

Product datasheet for **SC127543**

ALP (PDLIM3) (BC001017) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALP (PDLIM3) (BC001017) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALP
Synonyms:	ALP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for BC001017, the custom clone sequence may differ by one or more nucleotides

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CGGAGTGGCTGCCCTGCGCGGGGACACTCAGAGCCCGGTGGGCGGGAGGAAGCGGCATGCCCCAGACGG
TGATCCTCCCGGGCCCTGCGCCCTGGGGCTTCAGGCTCTCAGGGGGCATAGACTTCAACCAGCCTTTGGT
CATCACCAGGATTACACCAGGAAGCAAGGCGGCAGCTGCCAACCTGTGTCTGGAGATGTCATCCTGGCT
ATTGACGGCTTTGGGACAGAGTCCATGACTCATGCTGATGCGCAGGACAGGATTAAGCAGCAGCTCACC
AGCTGTGTCTCAAATTGACAGGGGAGAACTCACTTATGGTCTCCACAAGTATCTGAAGATGGGAAAGC
CCATCCTTTCAAATCAACTTAGAATCAGAACCACAGGAATCAAACCCATTGGTACCGCGCACAAACAGA
AGGGCCCAGCCTTTTGTGCAGCTGCAAACATTGATGACAAAAGACAGGTAGTGAGCGCTTCTATAACT
CGCCAATTGGGCTCTATTCAACTAGCAATATACAAGATGCGCTTCACGGACAGCTGCGGGTCTCATTCC
TAGCTCACCTCAAAGACGGGAACACTTTGAACACAAGCATAATATTCGGCCCAAACCTTTCGTGATCC
CGGGCCGAAGCAGGTCATAAGCGCTGAGACTGTGGAGTTGCAGTGCATGCTTCTAAATCAGTTCTTAC
TAATCATCAAGAAAAGTAACTGGTAGATGTTTGGAGTGGCTTTTCTCATTGCGAAGCTTATTTCAAAGC
AAAAAGAAAACAACTCACTTGGCAGAGAACAGAAGCCAAATAACTTGCATTTCCAAGAGTAAATATTGAC
AAGATGACAGAGCTGTGAAATTGTATGCAATCACCACGTGATTTATAGCGAACCCCTGAGGCTCTGG
GGATCCCATCCAGAACTGTGACCTTTGAGTCGGGCAGTCAGTATGTCTATCCAGGTCAGGAAAGCCC
TGCCAGCAGGAGCGAGCATGGAACCAGCCCGGTTAGGAGGAAGGAATCAGGTGAACAAGCCAGAATGA
TAAGGAGCAAGCTCTTCTTCTCGTCTCTCAGTAGAGAACTGATCATCTTCAGATCATCCTTTTCAAAT
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CAGTGACTTCAGGAAACCTCTGTTCCATCCTTCTGACCTCAGCTAAGCCAGTCAGCCACAGGAAGGAAG
CTGGTGGTTAGACCGGATTGATTCGACAGGAACATTGAATATGATTTACCGCAGCTGTGCAAACTGAT
GGCCCATAGGTGGATTTATTTACAGGCATGTTTTATTTAATTCTTTTGTAAAAAAGAAAGAAAT
TAAGTGCCTTTAGACAGAACATTTAAACTCACCATCTTGTCAAATGCACATCACTCTTAAAGTGTGTGAG
ACACGGCCATTTTCATACATGTGTGACCTCCTGGCCCTCTAGACACCCGAGCTTATGACTCCTGTCTAT
AAGCTGCGGATAGCAGGTCATCCCTTATGTATGATTTCCATGTCCAGACCTTTCAGGAAGCTACAGGCAG
AGCCAGGTGATTGTCTCAAATATGCCAGACAATCTTGTGATATCAGATCCAGAAAGGAGCCCTGGACC
AGAGGAGCAGGAGAAAGGCGTTAAGAAGGCAACCATGAGCAAACACATCTTCCCCCCTAGAACGTGAG
CTCAGTGTCTGCAGGGGCTGGTCTGACTGGCTCAACATTATACCCCCAGCACCTAGAAATGAGACAGAA
TAAATGCTCAATAAGCGACCATCTACAACAGACAAAATAAATGCCCAATAAATGCTCACTGGATAAAGG
AATCAAATCCTGAGGGTGCACAACATTTCCAAGCAAGTGGCAAGAAGAGTCCAGAGCCGCTCGCTCCC
GATGCTGGCAGCTCTGTGTCTCTCTCTCTATGTGTTCCCTCGTTTCATCTGTTCTCATCT
GCATCTTTTCCGTTTCTCCACTTCAACAGCTTCCCCACCCCAACCCCAATAACAAAACACTGGA
TTTAAAGTAAAAGGATATGATATTTTACTGTTGAATATATACAACTTCCCAAAGAGCATAGTAAAT
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TGAATAAAGTGATACGTTAGAGTAACACATATCCTGCCTTTACTAAAAACCTATAACATTTAATTTTATA
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ACATAGGGATAATGGCAAGCCACTATAATGTTGTCATTTGAAGATCACACCTTTAATGTAGTGAATT
