

## Product datasheet for **MC228589**

### Picalm (NM\_001252520) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Picalm (NM_001252520) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Picalm
Synonyms:	CALM; CLTH; fit-1; fit1; mKIAA4114; PAP180
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228589 representing NM\_001252520  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGCGCCAGAGCCTGACGGACCGAATCACCGCGGCCAGCACAGTGTACTGGCTCCGCGGTATCTA  
 AGACAGTATGCAAGGCCACGACCCACGAGATCATGGGCCCAAGAAAAAGCACCTGGACTACTTAATTCA  
 GTGTACAATGAGATGAATGTGAACATCCACAGTTGGCGGACAGTTTGTGGAAAGAACTACTAACAGT  
 AGTTGGGTGGTGGTCTTCAAATCACTCATTACAACATCATTTTGGTGTATGGAAATGAGCGTTTCA  
 TTCAGTATTTGGCTTCAAGAAACACATTGTTAACTTAAGCAATTTTTGGATAAAAGTGGATTGCAAGG  
 ATATGATATGTCTACATTTATTAGACGGTATAGTAGACTTAAATGAAAAAGCAGTTTCATACAGACAA  
 GTTGCATTCGATTTCAAAAAGTGAAGAGAGGAGCTGATGGAGTTATGAGAACAATGAACACAGAAAAAC  
 TCTAAAAACTGTACCAATTATCCAAAATCAAATGGATGCACTTCTTGATTTTAAATGTTAATAGTAATGA  
 ACTTACAATGGGTAATAAATGCTGCCTTCATGCTCCTTCAAAGATGCCATTAGACTATTTGCAGCA  
 TACAATGAAGGAATTATTAATTTATTGGAAAAATATTTTGATATGAAAAAGAACCAGTGCAAAGAAGGTC  
 TTGACATCTATAAGAAGTTTCTGACTAGGATGACAAGAATCTCAGAGTTTCTGAAAGTTGACAGCAAGT  
 TGGAAATGACAGAGGAGATATCCAGATCTTTCACAGGCCCCAGCAGTCTTCTTGATGCTTTAGAACA  
 CATTTAGCTTCTTGGAAAGGAAAGAAAACAAAGATCCACAGCTGCAAGCAGGGCTACAACACTTTCCA  
 ATGCAGTCTCTTCTTGGCAAGCACTGGCCTATCTCTGACCAAAGTGGATGAAAGGGAAAAACAGGCAGC  
 ATTAGAGGAAGAACAGGCTCGTTTAAAAGCATTAAAGGAACAGCGTCTAAAAGAAGTTGCAAAGAAACCG  
 CATACCTCTCTAACAACTGCAGCCTCTCCGGTGTCCACCTCAGCAGGGGAATAATGACTGCACCAGCCA  
 TTGACATATTTTCTACCCCTAGTTCTTCTAACAGCACATCTAAGCTGCCAAATGACCTGCTTGACTTGCA  
 GCAGCCAACCTTTCACCCGTCTGTCCACGCCATGTCTGGCTGCTCCTCAGGGAGCGAGTACATGGGGAGAT  
 CCTTCTCTGCTACTCTAGATGCTGTTGAGGATGCCATTCCAAGCTTAAACCCTTCTCACA AAAAGTA  
 GTGGTGTGTTACCTGCCATTGCTTCAGATGTATCCACTTTTACTACTAGGACACCTACTCATGAGAT  
 GTTTGTTGGATTGAGTCTTCTCCAGTTGCACAGCCACATTCTTCAGCTGGCCTTAATGTTGACTTTGAA  
 TCTGTGTTGGAAATAAATCTACGAATGTTGCTGTAGATTCTGGTGGTGGACTTCTCAAACCAACAGTGG  
 CCTCCAGAACCAGAGTCTTCTGTTGCCAACTTCCGCCTAACAAATAGTGTCTGACGACTTGGATTCT  
 ATCTTTAGCCAACCTTGGGGCAATCTTGGCATTGGAATGGAACCACTAAGAATGATGTAAGTTGGAGT  
 CAACCAGGTGAAAAGAAGTTAACTGGAGGATCTAACTGGCAACCAAGGTTGCACCAACCACTGCCTGGA  
 GCGCTGCAACAATGAATGGCATGCATTTCCACAATACGCGCCCTGTAAATGGCCTATCCTGCTACTAC  
 ACCAACGGGCATGATAGGATATGGAATTCCTCCTCAGATGGGAAGTGTACCTGTAATGACACAACCAACC  
 TTAATATACAGCCAGCCTGTCATGAGACCACCAAAACCCCTTTGGCCCTGTATCAGGAGCAGAGATACAGT  
 TTATG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001252520

**Insert Size:** 1968 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<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><a href="#">NM_001252520.1</a></u> , <u><a href="#">NP_001239449.1</a></u>
<b>RefSeq Size:</b>	4159 bp
<b>RefSeq ORF:</b>	1968 bp
<b>Locus ID:</b>	233489
<b>UniProt ID:</b>	<u><a href="#">Q7M6Y3</a></u>
<b>Cytogenetics:</b>	7 50.47 cM
<b>Gene Summary:</b>	Cytoplasmic adapter protein that plays a critical role in clathrin-mediated endocytosis which is important in processes such as internalization of cell receptors, synaptic transmission or removal of apoptotic cells. Recruits AP-2 and attaches clathrin triskelions to the cytoplasmic side of plasma membrane leading to clathrin-coated vesicles (CCVs) assembly. Furthermore, regulates clathrin-coated vesicle size and maturation by directly sensing and driving membrane curvature. In addition to binding to clathrin, mediates the endocytosis of small R-SNARES (Soluble NSF Attachment Protein REceptors) between plasma membranes and endosomes including VAMP2, VAMP3, VAMP4, VAMP7 or VAMP8. In turn, PICALM-dependent SNARE endocytosis is required for the formation and maturation of autophagic precursors. Modulates thereby autophagy and the turnover of autophagy substrates such as MAPT/TAU or amyloid precursor protein cleaved C-terminal fragment (APP-CTF).[UniProtKB/Swiss-Prot Function]