

Product datasheet for **SC115129**

alpha Adducin (ADD1) (NM_014189) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Adducin (ADD1) (NM_014189) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADD1
Synonyms:	ADDA
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014189, the custom clone sequence may differ by one or more nucleotides

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ATGAATGGTGATTCTCGTGCTGCGGTGGTGACCTCACCACCCCGACCACAGCCCCTCACAAGGAGAGGT
ACTTCGACCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCA
GGACTTCAACATGATGGAGCAAAAAGAAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAA
TTGGAATCAATGATACAGGAGCAATTTAAGAAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGA
TTGCAGATTTTATGACCACGAATGTACCAAATGTCTACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTT
AAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTTAGAGGATCTGATTCTATTGCGTATGACAAA
GGAGAGAAGTTATTACGGGTGTAATTTGGCAGCGTTTTATAGACTAGCAGATCTCTTTGGGTGGTCTCAGC
TTATCTACAATCATATCACAACCAGAGTGAACCTCCGAGCAGGAACACTTCCTCATTGTCCCTTTGGGCT
TCTTTACAGTGAAGTGACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGATATAGTAGATCGTGGA
AGCACTAATCTGGGAGTGAATCAGGCCGGCTTCACCTTACTCTGCAATTTATGCTGCACGCCCGGACG
TGAAGTGGTCTGTCACATTCACACCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTCTTGCC
AATCTCCCGGAGGCGCTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
GAGGAAAAAGTTTTGATTCAGAAAAATCTGGGGCCTAAAAGCAAGTTCTTATTCTCCGGAACCATGGGC
TCGTGTGAGTTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTGGTTGCCTGTGAGAT
CCAGGTTCCGAACCTCTGGCCAGTGCGAGGAGGACCAGACAACCTTAGTCTGCTGAATCCTGAGAAGTACAAA
GCCAAGTCCCCTTCCCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTG
AGCAGGAATTTGAAGCCCTCATGCGGATGCTCGATAATCTGGGCTACAGAACCTGGCTACCCTTATCGATA
CCCTGCTCTGAGAGAGAAGTCTAAAAAATACAGCGATGTGGAGGTTCTGCTAGTGTACAGGTTACTCC
TTTGCTAGTGACGGTGATTCGGGCACTTGTCTCCCACTCAGACACAGTTTTTCAGAAGCAGCAGCGGGAGA
AGACAAGATGGCTGAACTCTGGCCGGGGCGACGAAGCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAA
GTGCAAGACTAAGGTGTGGACGAACATTACACACGATCACGTGAAACCCTTGCTGCACTCTCTCGTCC
GGTGTCTGCGTGCCAAGCTGTATTACCAACTGCTTGTGGACTAAAGAGGATGGACATAGAACTTCCACCT
CTGCTGTCCCTAACCTGTTTGTCCATTGAACACTAACCCAAAAGAGGTCAGGAGATGAGGAACAAGAT
CCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCCAGGTTTTGTGGTGTAGTGATG
GACAGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAGTACCAGCCCC
ACGTCATTGTGAGCACCACGGGCCCAACCCCTTCACCACACTCACAGACCGTGAGCTGGAGGAGTACCG
CAGGGAGGTGGAGAGGAAGCAGAAGGGCTCTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAAAAG
AGTCCTCCAGACCAGCCTGCGGTCCCCCACC CGCTCCCAGCACTCCCATCAAGCTGGAGGAAGACCTTG
TGCCGGAGCCGACTACTGGAGATGACAGTGATGCTGCCACCTTTAAGCCAACCTCTCCCCGATCTGTCCCC
TGATGAACCTTCAGAAGCACTCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCCATAGACCCCAAGC
CCCCTGAGGCCCTACTGAGGCCAGCCCCGAGCCAGCCCAGCCCAGCCCCGGTGGCTGAAGAGGCTG
