA
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 TCCAACATCTCGAACTTGTCCGTTTTTCTACAGACCCTGGCTTATGGAGATATGAATCATGAGTGGATT
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 GATGCCTGGGTCTCAGAAACATTACCAGCTGGATTTAGTTAACCACAACCTCTGGGCAGTCAAGAAAA
 ATGACAACAGATGATGGCGTCTTTTCAGTCTACTCTACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233134 representing NM_001220479
 Red=Cloning site Green=Tags(s)

MRHLEGQLEEKQELQRRARQREKMNEEHNKRLSDTVDRLLTESNERLQLHLKERMAALEEKNVLIQES
 FRKNLEESLHDKERLAEIEKLRSELDQLKMRGTSLIEPTIPRTHLDTSAELRYSVGSVDSQSDYRTTK
 VIRRRPRGRMGVRRDEPKVKSLGDHEWNRTQQIGVLSHPFESDTEMSDIDDDRETIFSSMDLLSPSGH
 SDAQTLAMMLQEQLDAINKEIRLIQEEKESTELRAEEIENRVASVSLEGLNLARVHPGTSITASVTASSL
 ASSPPSGHSTPKLTPRSPAREMDRMGMVTLPSDLRKHRRKIAVVEEDGREDKATIKCETSPPTPRALR
 MTHTLPPSSYHNDARSSLVSLPEPESLGLGSANSSQDSLHKAPKKKGIKSSIGRFLFGKKEKARLGQLRGM
 ETEAAAQESLGLGKLTQAEKDRRLKKKHELLEEARRGLPFAQWDGPTVVAWLELWLGMPAWYVAACRA
 NYKSGAIMSALSDTEIQREIGISNPLHRLKRLAIQEMVSLTSPSAPTSRTCPVFLQTLAYGDMNHEWI
 GNEWLPGLPQYRSYFMECLVDARMLDHLTKKDLRVHLKMDVDFHRTSLQYIMCLKRLNYDRKELERR
 REASQHEIKDVLVWSNDRVIRWIAIGLREYANNILESGVHGSLIALDENFDYSSLALLLQIPTQNTQAR
 QILEREYNLLALGTERRLDESDDKNFRRGSTWRRQFPREVHGISMMPGSSETLPAGFRLTTTSGQSRK
 MTTDDGVFVSYST

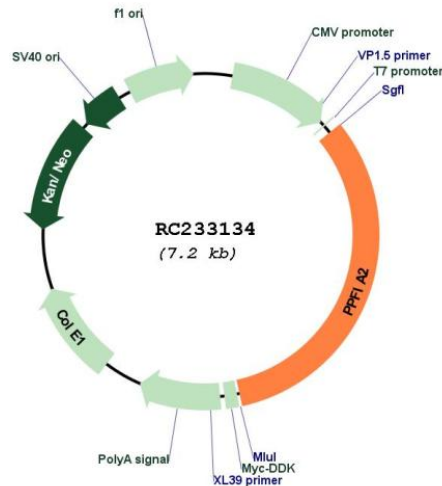
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001220479

ORF Size: 2349 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_001220479.3](#)

RefSeq Size: 4167 bp

RefSeq ORF: 2352 bp

Locus ID: 8499

UniProt ID: [O75334](#)

Cytogenetics: 12q21.31

Protein Families: Druggable Genome

MW: 89.5 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]