

## Product datasheet for **SC302974**

### gamma Adducin (ADD3) (NM\_001121) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Adducin (ADD3) (NM_001121) Human Untagged Clone
Tag:	Tag Free
Symbol:	gamma Adducin
Synonyms:	ADDL; CPSQ3
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001121, the custom clone sequence may differ by one or more nucleotides  
 ATGAGCTCAGATGCCAGCCAAGGCGTGATTACCACTCCTCCTCCTCCCAGCATGCCTCAC  
 AAAGAGAGATATTTTGACCGCATCAATGAAAATGACCCAGAATACATTAGGGAGAGGAAC  
 ATGTCTCCTGATCTACGACAAGACTTCAACATGATGGAGCAGAGGAAACGAGTTACTCAG  
 ATCCTGCAAAGTCTGCCTTTTCGGGAAGACTTGGAAATGCCTTATTCAAGAACAGATGAAG  
 AAAGGCCACAACCCAACCTGGATTACTAGCATTACAGCAGATTGCAGATTACATCATGGCC  
 AATTCTTTCTCGGGTTTTTCTTACCTCCTCTCAGTCTTGGCATGGTCACACCTATCAAT  
 GACCTTCTGGTGCAGATACATCCTCATATGTGAAGGGAGAAAACTTACTCGCTGTAAA  
 CTTGCCAGCCTGTACAGACTTGTAGACTTGTGGATGGGCACACCTGGCAAATACCTAT  
 ATCTCAGTAAGAATAAGTAAGGAGCAAGACCACATTATAATAATCCCAGAGGCTATCT  
 TTTTCTGAAGCTACAGCCTCCAATTTGGTGAAGTCAATATAATAGGAGAAGTGGTTGAC  
 CAGGGAAGTACCAATTTGAAAATGACCATACAGGATTCAGTCCCATGCTGCAATCTAT  
 TCAACACGTCCTGATGTTAAGTGTGTGATACACATCCATACCCTTGCAACAGCAGCTGTA  
 TCCTCCATGAAATGTGGGATCCTTCCAATTTCTAAGAGTCTCTTCTTGGGAGATGTT  
 GCCTATTATGACTACCAAGGGTCACTTGAAGAACAGGAGGAGAGAATTCAACTGCAAGAAG  
 GTTCTGGGACCAAGTTGAAGGTGCTGGTACTCAGGAATCATGGTGTGGTTGCACTTGGGA  
 GAAACATTAGAGGAGGCTTTTTCATTATATTTTTAATGTGCAACTAGCCTGTGAGATTGAG  
 GTGCAGGCCCTAGCAGGTGCAGGTGGAGTAGACAATCTCCATGTACTGGACTTTTCAGAAG  
 TATAAAGCTTTCACTTACACTGTAGCAGCGTCTGGTGGAGGAGGTGTGAATATGGGTTCC  
 CATCAAAAATGGAAGGTTGGCGAAATGAGTTTGAAGGGCTTATGAGGACTCTGGACAAC  
 TTGGGGTATAGAACAGGCTATGCTTACAGGCATCCTCTCATTGAGAGAAGCCTAGGCAC  
 AAGAGTGATGTGGAAATCCCAGCAACTGTGACTGCTTTTTCTTTGAAAGACGATACAGTG  
 CCACTCTCTCCTCAAATACATGGCACAGAGGCAACAGCGTGAAAAACAAGATGGCTG  
 AACTCACCAAATACTTACATGAAAGTGAATGTGCCTGAGGAGTCTCGAACCGGAGAAACC  
 AGTCCCGAACCAAAATCACGTGGATGAAAGCAGAAGACTCATCTAAAGTTAGTGGTGGGA  
 ACACCTATCAAAAATGAAGATCCAAATCAGTTTGTTCCTTTAAACACAAACCCGAATGAG  
 GTACTAGAAAAGAGAAAATAAGATTCGGGAACAAAATCGATATGACTTGAAAACAGCAGGA  
 CCACAATCTCAGTTGCTTGTGGAATTGTTGTGGATAAGCCACCTTCTACTATGCAATTT  
 GAAGATGATGATCATGGCCACCAGCTCCTCCTAACCCATTTAGTCATCTCACAGAAGGA  
 GAACCTTGAAGAGTATAAGAGGACAATCGAACGTAACAACAAGGCCTAGAAGAAAACCAT  
 GAGCTGTTTTTCCAAGAGCTTCATCTCCATGGAAGTGCCTGTCATGGTAGTAAATGGCAAG  
 GATGATATGCATGATGTTGAAGATGAGCTTGTAAAGCGAGTGAGTAAAGCAAAAGT  
 ACAACCATAGAAAACATCGAGATTACTATTAAGTCTCCAGAGAAAATCGAAGAAGTCTGT  
 TCACCTGAAGGCTCCCCTTCAAATCGCCATCCAAGAAAAAGAAGAAATCCGCACTCCT  
 TCTTTTCTGAAAAAGAACAAAAAAGGAGAAAGTTGAGGCCTAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001121

**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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001121.2](#), [NP\\_001112.2](#)

**RefSeq Size:** 4358 bp

**RefSeq ORF:** 2025 bp

**Locus ID:** 120

**UniProt ID:** [Q9UEY8](#)

**Cytogenetics:** 10q25.1-q25.2

**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 (3) lacks an alternate in-frame exon in the 3' coding region compared to variant 1. The encoded isoform (b) is shorter than isoform a. Both variants 2 and 3 encode the same isoform (b).