

Product datasheet for **SC310209**

alpha Adducin (ADD1) (NM_014190) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Adducin (ADD1) (NM_014190) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADD1
Synonyms:	ADDA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310209 representing NM_014190.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAATGGTGATTCTCGTGCTGCGGTGGTGACCTCACCACCCCGACCACAGCCCTCACAAGGAGAGG
TACTTCGACCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGC
CAGGACTTCAACATGATGGAGCAAAAGAAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTCTGTGAA
GAATTGGAATCAATGATACAGGAGCAATTTAAGAAGGGGAAGAACCCACAGGCCTATTGTCATTACAG
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CGCCCGGACGTGAAGTGGTCTGTCACATTCACACCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGT
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CCTGAGAAGTACAAGCCAAGTCCCGTTCCCCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCC
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CGCAGGGAGGTGGAGAGGAAGCAGAAGGGCTCTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAA
AAGAGTCTCCAGACCAGCCTGCGGTCCCCACCCGCTCCAGCACTCCCATCAAGCTGGAGGAAGGA
GACGGATGCGCTAGAGAGTACCTGTTACCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map: □

ACCN: NM_014190

Insert Size: 1896 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).

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:	<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:	NM_014190.3
RefSeq Size:	4004 bp
RefSeq ORF:	1896 bp
Locus ID:	118
UniProt ID:	P35611
Cytogenetics:	4p16.3
Domains:	Aldolase_II
Protein Families:	Druggable Genome
MW:	70 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) includes an additional exon in the 3' coding region, which results in a frameshift, compared to variant 2. The encoded protein (isoform c) contains an early stop codon and shorter C-terminus, compared to isoform b. Variants 3, 9, and 10 all encode the same isoform (c).</p>