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Product datasheet for SC127391

PICALM (NM_007166) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PICALM (NM_007166) Human Untagged Clone
Tag:	Tag Free
Symbol:	PICALM
Synonyms:	CALM; CLTH; LAP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_007166, the custom clone sequence may differ by one or more nucleotides

ATGTCCGGCCAGAGCCTGACGGACCGAATCACTGCCGCCCAGCACAGTGTCACCGGCTCTGCCGTATCCA
AGACAGTATGCAAGGCCACGACCCACGAGATCATGGGGCCCAAGAAAAAGCACCTGGACTACTTAATTCA
GTGCACAAATGAGATGAATGTGAACATCCCACAGTTGGCAGACAGTTTATTTGAAAGAACTACTAATAGT
AGTTGGGTGGTGGTCTTCAAATCTCTCATTACAACTCATCATTTGATGGTGTATGGAAATGAGCGTTTTA
TTCAGTATTTGGCTTCAAGAAACACGTTGTTTAACTTAAGCAATTTTTTGGATAAAAGTGGATTGCAAGG
ATATGACATGTCTACATTTATTAGGCGGTATAGTAGATATTTAAATGAGAAAGCAGTTTCATACAGACAA
GTTGCATTTGATTTCACAAAAGTGAAGAGAGGGGCTGATGGAGTTATGAGAACAATGAACACAGAAAAAC
TCCTAAAAACTGTACCAATTATTCAGAATCAGATGGATGCACTTCTTGATTTTAATGTTAATAGCAATGA
ACTTACAAATGGGGTAATAAATGCTGCCTTCATGCTCCTGTTCAAAGATGCCATTAGACTGTTTGCAGCA
TACAATGAAGGAATTATTAATTTGTTGGAAAAATATTTTGATATGAAAAAGAACCAATGCAAAGAAGGTC
TTGACATCTATAAGAAGTTCCTAACTAGGATGACAAGAATCTCAGAGTTCCTCAAAGTTGCAGAGCAAGT
TGGAATTGACAGAGGTGATATACCAGACCTTTCACAGGCCCCTAGCAGTCTTCTTGATGCTTTGGAACAA
CATTTAGCTTCCTTGGAAGGAAAGAAAATCAAAGATTCTACAGCTGCAAGCAGGGCAACTACACTTTCCA
ATGCAGTGTCTTCCCTGGCAAGCACTGGTCTATCTCTGACCAAAGTGGATGAAAGGGAAAAGCAGGCAGC
ATTAGAGGAAGAACAGGCACGTTTGAAAGCTTTAAAGGAACAGCGCCTAAAAGAACTTGCAAAGAAACCT
CATACCTCTTTAACAACTGCAGCCTCTCCTGTATCCACCTCAGCAGGAGGGATAATGACTGCACCAGCCA
TTGACATATTTTCTACCCCTAGTTCTTCTAACAGCACATCAAAGCTGCCCAATGATCTGCTTGATTTGCA
GCAGCCAACTTTTCACCCATCTGTACATCCTATGTCAACTGCTTCTCAGGTAGCAAGTACATGGGGAGAT
CCTTTCTCTGCTACTGTAGATGCTGTTGATGATGCCATTCCAAGCTTAAATCCTTTCCTCACAAAAAGTA
GTGGTGATGTTCACCTTTCCATTTCTTCAGATGTATCTACTTTTACTACTAGGACACCTACTCATGAAAT
GTTTGTTGGATTCACTCCTTCTCCAGTTGCACAGCCACACCCTTCAGCTGGCCTTAATGTTGACTTTGAA
TCTGTGTTTGGAAATAAATCTACAAATGTTATTGTAGATTCTGGGGGCTTTGATGAACTAGGTGGACTTC
TCAAACCAACAGTGGCCTCTCAGAACCAGAACCTTCCTGTTGCCAAACTCCCACCTAGCAAGTTAGTATC
TGATGACTTGGATTCATCTTTAGCCAACCTTGTGGGCAATCTTGGCATCGGAAATGGAACCACTAAGAAT
GATGTAAATTGGAGTCAACCAGGTGAAAAGAAGTTAACTGGGGGATCTAACTGGCAACCAAAGGTTGCAC
CAACAACCGCTTGGAATGCTGCAACAATGGCACCCCCTGTAATGGCCTATCCTGCTACTACACCAACAGG
CATGATAGGATATGGAATTCCTCCACAAATGGGAAGTGTTCCTGTAATGACGCAACCAACCTTAATATAC
