

## Product datasheet for **RC239971**

### Liprin alpha 2 (PPFIA2) (NM\_001282536) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Liprin alpha 2 (PPFIA2) (NM_001282536) 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:	>RC239971 representing NM_001282536 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACGGTGGTAAAACGGCAAGCCCACTCTCCCTCAGGAGTATCCAGTGAAGTTGAAGTTCTCAAGGCAC  
TGAAATCTTTGTTGAGCACCACAAGGCCCTGGATGAAAAGTAAGGGAGCGACTGAGGGTTTCTTTAGA  
AAGAGTCTTGCCTGCACTGGAAGAAGAAGTCTGCTGCTAATCAGGAGATTGTTGCCCTTGCCTGAACAAAAT  
GTTTCATATACAAAAGAAAATGGCATCAAGCGAGGGATCCACAGAGTCAGAACATCTTGAAGGGATGGAAC  
CTGGACAGAAAAGTCCATGAGAAGCGTTTGTCCAATGGTTCTATAGACTCAACCGATGAAACTAGTCAAAT  
AGTTGAACTACAAGAATTGCTTGAAGCAAACTATGAAATGGCCAGATGAAAAGAACGTTTAGCAGCC  
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CTAGAAAATGAGTTAGCAAATAAAGAAGCTATCCTGCGGCAGATGGAAGAGAAAAACAGACAGTTACAAG  
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GGCTGAACTGGCTCAGAGAATTGCAGCCCTAACCAAGGCTGAAGAGAGACATGGAATATTGAAGAACGT  
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ACAACACTACTTAAAGGAAAGAAATGGCTGCTCTAGAAGAAAAGAAATGTTTTAATTCAGAATCAGAACT  
TTCAGAAAAGAAATCTTGAAGAATCTTTACATGATAAGGAAAGATTAGCAGAAGAAATGAAAAGCTGAGAT  
CTGAACTTGACCAATTGAAAATGAGAACTGGCTCTTTAATTGAACCCACAATACCAAGAAGTCACTAGTA  
CACCTCAGCTGAGTTGCGGTACTCAGTGGGATCCCTAGTGGACAGCCAGTCTGATTACAGAACAACATAAA  
GTAATAAGAAGACCAAGGAGAGGCCGCATGGGTGTGCAAGAGATGAGCCAAAGGTGAAATCTCTTGGGG  
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GTCTGATATTGATGATGATGACAGAGAAAACAATTTTTAGCTCAATGGATCTTCTCTCTCCAAGTGGTCAT  
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CGAAGGCTGAATTTGGCAAGGGTCCACCAGGTACCTCCATTACTGCCTCTGTTACAGTTCATCGCTG



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GCCAGTTCATCTCCCCCAGTGGACACTCAACTCCAAAGCTCACCCCTCGAAGCCCTGCCAGGAAATGG  
 ATCGGATGGGAGTCATGACACTGCCAAGTGATCTGAGGAAACATCGGAGAAAAGATTGACAGTTGTGGAAGA  
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 AACGTGAAGAGTGGTGCCATCATGTCTGCTTTATCTGACACTGAGATCCAGAGAGAAATTGGAATCAGCA  
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 CAACACAGAACACCCAGGCAAGGAGATTTCTTAAAGAGAATAACAATAACCTCTTGGCCCTGGAACTGA  
 AAGGCGACTGGATGAAAGTATGACAAGAACTTCAGACGTGGATCAACCTGGAGAAGGCAGTTTCTCCT  
 CGTGAAGTACATGGAATCAGCATGATGCCTGGGTCCTCAGAAACATTACCAGCTGGATTTAGGTTAACCA  
 CAACCTCTGGCAGTCAAGAAAAATGACAACAGATGTTGCTTTCATCAAGACTGCAGAGGTTAGACAACTC  
 CACTGTTCCGACATACTCATGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239971 representing NM\_001282536

Red=Cloning site Green=Tags(s)

MTVVKRQAQSPSGVSSSEVEVLKALKSLFEHKKALDEKVRERLRVSLERVSALLEELAAANQEIVALREQN  
 VHIQRKMASSEGSTESEHLEGMPEGQKVHEKRLSNGSIDSTDETSQIVELQELLEKQNYEMAQMKERLAA  
 LSSRVGEVEQEAETARKDLIKTEEMNTKYQRDIREAMAQKEDMEERITTLKRYLSAQRESTSIHDMNDK  
 LENELANKEAILRQMEENRQLQERLELAEQKLQQTMRKAETLPEVEAELAQRIAAALTKAERHGNIEER  
 MRHLEGQLEEKQELQRARQREKMNEEHNKRLSDTVDRLLTESNERLQLHLKERMAALEEKNVLIQES  
 FRKNLEESLHDKERLAEIEKLRSELDQLKMRGSLIEPTIPRTHLDTSAELRYSVGSVDSQSDYRRTK  
 VIRRRPRGRMGVRRDEPKVKSLGDHEWNRTQQIGVLSSHPPFESDTEMSDIDDDRETIFFSSDLLSPSGH  
 SDAQTLAMMLQEQLDAINKEIRLIQEEKESTELRAEIEENRVASVLEGLNLARVHPGTSITASVTASSL  
 ASSSPPSGHSTPKLTPRSPAREMDRMGMVMTLPDLRKHRRKIAVVEEDGREDKATIKCETSPPTPRALR  
 MHTLTPSSYHNDARSSLVSLPEPELGLGSANSSQDSLHKAPKKKGKSSIGRFLGKKEKARLGLRGM  
 ETEAAAQESLGLGKLTQAEKDRRLKKKHELLEEARRGLPFAQWDGPTVVAWLELWLGMPAWYVAACRA  
 NVKSGAIMSALSDTEIQREIGISNPLHRLKRLAIQEMVSLTSPSAPTSRTPSGNVWVTHEEMENLAAP  
 AKTKESEEGSWAQCVPVFLQTLAYGDMNHEWIGNEWLPSLGLPQYRSYFMECLVDARMLDHLTKKDLRVHL  
 KMVDSFHRTSLQYIMCLKRLNYDRKELERRREASQHEIKDVLVWSNDRVIRWIQAIGLREYANNILESG  
 VHGLIALDENFDYSSLALLLQIPTQNTQARQILEREYNNLLALGTERRLDESDDKNFRRGSTWRRQFPP  
 REVHGISMMPGSSETLPAGFRLTTTSGQSRKMTTDVASSRLQRLDNSTVRTYSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<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>	<u>NM_001282536.1</u> , <u>NP_001269465.1</u>
<b>RefSeq Size:</b>	5298 bp
<b>RefSeq ORF:</b>	3315 bp
<b>Locus ID:</b>	8499
<b>Cytogenetics:</b>	12q21.31
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	126.4 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]