

Product datasheet for **SC125367**

alpha Adducin (ADD1) (NM_176801) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Adducin (ADD1) (NM_176801) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha Adducin
Synonyms:	ADDA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_176801, the custom clone sequence may differ by one or more nucleotides

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ATGAATGGTGATTCTCGTGCTGCGGTGGTGACCTCACCACCCCGACCACAGCCCCTACAAGGAGAGGT
ACTTCGACCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCA
GGACTTCAACATGATGGAGCAAAAAGAAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAA
TTGGAATCAATGATACAGGAGCAATTTAAGAAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGA
TTGCAGATTTTATGACCACGAATGTACCAATGTCTACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTT
AAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTTAGAGGATCTGATTCTATTGCGTATGACAAA
GGAGAGAAGTTATTACGGGTGTAATTTGGCAGCGTTTTATAGACTAGCAGATCTCTTTGGGTGGTCTCAGC
TTATCTACAATCATATCACAACCAGAGTGAACCTCGAGCAGGAACACTTCCTCATTGTCCCTTTGGGCT
TCTTTACAGTGAAGTGACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGATATAGTAGATCGTGGA
AGCACTAATCTGGGAGTGAATCAGGCCGGCTTCACCTTACTCTGCAATTTATGCTGCACGCCCGGACG
TGAAGTGGTTCGTGCACATTCACACCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTCTTGCC
AATCTCCCGGAGGCGCTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
GAGGAAAAAGTTTTGATTGAGAAAAATCTGGGGCCTAAAAGCAAGGTTCTTATTCTCCGGAACCATGGGC
TCGTGTGACTGGAGAGAGCGTTGAGGAGGCTTCTATTACATCCATAACCTTGTGGTTGCCTGTGAGAT
CCAGGTTCCGAACCTCTGGCCAGTGCAGGAGGACCAGACAACCTTAGTCTGCTGAATCTTGAGAAGTACAAA
GCCAAGTCCCGTTCAGGAGGCTCCCGTAGGGGAAGGCACTGGATCGCTCCCAAGTGGCAGATTGGTG
AGCAGGAATTTGAAGCCCTCATGCGGATGCTCGATAATCTGGGCTACAGAAGTGGCTACCCTTATCGATA
CCCTGCTCTGAGAGAGAAGTCTAAAAAATACAGCGATGTGGAGGTTCTGCTAGTGTACAGGTTACTCC
TTTCTAGTGACGGTGATTCGGGCACTTCTCCCACTCAGACACAGTTTTTCAGAAGCAGCAGCGGGAGA
AGACAAGATGGCTGAACTCTGGCCGGGGGACGAAGCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAA
GTCAAGACTAAGGTGTGGACGAACATTACACACGATCACGTGAAACCCTTGCTGCACTCTCTCGTCC
GGTGTCTGCGTGCCAAGCTGTATTACCAACTGCTTGTGGACTAAAGAGGATGGACATAGAAGTCCACCT
CTGCTGTCCCTAACCTGTTTGTCCATTGAACACTAACCCAAAAGAGGTCAGGAGATGAGGAACAAGAT
CCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCAGGTTTTGTGTGGTGTAGTGATG
GACAGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAGTACCAGCCCC
ACGTATTGTGAGCACCAGGGCCCAACCCCTTACCACACTCACAGACCGTGAGCTGGAGGAGTACCG
CAGGGAGGTGGAGAGGAAGCAGAAGGGCTCTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAAGAAAG
AGTCTCCAGACCAGCCTGCGGTCCCCACCCGCTCCAGCAGCTCCCATCAAGCTGGAGGAAGGAGACG
GATGCGCTAGAGAGTACCTGTTACCTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_176801 unedited

