OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC337865

Liprin alpha 2 (PPFIA2) (NM_001282536) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Liprin alpha 2 (PPFIA2) (NM_001282536) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPFIA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282536, the custom clone sequence may differ by one or more nucleotides

ATGACGGTGGTAAAACGGCAAGCCCAGTCTCCCTCAGGAGTATCCAGTGAAGTTGAAGTTCTCAAGGCAC
TGAAATCTTTGTTTGAGCACCACAAGGCCTTGGATGAAAAGGTAAGGGAGCGACTGAGGGTTTCTTTAGA
AAGAGTCTCTGCACTGGAAGAAGAACTAGCTGCTGCTAATCAGGAGATTGTTGCCTTGCGTGAACAAAAT
GTTCATATACAAAGAAAAATGGCATCAAGCGAGGGATCCACAGAGTCAGAACATCTTGAAGGGATGGAAC
CTGGACAGAAAGTCCATGAGAAGCGTTTGTCCAATGGTTCTATAGACTCAACCGATGAAACTAGTCAAAT
AGTTGAACTACAAGAATTGCTTGAAAAGCAAAACTATGAAATGGCCCAGATGAAAGAACGTTTAGCAGCC
CTTTCTTCCCGAGTGGGAGAGGTGGAACAGGAAGCAGAGACAGCAAGAAAGGATCTCATTAAAACAGAAG
AAATGAACACCAAGTATCAAAGGGACATTAGGGAGGCCATGGCACAAAAGGAAGATATGGAAGAAAGAAT
TACAACCCTTGAAAAGCGTTACCTCAGTGCTCAGAGAGAATCTACCTCCATACATGACATGAATGATAAA
CTAGAAAATGAGTTAGCAAATAAAGAAGCTATCCTGCGGCAGATGGAAGAGAAAAACAGACAGTTACAAG
AACGTCTTGAGCTAGCTGAACAAAAGTTGCAGCAGACCATGAGAAAGGCTGAAACCTTGCCTGAAGTAGA
GGCTGAACTGGCTCAGAGAATTGCAGCCCTAACCAAGGCTGAAGAGAGACATGGAAATATTGAAGAACGT
ATGAGACATTTAGAGGGTCAACTTGAAGAGAAGAATCAAGAACTTCAAAGAGCTAGGCAAAGAGAGAAAA
TGAATGAGGAGCATAACAAGAGATTATCGGATACGGTTGATAGACTTCTGACTGAATCCAATGAACGCCT
ACAACTACACTTAAAGGAAAGAATGGCTGCTCTAGAAGAAAAGAATGTTTTAATTCAAGAATCAGAAACT
TTCAGAAAGAATCTTGAAGAATCTTTACATGATAAGGAAAGATTAGCAGAAGAAATTGAAAAGCTGAGAT
CTGAACTTGACCAATTGAAAATGAGAACTGGCTCTTTAATTGAACCCACAATACCAAGAACTCATCTAGA
CACCTCAGCTGAGTTGCGGTACTCAGTGGGATCCCTAGTGGACAGCCAGTCTGATTACAGAACAACTAAA
GTAATAAGAAGACCAAGGAGAGGCCGCATGGGTGTGCGAAGAGATGAGCCAAAGGTGAAATCTCTTGGGG
ATCACGAGTGGAATAGAACTCAACAGATTGGAGTACTAAGCAGCCACCCTTTTGAAAGTGACACTGAAAT
GTCTGATATTGATGATGATGACAGAGAAACAATTTTTAGCTCAATGGATCTTCTCTCTCCAAGTGGTCAT
TCCGATGCCCAGACGCTAGCCATGATGCTTCAGGAACAATTGGATGCCATCAACAAAGAAATCAGGCTAA
TTCAGGAAGAAAAAGAATCTACAGAGTTGCGTGCTGAAGAAATTGAAAATAGAGTGGCTAGTGTGAGCCT
CGAAGGCCTGAATTTGGCAAGGGTCCACCCAGGTACCTCCATTACTGCCTCTGTTACAGCTTCATCGCTG
GCCAGTTCATCTCCCCCCAGTGGACACTCAACTCCAAAGCTCACCCCTCGAAGCCCTGCCAGGGAAATGG

