

## Product datasheet for **MR203894**

### Capza2 (NM\_007604) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Capza2 (NM_007604) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capza2
Synonyms:	1110053K06Rik; AW208808; Cappa2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203894 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGATCTGGAGGAGCAGTTGTCCGATGAGGAGAAGGTTTCGTATAGCAGCAAATTCATCATTACAG  
CCCCTCTGGAGAATTTAATGAGGTTTTAATGATGTTTCGATTATTGCTTAATAATGATAATCTTCTCAG  
GGAAGGAGCCGCACATGCATTTGCACAGTAACTGGACCAGTTTACACCAGTAAAAATGAAGGCTAT  
GAAGATCAGGTTTTGATAACAGAACATGGAGACTTGGAAATGGAAAATTTTGGATCCAAAAACAGAA  
TCTGTTTCAAATTTGATCATTTAAGAAAGGAAGCAACTGATCCAAGGCCCTACGAAGCAGAAAATGCCAT  
TGAATCCTGGAGAACTTCAGTAGAACTGCACTGCGAGCTTATGTAAAAGAGCATTATCCGAATGGGGTC  
TGCACTGTGTATGGCAAAAAGTAGATGGGCAGCAAACCATTATTGCATGCATAGAAAGCCATCAGTTTC  
AAGCAAAAACCTTTGGAATGGTCGTTGGAGGTCAGAGTGAAGTTTACAGTCACTCCTTCCACCACACA  
GGTGGTTGGCATTGAAAATTCAGGTTTATTATGAAGATGGTAATGTTTCAGCTAGTGAGTCATAAA  
GATATACAAGATCCCTCACAGTATCTAATGAGGTGCAACAGCAAAGAATTTATAAAGATTGTAGAAG  
CTGCAGAAAATGAATACCAGACTGCCATCAGTGAAGTATCAGACGATGTCGGACACTACCTTCAAAGC  
CTTACGTCGACAGTTGCCAGTGACACGTAAGTACGACTGGAACAAGATCCTTAGCTACAAGATTGGC  
AAAGAGATGCAGAATGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203894 protein sequence  
Red=Cloning site Green=Tags(s)

MADLEEQLSDEEKVRIA AKFIIHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFQYNLDQFTPVKIEGY  
 EDQVLI TEHGDLGNGKFLDPKNRICFKFDHLRKEATDPRPYEAENAIESWRTSVETALRAYVKEHYPNGV  
 CTVYGGKVDGQQTIIACIESHQFQAKNFWNGRWRSEWKFVTPSTTQVVGILKIQVHYHEDGNVQLVSHK  
 DIQDSLTVSNEVQTAKEFIKIVEAAENEYQTAISENYQTMSTDTFKALRRQLPVTRTKIDWNKILSYKIG  
 KEMQNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_007604

**ORF Size:** 861 bp

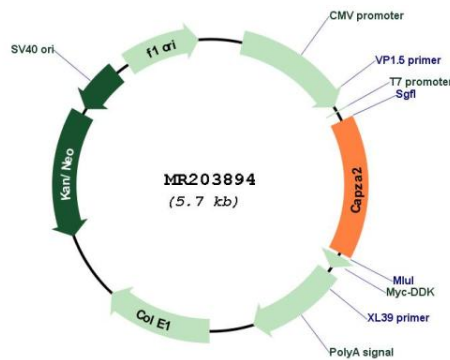
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<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>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_007604.3</a></u>
<b>RefSeq Size:</b>	2015 bp
<b>RefSeq ORF:</b>	861 bp
<b>Locus ID:</b>	12343
<b>UniProt ID:</b>	<u><a href="#">P47754</a></u>
<b>Cytogenetics:</b>	6 7.96 cM
<b>MW:</b>	33 kDa
<b>Gene Summary:</b>	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 MR203894