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TTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGGAGAGGCCTGGCGGGCC
GCTGCTGCGGGCCAGGGACGGGGCGGAGCCGAGCCGAGCCGACGGGCGGTGGCCGC
ACTGGGACCCCGAATCCCGCGCGCTGCCACGATTTCGCTTCTGAGGAACCTAGAAAAGAT
TGTACAATGAATGGTGATTCTCGTGCTGCGGTGGTGACCTCACCACCCCGACCAGCC
CCTCACAAGGAGAGGTACTTCGACCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAG
AGGAACATGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAAAGAAGAGGGTG
TCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAA
TTTAAGAAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGATTGCAGATTTTATG
ACCACGAATGTACCAATGTCTACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAAC
ATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTTAGAGGATCTGATTCTATTGCGTAT
GACAAAGGAGAGAAGTTATTACGGTGTAAATTGGCAGCGTTTTATAGACTAGCAGATCTC
TTTGGGTGGTCTCAGCTTATCTACAATCATATCACAACCAGAGTGAACCTCGAGCAGGAA
CACTTCCTCATTGTCCCTTTTGGGCTTCTTTACAGTGAAGTGACTGCATNCAGTTTGGTT
AAGATCAATCTACANGGAGATATAGTAGATCGTGGAAAGCACTAATCTGGGAGTGAATCA
GCCGGCTTCACTTACACTCTGCATTATGCTGCACCCCGGACGTG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_176801 unedited CCGGGATTGTCGATTTTTTATTGTGNAGTAAAAGTGTACTGGNANAAGGNCATTCAG GACCTGTCCTCCCAGTCGGTGTCCATATATGCAACTATATTTTCATGTTGTAATACAAAGG ATTAAACTACAAAAGTAAAAATTTAAAGTCAATGCATATGTGGGGTAAAGGAGGGGATAA AGGAAGAGTCCACGGTTAAGGACTTTTCATTCTGCCTTGGCAACAAAACGACACAGAAGA GAGGCAGCACGCTTGCCCGCGTAGCAGGCCCTGCGGCTCAGAGGAAGCTGGAAGCGGCGG TCAGTGCCATGCAGCAGCCTGGTTCTCGCTCGGCTGGCCAATCAGTGGGATCCGAGGTGG CTCGGCCCATCATGCCAGGATCTGAGCCACATCTGGCACCAGCTCTACCAAGGCCTG TTGGGCCACACAAGCTTGCCTGTACTAGTCAGGCTGGTACCGGCACCTCCTGAAATGG GTCACCCTCCGGTTCCTGCTCAGCAGCTCTGAGCCCTTTTCCAGCCTCTTGGAGGAAAGT AACAAACACAGCATCTGCCGAGGAGCACACGGTTCAGGCTCCATCAATGACGGTGATGTC GAGGGGCCCCAGGGCTACCCTCCACCTCGAGTTACCTTTGATCACAACACTAGGGCATCTTT CTGGCTGAGTTAAGGTGAGAACAGTCCCCTGAAGCCTCCCCCAATAAGTAAAAAGTGCT CTACTGTGGGGTCTGAAAAGGAGAAAAGCAAAAAGCAGCCTATTCACCTTTACAGTTCGA AAATGTAAGCTAAATTGTAACCTGCTCAAAGAAAATTCTAGAAAGGCCTTTTCCCTCC TGATTACCTCCCTATGACAGGGATTGAGAAACCCCGTAAAAAGGAACCGAGCTCTGG ATCTGTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_176801
Insert Size:	5000 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:	<ol style="list-style-type: none"> 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:	<u>NM_176801.1, NP_789771.1</u>
RefSeq Size:	4068 bp
RefSeq ORF:	1989 bp
Locus ID:	118
UniProt ID:	<u>P35611</u>
Cytogenetics:	4p16.3
Protein Families:	Druggable Genome

Gene Summary:

Adducins are a family of cytoskeletal proteins encoded by three genes (alpha, beta, and gamma). Adducin acts as a heterodimer of the related alpha, beta, or gamma subunits. The protein encoded by this gene represents the alpha subunit. Alpha- and beta-adducin include a protease-resistant N-terminal region and a protease-sensitive, hydrophilic C-terminal region. Adducin binds with high affinity to Ca(2+)/calmodulin and is a substrate for protein kinases A and C. [provided by RefSeq, Aug 2017]

Transcript Variant: This variant (4) utilizes an alternate splice site and includes an additional exon in the coding region, which results in a frameshift, compared to variant 2. The encoded protein (isoform d) contains an early stop codon and shorter C-terminus, compared to isoform b.