

Product datasheet for **MG203894**

Capza2 (NM_007604) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capza2 (NM_007604) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Capza2
Synonyms:	1110053K06Rik; AW208808; Cappa2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203894 representing NM_007604 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGATCTGGAGGAGCAGTTGTCCGATGAGGAGAAGGTTTCGTATAGCAGCAAATTCATCATTACAG
CCCCTCTGGAGAATTTAATGAGGTTTTAATGATGTTTCGATTATTGCTTAATAATGATAATCTTCTCAG
GGAAGGAGCCGCACATGCATTTGCACAGTAACTGGACCAGTTTACACCAGTAAAAATGAAGGCTAT
GAAGATCAGGTTTTGATAACAGAACATGGAGACTTGGAAATGGAAAATTTTGGATCCAAAAACAGAA
TCTGTTTCAAATTTGATCATTTAAGAAAGGAAGCAACTGATCCAAGGCCCTACGAAGCAGAAAATGCCAT
TGAATCCTGGAGAACTTCAGTAGAACTGCACTGCGAGCTTATGTAAAAGAGCATTATCCGAATGGGGTC
TGCACTGTGTATGGCAAAAAGTAGATGGGCAGCAAACCATTATTGCATGCATAGAAAGCCATCAGTTTC
AAGCAAAAACCTTTGGAATGGTCGTTGGAGGTGAGAGTGAAGTTTACAGTCACTCCTTCCACCACACA
GGTGGTTGGCATTGAAATTCAGGTTTATTATGAAGATGGTAATGTTTCAGCTAGTGAGTCATAAA
GATATACAAGATCCCTCACAGTATCTAATGAGGTGCAACAGCAAAGAATTTATAAAGATTGTAGAAG
CTGCAGAAAATGAATACCAGACTGCCATCAGTGAAGTATCAGACGATGTCGGACACTACCTTCAAAGC
CTTACGTCGACAGTTGCCAGTGACACGTAAGTACGACTGGAACAAGATCCTTAGCTACAAGATTGGC
AAAGAGATGCAGAATGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203894 representing NM_007604
 Red=Cloning site Green=Tags(s)

MADLEEQLSDEEKVRIA AKFIIHAPPGEFNEVFNDVRL LLNNDNLLREGAAHAF AQYNLDQFTPVKIEGY
 EDQVLI TEHGD L GNGKFLDPKNR ICFKFDHLRKEATDPRPYEAENAI ESWR TSVETALRAYVKEHYPNGV
 CTVYGGKVDGQQ TIIACIESHQFQAKNFWNGRWRSEWKF TVTPSTTQVVGILKIQVHYEDGNVQLVSHK
 DIQDSL TVSNEVQTAK EFKIIVEAAENEYQT AIS ENYQ TMSD TTFKALRRQLPVTRTKIDWNKILSYKIG
 KEMQNA

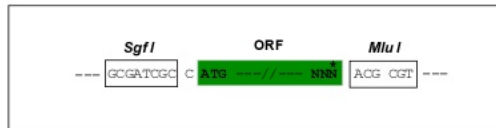
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3240_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_007604

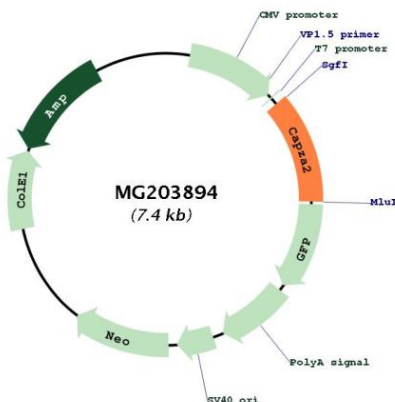
ORF Size: 858 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_007604.3</u>
RefSeq Size:	2015 bp
RefSeq ORF:	861 bp
Locus ID:	12343
UniProt ID:	<u>P47754</u>
Cytogenetics:	6 7.96 cM
Gene Summary:	F-actin-capping proteins bind in a Ca(2+)-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG203894