

Product datasheet for **MR209799**

Picalm (BC011470) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Picalm (BC011470) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Picalm
Synonyms:	MGC19382, CALM, CLTH, MGC36413, MGC36616, PAP180, mKIAA4114
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209799 representing BC011470
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGGCCAGAGCCTGACGGACCGAATCACCGCGCCAGCACAGTGTCACTGGTCCGCGGTATCTA
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CATACCTCTCTAAACAAGTGCAGCCTCTCCGGTGTCCACCTCAGCAGGGGAATAATGACTGCACCAGCCA
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ACCAACGGGCATGATAGGATATGGAATTCCTCCTCAGATGGGAAGTGTACCTGTAATGACACAACCAACC
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TTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR209799 representing BC011470
 Red=Cloning site Green=Tags(s)

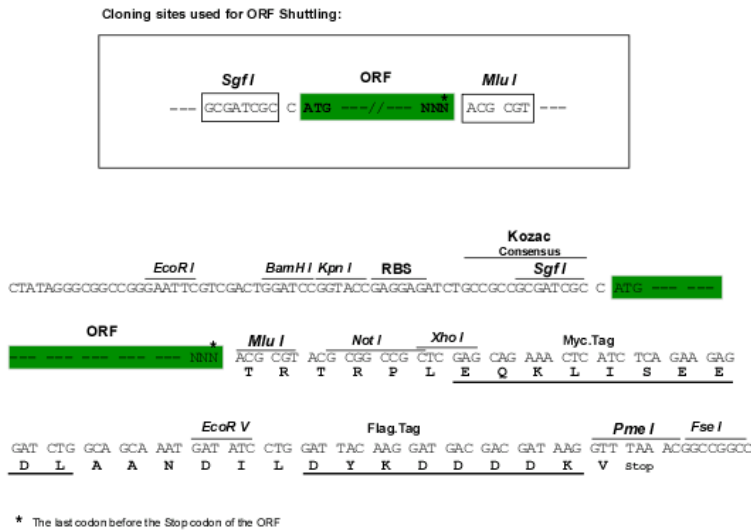
MSGQSLDTRITAAQHSVTGSAVSKTVCKATTHEIMGPKKKHLDYLIQCTNEMNVNIPQLADSLFERTTNS
 SWVVVFKSLITTHHLMVYGNERFIQYLASRNTLFNLSNFLDKSGLQGYDMSTFIRRYRYLNEKAVSYRQ
 VAFDFTKVKRGADGVMRTMTEKLLKTVPIIQNQMDALLDFNVNSNELNGVINAAMLLFKDAIRLFAA
 YNEGIINLLEKYFDMKKNQCKEGLDIYKFLTRMRISEFLKVAEQVGDIDRGDIPDLSQAPSSLLDALEQ
 HLASLEGKKIKDSTAASRATTLNAVSSLASTGLSLTKVDEREKQAALEEEQARLKALKEQRLKELAKKP
 HTSLTTAASPVSTSAAGIMTAPAIDIFSTPSSNSTSKLPNDLLDLQPTFFHPSVHMSAAPQGASTWGD
 PFSATLDAVEDAIPSLNPFLTKSSGDVHLPASDVSTFTTRTPTHEMFVGFSPSPVAQPHSSAGLNVD
 SVFGNKSTNVAVDSGGGLLKPTVASQNQSLPVAKLPPNKLVSDDLSSLANLVGNLIGNGTTKNDVSW
 QPGEKLLTGGSNWQPKVAPTTAWSAATMNGMHPQYAPPVMAYPATTPGTGMIYGYIPQMGVSPVMTQPT
 LIYSQPVMRPPNPFPGVSGAQIQFM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_e10.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: BC011470

ORF Size: 1965 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [BC011470.1](#)

RefSeq Size: 3371 bp

RefSeq ORF: 1967 bp

Locus ID: 233489

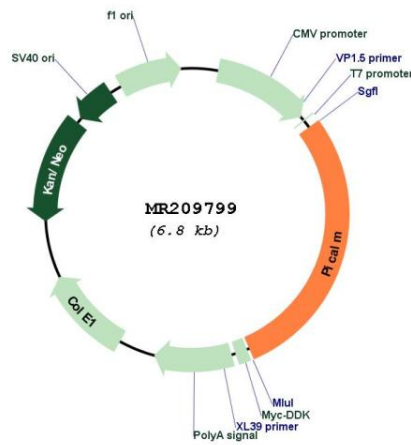
Cytogenetics: 7 50.47 cM

MW: 123.5 kDa

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]

Product images:



Circular map for MR209799