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Product datasheet for RC215898

alpha Adducin (ADD1) (NM_014189) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Adducin (ADD1) (NM_014189) 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)

ORF Nucleotide Sequence:

>RC215898 representing NM_014189
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATGGTGATTCTCGTGCTGCGGTGGTGACCTCACCACCCCCGACCACAGCCCCTCACAAGGAGAGGT
ACTTCGACCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCA
GGACTTCAACATGATGGAGCAAAAGAAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAA
TTGGAATCAATGATACAGGAGCAATTTAAGAAGGGGAAGAACCCCACAGGCCTATTGGCATTACAGCAGA
TTGCAGATTTTATGACCACGAATGTACCAAATGTCTACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTT
AAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTTAGAGGATCTGATTCTATTGCGTATGACAAA
GGAGAGAAGTTATTACGGTGTAAATTGGCAGCGTTTTATAGACTAGCAGATCTCTTTGGGTGGTCTCAGC
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TCTTTACAGTGAAGTGACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGATATAGTAGATCGTGGA
AGCACTAATCTGGGAGTGAATCAGGCCGGCTTCACCTTACACTCTGCAATTTATGCTGCACGCCCGGACG
TGAAGTGCGTCGTGCACATTCACACCCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTCTTGCC
AATCTCCCCGGAGGCGCTTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
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CCAGGTTCGAACTCTGGCCAGTGCAGGAGGACCAGACAACTTAGTCCTGCTGAATCCTGAGAAGTACAAA
GCCAAGTCCCGTTCCCCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTG
AGCAGGAATTTGAAGCCCTCATGCGGATGCTCGATAATCTGGGCTACAGAACTGGCTACCCTTATCGATA
CCCTGCTCTGAGAGAGAAGTCTAAAAAATACAGCGATGTGGAGGTTCCTGCTAGTGTCACAGGTTACTCC
TTTGCTAGTGACGGTGATTCGGGCACTTGCTCCCCACTCAGACACAGTTTTCAGAAGCAGCAGCGGGAGA
AGACAAGATGGCTGAACTCTGGCCGGGGCGACGAAGCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAA
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GGTGTCTGCGTGCCAAGCTGTATTACCAACTGCTTGTGGACTAAAGAGGATGGACATAGAACTTCCACCT
CTGCTGTCCCTAACCTGTTTGTTCCATTGAACACTAACCCAAAAGAGGTCCAGGAGATGAGGAACAAGAT
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GACAGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAGTACCAGCCCC
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AGTCCTCCAGACCAGCCTGCGGTCCCCCACCCGCCTCCCAGCACTCCCATCAAGCTGGAGGAAGACCTTG
TGCCGGAGCCGACTACTGGAGATGACAGTGATGCTGCCACCTTTAAGCCAACTCTCCCCGATCTGTCCCC
TGATGAACCTTCAGAAGCACTCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCCATAGACCCCCAAGC
CCCACTGAGGCCCCTACTGAGGCCAGCCCCGAGCCAGCCCCAGACCCAGCCCCGGTGGCTGAAGAGGCTG
CCCCCTCAGCTGTCGAGGAGGGGGCCGCCGCGGACCCTGGCAGCGATGGGTCTCCAGGCAAGTCCCCGTC
CAAAAAGAAGAAGAAGTTCCGTACCCCGTCCTTTCTGAAGAAGAGCAAGAAGAAGAGTGACTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

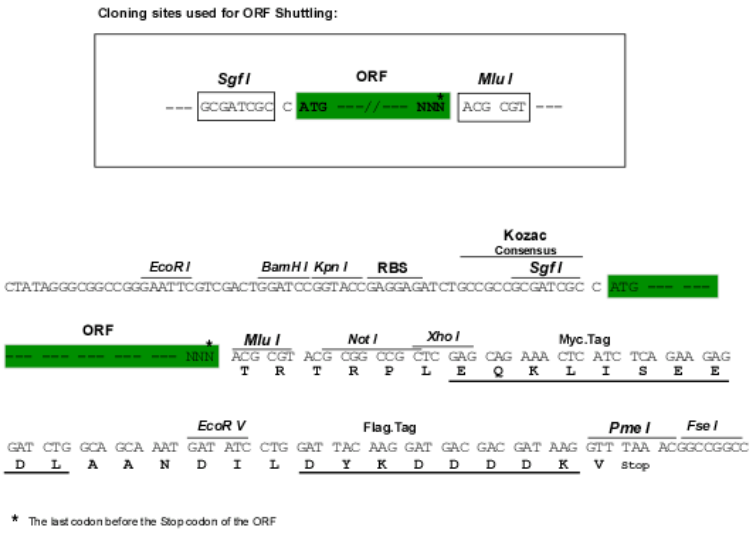
>RC215898 representing NM_014189
Red=Cloning site Green=Tags(s)

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLRERNMAPDLRQDFNMMEQKKRVSMILQSPAFCEE
LESMIQEQFKKGKNPTGLLALQQIADFMTTNVPNVYPAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDK
GEKLLRCKLAAFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIVDRG
STNLGVNQAGFTLHSAIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDE
EEKVLIQKNLGPKSKVLILRNHGLVSVGESVEEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLNPEKYK
AKSRSPGSPVGEGTGSPPKWQIGEQEFEALMRMLDNLGYRTGYPYRYPALREKSKKYSDVEVPASVTGYS
FASDGDSGTCSPLRHSFQKQQREKTRWLNSGRGDEASEEGQNGSSPKSKTKVWTNITHDHVKPLLQSLSS
GVCVPSCITNCLWTKEDGHRTSTSAVPNLFVPLNTNPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVVM
DRSLVQGELVTASKAIIEKEYQPHVIVSTTGPNPFTTLTDRELEEYRREVERKQKGSEENLDEAREQKEK
SPPDQPAVPHPPPSTPIKLEEDLVPEPTTGDDSDAATFKPTLPDLSPDEPSEALGFPMLEKEEEAHRPPS
PTEAPTEASPEPAPDPAPVAEEAAPSAVEEGAAADPGSDGSPGKSPSKKKKKFRTPSFLKKSKKKSDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014189

ORF Size: 2304 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:
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_014189.3

RefSeq Size: 4063 bp

RefSeq ORF: 2307 bp

Locus ID: 118

UniProt ID: P35611

Cytogenetics: 4p16.3

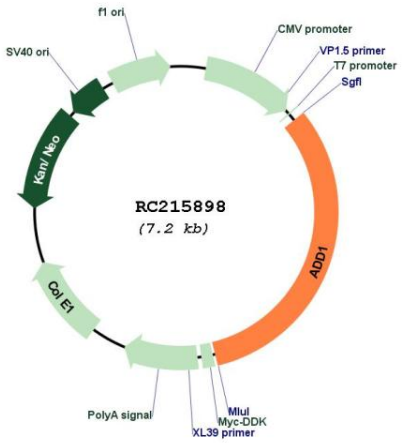
Domains: Aldolase_II

Protein Families: Druggable Genome

MW: 84.1 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 RC215898