

Product datasheet for **SC301336**

PICALM (NM_001008660) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PICALM (NM_001008660) Human Untagged Clone
Tag:	Tag Free
Symbol:	PICALM
Synonyms:	CALM; CLTH; LAP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_001008660 edited
 ATGTCCGGCCAGAGCCTGACGGACCGAATCACTGCCGCCAGCACAGTGTACCCGGCTCT
 GCCGTATCCAAGACAGTATGCAAGGCCACGACCCACGAGATCATGGGGCCCAAGAAAAAG
 CACCTGGACTACTTAATTCAGTGCACAAATGAGATGAATGTGAACATCCCACAGTTGGCA
 GACAGTTTATTTGAAAGAACTACTAATAGTAGTTGGTGGTGGTCTTCAAATCTCTCATT
 ACAACTCATCATTGTATGGTGTATGAAATGAGCGTTTTATTAGTATTTGGCTTCAAGA
 AACACGTTGTTAACTTAAGCAATTTTTGGATAAAAAGTGGATTGCAAGGATATGACATG
 TCTACATTTATTAGGCGGTATAGTAGATTTTAAATGAGAAAGCAGTTTCATACAGACAA
 GTTGCAATTTGATTTACAAAAAGTGAAGAGAGGGGCTGATGGAGTTATGAGAAACAATGAAC
 ACAGAAAAACTCCTAAAAACTGTACCAATTATTCAGAATCAAATGGATGCACTTCTTGAT
 TTTAATGTTAATAGCAATGAACCTACAAATGGGGTAATAAATGCTGCCTTCATGCTCCTG
 TTCAAAGATGCCATTAGACTGTTTGCAGCATAACAATGAAGGAATTATTAATTTGTTGGAA
 AAATATTTTGATATGAAAAAGAACCAATGCAAAGAAGGCTTGACATCTATAAGAAGTTC
 CTAAGTAGGATGACAAGAATCTCAGAGTTCCTCAAAGTTCAGAGCAAGTTGGAATTGAC
 AGAGGTGATATACCAGACCTTTACAGGCCCTAGCAGTCTTCTTGATGCTTTGGAACAA
 CATTTAGCTTCTTGGAAAGGAAAGAAAATCAAAGATTCTACAGCTGCAAGCAGGGCAACT
 ACACTTTCCAATGCAGTGTCTTCCCTGGCAAGCACTGGTCTATCTCTGACCAAAGTGGAT
 GAAAGGGAAAAGCAGGCAGCATTAGAGGAAGAACAGGCACGTTTAAAAGCTTTAAAGGAA
 CAGCGCTAAAAGAACTTGCAAAGAAACCTCATACCTCTTTAACAACCTGCAGCCTCTCCT
 GTATCCACCTCAGCAGGAGGGATAATGACTGCACCAGCCATTGACATATTTCTACCCCT
 AGTTCTTCTAACAGCACATCAAAGCTGCCAATGATCTGCTTGATTTGCAGCAGCCAAC
 TTTCAACCATCTGTACATCCTATGTCAACTGCTTCTCAGGTAGCAAGTACATGGGGAGGA
 TTCACTCTTCTCCAGTTGCACAGCCACACCCTTCAGCTGGCCTTAATGTTGACTTTGAA
 TCTGTGTTTGGAAATAAATCTACAAATGTTATTGTAGATTCTGGGGGCTTTGATGAACTA
 GGTGGACTTCTCAAACCAACAGTGGCCTCTCAGAACCAGAACCTTCTGTTGCCAAACTC
 CCACCTAGCAAGTTAGTATCTGATGACTTGGATTATCTTTAGCCAACCTTGTGGGCAAT
 CTTGGCATCGGAAATGGAACCACTAAGAATGATGTAAATGGAGTCAACCAGGTGAAAAG
 AAGTAACTGGGGGATCTAACTGGCAACCAAAGTTGCACCAACAACCGCTTGAATGCT
 GCAACAATGAATGGCATGCATTTCCACAATACGCACCCCTGTAATGGCCTATCCTGCT
 ACTACACCAACAGGCATGATAGGATATGGAATTCCTCCACAAATGGGAAGTTCCTGTA
 ATGACGCAACCAACCTTAATATACAGCCAGCCTGTCATGAGACCTCCAAACCCCTTTGGC
 CCTGTATCAGGAGCACAGATACAGTTTATGTAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001008660
- Insert Size:** 3500 bp
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001008660.1](#), [NP_001008660.1](#)

RefSeq Size: 3734 bp

RefSeq ORF: 1833 bp

Locus ID: 8301

UniProt ID: [Q13492](#)

Cytogenetics: 11q14.2

Protein Families: Druggable Genome

Gene Summary: This gene encodes a clathrin assembly protein, which recruits clathrin and adaptor protein complex 2 (AP2) to cell membranes at sites of coated-pit formation and clathrin-vesicle assembly. The protein may be required to determine the amount of membrane to be recycled, possibly by regulating the size of the clathrin cage. The protein is involved in AP2-dependent clathrin-mediated endocytosis at the neuromuscular junction. A chromosomal translocation t(10;11)(p13;q14) leading to the fusion of this gene and the MLLT10 gene is found in acute lymphoblastic leukemia, acute myeloid leukemia and malignant lymphomas. The polymorphisms of this gene are associated with the risk of Alzheimer disease. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]

Transcript Variant: This variant (2) lacks an in-frame exon, but has an additional downstream in-frame exon, in the coding region, as compared to variant 1. The encoded isoform 2 thus lacks an internal segment and also has an additional segment, as compared to isoform 1.