

Product datasheet for **RR204065**

Capza1 (NM_001109625) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Capza1 (NM_001109625) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Capza1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR204065 representing NM_001109625
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGACTTCGAGGATCGGGTGTGGATGAGGAGAAGGTACGCATAGCCGCTAAATTCATCACCCATG
CACCCCAGGGGAGTTCAATGAAGTATTCAATGATGTCGGCTACTGCTTAATAATGACAATCTTCTCAG
GGAAGGGGCAGCACATGCATTTGCCAGTATAACATGGATCAGTTCACACCTGTGAAGATAGAAGGCTAC
GACGACCAGGTCTTAATTACAGAGCATGGCGACCTTGGTAACAGCAGATTTTTAGATCCAAGAAACAAAA
TTTCCTTTAAGTTTGATCATTTACGAAAAGAAGCGAGTGACCCGAGCCAGAGGATGTGGATGGAGGCTT
GAAGTCTTGGAGAGACTCGTGTGACAGTGCAGTGCAGAGCCTATGTGAAAGATCATTATTCACCGCTTC
TGTACTGTTTACGCTAAAACCATAGATGGACAGCAGACCATTATTGCATGTATTGAAAGCCACCAGTTTC
AACCCAAAACTTCTGGAATGGTCGTTGGAGATCAGAGTGAAGTTCACCATCACACCACCTACAGCCCA
GGTGGTTGGAGTGTCAAGATTCAGGTTTATTATGAAGATGGCAATGTTTCAAGCTGGTTAGTCATAAA
GATGTGCAGGACTCAGTAACTGTTTCTAATGAAGTCCAACTGCCAAGGAGTTTATTAATCATAGAGA
GTCAGAAAAATGAGTATCAGACAGCAATTAGTAAAAATTCAAATATGTCAGACACCAGTTCAAGGC
CTTGCCGCGGCAGCTTCCAGTTACCCGACCAAAATCGACTGGAACAAGATACTCAGTTACAAGATTGGC
AAAGAAATGCAGAATGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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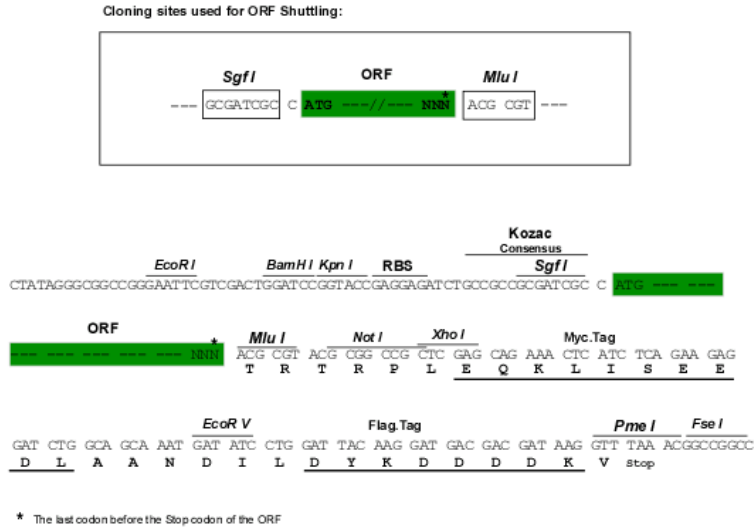
Protein Sequence: >RR204065 representing NM_001109625
 Red=Cloning site Green=Tags(s)

MADFEDRVSDEEKVRIA AKFITHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAF AQYNMDQFTPVKIEGY
 DDQVLITEHGD LGNSRFLDPRNKISFKFDHLRKEASDPQPEDVDGGLKSWRDCSALRAYVKDHYSNGF
 CTVYAKTIDGQQTIIACIESHQFPKNFWNGRWRSEWKF TITPPTAQVVGVLKIQVHYEDGNVQLVSHK
 DVQDSVTYSNEVQTAK EFKIIEAENEYQT AISENYQ TMSD TTFKALRRQLPVTRTKIDWNKILSYKIG
 KEMQNA

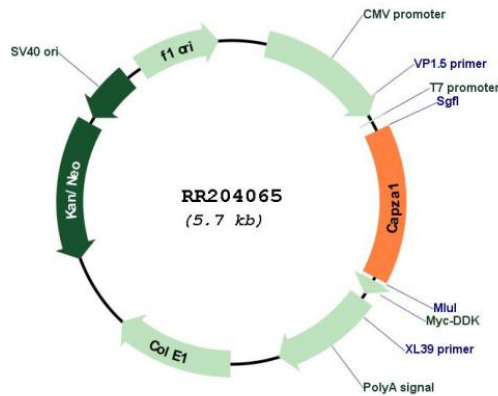
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001109625

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:	<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_001109625.2 , NP_001103095.2
RefSeq Size:	3256 bp
RefSeq ORF:	861 bp
Locus ID:	691149
UniProt ID:	B2GUZ5
Cytogenetics:	2q34
MW:	32.9 kDa
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 formation of epithelial cell junctions.[UniProtKB/Swiss-Prot Function]