TGGAAAGAGAGAAGGAGAGAAACAGAAAATGAGAAGGTTTGCTTAAAAAACAGATGCCAGTGCACAACTT
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AAAATTAGCTGGGCATGGTGGCGGGCACCTGTAATCCCAGCTACTGGGGAGGCTGAGGCAGGAGAATCGC
CTGAGCCTGGGAGGCGGAGGTTGTAGTGAGCTGAGATCATGCCACTGCAACAAGCGTGAGACTCCATCTC
AAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for BC001017 unedited</p> <pre>TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAGTGGCTGCC TGCGCGGGGACACTCAGAGCCCGGTGGGCGGGAGGAAGCGGCATGCCCCAGACGGTGAT CCTCCCGGGCCCTGCGCCCTGGGCTTCAGGCTCTCAGGGGCATAGACTTCAACCAGCC TTTGGTCATCACCAGGATTACACCAGGAAGCAAGCGGCAGCTGCCAACCTGTGCTCTGG AGATGTCATCCTGGCTATTGACGGCTTTGGGACAGAGTCCATGACTCATGCTGATGCGCA GGACAGGATTAAGCAGCAGCTCACCAGCTGTGTCTCAAAATTGACAGGGGAGAACTCA CTTATGGTCTCCACAAGTATCTGAAGATGGGAAAGCCCATCTTTCAAAATCAACTTAGA ATCAGAACCACAGGACGGAACTACTTTGAACACAAGCATAATATTTCGGCCCAAACCTTT CGTGATCCCGGGCCGAAGCAGGTCATAAGCGCTGAGACTGTGGAGTTTGCAGTGCATGCT TCTTAAATCAGTCTTACTAATCATCAAGAAAAGTAACTGGTAGATGTTTGGAGTGGCTT TTCTCATTGCGAAGCTTATTTCAAAAGCAAAAAGAAACAACTCACTTGGCAGAAGACAG AAGCCAAAATAACTTGCATTTCCAAGAGTAAATATTGACAAGATGACAGAGCCTGTGAAA TTGTATGCAATCACCACGTGATTTATAGCGAACCCCTGAGGCTCTGGGGATCCCTAC AATACACTGTGACCTTTGAGTCGGGCAGTCAGTATGTCTATCCCCAGTCAAGTACAGCCC TGCCACANGAGCGAGCCTGGGAACCCGCCCGGTTAGGAGGAAGGATCCAGTGACAAGC CCTAATGAAAAGACCAACCTCT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for BC001017 unedited</p> <pre>ATGGAACGGCGGCCGCAATCTAGNGTCGAGTTTTTTTTTTTTTTTTTTTGGAGATGGAGTCT CACGCTTGTTGCAGTGGCATGATCTCAGCTCACTACAACCTCCGCCTCCCAGGCTCAGGC GATTCTCTGCCTCAGCCTCCCCAGTAGCTGGGATTACAGGTGCCCGCCACCATGCCCAG CTAATTTTTTGTATTTTTGGTAGACATGGGTTACACCATGTTGGCCAGGATGGTCTCGA ACTCCTGACCTTGTGATTCGCCCACCTCTGTCTCCAAAGTGCTGGGATTACAGGTGTGA GCCATCGCACCAGGCCTATAATTCTTTAAGATTTGTGCACTGGCATCTGTTTTTAAAGC AAACCTTCTCATTCTGTTTCTCTCCTTCTCTTCCAAATTCAGCTACATTAAGGTTG TGATCTTCAAATGACAACATTATGAGTGGCTTGCATTATCCCTATGTTTAAAGTAAAAT GAAAAATTTTTTAAAAGGTGATTATATACCTAGGATTCTCTGACTTTCCTGACTTTTTTA TAAAATTAATGTTATAGTTTTTAGTAAAGGCAGGATATGTGTTACTCTAACGTATCAC TTTATTCAAGCCTTCTGAAGCCCCAGAGCTTGTGTGGTGGACTCAGTCACACTAACCTG AAAAGAATGCAAGTGATTAATTNTACTATGCTTCTTTGGGAAGNTGTATATATTCAACAG TAAAATATCATATCCTTTTAAACCTTTAATCCAGTGTTTTGGTATTGGNGTTGGTTGNGC TGGGAAAGCTGTTGAAAAGTGGAAAACCGCAAAGAGCCGATGAGAACGAGTTGAACGAGG GAACACTACAGAGAGCGGGAAGGACCAAGCTGCCACCTCGGGACGAGACGCTCTGACTTT CTGCATTGCTTGGAAAGTTGGCACCTAGGATTTGATCTTATCGGGACATTATGCCTTTTT TGCTGTTGCAAGGCG</pre>
Restriction Sites:	NotI-NotI
ACCN:	BC001017
Insert Size:	3180 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: [BC001017.1](#)

RefSeq Size: 2819 bp

RefSeq ORF: 2819 bp

Locus ID: 27295

Cytogenetics: 4q35.1

Domains: PDZ, ZM

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]