

## Product datasheet for **RG201642**

### **CAPZA1 (NM\_006135) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CAPZA1 (NM_006135) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CAPZA1
Synonyms:	CAPPA1; CAPZ; CAZ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201642 representing NM_006135 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGACTTCGATGATCGTGTGTCGGATGAGGAGAAGGTACGCATAGCTGCTAAATTCATCACTCATG  
CACCCCAGGGGAATTTAATGAAGTATTCAATGACGTTCCGGCTACTACTTAATAATGACAATCTCCTCAG  
GGAAGGGGCAGCACATGCATTTGCCAGTATAACATGGATCAGTTCACGCCTGTGAAGATAGAAGGATAT  
GAAGATCAGGTCTTAATTACAGAGCACGGTACCTGGGTAAATAGCAGATTTTAGATCCAAGAAACAAAA  
TTTCCTTTAAATTTGACCACTTACGAAAAGAAGCAAGTGACCCCAAGCAGAAGAAGCAGATGGAGGTCT  
GAAGTCTTGGAGAGAATCCTGTGACAGTGCTTTAAGAGCCTATGTGAAAGACCATTATCCAACGGCTTC  
TGTAAGTGTATGCTAAAATATCGATGGGCAACAGACTATTATTGCATGTATTGAAAGCCACCAAGTTTC  
AGCCTAAAACCTTCTGGAATGGTCGTTGGAGATCAGAGTGAAGTTACCATCACACCACCTACAGCCCA  
GGTGGTTGGCGTGCTTAAGATTCAGGTTCACTATTATGAAGATGGCAATGTTCAAGTTGGTTAGTCATAAA  
GATGTACAGGATTCATAACTGTTTCGAATGAAGCCAACTGCCAAGGAGTTTATTAATAATCATAGAGA  
ATGCAGAAAATGAGTATCAGACAGCAATTAGTGAAAATATCAACAATGTCAGATACCACATTCAGGC  
CTTGCGCCGCGCAGCTTCCAGTTACCCGCACCAAAATCGACTGGAACAAGATACTCAGCTACAAGATTGGC  
AAAGAAATGCAGAATGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201642 representing NM\_006135  
 Red=Cloning site Green=Tags(s)

MADFDDRVSDEEKVRIA AKFITHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAF AQYNMDQFTPVKIEGY  
 EDQVLI TEHGD LGNSRFLDPRNKISFKFDHLRKEASDPQPEEADGGLKSWRESCDSALRAYVKDHYSNGF  
 CTVYAKTIDGQQTIIACIESHQFQPKNFWNGRWRSEWKF TITPPTAQVVGVLKIQVHYEDGNVQLVSHK  
 DVQDSLTVSNEAQTAK EFKIKI IENAENEYQT AIS ENYQ TMSD TTFKALRRQLPVTRTKIDWNKILSYKIG  
 KEMQNA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006135

**ORF Size:** 858 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\\_006135.3](#)

**RefSeq Size:** 2758 bp

**RefSeq ORF:** 861 bp

**Locus ID:** 829

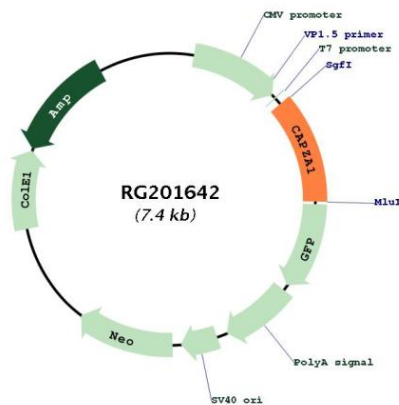
**UniProt ID:** [P52907](#)

**Cytogenetics:** 1p13.2

**Domains:** F-actin\_cap\_A

**Gene Summary:** CAPZA1 is a member of the F-actin capping protein alpha subunit family. This gene encodes the alpha subunit of the barbed-end actin binding protein. The protein regulates growth of the actin filament by capping the barbed end of growing actin filaments. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG201642