

Product datasheet for **SC108900**

alpha Adducin (ADD1) (NM_001119) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Adducin (ADD1) (NM_001119) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha Adducin
Synonyms:	ADDA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001119, the custom clone sequence may differ by one or more nucleotides

```
ATGAATGGTGATTCTCGTGCTGCGGTGGTGACCTCACCACCCCGACCACAGCCCCTACAAGGAGAGGT
ACTTCGACCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCA
GGACTTCAACATGATGGAGCAAAAGAAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAA
TTGGAATCAATGATACAGGAGCAATTTAAGAAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGA
TTGCAGATTTTATGACCACGAATGTACCAAATGTCTACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTT
AAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTTAGAGGATCTGATTCTATTGCGTATGACAAA
GGAGAGAAGTTATTACGGGTGTAATTTGGCAGCGTTTTATAGACTAGCAGATCTCTTTGGGTGGTCTCAGC
TTATCTACAATCATATCACAACCAGAGTGAACCTCCGAGCAGGAACACTTCCTCATTGTCCCTTTGGGCT
TCTTTACAGTGAAGTGACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGATATAGTAGATCGTGGA
AGCACTAATCTGGGAGTGAATCAGGCCGGCTTCACCTTACTCTGCAATTTATGCTGCACGCCCGGACG
TGAAGTGGTCTGTCACATTCACACCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTCTTGCC
AATCTCCCGGAGGCGCTTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
GAGGAAAAAGTTTTGATTCAGAAAAATCTGGGGCCTAAAAGCAAGGTTCTTATTCTCCGGAAACCATGGGC
TCGTGTGACTTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTGGTTGCCTGTGAGAT
CCAGGTTCTGAACTCTGGCCAGTGAGGAGGACCAGACAACCTTAGTCTGCTGAATCCTGAGAAGTACAAA
GCCAAGTCCCCTTCCCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTG
AGCAGGAATTTGAAGCCCTCATGCGGATGCTCGATAATCTGGGCTACAGAAGTGGCTACCCTTATCGATA
CCCTGCTCTGAGAGAGAAGTCTAAAAAATACAGCGATGTGGAGGTTCTGCTAGTGTACAGGTTACTCC
TTTGCTAGTGACGGTGATTTCGGCACTTGTCTCCCACTCAGACACAGTTTTTCAGAAGCAGCAGCGGAGA
AGACAAGATGGCTGAACTCTGGCCGGGGCAGCAAGCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAA
GTCGAAGACTAAGTGGACTAAAGAGGATGGACATAGAAGTTCACCTCTGCTGTCCCTAACCTGTTTGT
CCATTGAACACTAACCCAAAAGAGGTCCAGGAGATGAGGAACAAGATCCGAGAGCAGAATTTACAGGACA
TTAAGACGGTGGCCCTCAGTCCAGGTTTTGTGTGGTGTAGTGTGACAGGAGCCTCGTCCAGGGAGA
GCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAGTACCAGCCCCACGTCATTGTGAGCACCAGGGC
CCCAACCCCTTACCACACTCACAGACCGTGAGCTGGAGGAGTACCGCAGGGAGGTGGAGAGGAAGCAGA
AGGGCTCTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAAAAGAGTCTCCAGACCAGCCTGCGGT
CCCCACCCGCTCCAGCACTCCCATCAAGCTGGAGGAAGACCTTGTGCCGGAGCCGACTACTGGAGAT
GACAGTGTGCTGCCACCTTTAAGCCAACCTCTCCCGATCTGTCCCTGATGAACCTTCAAGAGCACTCG
GTTCCCAATGTTAGAGAAGGAGGAGGAAGCCATAGACCCCAAGCCCACTGAGGCCCTACTGAGGC
CAGCCCCGAGCCAGCCCCAGACCAGCCCCGGTGGCTGAAGAGGCTGCCCCCTCAGCTGTGAGGAGGGG
GCCCGCGGACCCCTGGCAGCGATGGGTCTCCAGGCAAGTCCCGTCCAAAAAGAAGAAGTTCCGTA
CCCCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTGACTCTGA
```

