

Product datasheet for **MC218618**

Picalm (BC025566) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Picalm (BC025566) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Picalm
Synonyms:	MGC19382, CALM, CLTH, MGC36413, MGC36616, PAP180, mKIAA4114
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC025566
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTGGCCAGAGCCTGACGGACCGAATCACCGCGGCCAGCACAGTGTACTGGTCCGCGGTATCTA
 AGACAGTATGCAAGGCCACGACCCACGAGATCATGGGCCCAAGAAAAAGCACCTGGACTACTTAATTCA
 GTGTACAATGAGATGAATGTGAACATCCACAGTTGGCGGACAGTTTGTGGAAAGAACTACTAACAGT
 AGTTGGGTGGTGGTCTTCAAATCACTCATTACAACATCATTTGATGGTGTATGGAAATGAGCGTTTCA
 TTCAGTATTTGGCTTCAAGAAACACATTGTTAACTTAAGCAATTTTTGGATAAAAGTGGATTGCAAGG
 ATATGATATGTCTACATTTATTAGACGGTATAGTAGACTTAAATGAAAAAGCAGTTTCATACAGACAA
 GTTGCATTGATTTCAAAAAGTGAAGAGAGGAGCTGATGGAGTTATGAGAACAATGAACACAGAAAAAC
 TCTTAAAAACTGTACCAATTATCCAAAATCAAATGGATGCACTTCTTGATTTTAAATGTTAATAGTAATGA
 ACTTACAATGGGGTAATAAATGCTGCCTTCATGCTCCTTCAAAGATGCCATTAGACTATTTGCAGCA
 TACAATGAAGGAATTATTAATTTATTGGAAAAATATTTTGATATGAAAAAGAACCAGTGCAAAGAAGGTC
 TTGACATCTATAAGAAGTTTCTGACTAGGATGACAAGAATCTCAGAGTTTCTGAAAGTTGACAGAGCAAGT
 TGGAAATGACAGAGGAGATATCCAGATCTTTCACAGGCCCCAGCAGTCTTCTTGATGCTTTAGAACA
 CATTTAGCTTCTTGGAAAGGAAAGAAAACAAAGATCCACAGCTGCAAGCAGGGCTACAACACTTTCCA
 ATGCAGTCTCTTCTTGGCAAGCACTGGCCTATCTCTGACCAAAGTGGATGAAAGGGAAAAACAGGCAGC
 ATTAGAGGAAGAACAGGCTCGTTTAAAAGCATTAAAGGAACAGCGTCTAAAAGAAGTTGCAAAGAAACCG
 CATACCTCTCTAACAACAGCAGCCTCTCCGGTGTCCACCTCAGCAGGGGGAATAATGACTGCACCAGCCA
 TCGACATATTTTCTACCCTAGTTCTTCTAACAGCACATCTAAGCTGCCAAATGACCTGCTTGACTTGCA
 GCAGCCAACCTTTCACCGTCTGTCCATGCCATGTCTGGCTGCTCCTCAGGGAGCGAGTACATGGGGAGGA
 TTCAGTCTTCTCCAGTTGCACAGCCACATTCTCAGCTGGCCTTAATGTTGACTTTGAATCTGTGTTTG
 GAAATAAATCTACGAATGTTGCTGTAGATTCTGGTGGCTTTGATGAACTAGGTGGACTTCTCAAACCAAC
 AGTGGCCTCCCAGAGCCAGAGTCTTCTGTTGCCAACTTCCGCCTAACAAATTAGTGTCTGACGACTTG
 GATTCACTTTAGCCAACCTTGTGGCAATCTTGGCATTGAAATGGAACCACTAAGAATGATGTAAGTT
 GGAGTCAACCAGGTGAAAAGAAGTTAACTGGAGGATCTAACTGGCAACCAAGGTTGCACCAACAACCTGC
 CTGGAGCGCTGCAACAATGAATGGCATGCATTTCCACAATACGCGCCCCCTGTAATGGCCTATCCTGCT
 ACTACACCAACGGGCATGATAGGATATGGAATTCCTCCTCAGATGGGAAGTGTACCTGTAATGACACAAC
 CAACCTTAATATACAGCCAGCCTGTCTGAGACCACCAACCCCTTTGGCCCTGTATCAGGAGCACAGAT
 ACAGTTTATGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: BC025566

Insert Size: 1833 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).

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: [BC025566](#), [AAH25566](#)

RefSeq Size: 3550 bp

RefSeq ORF: 1832 bp

Locus ID: 233489

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]