

## Product datasheet for **RC205488**

### Liprin alpha 1 (PPFIA1) (NM\_003626) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Liprin alpha 1 (PPFIA1) (NM_003626) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPFIA1
Synonyms:	LIP.1; LIP1; LIPRIN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC205488 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGTGCGAGGTGATGCCGACCATCAGCGAAGCAGAAGGCCCCCTGGAGGAGGTGGAGGCCATGGTT  
CCGGCTCCCTTCACAGCCAGATGCAGATTACATTTTGAACAGTTGATGGTCTCCATGCTAGAAGAAAG  
GGACCGCTTCTTGATACACTGAGAGAGACTCAAGAAACGCTGGCCTTAACCCAGGGGAAGTTACACGAG  
GTTGGTCATGAAAGAGATTCTTGCAGAGACAGCTCAACACAGCACTTCCACAGGAGTTCGACGACTTA  
CTAAAGAACTCAATGTATGCAGGGAACAGCTCCTTGAAAGGGAAGAAGAAATTGCTGAACTGAAAGCAGA  
AAGGAATAACACCAGGCTGCTGTAGAGCATTGGAAATGCCTTGTCTCCAGGCATGAGCGGTCTCTTAGG  
ATGACCGTGGTGAAGAGACAAGCGCAGTCTCCAGCAGGCGTGTCCAGCGAAGTGGAAAGTGTGAAAGCAC  
TGAAGTCTTATTTGAACACCACAAAGCTCTGGATGAAAAGGTGAGAGAGCGATTACGAGTAGCACTTGA  
AAGATGTAGTTTGTGTAAGAGGAATTAGGTGCCACACACAAAGAGCTAATGATTCTTAAAGAACAGAAT  
AATCAGAAAAAACTCTAACAGATGGAGTGTGGACATAAACCATGAACAAGAAAAACACCAAGCACGA  
GTGGAAAGAGATCTTCTGATGGTTCTTTAAGCCACGAGGAAGACCTTGCTAAAGTAAATTGAGCTCCAAG  
AATCATAAGTAAGCAGTCAAGGGAACAGAGCCAAATGAAAGAAGCGCTGGCTTCCCTTCCAGTCATGTG  
ACAGAACTGGAAGAGGATCTGGACACGGCTAGAAAAGATCTCATCAAATCTGAAGAAATGAACACAAAAT  
TGCAACGAGATGTCCGTGAAGCCATGGCCAAAAGGAAGATATGGAAGAGAGAATCACTACTCTTAAAAA  
ACGCTACCTCGTGCACAGCGTGAAGCCACATCTGTGCATGACCTCAATGATAAATTGAAAAATGAAATT  
GCAAATAAAGATTCTATGCATCGACAGACTGAAGATAAAAACCGCCAGTTACAGGAGCGCTTGGAAATTGG  
CAGAGCAAAGCTGCAACAGACTGAGGAAGGCAGAGACGCTCCCGAGGTGGAGGCGGAGCTGGCCCA  
GAGGGTGGCAGCGCTTCCAAGGCTGAAGAGAGACACGGCAACATTGAAGAAAGGTTACGACAGATGGAA  
GCACAGTTGGAGGAGAAGAAATCAAGAATGCAGCGGGCAAGGCAAGAGAAAAAATGAACGAAGAACATA  
ATAAACGTTTATCAGACTGTTGACAAGCTGCTTTCAGAATCTAATGAGAGGCTTCAACTTCATCTTAA  
AGAGAGAATGGCTGCTTTGGAAGATAAGAACTCTTTTAAAGAGAAGTTGAAAGTCAAAAAAGCAGTTA  
GAAGGAACACAACACGATAAGGATCAGCTTGTCTAAACATTGAAGCACTGAGGGCTGAAGTACACACA



[View online »](#)