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001119 unedited GGGTTACAGGATTAGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGCTGCTG CGGGCCAGGGGACGGGGCGGAGCCGGAGCCGGAGCCGACGGGCGGTGGCCGCACTGGGA CCCCGGAATCCCGCGCGCTGCCACGATTTCGCTTCTGAGGAACCTAGAAAAGATTGTACAA TGAATGGTGATTCTCGTGTGCGGTGGTGACCTACCACCCCGACCACAGCCCTCACA AGGAGAGGTACTTCGACCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAGAGGAACA TGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAAGAAGAGGGTGTCCATGA TTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAATTTAAGA AGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGATTGCAGATTTTATGACCACGA ATGTACCAAATGTCTACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAACATGAGTC TTGGTATGGTGACTCCTGTGAACGATCTTAGAGGATCTGATTCTATTGCGTATGACAAAG GAGAGAAGTTATTACGGTGTAATTGGCAGCGTTTNTATAGACTAGCAGATCTCTTTGGG TGGTCTCAGCTTATCTACAATCATATCACAAACCAGAGTGAACCTCCGAGCAGGAACACTTC CTCATTGTCCCTTTTGGGCTTCTTACAGTGAAGTGACTGCATCCAGTTTTGTTAAGATC AATCTACANGGAGATATAGTAGATCGTGAAGCACTAATCTGGGAGTGAATCANGCCGGC TTCACCTTACACTCTTGAATTATGCTGCACCCCGGACGTGAATGCGTGTGCACCTCC ACACCCACAGGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001119 unedited NNGGTGCATTTTAGCAAGGACTTGCTGNAAGNATTTTATTTGTGAGTAAAACATGTTAC ACTGNNAGAAAAGGACATTCAGGACCTGCCTCCCAAGTCGGTGTCCATATATGCAACTAT ATTTTCATGTTGTAATACAAAGGATTAAGTACAAAAGTAAAATTTAAAAGTCATTGCATA TGTGGGGTAAAGGAGGGGATAAAGGAAGAGTCCACGGTTAAGGACTTTTCATTCTGCCTT GGCAACAAAACGACACAGAAGAGAGGCAGCAGCTTGCCCGCGTAGCAGGCCCTGCGGCT CAGAGGAAGCTGGAAGCGGCGGTGAGTCCATGCAGCAGCCTGGTTCTCGCTCGGCTGGC CAATCAGTGGGATCCGAGGTGGCTCGGCCCATCATGCCAGGATCTGAGCCACATCTGG CACCAGCTTACCAAGGGCTGTTGGGCCACACAAGCTTGCTGTACCTAGTCAGGCTG GTACCGGCACCTCCTGAAATGGGTCACCCTCCGGTTCCTGCTCAGCAGCTCTGAGCCCTT TTCCAGCTCTTGAGGGAAGTAACAACAACAGCATCTGCCGAGGAGCACACGGTTACAGG CTCCATCAATGACGGTGATGTCGAGGGGGCCAGGGCTACCCTCCACCTCGAGTTACCTT TGATCACAACTAGGCATCTTTCTGGCTGAGTTAAGGTGAGAACAGTCCCCTGAAGCCTC CCCCAAATAAGTAAAAGTGCTCTACTGTGGGGTCTGGAAGAAAAGAAGCATAAAGCAGC CTATTCACGTTACAGTCGAAAAATGTAAGCTAAATTGTAAGTAAAGTCTCAAGAAAATTC TAGAAAGGGCTCTCCCTTCTGATTACCCTCCCTTTGACAGGGATCCATAGACCCAAGT GAAAAGAACTGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001119
Insert Size:	4700 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: [NM_001119.3](#), [NP_001110.2](#)

RefSeq Size: 3970 bp

RefSeq ORF: 2214 bp

Locus ID: 118

UniProt ID: [P35611](#)

Cytogenetics: 4p16.3

Domains: Aldolase_II

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 (1) utilizes an in-frame alternate splice site in the coding region, compared to variant 2. This results in a shorter protein (isoform a), compared to isoform b. Variants 1, 6, and 7 all encode the same isoform (a).