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Product datasheet for RC235191

Liprin alpha 2 (PPFIA2) (NM_001220478) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Liprin alpha 2 (PPFIA2) (NM_001220478) 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:	>RC235191 representing NM_001220478 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGATTTTCTCGGATATGAACACCGTTTCTGGCTCCCCTAAAGTGCATCCTCCTAATGGGACCCGGTTTT ACACTTTTCAAGAATTTGCTGCACTGACAAAAGAATTAAATGCCTGCAGGGAACAACTTCTAGAAAAGGA AGAAGAAATCTCTGAACTTAAAGCTGAAAGAAACAACACAAGACTATTACTGGAGCATTTGGAGTGCCTT GTGTCACGACATGAAAGATCACTAAGAATGACGGTGGTAAAACGGCAAGCCCAGTCTCCCTCAGGAGTAT CCAGTGAAGTTGAAGTTCTCAAGGCACTGAAATCTTTGTTTGAGCACCACAAGGCCTTGGATGAAAAGAT TGTTGCCTTGCGTGAACAAAATGTTCATATACAAAGAAAAATGGCATCAAGCGAGGGATCCACAGAGTCA GAACATCTTGAAGGGATGGAACCTGGACAGAAAGTCCATGAGAAGCGTTTGTCCAATGGTTCTATAGACT CAACCGATGAAACTAGTCAAATAGTTGAACTACAAGAATTGCTTGAAAAGCAAAACTATGAAATGGCCCA GATGAAAGAACGTTTAGCAGCCCTTTCTTCCCGAGTGGGAGAGGTGGAACAGGAAGCAGAGACAGCAAGA AAGGATCTCATTAAAACAGAAGAAATGAACACCAAGTATCAAAGGGACATTAGGGAGGCCATGGCACAAA AGGAAGATATGGAAGAAAGAATTACAACCCTTGAAAAGCGTTACCTCAGTGCTCAGAGAGAATCTACCTC CATACATGACATGAATGATAAACTAGAAAATGAGTTAGCAAATAAAGAAGCTATCCTGCGGCAGATGGAA GAGAAAAACAGACAGTTACAAGAACGTCTTGAGCTAGCTGAACAAAAGTTGCAGCAGACCATGAGAAAGG CTGAAACCTTGCCTGAAGTAGAGGCTGAACTGGCTCAGAGAATTGCAGCCCTAACCAAGGCTGAAGAGAG ACATGGAAATATTGAAGAACGTATGAGACATTTAGAGGGTCAACTTGAAGAGAAGAATCAAGAACTTCAA AGAGCTAGGCAAAGAGAGAAAATGAATGAGGAGCATAACAAGAGATTATCGGATACGGTTGATAGACTTC TGACTGAATCCAATGAACGCCTACAACTACACTTAAAGGAAAGAATGGCTGCTCTAGAAGAAAAGAATGT TTTAATTCAAGAATCAGAAACTTTCAGAAAGAATCTTGAAGAATCTTTACATGATAAGGAAAGATTAGCA GAAGAAATTGAAAAGCTGAGATCTGAACTTGACCAATTGAAAATGAGAACTGGCTCTTTAATTGAACCCA CAATACCAAGAACTCATCTAGACACCTCAGCTGAGTTGCGGTACTCAGTGGGATCCCTAGTGGACAGCCA GTCTGATTACAGAACAACTAAAGTAATAAGAAGACCAAGGAGAGGCCGCATGGGTGTGCGAAGAGATGAG CCAAAGGTGAAATCTCTTGGGGATCACGAGTGGAATAGAACTCAACAGATTGGAGTACTAAGCAGCCACC CTTTTGAAAGTGACACTGAAATGTCTGATATTGATGATGATGACAGAGAAACAATTTTTAGCTCAATGGA TCTTCTCTCTCCAAGTGGTCATTCCGATGCCCAGACGCTAGCCATGATGCTTCAGGAACAATTGGATGCC

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Protein Sequence:

>RC235191 representing NM_001220478
Red=Cloning site Green=Tags(s)

MIFSDMNTVSGSPKVHPPNGTRFYTFQEFAALTKELNACREQLLEKEEEISELKAERNNTRLLLEHLECL
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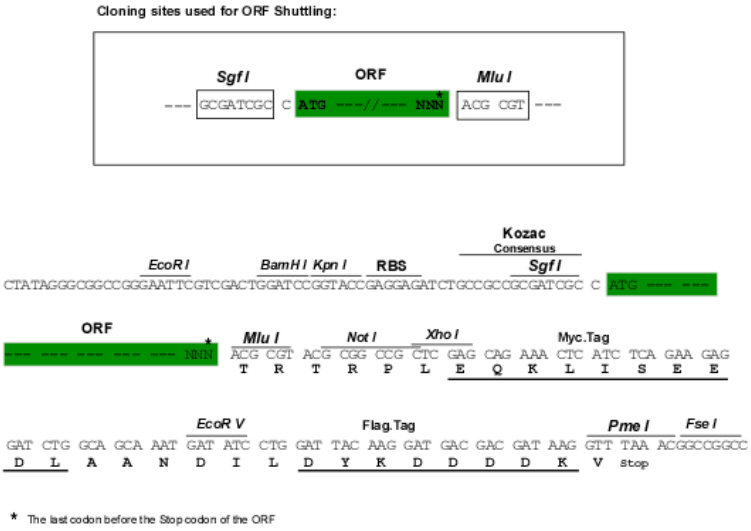
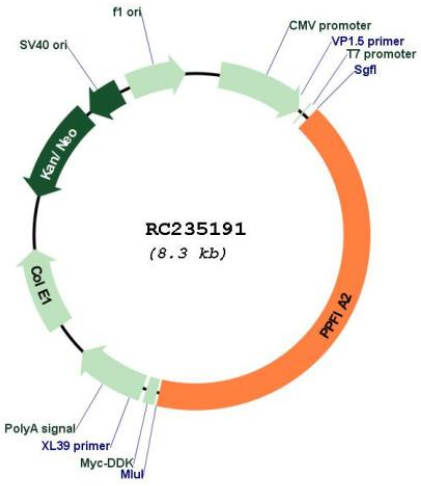
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001220478

ORF Size: 3456 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_001220478.2, NP_001207407.1
RefSeq Size:	5517 bp
RefSeq ORF:	3459 bp
Locus ID:	8499
UniProt ID:	O75334
Cytogenetics:	12q21.31
Protein Families:	Druggable Genome
MW:	132 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]