TGAGACTAAGAGGTGCTTCACTTCATCATGGCCGACCCCACTTGGGCAGTGTCCCAGATTTCAAGTTCCC  
CATGGCAGATGGCCACACAGACTCCTACAGCACCAGTGCAGTGTCTGCGGCGCACACAGAAAGCCGGCTG  
GCAGCCCTGCGAGATGAGCCTTCCAAGTACAAACTCTTAATGAGCAGGATTGGGAACGTGCCAGCAAG  
CTAGTGTCTTGGCAAATGTAGCACAAAGCATTGAGAGTGTGCTGACGTGTCTGATGGTGAAGATGACAG  
GGACACTCTCCTCAGCTCAGTTGACCTGCTATCGCCAGCGGGCAGGCCGACGCGCACACACTAGCCATG  
ATGCTTCAGGAGCAGCTGGACGCCATCAACAAAGAGATCAGTTGATTGAGGAAGAAAAAGAAAAATACAG  
AGCAGCGGGCAGAGGAGATTGAAAGTCGAGTTGGCAGTGGAAAGTCTAGACAATCTTGGTCGTTTTAGATC  
AATGAGCTCCATTCCCCCTACCCTGCTTCTCGCTTGCTAGCTCCTCCCCTCCGGGCAGTGGGCGCTCC  
ACCCACGAAGGATCCCTCACAGCCAGCTCGGGAAGTGACAGACTGGGCGTATGACCCTTTTGGCCAC  
CTTCCAGAGAAGAGGTACGAGATGACAAGACAACCATAAAGTGTGAAACCTCCCCGCTTCTCCCCGAG  
AGCCCTTCGGTTAGACCGGCTGCACAAAGGGCGCTGCACACCGTTAGCCACGAGGACATCAGGGACATA  
AGGAACTCCACAGGCTCCAGGATGGTCCCGTGAGCAACCCAGCAGTAGCAACAGTAGCCAGGACTCGC  
TCCACAAAGCCCCAAAGAAGAAAGGCATTAAGTCTCCATTGGCCGCTTGTGGCAAGAAAGAAAGGG  
CCGACCTGGACAAACTGGCAAAGAAGCATTAGGACAAGCTGGTGTTCGAGACGGATAACTCATCTCAG  
GATGCCTTGGGACTTAGCAAATGGGGGACAGGCTGAAAAAATCGTAACTTCAAAAAAGCATGAAT  
TGCTGGGGGAAGCCCGGAGACAAGTTTACCTTTTGCCCAATGGGACGGGCAACGGTTGTGGTCTGGCT  
AGAGCTCTGGGTTGGGATGCCAGCTGGTATGTGGCTGCCTGCCGAGCAACGTGAAAAGCGGGGCCATC  
ATGTGCGCCCTGTCCGACACAGAGATCCAGCGTGAGATTGGCATCAGCAACCCCTGCACAGGCTGAAGC  
TGAGGCTGGCCATCCAGGAGATCATGTCGCTGACCAGCCCGTCTGCCCGCCACATCTAGAACGACACT  
CGCCTATGGGGACATGAACACGAGTGGATCGGCAACGAGTGGCTCCCCAGCCTGGGCTCCCCAGTAC  
CGCAGCTACTTCATGGAGTGCTTGTAGACGCCAGGATGCTGGACCACTTGACCAAGAAAGACCTTCGAG  
GGCAGCTGAAAATGGTCGACAGTTTTACAGAAACAGTTTCCAGTGTGGAATTATGTGCCTGAGAAGGTT  
AAATTATGACCGAAAGAACTGGAAGAAAAAGAGAAGAAAGTCAAGTGAATAAAAGACGTGCTTGT  
TGGAGCAATGATCGAGTGATTCGCTGGATCCTGTCAATTGGCCTTAAAGAATATGCAACAATCTTATAG  
AGAGTGGTGTTCACGGAGCACTTCTGGCCTTAGATGAAACCTTCGACTTCAGTGCCTGGCACTGCTGTT  
ACAGATCCCAACGCAGAACACACAGGCTCGTGCTGCTTGGAAAGAGAATTTAACAACTTTTGGTCATG  
GGGACTGATAGAAGTTTGTGAAGATGATGATAAAAGCTTTAGGAGAGCACCTTCATGGAGAAAAAGT  
TTAGACCAAGGACATTCGTGGCTTAGCTGCTGGGTGAGCAGAGACTCTCCCTGCAAACTCCGGGTGAC  
TTCTTCTATGTCTTCCCCCTCTATGCAGCCAAAGAAGATGCAGATGGACGGCAATGTATCAGGAACACAG  
AGGTTGGATTCTGCTACAGTCAGGACTTACTCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205488 protein sequence  
 Red=Cloning site Green=Tags(s)

