

Product datasheet for SC313141

ALP (PDLIM3) (NM_014476) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALP (PDLIM3) (NM_014476) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDLIM3
Synonyms:	ALP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_014476 edited
 ATGCCCCAGACGGTGATCCTCCCGGGCCCTGCGCCCTGGGGCTTCAGGCTCTCAGGGGGC
 ATAGACTTCAACCAGCCTTTGGTCATCACCAGGATTACACCAGGAAGCAAGGCGGCAGCT
 GCCAACCTGTGTCTGGAGATGTCATCCTGGCTATTGACGGCTTTGGGACAGAGTCCATG
 ACTCATGCTGATGCGCAGGACAGGATTAAGCAGCAGCTCACCAGCTGTGTCTCAAAATT
 GACAGGGGAGAACTCACTTATGGTCTCCACAAGTATCTGAAGATGGGAAAGCCCATCCT
 TTCAAAATCAACTTAGAATCAGAACCACAGGACGGGAACACTTTGAACACAAGCATAAT
 ATTCGGCCCAAACCTTTCTGTGATCCCGGGCCGAAGCAGTGGATGCAGCACTCCCTCCGGG
 ATTGACTGTGGCAGTGGACGCAGCACCCCTTCTTCTGTCACTGTTAGTACCATTTGC
 CCAGGTGACTTAAAAGTTGCGGTAAGCTGGCCCTAACATTCTTTGAAATGGAAGT
 CCTGGTGTGAAGATTGTACATGCTCAGTTAATACACCTATGCAGTTGTACTCAGATGAC
 AATATTATGAAAACACTCCAGGGTCAGGTTTCAACAGCCCTAGGGGAAACACCTTTGATG
 AGCGAGCCACAGCCTCGGTGCCCCCGAGTCGGACGTGTACCGGATGCTCCACGACAAT
 CGGAATGAGCCCACACAGCCTCGCCAGTCGGGCTCCTTCAGAGTGTCCAGGGAATGGTG
 GACGATGGCTCTGATGACCGTCCGGCTGGAACGCGGAGTGTGAGAGCTCCGGTGACGAAA
 GTCCATGGCGGTTGAGCGGGGCACAGAGGATGCCGCTCTGTGACAAATGTGGGAGTGGC
 ATAGTTGGTGTGTGGTGAAGGCGCGGGATAAGTACCGGCACCCTGAGTGCTTCGTGTGT
 GCCGACTGCAACCTCAACCTCAAGCAAAAGGGCTACTTCTCATAGAAGGGGAGCTGTAC
 TGCGAAAACCCACGCAAGAGCCCGCACAAAGCCCCAGAGGGCTATGACACGGTCACTCTG
 TATCCCAAAGCTTAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014476 unedited
GACCATATGTATACGACTCCTATAGGGCGGCCGGAATTCGGCACGAGGGGAGTGGCTGC
CCTGCGCGGGGACACTCAGAGCCCGGTGGGCGGGAGGAAGCGGCATGCCCCAGACGGTG
ATCCTCCCGGGCCCTGCGCCCTGGGGCTTCAGGCTCTCAGGGGGCATAGACTTCAACCAG
CCTTTGGTCATCACCAGGATTACACCAGGAAGCAAGCGGCAGCTGCCAACCTGTGTCT
GGAGATGTCATCTGGCTATTGACGGCTTTGGGACAGAGTCCATGACTCATGCTGATGCG
CAGGACAGGATTAAGCAGCAGCTCACCAGCTGTGTCTCAAAATTGACAGGGGAGAACT
CACTTATGGTCTCCACAAGTATCTGAAGATGGGAAAGCCATCCTTTCAAATCAACTTA
GAATCAGAACCACAGGACGGGACTACTTTGAACACAAGCATAAATATTCGGCCCAAACT
TTCGTGATCCCGGGCCGAAGCAGTGGATGCAGCACTCCCTCCGGGATTGACTGTGGCAGT
GGACGCAGCACCCCTTCTGTGTCAGTACTGTTAGTACCATTTGCCAGGTGACTTGAAA
GTTGCGGCTAAGCTGGCCCTAACATTCCTTTGAAAATGGAACCTCCTGGTGTGAAGATT
GTACATGCTCAGTTTAATACACCTATGCAGTTGACTCAGATGACAATATTATGGAAACA
CTCCAGGGTCAGTTTCAACAGCCCTAGGGGAAACACCTTTGATGAGCGAGCCACAGCCT
CGGTGCCCCCGAGTCGGACGTGTACCGGATGCTCCACGACATCGGAATGAGCCACACA
GCCTCCGCCAGTCGGGCTCTTCAAGTGCTCAGGAATGGTGGACGATGGCTCTGATGACCG
TCCGGCTGGAACGGCGGGAGTGTGGGAGAGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014476 unedited
TGGCAATGCACCTCAGGGCCGAGAGCACTTGGGGAGGGGTCACAGGGATGCCACCCGGG
ATCTGTTCAAGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTT
TTTTTGTTTTTATTTTTAAATCTTTTATGTATTTATTATGTTTGTTCATCGAGTGGCA
TAATTGTTGAATACAAAATAAAGAAATTCAGGGAATTTCTCCCTAACATGCACTGTAA
TAGTTAAAACACATACAGACAACCTGCAGATTATGTTAGAATACAAGATTGTTATTTGCTA
TTTACCACAATTGCAAAATCAACTGTCAAGGAAAGACAATTAGAGTCCTTCAAATATCT
TGATGTTTATGTGTTGATGGCTGTAATATACATGTAAATTTGGGAGTATGACATACAAA
AAATTATTGCTTTAAATATCATTATTGCTAGCCCCAAAAGAGTTGCAAAACATAGCTAA
GTGATGTTTTTTTACATAGCAGGCATTTGCCTCCCATTCTTTTCTCAATAAACAAT
AGGATAAAGGTCTAAAGCCTTGACTTTAGATTTGGAGTTGACAATCTGCACAATCCTTCT
GCCCAAAGCCATGAATGTCTTCTCGTGAAGTGCAGTGGGTGGGTGCGTGCGTGCGTGC
CACGCCTGCAGAGACTTAAGCTTTGGGATACAGAGTGACCGTGTGCATAGCCCTCTGGGG
CTTTGTGCGGGCTCTTGGGTGGTTTCGAGTACAGCTCCCCTTCTATGAAGAAGTAGCC
CTTTTGCTTGAGTTGAGTTGAGTTCAGTTCGACACACGAAGCACTCAGGTGCCGTAATATCC
CGGCCTTACCACAGCACCAACTATGCCACTCCCCACA

Restriction Sites:

Please inquire

ACCN:

NM_014476

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).

OTI Annotation:

The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.

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_014476.1](#), [NP_055291.1](#)

RefSeq Size: 1722 bp

RefSeq ORF: 1095 bp

Locus ID: 27295

UniProt ID: [Q53GG5](#)

Cytogenetics: 4q35.1

Domains: PDZ, LIM, 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.