View online »

ATCGGATGGGAGTCATGACACTGCCAAGTGATCTGAGGAAACATCGGAGAAAGATTGCAGTTGTGGAAGA
AGATGGTCGAGAGGACAAAGCAACAATTAAATGTGAAACTTCTCCTCCTCCTACCCCTAGAGCCCTCAGA
ATGACTCACACTCTCCCTTCTTCCTACCACAATGATGCTCGAAGTAGTTTATCTGTCTCTCTTGAGCCAG
AAAGCCTCGGGCTTGGTAGTGCCAACAGCAGCCAAGACTCTCTTCACAAAGCCCCCAAGAAGAAAGGAAT
CAAGTCTTCAATAGGACGTTTGTTTGGTAAAAAAGAAAAAGCTCGACTTGGGCAGCTCCGAGGCTTTATG
GAGACTGAAGCTGCAGCTCAGGAGTCCCTGGGGTTAGGCAAACTCGGAACTCAAGCTGAGAAGGATCGAA
GACTAAAGAAAAAGCATGAACTTCTTGAAGAAGCTCGGAGAAAGGGATTACCTTTTGCCCAGTGGGATGG
GCCAACTGTGGTCGCATGGCTAGAGCTTTGGTTGGGAATGCCTGCGTGGTACGTGGCAGCCTGCCGAGCC
AACGTGAAGAGTGGTGCCATCATGTCTGCTTTATCTGACACTGAGATCCAGAGAGAAATTGGAATCAGCA
ATCCACTGCATCGCTTAAAACTTCGATTAGCAATCCAGGAGATGGTTTCCCTAACAAGTCCTTCAGCTCC
TCCAACATCTCGAACTCCTTCAGGCAACGTTTGGGTGACTCATGAAGAAATGGAAAATCTTGCAGCTCCA
GCAAAAACGAAAGAATCTGAGGAAGGAAGCTGGGCCCAGTGTCCGGTTTTTCTACAGACCCTGGCTTATG
GAGATATGAATCATGAGTGGATTGGAAATGAATGGCTTCCCAGCTTGGGGTTACCTCAGTACAGAAGTTA
CTTTATGGAATGCTTGGTAGATGCAAGAATGTTAGATCACCTAACAAAAAAAGATCTCCGTGTCCATTTA
AAAATGGTGGATAGTTTCCATCGAACAAGTTTACAATATGGAATTATGTGCTTAAAGAGGTTGAATTATG
ACAGAAAAGAACTAGAAAGAAGACGGGAAGCAAGCCAACATGAAATAAAAGACGTGTTGGTGTGGAGCAA
TGACCGAGTTATTCGCTGGATACAAGCAATTGGACTTCGAGAATATGCAAATAATATACTTGAGAGCGGT
GTGCATGGCTCACTTATAGCCCTGGATGAAAACTTTGACTACAGCAGCTTAGCTTTATTATTACAGATTC
CAACACAGAACACCCAGGCAAGGCAGATTCTTGAAAGAGAATACAATAACCTCTTGGCCCTGGGAACTGA
AAGGCGACTGGATGAAAGTGATGACAAGAACTTCAGACGTGGATCAACCTGGAGAAGGCAGTTTCCTCCT
CGTGAAGTACATGGAATCAGCATGATGCCTGGGTCCTCAGAAACATTACCAGCTGGATTTAGGTTAACCA
CAACCTCTGGGCAGTCAAGAAAAATGACAACAGATGTTGCTTCATCAAGACTGCAGAGGTTAGACAACTC
CACTGTTCGCACATACTCATGTTGA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001282536
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001282536.1, NP_001269465.1
RefSeq Size:	5298 bp
RefSeq ORF:	3315 bp
Locus ID:	8499
Cytogenetics:	12q21.31

Protein Families: Druggable Genome

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]
Transcript Variant: This variant (8) uses an alternate 5' exon structure, and thus differs in the 5' UTR and 5' coding region, compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (j) with a shorter N-terminus, compared to isoform a.