CCCCCTCAGTGTGAGGAGGGGGCCGCGGACCTGGCAGCGATGGGTCTCCAGGCAAGTCCCCGTC
CAAAAAGAAGAAGAAGTCCGTACCCCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTGACTCCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014189 unedited
 GGGGTTGGNNTTTTGTATACGATTCATATAGGGCGGCCGGAATTCGCACCAGGCGGGCC
 GCTGCTGCGGGCCAGGGGACGGGGCGGAGCCGGAGCCGGAGCCGACGGGCGGTGGCCGC
 ACTGGGACCCCGGAATCCCGCGCTGCCACGATTTCGTTCTGAGGAACCTAGAAAGAT
 TGTACAATGAATGGTGATTCTCGTGCTGCGGTGGTGACCTCACCACCCCGACCACAGCC
 CCTCACAAAGGAGAGGTACTTCGACCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAG
 AGGAACATGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAGAAGAGGGTG
 TCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAA
 TTTAAGAAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGATTGCAGATTTTATG
 ACCACGAATGTACCAATGTCTACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAAC
 ATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTTAGAGGATCTGATTCTATTGCGTAT
 GACAAAGGAGAGAAGTTATTACGGTGTAATTTGGCAGCGTTTTATAGACTAGCAGATCTC
 TTTGGGTGGTCTCAGCTTATCTACAATCATATCACACCAGAGTGAACCTCCGAGCAGGAA
 CACTTCTCATTGTCCCTTTTGGGCTTCTTTACAGTGAAGTGACTGCATCCAGTTTGGTT
 AAGATCAATCTACAGGAGATATAGTAGATCGTGAAGCACTAATCTGGGAGTGAATCANG
 CCGGCNTCACCTTACACTCTGCATTATGCTGCAGCCNGACGTGAAGTGCCTGCTGCAC
 ATTACACNCCAGCAGGGCTGCCGCTCTGCATGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014189 unedited
 GGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGTGAAAGATTTTATTTGTGAG
 TAAAACATGTTACTGAGAAAGGACATTCAGGACCTGTCTCCCAAGTCGGTGTCCAT
 ATATGCAACTATATTTTCATGTTGTAATACAAAGGATTAACACTACAAAAGTAAAAATTA
 AGTCATTGCATATGTGGGTAAAGGAGGGGATAAAGGAAGAGTCCACGGTTAAGGACTTT
 TCATTCTGCCTTGGAACAAAACGACACAGAAGAGAGGCAGCACGCTTGCCCGCTAGCA
 GGCCCTGCGGCTCAGAGGAAGCTGGAAGCGGCGGTGAGTCCATGCAGCAGCCTGGTTCT
 CGCTCGGCTGGCCAATCAGTGGGATCCGAGGTGGCTCGGCCCATCATGCCAGGATCTGA
 GCCACATCTGGCACCAGCTCTACCAAGGGCCTGTTGGGCCACACAAGCTTGCCTGTAC
 CTAGTCAGGCTGGTACCGGCACCTCCTGAAATGGGTCAACCTCCGGTTCCTGCTCAGCAG
 CACTGTAGCCCTTTTCCAGCCTCTTGGAGGGAGTAACAACAACAGCATCTGCCGAAGAGCA
 CACGGTTCAAGCTCCATCAATGACGGTGTGTCGAGGGGCCCCAGGGCTACCTTCCACC
 TCGAGTTACCTTTGATCACAACTAGGGCATCTTTTCTGGCTGAGATAAAGGTGAGAACAG
 TTCCCCTGAAGCCTTCCCCCAAATAGGGAAAAAGTGCTCTACTGNTGGGGTCTGGAAGA
 AGAAAAGCAANAAGCAGCCCTATTTTCGTTCCACAGTCGAAAAAATGTAGCCTAAATTGTA
 AACCTGCTCTAAGAAAATTCTAGAAAGCCTTTTCCCCTCTGAATAACTTCCCTTTGAC
 CGGATTCAAAACCCAGTGGAAGAACCCTGACCTCCTGATTTGATCTGTCCAAGGATCCC
 GGCCAAACATGCTAAATAACTTTGGGGCACACGCCATTGCCNTGGGTTTCTGCCCAA
 TTGGGCCAACTGCCTTTAGGCCTGGGGNACCAATGTTACGGACCAGCTGTTATAATAA
 T

Restriction Sites:

NotI-NotI

ACCN:

NM_014189

Insert Size:

4000 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_014189.2](#), [NP_054908.2](#)

RefSeq Size: 4063 bp

RefSeq ORF: 2307 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 (2) encodes isoform b.