

## Product datasheet for **RG215898**

### 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:	TurboGFP
Symbol:	alpha Adducin
Synonyms:	ADDA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG215898 representing NM\_014189  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAATGGTGATTCTCGTCTGCGGTGGTGACCTCACCACCCCGACCACAGCCCCTCACAAGGAGAGGT  
ACTTCGACCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCA  
GGACTTCAACATGATGGAGCAAAAAGAAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAA  
TTGGAATCAATGATACAGGAGCAATTTAAGAAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGA  
TTGCAGATTTTATGACCACGAATGTACCAATGTCTACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTT  
AAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTTAGAGGATCTGATTCTATTGCGTATGACAAA  
GGAGAGAAGTTATTACGGTGTAAATTGGCAGCGTTTTATAGACTAGCAGATCTCTTTGGGTGGTCTCAGC  
TTATCTACAATCATATCACAAACCAGAGTGAACCTCCGAGCAGGAACACTTCCTCATTGTCCCTTTGGGCT  
TCTTTACAGTGAAGTACTGCATCCAGTTGGTTAAGATCAATCTACAAGGAGATATAGTAGATCGTGGA  
AGCACTAATCTGGGAGTGAATCAGGCCGGCTTACACTTACACTCTGCAATTTATGCTGCACGCCCGGACG  
TGAAGTGCCTGCTGCACATTCACACCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTCTTGCC  
AATCTCCCGGAGGCGCTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA  
GAGGAAAAAGTTTTGATTGAGAAAAATCTGGGGCCTAAAAGCAAGGTTCTTATTCTCCGGAACCATGGGC  
TCGTGTCAAGTGGAGAGAGCGTTGAGGAGGCTTCTATTACATCCATAACCTTGTGGTGGCTGTGAGAT  
CCAGGTTCGAAGTCTGGCCAGTGCAGGAGGACCAGACACTTAGTCTGCTGAATCCTGAGAAGTACAAA  
GCCAAGTCCCGTCCCGAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCTCCCAAGTGGCAGATTGGTG  
AGCAGGAATTTGAAGCCCTCATGCGGATGCTCGATAATCTGGGCTACAGAAGTGGCTACCTTATCGATA  
CCCTGCTCTGAGAGAGAAGTCTAAAAAATACAGCGATGTGGAGGTTCTGCTAGTGTACAGGTTACTCC  
TTTGCTAGTGACGGTGATTCGGGCACTTCTCCCACTCAGACACAGTTTTTCAGAAGCAGCAGCGGGAGA  
AGACAAGATGGCTGAACTCTGGCCGGGCGACGAAGCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAA  
GTCAAGACTAAGGTGTGGACGAACATTACACACGATCACGTGAAACCCTTGCTGCAGTCTCTCTCGTCC  
GGTGTCTGCGTGCCAAGCTGTATTACCAACTGCTTGTGGACTAAAGAGGATGGACATAGAAGTCCACCT  
CTGCTGTCCCTAACCTGTTTGTCCATTGAACACTAACCCAAAAGAGTCCAGGAGATGAGGAACAAGAT  
CCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCAGGTTTTGTGGTGTAGTGATG  
GACAGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCTCCAAGGCCATCATTGAAAAGGAGTACCAGCCCC  
ACGTCATTGTGAGCACCACGGGCCCAACCCCTTACCACACTCAGACCGTGAGCTGGAGGAGTACCG  
CAGGGAGGTGGAGAGGAAGCAGAAGGGCTCTGAAGAGAATCTGGACGAGGCTAGAGAACGAAAAGAAAAG  
AGTCTCCAGACCAGCCTGCGGTCCCCACCCGCTCCAGCACTCCCATCAAGCTGGAGGAAGACCTTG  
TGCCGGAGCCGACTACTGGAGATGACAGTGATGCTGCCACCTTTAAGCCAAGTCTCCCGATCTGTCCCC  
TGATGAACCTTCAGAAGCACTCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCCATAGACCCCAAGC  
CCCCTGAGGCCCTACTGAGGCCAGCCCCGAGCCAGCCCCAGCCCCGCGTGGCTGAAGAGGCTG  
CCCCCTCAGCTGTGAGGAGGGGGCCCGCGGACCCTGGCAGCGATGGGTCTCCAGGCAAGTCCCCGTC  
CAAAAAGAAGAAGTCCGTACCCCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTACTCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG215898 representing NM\_014189  
 Red=Cloning site Green=Tags(s)

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLRRNMAPDLRQDFNMMEQKKRVSMILQSPAFCEE  
 LESMIQEQFKGKNPTGLLALQQIADFMTTNPVNPVYPAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDK  
 GEKLLRCKLAIFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIVDRG  
 STNLGVNQAGFTLHSAIYAARPDVKCVVHIHTPAGA AVSAMKCGLLPISPEALSLGEVAYHDYHGILVDE  
 EEKVLIQKNLGPVSKVLILRNHGLVSVGESVVEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLNPEKYK  
 AKSRSPGSPVGEVGTGSPPKWQIGEQEFEALMRMLDNLGYRTGYPYRYPALREKSKKYSVDEVPASVTGYS  
 FASDGSGTCSPLRHSFQKQREKTRWLN SGRGDEASEEGQNGSSPKSKTKVWNTI THDHVKPLQLSLSS  
 GVCVPSCITNCLWTKEDGHRTSTSAVPLNFVPLNTPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVVM  
 DRSLVQGELVTASKAIIIEKEYQPHVIVSTTGPNPFTLLTDRELEEYRREVERKQKGEENLDEAREKQEK  
 SPPDQPAVPHPPPSTPIKLEEDLVPEPTTGDDSDAATFKPTLPDLSPDEPSEALGFPMLEKEEEAHRPPS  
 PTEAPTEASPEPAPDPAPVAEEAAPS AVVEEGAADPGSDGSPGKSPSKKKKFRTPSFLKSKKSDS

TRTRPLE - GFP Tag - V

**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](#)

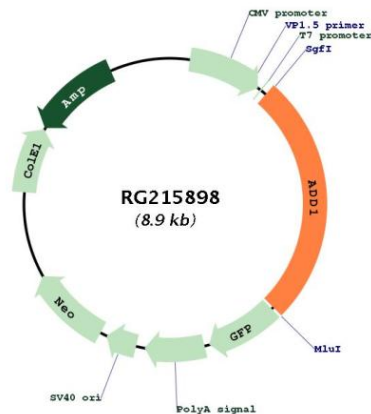
**Cytogenetics:** 4p16.3

**Domains:** Aldolase\_II

**Protein Families:** Druggable Genome

**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 RG215898