

Product datasheet for **RG213791**

PICALM (NM_007166) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PICALM (NM_007166) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PICALM
Synonyms:	CALM; CLTH; LAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213791 representing NM_007166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCGGCCAGAGCCTGACGGACCGAATCACTGCCGCCAGCACAGTGTACCCGGCTCTGCCGTATCCA
 AGACAGTATGCAAGGCCACGACCCACGAGATCATGGGGCCCAAGAAAAAGCACCTGGACTACTTAATTCA
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 CATGATAGGATATGGAATTCCTCCACAAATGGGAAGTGTCTCTGTAATGACGCAACCAACCTTAATATAC
 AGCCAGCTGTATGAGACCTCCAAACCCCTTTGGCCCTGTATCAGGAGCACAGATACAGTTTATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213791 representing NM_007166
 Red=Cloning site Green=Tags(s)

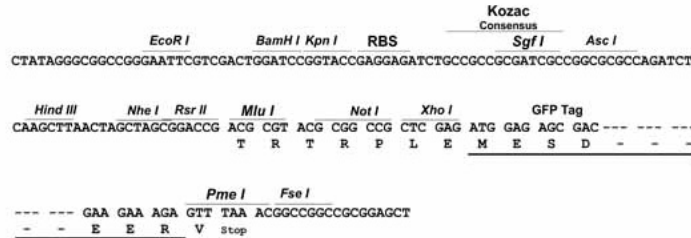
MSGQSLDRITAAQHSVTGSVSKTVCKATTHEIMGPKKKHLDYLIQCTNEMNVNIPQLADSLFERTTNS
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 SVFGNKSTNIVDSGGFDELGGLLKPTVASQNLNPKVAKLPPSKLVSDLLDSSLANLVGNLIGIGNTTKN
 DVNWSQPGEKLLTGGSNWQPKVAPTTAWNAATMAPVMAYPATPTGMIGYGIQPMGSPVPMVTQPTLIY
 SQPVMRPPNPFPGPVSGAQIQFM

TRTRPLE – GFP Tag – V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_007166

ORF Size: 1956 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: [NM_007166.4](#)

RefSeq Size: 3860 bp

RefSeq ORF: 1959 bp

Locus ID: 8301

UniProt ID: [Q13492](#)

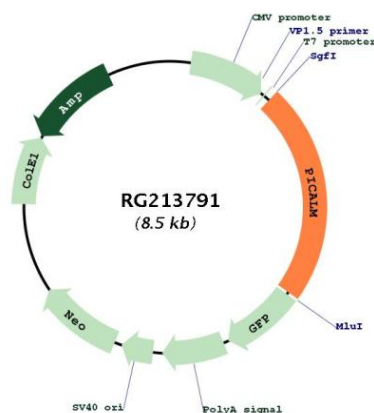
Cytogenetics: 11q14.2

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]

Product images:



Circular map for RG213791

