

Product datasheet for **MC228582**

Picalm (NM_001252521) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Picalm (NM_001252521) 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: >MC228582 representing NM_001252521
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGGCCAGAGCCTGACGGACCGAATCACCGCGGCCAGCACAGTGTACTGGTCCGCGGTATCTA
 AGACAGTATGCAAGGCCACGACCCACGAGATCATGGGCCCAAGAAAAAGCACCTGGACTACTTAATTCA
 GTGTACAATGAGATGAATGTGAACATCCACAGTTGGCGGACAGTTTGTGGAAAGAACTACTAACAGT
 AGTTGGGTGGTGGTCTTCAAATCACTCATTACAACATCATTTTGGTGTATGGAAATGAGCGTTTCA
 TTCAGTATTTGGCTTCAAGAAACACATTGTTAACTTAAGCAATTTTTGGATAAAAGTGGATTGCAAGG
 ATATGATATGTCTACATTTATTAGACGGTATAGTAGACTTAAATGAAAAAGCAGTTTCATACAGACAA
 GTTGCATTCGATTTCAAAAAGTGAAGAGAGGAGCTGATGGAGTTATGAGAACAATGAACACAGAAAAAC
 TCTAAAAACTGTACCAATTATCCAAAATCAAATGGATGCACTTCTTGATTTTAAATGTTAATAGTAATGA
 ACTTACAATGGGGTAATAAATGCTGCCTTCATGCTCCTTCAAAGATGCCATTAGACTATTTGCAGCA
 TACAATGAAGGAATTATTAATTTATTGGAAAAATATTTTGATATGAAAAAGAACCAGTGCAAAGAAGGTC
 TTGACATCTATAAGAAGTTTCTGACTAGGATGACAAGAATCTCAGAGTTTCTGAAAGTTGACAGAGCAAGT
 TGGAAATGACAGAGGAGATATCCAGATCTTTCACAGGCCCCAGCAGTCTTCTTGATGCTTTAGAACA
 CATTTAGCTTCTTGGAAAGGAAAGAAAACAAAGATCCACAGCTGCAAGCAGGGCTACAACACTTTCCA
 ATGCAGTCTCTTCTTGGCAAGCACTGGCCTATCTCTGACCAAAGTGGATGAAAGGGAAAAACAGGCAGC
 ATTAGAGGAAGAACAGGCTCGTTTAAAAGCATTAAAGGAACAGCGTCTAAAAGAAGTTCGAAAGAAACCG
 CATACCTCTCTAAACAAGTGCAGCCTCTCCGGTGTCCACCTCAGCAGGGGAATAATGACTGCACCAGCCA
 TTGACATATTTTCTACCCCTAGTTCTTCTAACAGCACATCTAAGCTGCCAAATGACCTGCTTGACTTGCA
 GCAGCCAACCTTTCACCCGTCTGTCCACGCCATGTCCGGCTGCTCCTCAGGGAGCGAGTACATGGGGAGAT
 CCTTCTCTGCTACTCTAGATGCTGTTGAGGATGCCATTCCAAGCTTAAACCCTTCTCACAAAAAGTA
 GTGGTGTGTTCACTGCCATTGCTTCCAGATGTATCCACTTTTACTACTAGGACACCTACTCATGAGAT
 GTTTGTTGGATTGAGTCTTCTCCAGTTGCACAGCCACATTCTTCCAGCTGGCCTTAATGTTGACTTTGAA
 TCTGTGTTGGAAATAAATCTACGAATGTTGCTGTAGATTCTGGTGGCTTTGATGAACTAGGTGGACTTC
 TCAAACCAACAGTGGCCTCCAGAACAGAGTCTTCTGTTGCCAACTCCGCCTAACAAATTAGTGTC
 TGACGACTTGATTATCTTTAGCCAACCTTGTGGCAATCTTGGCATTGAAATGGAACCACTAAGAAAT
 GATGTAAGTTGGAGTCAACCAGGTGAAAAGAAGTTAACTGGAGGATCTAACTGGCAACCAAGGTTGCAC
 CAACAAGTGCCTGGAGCGCTGCAACAATGGCGCCCTGTAAATGGCCTATCCTGCTACTACCAACGGG
 CATGATAGGATATGGAATTCCTCCTCAGATGGGAAGTGTACCTGTAAATGACACAACCAACCTTAATATAC
 AGCCAGCCTGTATGAGACCACCAAAACCCCTTTGGCCCTGTATCAGGAGCACAGATACAGTTTAT**GTAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001252521

Insert Size: 1959 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.

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:	<ol style="list-style-type: none">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:	<u>NM_001252521.1, NP_001239450.1</u>
RefSeq Size:	4150 bp
RefSeq ORF:	1959 bp
Locus ID:	233489
UniProt ID:	<u>Q7M6Y3</u>
Cytogenetics:	7 50.47 cM
Gene Summary:	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]