

## Product datasheet for **RG214897**

### alpha Adducin (ADD1) (NM\_176801) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Adducin (ADD1) (NM_176801) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADD1
Synonyms:	ADDA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG214897 representing NM\_176801  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAATGGTGATTCTCGTCTGCGGTGGTGACCTCACCACCCCGACCACAGCCCTCACAAGGAGAGGT  
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AGTCTCCAGACCAGCTGCGGTCCCCACCCGCTCCAGCACTCCCATCAAGCTGGAGGAAGGAGACG  
GATGCGCTAGAGAGTACCTGTTACCC

**ACGCGT**ACGCGGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG214897 representing NM\_176801  
 Red=Cloning site Green=Tags(s)

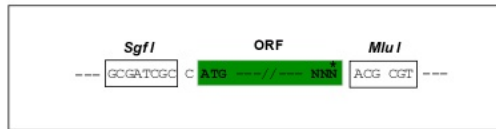
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 DRSLVQGELVTASKAIIIEKEYQPHVIVSTTGNPFPTLTDRELEEYRREVERKQKGEENLDEAREQKEK  
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TRTRPLE - GFP Tag - V

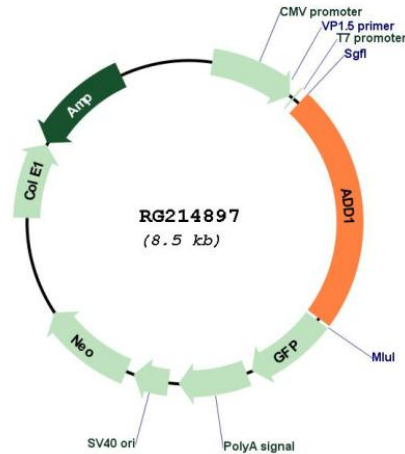
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_176801

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.

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\\_176801.2](#)

RefSeq Size: 4068 bp

RefSeq ORF: 1989 bp

Locus ID: 118

UniProt ID: [P35611](#)

Cytogenetics: 4p16.3

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]