

Product datasheet for **RC223881**

alpha Adducin (ADD1) (NM_001119) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Adducin (ADD1) (NM_001119) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	alpha Adducin
Synonyms:	ADDA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC223881 representing NM_001119
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAATGGTGATTCTCGTCTGCGGTGGTGACCTCACCACCCCGACCACAGCCCTCACAAGGAGAGGT
ACTTCGACCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCA
GGACTTCAACATGATGGAGCAAAAAGAAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAA
TTGGAATCAATGATACAGGAGCAATTTAAGAAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGA
TTGCAGATTTTATGACCACGAATGTACCAATGTCTACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTT
AAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTTAGAGGATCTGATTCTATTGCGTATGACAAA
GGAGAGAAGTTATTACGGGTGTAATTGGCAGCGTTTTATAGACTAGCAGATCTCTTTGGGTGGTCTCAGC
TTATCTACAATCATATCACAAACCAGAGTGAACCTCCGAGCAGGAACACTTCCTCATTGTCCCTTTGGGCT
TCTTTACAGTGAAGTACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGATATAGTAGATCGTGGA
AGCACTAATCTGGGAGTGAATCAGGCCGCTTACCTTACACTCTGCAATTTATGCTGCACGCCCGGACG
TGAAGTGCCTGCTGCACATTCACACCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTCTTGCC
AATCTCCCGGAGGCGCTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
GAGGAAAAAGTTTTGATTGAGAAAAATCTGGGGCCTAAAAGCAAGGTTCTTATTCTCCGGAACCATGGGC
TCGTGTCAAGTGGAGAGAGCGTTGAGGAGGCTTCTATTACATCCATAACCTTGTGGTTGCCTGTGAGAT
CCAGGTTCAACTCTGGCCAGTGCAGGAGGACCAGACACTTAGTCTGCTGAATCCTGAGAAGTACAAA
GCCAAGTCCCGTTCCCGAGGCTCCTGGTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTG
AGCAGAAATTTGAAGCCCTCATGCGGATGCTCGATAATCTGGGCTACAGAAGTGGCTACCTTATCGATA
CCCTGCTCTGAGAGAGAAGTCTAAAAAATACAGCGATGTGGAGGTTCTGCTAGTGTACAGGTTACTCC
TTTGCTAGTGACGGTGATTCGGGCACTTCTCCCACTCAGACACAGTTTTTCAGAAGCAGCAGCGGGAGA
AGACAAGATGGCTGAACTCTGGCCGGGCGACGAAGCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAA
GTCAAGACTAAGTGGACTAAAGAGGATGGACATAGAAGTCCACCTCTGCTGTCCCTAACCTGTTTGT
CCATTGAACACTAACCCAAAAGAGGTCCAGGAGATGAGGAACAAGATCCGAGAGCAGAATTTACAGGACA
TTAAGACGGCTGGCCCTCAGTCCAGGTTTTGTGGTGTAGTGTGACAGGAGCCTCGTCCAGGGAGA
GCTGGTGACGGCCTCAAGGCCATCATTGAAAAGGAGTACCAGCCCCACGTATTGTGAGCACCACGGC
CCCAACCCCTTACCACACTCACAGACCTGAGCTGGAGGAGTACCGCAGGGAGGTGGAGAGGAAGCAGA
AGGGCTCTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAAGAAAGAGTCTCCAGACCAGCCTGCGGT
CCCCACCCGCTCCAGCACTCCCATCAAGCTGGAGGAAGACCTTGTGCCGGAGCCGACTACTGGAGAT
GACAGTGTGCTGCCACCTTTAAGCCAAGTCTCCCGATCTGTCCCTGATGAACCTTCAAGCACTCG
GCTTCCAATGTTAGAGAAGGAGGAGGAAGCCATAGACCCCAAGCCCCACTGAGGCCCTACTGAGGC
CAGCCCCGAGCCAGCCCCAGACCCCGGTGGCTGAAGAGGCTGCCCTCAGCTGTGAGGAGGGG
GCCCGCGGACCCTGGCAGCGATGGGTCTCAGGCAAGTCCCGTCCAAAAAGAAGAAGTTCCGTA
CCCCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTGACTCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223881 representing NM_001119
 Red=Cloning site Green=Tags(s)

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLRRNMAPDLRQDFNMMEQKKRVSMILQSPAFCEE
 LESMIQEQFKGKNPTGLLLALQQIADFMTTNVNVYPAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDK
 GEKLLRCKLAIFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIVDRG
 STNLGVNQAGFTLHSAIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDE
 EEKVLIQKNLGPVSKVLIILRNHGLVSVGSEVVEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLNPEKYK
 AKSRSPGSPVGEVGTGSPPKWQIGEQEFEALMRMLDNLGYRTGYRYRYPALREKSKKYSVDEVPASVTGYS
 FASDGDGSGTCSPLRHSFQKQREKTRWLNSSRGDEASEEGQNGSSPKSKTKWTKEDGHRTSTSAVPLFV
 PLNTNPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVVMDRSLVQGELVASKAIIEKEYQPHVIVSTTG
 PNPFTTLTDRELEEYRREVERKQKQSEENLDEAREQKEKSPDPQAVPHPPPSTPIKLEEDLVPEPTTGD
 DSDAATFKPTLPDLSPDEPSEALGFPMLEKEEEAHRPPSPTEAPTEASPEPADPAPVAEEAAPSAVEEG
 AAADPGSDGSPGKSPSKKKKFRTPSFLKSKKSDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6485_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001119

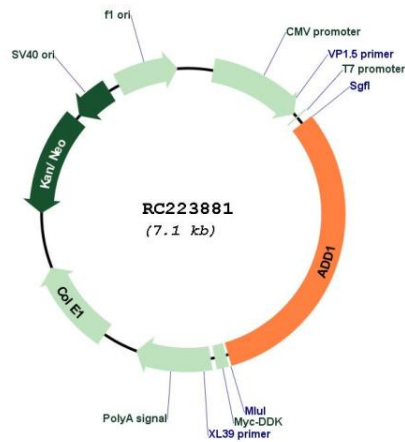
ORF Size: 2211 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

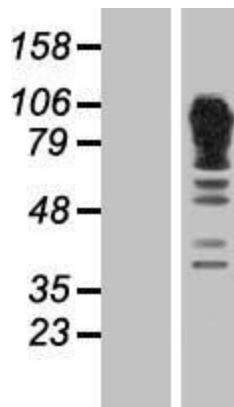
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001119.5
RefSeq Size:	3970 bp
RefSeq ORF:	2214 bp
Locus ID:	118
UniProt ID:	P35611
Cytogenetics:	4p16.3
Domains:	Aldolase_II
Protein Families:	Druggable Genome
MW:	80.8 kDa
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]

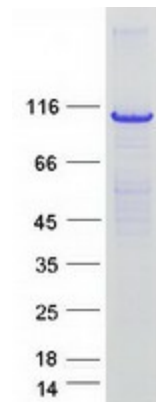
Product images:



Circular map for RC223881



Western blot validation of overexpression lysate (Cat# [LY420118]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223881 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ADD1 protein (Cat# [TP323881]). The protein was produced from HEK293T cells transfected with ADD1 cDNA clone (Cat# RC223881) using MegaTran 2.0 (Cat# [TT210002]).