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Product datasheet for MR209702

Capn6 (NM_007603) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn6 (NM_007603) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR209702 representing NM_007603
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTCCTCCTCTGAAGCTCTTCAAAAACCAGAAGTACCAAGAACTGAAGCAGGAGTGCATGAAGGATG
GCCGCCTTTTCTGTGACCCAACCTTCCTACCGGAGAATGATTCTCTGTTTTTCAACCGGCTGCTTCCTGG
GAAGGTGGTGTGGAAGCGTCCACAGGACATTTCTGATGACCCCCACCTGATTGTGGGCAACATCAGCAAC
CACCAGCTGATCCAGGGCAGATTGGGGAACAAGGCAATGATCTCTGCATTTTCCTGTTTGGCTGTTCAGG
AGTCACACTGGACAAAGGCAATTCCCAACCACAAGGATCAGGAATGGGATCCTCGAAAGCCAGAGAAATA
CGCTGGAATCTTTCACTTCCGCTTCTGGCATTTTGGAGAATGGACCGAGGTGGTGATTGATGACTTGCTT
CCCACCATCAACGGAGATCTGGTCTTCTCATTCTCCACCTCCATGAATGAGTTTTGGAATGCTCTACTGG
AAAAAGCGTATGCAAAGCTGCTGGGCTGTTATGAGGCTTTGGATGGTCTGACCATCACTGATATCATCAT
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AAGTACAAGCTGTTTGGAGAACTGTACAAAACGTTCACCAAAGGAGGTCTAATTTGCTGCTCCATTGAGT
CTCCCAGCCAGGAGGAACAAGAAGTTGAAACAGACTGGGGACTACTGAAGGGTTATACCTACACCATGAC
TGATATTCGCAAGCTCCGTCTCGGAGAAAGACTTGTGGAAGTCTTCAGTACTGAGAAGCTGTATATGGTT
CGCCTAAGGAACCCATTGGGAAGACAGGAATGGAGTGGCCCCTGGAGTGAAATTTCAGAGGAGTGGCAGC
AACTGACTGTAACAGATCGCAAGAACCTAGGACTTGTTATGTCTGATGATGGAGAATTTTGGATGAGTCT
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CAAAGGTGGTTACCCAGATCACTGTCCACAGTGCTGAGGGCCTGGAGAAGAAGTATGCCAATGAAACTGT
CAATCCATATCTGATCATCAAATGTGGAAAGGAGGAAGTCCGTTCCCCTGTCCAGAAGAATACTGTGCAT
GCCATTTTTGACACGCAGGCCATTTTCTACAGAAGGACCACTGACATTCCTATTATCATCCAGGTGTGGA
ACAGCAGAAAATTCTGTGATCAGTTCCTGGGGCAGGTTACTCTCGATGCTGACCCCAGCGACTGCCGTGA
TCTGAAATCTCTGTACCTGCGTAAGAAGGGTGGTCCTACTGCCAAAGTCAAGCAAGGTCACATCAGCTTC
AAAGTTATCTCTAGCGATGATCTCACTGAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209702 representing NM_007603
Red=Cloning site Green=Tags(s)

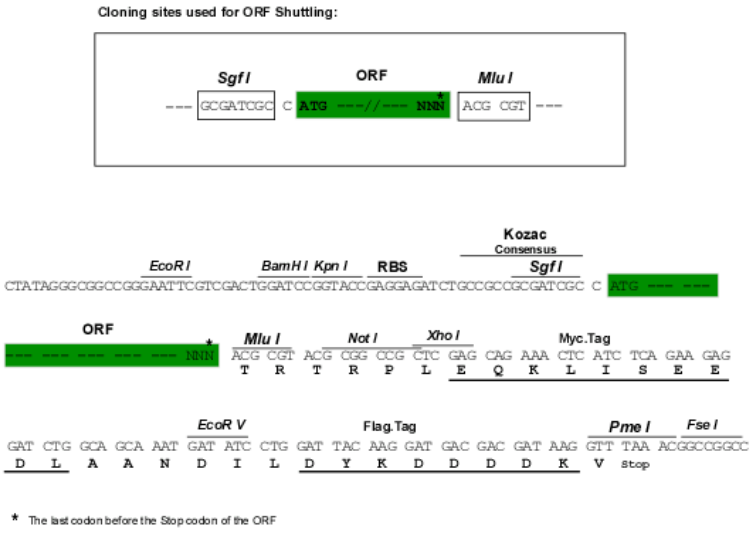
MGPPLKLFKNQKYQELKQECMKDGRLFCDPTFLPENDSLFFNRLLPGKVVWKRPQDISDDPHLIVGNISN
HQLIQGRLGNKAMISAFSCLAVQESHWTKAIPNHKDQEWDPRKPEKYAGIFHFRFWHFGEWTEVVIDDLL
PTINGDLVFSFSTSMNEFWNALLEKAYAKLLGCYEALDGLTITDIIMDFTGTLAEIIDMQKGRYTDLVEE
KYKLFGELYKTFTKGGLICCSIESPSQEEQEVETDWGLLKGYTYTMTDIRKLRLGERLVEVFSTEKLYMV
RLRNPLGRQEWSGPWSEISEEWQQLTVTDRKNLGLVMSDDGEFWMSLEDFCHNFHKLNVCRNVNNPVFGR
KELESVVGCWTVDDDPLMNRSGGCYNNRDTFLQNPQYIFTVPEDGHKVIMSLQQKDLRTYRRMGRPDNYI
IGFELFKVEMNRRFRLHHLYIQERAGTSTYIDTRTVFLSKYLKKGSYVLVPTMFQHGRTSEFLLRIFSEV
PVQLRELTLDMPKMSCWNLARGYPKVVTQITVHSAEGLEKKYANETVNPYLIIKCGKEEVRSPVQKNTVH
AIFDTQAIFYRRTTDIPIIIQVWNSRKFCDQFLGQVTLDADPSDCRDLKSLYLRKKGGPTAKVKQGHISF
KVISSDDLTEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9044_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007603

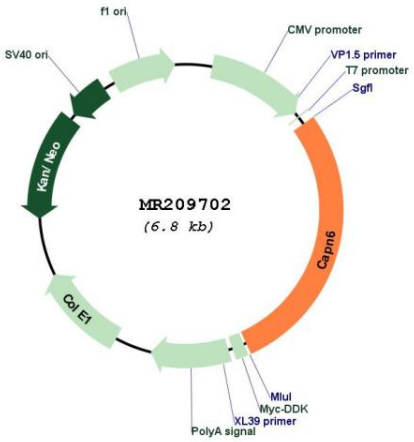
ORF Size: 1923 bp

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_007603.3, NP_031629.3
RefSeq Size:	3579 bp
RefSeq ORF:	1926 bp
Locus ID:	12338
UniProt ID:	O35646
Cytogenetics:	X F2
MW:	75 kDa
Gene Summary:	Microtubule-stabilizing protein that may be involved in the regulation of microtubule dynamics and cytoskeletal organization. May act as a regulator of RAC1 activity through interaction with ARHGEF2 to control lamellipodial formation and cell mobility. Does not seem to have protease activity as it has lost the active site residues.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209702