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Product datasheet for RC237000

CAPZB (NM_001206541) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAPZB (NM_001206541) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAPZB
Synonyms:	CAPB; CAPPB; CAPZ
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237000 representing NM_001206541 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCCAGGCAGTTCCAGGATACAGGGTTCTCTCGCCCAGGCCTTGGCCAGCCCAGAAGATGTGACCCAG AACCTAGAAAGAGTGATCAGCAGCTGGACTGTGCCTTGGACCTAATGAGGCGCCTGCCTCCCCAGCAAAT CGAGAAAAACCTCAGCGACCTGATCGACCTGGTCCCCAGTCTATGTGAGGATCTCCTGTCTTCTGTTGAC CAGCCACTGAAAATTGCCAGAGACAAGGTGGTGGGAAAGGATTACCTTTTGTGTGACTACAACAGAGATG GGGACTCCTATAGGTCACCATGGAGTAACAAGTATGACCCTCCCTTGGAGGATGGGGCCATGCCGTCAGC TCGGCTGAGAAAGCTGGAGGTGGAAGCCAACAATGCCTTTGACCAGTATCGAGACCTGTATTTTGAAGGT GGCGTCTCATCTGTCTACCTCTGGGATCTGGATCATGGCTTTGCTGGAGTGATCCTCATAAAGAAGGCTG GAGATGGATCAAAGAAGATCAAAGGCTGCTGGGATTCCATCCACGTGGTAGAAGTGCAGGAGAAATCCAG CGGTCGCACCGCCCATTACAAGTTGACCTCCACGGTGATGCTGTGGCTGCAGACCAACAAATCTGGCTCT GGCACCATGAACCTCGGAGGCAGCCTTACCAGACAGATGGAGAAGGATGAAACTGTGAGTGACTGCTCCC CACACATAGCCAACATCGGGCGCCTGGTAGAGGTCTGTGCAGACTTTTGCAGACAAATCAAAACAAGAAG CTCTGAAGAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

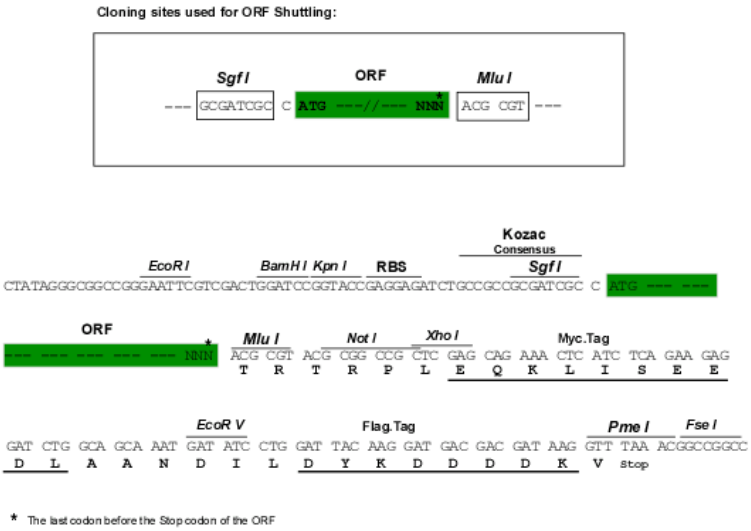
>RC237000 representing NM_001206541
Red=Cloning site Green=Tags(s)

MPRQFQDTGFSRPGLGQPRRCDPEPRKSDQQLDCALDLMRRLPPQQIEKNLSDLIDLVPSLCEDLLSSVD
QPLKIARDKVVGKDYLLCDYNRDGDSYRSPWSNKYDPPLEDGAMPSARLRKLEVEANNAFDQYRDLYFEG
GVSSVYLWDLDHGFAGVILIKKAGDGSKKIKGCWDSIHVVEVQEKSSGRTAHYKLTSTVMLWLQTNKSGS
GTMNLGGSLTRQMEKDETVSDCSPHIANIGRLVEVCADFCRQIKTRSSEE

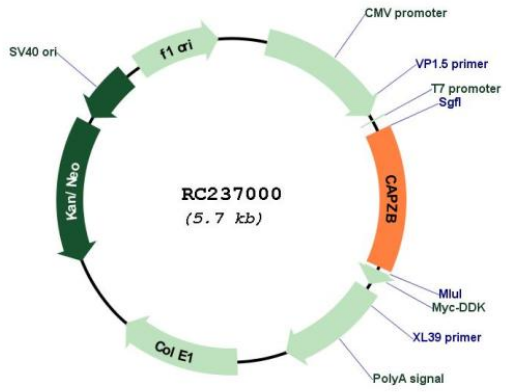
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001206541

ORF Size: 780 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.
RefSeq:	NM_001206541.3
RefSeq Size:	2217 bp
RefSeq ORF:	783 bp
Locus ID:	832
Cytogenetics:	1p36.13
MW:	29.7 kDa
Gene Summary:	This gene encodes the beta subunit of the barbed-end actin binding protein, which belongs to the F-actin capping protein family. The capping protein is a heterodimeric actin capping protein that blocks actin filament assembly and disassembly at the fast growing (barbed) filament ends and functions in regulating actin filament dynamics as well as in stabilizing actin filament lengths in muscle and nonmuscle cells. A pseudogene of this gene is located on the long arm of chromosome 2. Multiple alternatively spliced transcript variants encoding different isoforms have been found.[provided by RefSeq, Aug 2013]