

Product datasheet for **SC126647**

gamma Adducin (ADD3) (NM_016824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Adducin (ADD3) (NM_016824) Human Untagged Clone
Tag:	Tag Free
Symbol:	gamma Adducin
Synonyms:	ADDL; CPSQ3
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 NM_016824, the custom clone sequence may differ by one or more nucleotides

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ATGAGCTCAGATGCCAGCCAAGGCGTGATTACCACTCCTCCTCCTCCAGCATGCCTCACAAGAGAGAT
ATTTTGACCGCATCAATGAAAAATGACCCAGAATACATTAGGGAGAGGAACATGTCTCCTGATCTACGACA
AGACTTCAACATGATGGAGCAGAGGAAACGAGTTACTCAGATCCTGCAAAGTCTGCCTTTCGGGAAGAC
TTGGAATGCCTTATTCAAGAACAGATGAAGAAAGGCCACAACCCAAGTGGATTACTAGCATTACAGCAGA
TTGCAGATTACATCATGGCCAATTCTTTCTCGGGTTTTCTTACCTCCTCCTCAGTCTTGGCATGGTCAC
ACCTATCAATGACCTTCTGGTGCAGATACATCCTCATATGTGAAGGGAGAAAACTTACTCGCTGTAAA
CTTGCCAGCCTGTACAGACTTGTAGACTTGTGGATGGGCACACCTGGCAAATACCTATATCTCAGTAA
GAATAAGTAAGGAGCAAGACCACATTATAATAATCCCAGAGGCCTATCTTTTTCTGAAGCTACAGCCTC
CAATTTGGTGAAAGTCAATATAATAGGAGAAGTGGTTGACCAGGGAAGTACCAATTTGAAAATTGACCAT
ACAGGATTCAGTCCCATGCTGCAATCTATTCAACACGTCCTGATGTTAAGTGTGTGATACACATCCATA
CCCTTGAACAGCAGCTGTATCCTCCATGAAATGTGGGATCCTTCCAATTTCTCAAGAGTCTCTTCTCT
GGGAGATGTTGCCTATTATGACTACCAAGGTCACCTGAAAGAACAGGAGGAGAGAATTCAACTGCAGAAG
GTTCTGGGACCAAGTTGTAAAGGTGCTGGTACTCAGGAATCATGGTGTGGTTGCACTTGGAGAAAACATTAG
AGGAGGCTTTTTCATTATATTTTTAATGTGCAACTAGCCTGTGAGATTGAGGTGCAGGCCCTAGCAGGTGC
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TCTGGTGGAGGAGGTGTGAATATGGGTTCCCATCAAAAATGGAAGGTTGGCGAAATTGAGTTTGAAGGGC
TTATGAGGACTCTGGACAACCTGGGGTATAGAACAGGCTATGCTTACAGGCATCCTCTATTTCGAGAGAA
GCCTAGGCACAAGAGTGTGGAATCCCAGCAACTGTGACTGCTTTTTCTTTGAAAGACGATACAGTG
CCTCTCTCCTCTCAAATACATGGCACAGAGGCAACAGCGTGAAAAACAAGATGGCTGAACTCACCAA
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TTTGTTCTTTAAACACAAAACCGAATGAGGTAAGTACTAGAAAAGAGAAAATAAGATTCGGGAACAAAATCGAT
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TATGCAATTTGAAGATGATGATCATGGCCACCAGCTCCTCCTAACCCATTTAGTCATCTCACAGAAGGA
GAACTTGAAGATATAAGAGGACAATCGAACGTAACAACAAGGCCTAGAAGATGCTGAGCAGGAATTAC
TCTCAGATGACGCTTCATCTGTTTCACAAATTCAGTCTCAAACCTCAGTCACCGCAAAAATGTCCTGAAAA
ATTAGAAGAAAACCATGAGCTGTTTTCCAAGAGCTTCATCTCCATGGAAGTGCCTGTGATGTTAGTAAAT
GGCAAGGATGATATGCATGATGTTGAAGATGAGCTTGCTAAGCGAGTGAGTAGGTTAAGCACAAGTACAA
CCATAGAAAACATCGAGATTACTATTAAGTCTCCAGAGAAAATCGAAGAAGTCTGTACCTGAAGGCTC
CCCTTCAAATCGCCATCCAAGAAAAAGAAGAAATTCGCACTCCTTCTTTTCTGAAAAAGAACAAAAAA
AAGGAGAAAGTTGAGGCCTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016824 unedited
TCAAAATTTGTAATACGACTCACTATAGGGCGGCCGNAATTCGCACGAGGCCGTAACG
GTCCCCAGTGTGAGGGGGCGGGNAGGGAAAGAGAGGGTTTAAATTAGATTTTTTAA
AACACAGAGCAAGCGCCAGAGGCGTCGGCATCCCAGGTGTCGCCGCTTCTGTGCACAG
GGCTCGGCGTACAGGTCCTCCTCCTCAAGCCCCCTCCCCTTCCC GCCCTACCCTCT
GGGGCTTGC GCGCTTAAGAGGCGGCCGAGCGGGGATCCGGCGGCTGCTGCAGCCCG
GGCGGTGCCGAGAAGGAGGGAGGGGAAACAAAGCCGGCTACGCGCTGCGAGATAACA
AGAGTAATCCACAGACTTAAAACATGAGCTCAGATGCCAGCCAAGGCGTGATTACCACTC
CTCCTCCTCCCAGCATGCCTCACAAAGAGAGATATTTTGACCGCATCAATGAAAAATGACC
CAGAATACATTAGGGAGAGGAACATGTCTCCTGATCTACGACAAGACTTCAACATGATGG
AGCAGAGGAAACGAGTTACTCAGATCCTGCAAAGTCTGCCTTTTCGGGAAGACTTGGAAT
GCCTTATTCAAGAACAGATGAAGAAAGGCCACAACCCAACTGGATTACTAGCATTACAGC
AGATTGCAGATTACATCATGGCCAATTCTTCTCGGGTTTTTCTCACCTCCTCTCAGTA
AGAATAAGTAAGGAGCAAGACCACATTATAATAATCCCAGAGGCTATCTTTTTCTGAA
GCTACAGCCTNCAATTTGGNTGAAAGTCAATATATAGGGAAAAGTGGTTGACCCGGGAAG
TACCCAATTGAAAAATGACCATACAGGATTCAGTCCCCATGCTGCAATCTATTACACGT
NCTGATGTTAAAGTGTGTGATACACATCCATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016824 unedited
NNTTTTAGCTTGACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGCAG
AGTTAAACTAAAATAACCCATGTTATGTGTACAAAATCCCCTTTGTTGAAAAATAAGGGC
TTTCTAAACTAATAAAAAAGGAAGTTTTCAAAAATTATAGTTTATTAACAACCTTTTTT
GGCAAACAAAGTTACTTCAGGTGAGGAAATTTTACTGTGAATAAAATCCAAATGAAT
CTTTTCTTAAACTTTTTAAAAAATTATGTGCCAGTGTATACTAATGCTATAGATTCTTG
TCTTAGAAGTTTTTAAAGCATTCTGTTAATGCCCACTGAAACAATGGGACTCCAAAAATA
TAGTCAATAATCATGATAAAAAATTATAATATGATTATCAAGTGAAGCAGGTATTGAGAA
ATAAAAATTCTCACTTGCTCACTGGCAATTTCTTTCTAACAGATATTATGGAGAAGGCT
GAAGTAATTCAGACAGATAGCTGTTTATGGTGAATTATAATAACTTTCATGAGGGCAGA
GCTAATTAACACTAGTAATTGCTTAAAATCAAAGCCATTTCTGGACATATAAAATGAGA
GATGAATCTGAAAGTTTTTCTTTTGTAAAACCTTTCCAGTTCTTAAAGTCCAGTTTGC
TACATCCCCCAATCTGATCTACCATTGCATATTAATGATCAACTTAAATGTGGTATTTAG
ATGTGCAATGTCACATTGTTATAATAAATTATAAAAAGACTCTATTTAGGCCTCAACT
TTCTCCTTTTTTTTGGTCTTTTTTCAGAAAAGAAGGAGTGC GGAATTTCTTTTTTCTT
GGATGCCGATTTTGAAGGNAGCCTTCACGTGACAGGACTCCTTCGATTNTCTCTGGA