AGCCAGCCTGTCATGAGACCTCCAAACCCCTTTGGCCCTGTATCAGGAGCACAGATACAGTTTATGTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007166 unedited
GCGGCCCGCGAATTCGCACGAGGGTGCGGTGGGGGGTGGGGACCCTCCGGCTCTTGGGGG
TCCCAGTCCCCGCCGGCTGCTGAGCGGGTGGGGTGGTGGAGGAGCTGCAGAGATGTCCGG
CCAGAGCCTGACGGACCGAATCACTGCCGCCCAGCACAGTGTCACCGGCTCTGCCGTATC
CAAGACAGTATGCAAGGCCACGACCCACGAGATCATGGGGCCCAAGAAAAAGCACCTGGA
CTACTTAATTCAGTGCACAAATGAGATGAATGTGAACATCCCACAGTTGGCAGACAGTTT
ATTTGAAAGAACTACTAATAGTAGTTGGGTGGTGGTCTTCAAATCTCTCATTACAACTCA
TCATTTGATGGTGTATGGAAATGAGCGTTTTATTCAGTATTTGGCTTCAAGAAACACGTT
GTTTAACTTAAGCAATTTTTTGGATAAAAGTGGATTGCAAGGATATGACATGTCTACATT
TATTAGGCGGTATAGTAGATATTTAAATGAGAAAGCAGTTTCATACAGACAAGTTGCATT
TGATTTCACAAAAGTGAAAAGAGGGGCTGATGGAGTTATGAGAACAATGAACACCAGAAA
ACTCCTAAAAACTGTCCCAATTATTCAGATCAAATGGATGCCCCTCCTTGGATTTTAAGT
TAAATACCAATGGAACCTACCAAAGGGGGAAAAAAAGGCTGCCCTTAAGGGCCCCTGGTA
AAAAAGGCCCTTAAAACTGGTGGGCCCTTACCAGGGAGGGGATTTTTAATTTTGTGGGAA
AAAAATTTTTGTGTTTAAAAAAAAACCCTGCCCAAAAGGGTCTCTCCCTCTTTTAAAAAT
TCCCCCCTTAGGGAAACAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007166 unedited
NNNNNNNNCCCCCCCCCCCCCCNNCCCCCNCCCCCCCCCNNCCTTTGACTTTGGAACGCGGN
CCGCNTACTAAGATCGAGTTTTTTTTTTTTTTTTTGGGGGAACTGCATTTTATTCTGAA
AATCCACCCATTTTGCTAACATACATTTTAATATTGTAAACAAAAATAGAATCTGCAGAG
ACAATGCAACAAGAATGCTTAAACTCATGTACAGAATTGCTTTCCTACAATGAACTGTCC
TTCTTAAGGCCCCTCTCCACCCAAATGTTAAAGATGTATTTACACAAAGCACCGATCAAC
AGTGCAGTTTAATTCTTCGTTTACTAAACTCTTGGCTAGACATTAACTTTAAAGATACTA
TTTCCCCTTATTTAAAAGGTATATGATCATAACATGGCACGAGCCAAAGAAAATGTTCAA
GGACTTTGCCCCCCTTCCCTCCCCCTTGTAACACCTTCTAGAGTTTTACTGAAAAGAAGA
AAGTCTTGAAGTGAAAGCAATTTCTCACATTCATTTGGAAAGGCCCTATGTCAAATGGAA
AAAAATGACCTGCCCAGCACAAAGCAGTAAAGACCCTTCCCAAGCCCTAATGCTGAAATT
AAAAGGAAGGGCTTTTCCTAATCAAGGAACGTTCCCTGGCAAAACCTCTAGCCAAAAATT
GCCTTATAGGTTAAAGGCCTTAAAAGGGCTCCCCCAAAACCCACAAAGGGCCGGAAATTT
TTAAAAAATTCCAACCCCTGGCCCTGGCTTTAAAAAATTAAAGGGCTCTTTTTGGAAACT
CAAAAAAAACTCTCCAAAAAAAACCCTTTTTTGGGGGAAAAAAAAAAAAAAACGGGGGC
CATCCCCATCTCCTTTTTTTTAAAGGGGGGCCGGGAACAT

Restriction Sites: NotI-NotI

ACCN: NM_007166

Insert Size: 3630 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_007166.2, NP_009097.2

RefSeq Size: 3860 bp

RefSeq ORF:	1959 bp
Locus ID:	8301
UniProt ID:	Q13492
Cytogenetics:	11q14.2
Domains:	ENTH
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 (1) encodes the longest isoform (1).