

## Product datasheet for **RG239251**

### alpha Adducin (ADD1) (NM\_001286645) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | alpha Adducin (ADD1) (NM_001286645) 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:

>RG239251 representing NM\_001286645.  
Blue=ORF Red=Cloning site Green=Tag(s)

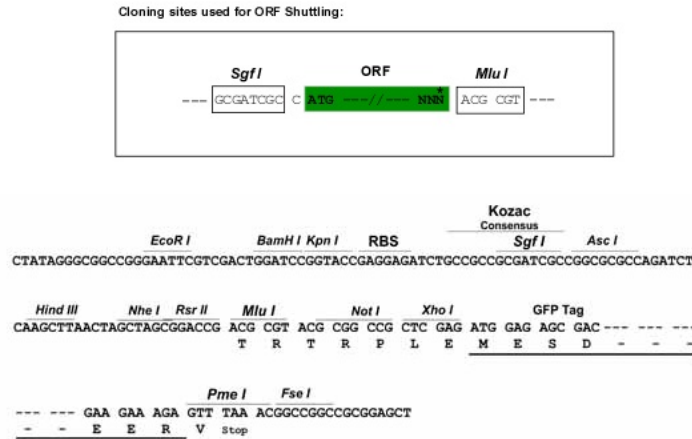
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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ATGAATGGTGATTCTCGTGCTGCGGTGGTGACCTCACCCCGACCACAGCCCTCACAAGGAGAGG
TACTTCGACCCGAGTAGATGAGAACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGC
CAGGACTTCAACATGATGGAGCAAAAGAAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTCTGTGAA
GAATTGGAATCAATGATACAGGAGCAATTTAAGAAGGGGAAGAACCCACAGGCCTATTGTCATTACAG
CAGATTGCAGATTTTATGACCACGAATGTACCAATGTCTACCCAGCAGCTCCGCAAGGAGGGATGGCT
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CGCCCGGACGTGAAGTGGTCTGTGCACATTCACACCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGT
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CTGGTTGATGAAGAGGAAAAAGTTTTGATTAGAAAAATCTGGGGCTAAAAGCAAGTTCTTATTCTC
CGGAACCATGGGCTCGTGTCAAGTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTG
GTTGCCTGTGAGATCCAGGTTCAACTCTGGCCAGTGCAGGAGGACCAGACAACCTAGTCTGCTGAAAT
CCTGAGAAGTACAAGCCAAGTCCCCTTCCCCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCC
AAGTGGCAGATTGGTGAAGCAAGTTTGAAGCCCTCATGCGGATGCTCGATAATCTGGGCTACAGAACT
GGCTACCTTATCGATACCCTGCTCTGAGAGAGAAGTCTAAAAAATACAGCGATGTGGAGTTCCCTGCT
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GCTGTCCCTAACCTGTTTGTCCATTGAACACTAACCCAAAAGAGGTCCAGGAGATGAGGAACAAGATC
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GAGCAGACCTTTAGTCCCCTAAATCTCTCTCTTTTAAAAGGGAGAGCTGGTGACGGCCTCCAAGGCC
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ACAGACCGTGAGCTGGAGGAGTACCGCAGGGAGGTGGAGAGGAAGCAGAAGGGCTCTGAAGAGAATCTG
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ACTCCCATCAAGCTGGAGGAAGGAGACGGATGCGCTAGAGAGTACCTGTTACCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG239251  
 Blue=ORF Red=Cloning site Green=Tag(s)

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLRRNMAPDLRQDFNMQKRVSMILQSPAFCE  
 ELESMIQEQQFKGKNPTGLLALQQIADFMTTNVNPVYAAPQGGMAALNMSLGMVTPVNDLRGSDSIAY  
 DKGEKLLRCKLAIFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIV  
 DRGSTNLGVNQAGFTLHSAIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPI SPEALSLGEVAYHDYHGI  
 LVDEEEKVLIQKNLGPCKVLIILRNHGLVSVGESVEEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLN  
 PEKYKAKSRSPGSPVGEVGTGSPPKWQIQEQEFEALMRMLDNLGYRTGYPYRYPALREKSKKYSVDEVPA  
 SVTGYSFASDGDGSGTCSPLRHSFQKQREKTRWLN SGRGDEASEEQNGSSPKSKTKWTKEDGHRTSTS  
 AVPNLFVPLNTNPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVVMDRSLVQDAPLSDCTETIEGLELT  
 EQTFSPA KSLSFRKGELVTASKAIEKEYQPHVIVSTTGP NPF TLT DRELEEYRREVERKQKGSEENL  
 DEAREQKEKSPDPQAVPHPPPSTPIKLEEGDGCAREYLLP  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYP SGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFLRDGGYYSSVVD SHMHFKSAIHP SILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001286645

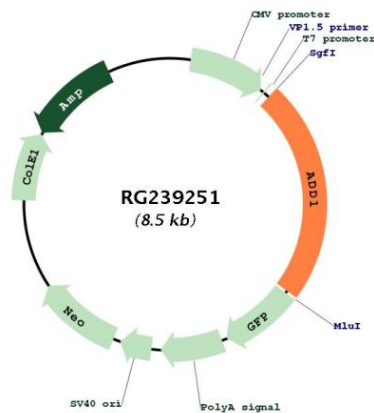
**ORF Size:** 1986 bp

**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.

|                          |  |
|--------------------------|--|
| <b>Components:</b>       | 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).   |
| <b>RefSeq:</b>           | <u><a href="#">NM_001286645.1</a></u> , <u><a href="#">NP_001273574.1</a></u>  |
| <b>RefSeq Size:</b>      | 4772 bp  |
| <b>RefSeq ORF:</b>       | 1989 bp  |
| <b>Locus ID:</b>         | 118  |
| <b>UniProt ID:</b>       | <u><a href="#">P35611</a></u>  |
| <b>Cytogenetics:</b>     | 4p16.3   |
| <b>Protein Families:</b> | Druggable Genome   |
| <b>MW:</b>               | 73.8 kDa   |
| <b>Gene Summary:</b>     | 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 RG239251