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Product datasheet for RC202764

CAPZA2 (NM_006136) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAPZA2 (NM_006136) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAPZA2
Synonyms:	CAPPA2; CAPZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202764 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGATCTGGAGGAGCAGTTGTCTGATGAAGAGAAGGTGCGTATAGCAGCAAAATTCATCATTCATG
CCCCTCCTGGAGAATTTAATGAGGTTTTCAATGATGTTCGGTTACTGCTTAATAATGACAATCTTCTCAG
GGAAGGAGCAGCCCATGCATTTGCACAGTATAACTTGGACCAGTTTACTCCAGTAAAAATTGAAGGTTAT
GAAGATCAGGTATTGATAACAGAACATGGCGACTTGGGAAATGGAAAGTTTTTGGATCCAAAGAACAGAA
TCTGTTTTAAATTTGATCACTTAAGGAAGGAGGCAACTGATCCAAGACCATGTGAAGTAGAAAATGCAGT
TGAATCATGGAGAACTTCAGTAGAAACTGCTCTGAGAGCTTACGTAAAAGAACATTACCCGAATGGAGTC
TGCACTGTGTATGGCAAAAAAATAGATGGACAGCAAACCATTATTGCATGCATAGAAAGCCATCAGTTCC
AAGCAAAAAATTTTTGGAATGGTCGTTGGAGGTCAGAATGGAAGTTTACAATCACTCCTTCAACCACTCA
AGTGGTTGGCATCTTGAAAATTCAGGTTCATTATTATGAAGATGGTAATGTTCAGCTAGTGAGTCATAAA
GATATACAAGATTCCCTAACAGTGTCTAATGAAGTGCAAACAGCAAAAGAATTTATAAAGATTGTAGAAG
CTGCAGAAAATGAATACCAGACTGCCATCAGTGAGAATTATCAGACAATGTCGGACACTACTTTCAAAGC
CTTACGTCGACAGTTGCCAGTTACACGCACTAAGATTGATTGGAACAAGATCCTTAGCTACAAGATTGGC
AAAGAGATGCAGAATGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC202764 protein sequence
Red=Cloning site Green=Tags(s)

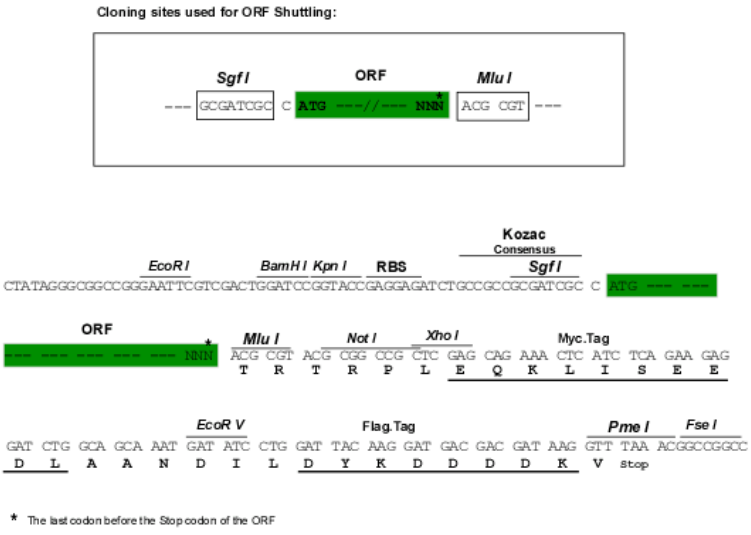
MADLEEQLSDEEKVRIAAKFIIHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAQYNLDQFTPVKIEGY
EDQVLITEHGDLGNGKFLDPKNRICFKFDHLRKEATDPRPCEVENAVESWRTSVETALRAYVKEHYPNGV
CTVYGKKIDGQQTIIACIESHQFQAKNFWNGRWRSEWKFTITPSTTQVVGILKIQVHYYEDGNVQLVSHK
DIQDSLTVSNEVQTAKEFIKIVEAAENEYQTAISENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIG
KEMQNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6415_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006136

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_006136.3

RefSeq Size: 2373 bp

RefSeq ORF: 861 bp

Locus ID: 830

UniProt ID: P47755

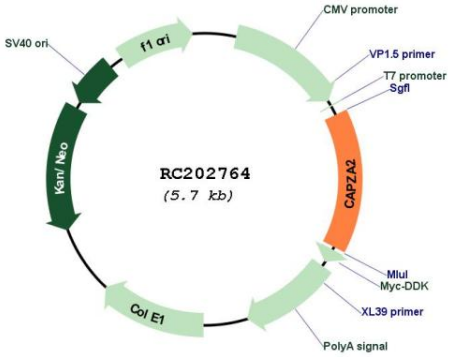
Cytogenetics: 7q31.2

Domains: F-actin_cap_A

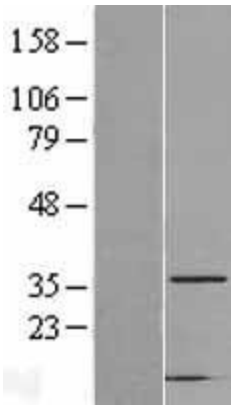
MW: 32.9 kDa

Gene Summary: The protein encoded by this gene is a member of the F-actin capping protein alpha subunit family. It is the alpha subunit of the barbed-end actin binding protein Cap Z. By capping the barbed end of actin filaments, Cap Z regulates the growth of the actin filaments at the barbed end. [provided by RefSeq, Jul 2008]

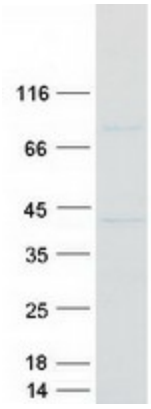
Product images:



Circular map for RC202764



Western blot validation of overexpression lysate (Cat# [LY416843]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202764 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CAPZA2 protein (Cat# [TP302764]). The protein was produced from HEK293T cells transfected with CAPZA2 cDNA clone (Cat# RC202764) using MegaTran 2.0 (Cat# [TT210002]).