MMCEVMPITISEAEGPPGGGGHSGSPSQPDADSHFEQLMVSMLEERDRLDRTLRETQETLALTQGKLHE  
 VGHERDSLQRQLNTALPQEFAALTKELNVCREQLLEREEIEAELKAERNNTRLLLEHLECLVSRHERSLR  
 MTVVVKRQAQSPAGVSSEVEVLKALKSLFEHKKALDEKVRERLRVALERCSSLLEELGATHKELMILKEQN  
 NQKKTLDGVLDINHEQENTPSTSGKRSSDGLSHEEDLAKVIELQEIIISKQSREQSQMKERLASLSSHV  
 TELEEDLDTARKDLIKSEEMNTKLQRDVREAMAQKEDMEERITTLKRYLAAQREATSVHDLNDKLENEI  
 ANKDSMHRQTEDKNRQLQERLELAEQKLQQLRKAETLPEVEAELAQRVAALSKAERHGNIEERLRQME  
 AQLLEKNQELQARQREKMNEEHNKRLSDTVDKLLSESNERLQLHLKERMAALEDKNSLLREVESAKKQL  
 EGTQHDKQDLVNLIEALRAELDHMLRGASLHGRPHLGSVPDFRFPMDGHTDSYSTSAVLRRTQKGR  
 AALRDEPSKVQTLNEQDWERAAQASVLANVAQAFESDADVSDGEDDRDRLSSVDLLSPSGQADAHTLAM  
 MLQEQLDAINKEIRLIQEEKENTEQRAEEIESRVGSGSLDNLGRFRSMSSIPPYPASSLASSPPGSGRS  
 TPRRIPHSPAREVDRLGVMTLPPSREEVRDDKTTIKCETSPSSPRALRLDRLHKGALHTVSHEDIRDI  
 RNSTGSDGQGPVSNPSSSSSQDSLHKAPKKKGIKSSIGRIFGKKEKGRPGQTGKEALGQAGVSETDNSSQ  
 DALGLSKLGGQAENRKLQKKHELLGEARRQGLPFAQWDGPTVVVWLELWVGMPAWYVAACRANVKS  
 MSALSDTEIQREIGISNPLHRLKRLAIQEIIMSLTSPSAPPTSRTTLAYGDMNHEWIGNEWLP  
 RSYFMECLVDARMLDHLTKKDLRGQKMYDSFHRNSFCGIMCLRRLNYDRKELERKREESQSEIKDVLV  
 WSNDRVIRWILSIGLKEYANLIESGVHGALLALDETFDFALALLLQIPTQNTQARAVLEREFNLLVM  
 GTDRRFDEDDKSFRRAPSWRKKFRPKDIRGLAAGSAETLPANFRVTSMSSPSMQPKMKMQMDGNVSGTQ  
 RLDSATVRTYSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

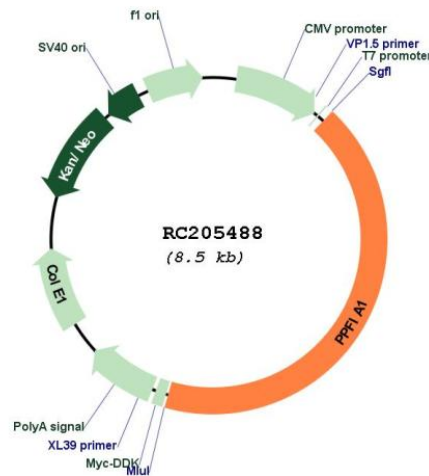
Chromatograms: [https://cdn.origene.com/chromatograms/mk6835\\_g07.zip](https://cdn.origene.com/chromatograms/mk6835_g07.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_003626

ORF Size: 3606 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\\_003626.5](#)

RefSeq Size: 5353 bp

RefSeq ORF: 3609 bp

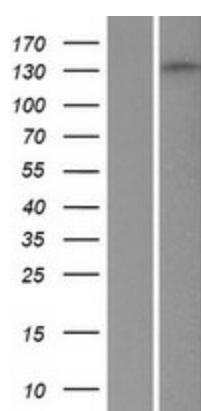
Locus ID: 8500

UniProt ID: [Q13136](#)

Cytogenetics: 11q13.3

Domains:	SAM
Protein Families:	Druggable Genome, Phosphatase
MW:	135.6 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. 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:



Western blot validation of overexpression lysate (Cat# [LY418543]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205488 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).