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Product datasheet for RC212893

Liprin alpha 1 (PPFIA1) (NM_177423) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Liprin alpha 1 (PPFIA1) (NM_177423) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Liprin alpha 1
Synonyms:	LIP.1; LIP1; LIPRIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212893 representing NM_177423 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGATGTGCGAGGTGATGCCGACCATCAGCGAAGCAGAAGGCCCCCCTGGAGGAGGTGGAGGCCATGGTT CCGGCTCCCCTTCACAGCCAGATGCAGATTCACATTTTGAACAGTTGATGGTCTCCATGCTAGAAGAAAG GGACCGCCTTCTTGATACACTGAGAGAGACTCAAGAAACGCTGGCCTTAACCCAGGGGAAGTTACACGAG GTTGGTCATGAAAGAGATTCCTTGCAGAGACAGCTCAACACGGCACTTCCACAGGAGTTCGCAGCACTTA CTAAAGAACTCAATGTATGCAGGGAACAGCTCCTTGAAAGGGAAGAAGAAATTGCTGAACTGAAAGCAGA AAGGAATAACACCAGGCTGCTGTTAGAGCATTTGGAATGCCTTGTCTCCAGGCATGAGCGGTCTCTTAGG ATGACCGTGGTGAAGAGACAAGCGCAGTCTCCAGCAGGCGTGTCCAGCGAAGTGGAAGTGCTGAAAGCAC TGAAGTCCTTATTTGAACACCACAAAGCTCTGGATGAAAAGGTGAGAGAGCGATTACGAGTAGCACTTGA AAGATGTAGTTTGTTAGAAGAGGAATTAGGTGCCACACACAAAGAGCTAATGATTCTTAAAGAACAGAAT AATCAGAAAAAAACTCTAACAGATGGAGTGCTGGACATAAACCATGAACAAGAAAATACACCAAGCACGA GTGGAAAGAGATCTTCTGATGGTTCTTTAAGCCACGAGGAAGACCTTGCTAAAGTAATTGAGCTCCAAGA AATCATAAGTAAGCAGTCAAGGGAACAGAGCCAAATGAAAGAACGCCTGGCTTCCCTTTCCAGTCATGTG ACAGAACTGGAAGAGGATCTGGACACGGCTAGAAAAGATCTCATCAAATCTGAAGAAATGAACACAAAAT TGCAACGAGATGTCCGTGAAGCCATGGCCCAAAAGGAAGATATGGAAGAGAGAATCACTACTCTTGAAAA ACGCTACCTCGCTGCACAGCGTGAAGCCACATCTGTGCATGACCTCAATGATAAACTTGAAAATGAAATT GCAAATAAAGATTCTATGCATCGACAGACTGAAGATAAAAACCGCCAGTTACAGGAGCGCTTGGAATTGG CAGAGCAAAAGCTGCAACAGACACTGAGGAAGGCAGAGACGCTCCCGGAGGTGGAGGCGGAGCTGGCCCA GAGGGTGGCAGCGCTTTCCAAGGCTGAAGAGAGACACGGCAACATTGAAGAAAGGTTACGACAGATGGAA GCACAGTTGGAGGAGAAGAATCAAGAACTGCAGCGGGCAAGGCAAAGAGAAAAAATGAACGAAGAACATA ATAAACGTTTATCAGACACTGTTGACAAGCTGCTTTCAGAATCTAATGAGAGGCTTCAACTTCATCTTAA AGAGAGAATGGCTGCTTTGGAAGATAAGAACTCTCTTTTAAGAGAAGTTGAAAGTGCAAAAAAGCAGTTA

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Protein Sequence:

>RC212893 representing NM_177423
Red=Cloning site Green=Tags(s)

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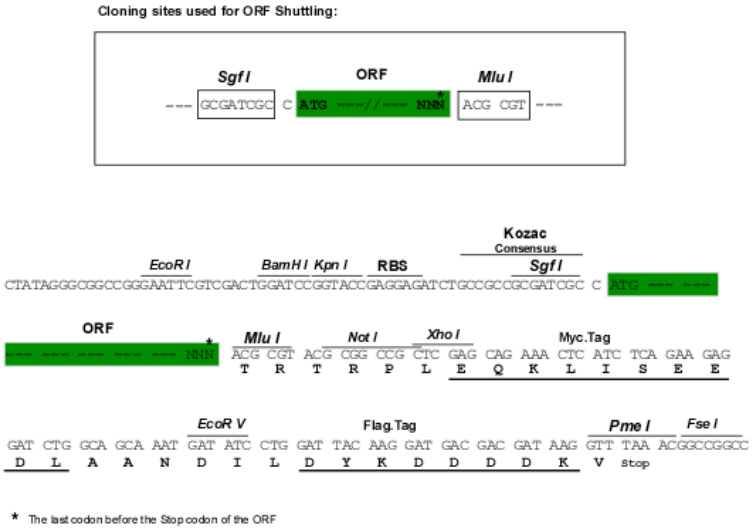
Chromatograms: https://cdn.origene.com/chromatograms/mk8013_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

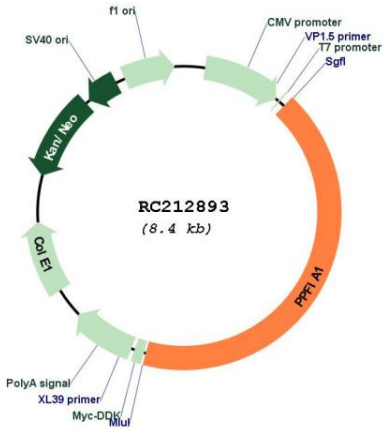


ACCN: NM_177423

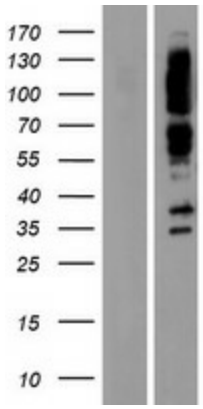
ORF Size: 3555 bp

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_177423.3
RefSeq Size:	3945 bp
RefSeq ORF:	3558 bp
Locus ID:	8500
UniProt ID:	Q13136
Cytogenetics:	11q13.3
Protein Families:	Druggable Genome, Phosphatase
MW:	133.8 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. This protein binds to the intracellular membrane-distal phosphatase domain of tyrosine phosphatase LAR, and appears to localize LAR to cell focal adhesions. This interaction may regulate the disassembly of focal adhesion and thus help orchestrate cell-matrix interactions. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

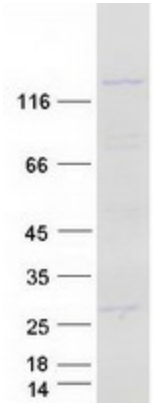
Product images:



Circular map for RC212893



Western blot validation of overexpression lysate (Cat# [LY406160]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212893 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPFIA1 protein (Cat# [TP312893]). The protein was produced from HEK293T cells transfected with PPFIA1 cDNA clone (Cat# RC212893) using MegaTran 2.0 (Cat# [TT210002]).