

Product datasheet for **MG204175**

Capza3 (NM_007605) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capza3 (NM_007605) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Capza3
Synonyms:	510-4; Cappa3; Gsg3; repro32; Tex8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204175 representing NM_007605 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTACTCAGCGTCTTGAGTAGGAAAGAGAAAGAGAAAGTCCACAGGCTCTTAGTCCAGGCTCCTC
CTGGGGAATTTGTGAATGCCTTTGACGATCTCTGTCTGCTTATCCGAGATGAAAAGCTTATGCACCATCA
GGGTGAGTGCGCAGGCCATCAGCACTGCCAAAAACTGTGTCCCACTCTGCATCGACGGCAACCCAGTC
CTCCTGTCTCACCACAATGTGATGGGTGACTTCCGCTTCTTTGACTACCAGAGCAAACCTTTCTTTACAGT
TTGACCTACTCCAGAATCAACTGAGGGATATCCAAAGTCACGGAATCATTCCGGAATGAGACCGAGTACCT
AAGATCCGTTGTTATGTGTGCCTTAAAACCTCTATGTGAATGATCACTACCCAAATGGAAATGCAATGTG
CTGAGAAAAACAGTCAAAAGCAAAGAATTCCTAATAGCTTGCATTGAAGACCACAGCTATGACAATGGAG
AGTGTGGAAACGGTCTTTGGAAGTCTAAGTGGATCTTCCAGGTAACCCGTTTCTAACCCAAGTCACAGG
GAGAATTTTTGTGCAAGCTCACTTCTTTAGGTGTGTCAACCTTCATATTGAAGTCTCCAAGGACCTAAAG
GAGAGCTTGGAGGTGGTCAATCAAGCCAGTTGGCTCTCAGTTTCGCAAGGCTTGTGGAAGAACAAGAGA
ATAAGTTTCAAGCTGCTGTCATAGAAGAACTACAGGAGTTGTCTAACGAAGCCCTGAGAAAAATATTACG
GAGGGATCTTCCAGTGACACGCCTTTGATTGACTGGCAACGGATCCTCTCTGACTTGAATCTGGTGATG
TACCCCAAGTTAGGGTATGTTATTTACTCAAGAAGTGTGTTGTGCAACTGGATAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204175 representing NM_007605
 Red=Cloning site Green=Tags(s)

MSLSVL SRKEKEKVIHRLLVQAPPGEFVNAFDDLCLLIRDEKLMHHQGE CAGHQHCQKVCVPLCIDGNPV
 LLSHHNVMGDFRFFDYQSKLSFRFDLLQNQLRDIQSHGIIRNETEYLRVVMCALKLYVNDHYPNGNCNV
 LRKTVKSKEFLIACIEDHSYDNGECWNLWKS KWI FQVNPFLTQVTGRIFVQAHFFRCVNLHIEVSKDLK
 ESLEVVNQAQLALS FARLVEEQENKFQAAVIEELQELSNEALRKILRRDLPVTRTLIDWQRILSDLNLVM
 YPKLGYVIYSRSVLCNWII

TRTRPLE - GFP Tag - V

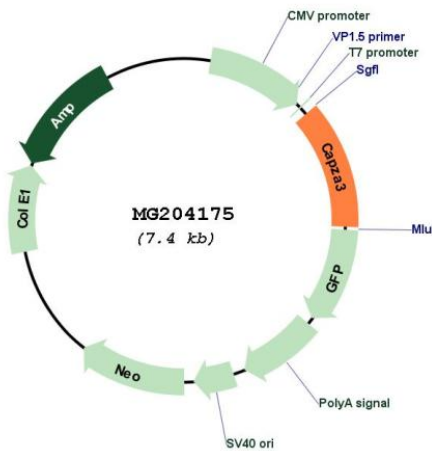
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_007605

ORF Size: 897 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:	<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:	NM_007605.5
RefSeq Size:	1265 bp
RefSeq ORF:	900 bp
Locus ID:	12344
UniProt ID:	P70190
Cytogenetics:	6 69.77 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. May play a role in the morphogenesis of spermatid.[UniProtKB/Swiss-Prot Function]