Restriction Sites:

NotI-NotI

ACCN:

NM_016824

Insert Size:

2770 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_016824.3](#), [NP_058432.1](#)

RefSeq Size: 4454 bp

RefSeq ORF: 2121 bp

Locus ID: 120

UniProt ID: [Q9UEY8](#)

Cytogenetics: 10q25.1-q25.2

Domains: Aldolase_II

Gene Summary: Adducins are heteromeric proteins composed of different subunits referred to as adducin alpha, beta and gamma. The three subunits are encoded by distinct genes and belong to a family of membrane skeletal proteins involved in the assembly of spectrin-actin network in erythrocytes and at sites of cell-cell contact in epithelial tissues. While adducins alpha and gamma are ubiquitously expressed, the expression of adducin beta is restricted to brain and hematopoietic tissues. Adducin, originally purified from human erythrocytes, was found to be a heterodimer of adducins alpha and beta. Polymorphisms resulting in amino acid substitutions in these two subunits have been associated with the regulation of blood pressure in an animal model of hypertension. Heterodimers consisting of alpha and gamma subunits have also been described. Structurally, each subunit is comprised of two distinct domains. The amino-terminal region is protease resistant and globular in shape, while the carboxy-terminal region is protease sensitive. The latter contains multiple phosphorylation sites for protein kinase C, the binding site for calmodulin, and is required for association with spectrin and actin. Alternatively spliced adducin gamma transcripts encoding different isoforms have been described. The functions of the different isoforms are not known. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1 and 4-6 encode the same isoform (a).