

## Product datasheet for RC237106

### ALP (PDLIM3) (NM\_001257962) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALP (PDLIM3) (NM_001257962) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALP
Synonyms:	ALP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237106 representing NM_001257962 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCCCAGACGGTGATCCTCCCGGGCCCTGCGCCCTGGGGCTTCAGGCTCTCAGGGGGCATAGACTTCA  
ACCAGCCTTTGGTCATCACCAGGATTACACCAGGAAGCAAGCGGCAGCTGCCAACCTGTGCTGGAGA  
TGTCATCCTGGCTATTGACGGCTTTGGGACAGAGTCCATGACTCATGCTGATGCGCAGGACAGGATTA  
GCAGCAGCTCACCAGCTGTGCTCAAAATTGACAGGGGAGAACTCACTTATGGTCTCCACAAGTATCTG  
AAGATGGGAAAGCCCATCTTTCAAATCAACTTAGAATCAGAACCACAGGACGGGAACACTTTGAACA  
CAAGCATAATATTCGGCCCAAACCTTTCTGTGATCCCGGGCCGAAGCAGCGAGCCACAGCCTCGGTGCC  
CCCGAGTCGGACGTGTACCGGATGCTCCACGACAATCGGAATGAGCCACACAGCCTCGCCAGTCGGCT  
CCTTCAGAGTGCTCCAGGGAATGGTGGACGATGGCTCTGATGACCGTCCGGCTGGAACGCGGAGTGTGAG  
AGCTCCGGTGACGAAAGTCCATGGCGGTTACGGCGGGGCACAGAGGATGCCGCTCTGTGACAAATGTGGG  
AGTGGCATAAGTCGGTGTGTGGTGAAGGCGGGGATAAGTACCGGCACCTGAGTGTCTCGTGTGTGCCG  
ACTGCAACCTCAACCTCAAGCAAAGGGCTACTTCTCATAGAAGGGGAGCTGTACTGCGAAACCCACGC  
AAGAGCCCGCACAAAGCCCCAGAGGGCTATGACACGGTCACTCTGTATCCCAAAGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237106 representing NM\_001257962  
Red=Cloning site Green=Tags(s)

MPQTVILPGPAPWGFRLSGGIDFNQPLVITRITPGSKAAAANLCPGDVILAIIDGFGTESMTHADAQDRIK  
 AAAHQCLCLKIDRGETHLWSPQVSEDGKAHPFKINLESEPDGNYFEHKHNIRPKPFVIPGRSSEPTASVP  
 PESDVYRMLHDNRNEPTQPRQSGSFRVLQGMVDDGSDDRPAGTRSVRAPVTKVHGGSGGAQRMLCDKCG  
 SGIVGAVVKARDKYRHPECFVCADCNLNLKQKGYFFIEGELYCETHARARTKPPGYDVTLYPKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001257962

**ORF Size:** 828 bp

**OTI Disclaimer:** 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\\_001257962.1](#), [NP\\_001244891.1](#)

**RefSeq Size:** 2589 bp

**RefSeq ORF:** 831 bp

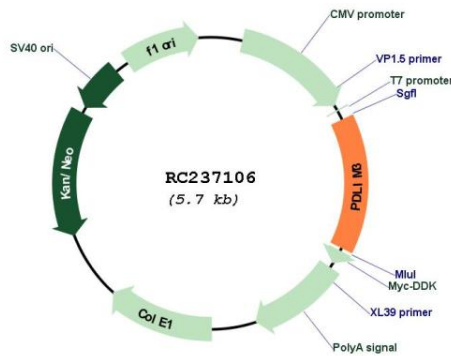
**Locus ID:** 27295

**Cytogenetics:** 4q35.1

**MW:** 30.6 kDa

**Gene Summary:** The protein encoded by this gene contains a PDZ domain and a LIM domain, indicating that it may be involved in cytoskeletal assembly. In support of this, the encoded protein has been shown to bind the spectrin-like repeats of alpha-actinin-2 and to colocalize with alpha-actinin-2 at the Z lines of skeletal muscle. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. Aberrant alternative splicing of this gene may play a role in myotonic dystrophy. [provided by RefSeq, Apr 2012]

### Product images:



Circular map for RC237106