

Product datasheet for **RR207867**

Mapkapk2 (NM_178102) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapkapk2 (NM_178102) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapkapk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR207867 representing NM_178102 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTCGGGCTCTCCGGGCCAGACTCCGCCGGCGCGTTCCCCAGCCCGCCACCACCCGCCCGGCC
AGCCGCCCGCCCGTTCCCTCAGTTCACGTCAAGTCGGGCTGCAGATCCGAAAGAAGCCATCACCGA
CGACTACAAGGTCACCAGCAAGTGCTTGGCTGGGCATCAACGGGAAGGTGCTGCGGATCTTCGACAAG
AGAACCAGCAAAAATTCGCCCTAAAGATGCTGCAGGACTGTCCAAGGCACGCAGAGAGGTGGAGCTGC
ACTGGAGGGCCTCCAGTGCCACACATCGTGACATCGTGGACGTCTATGAGAACCTGTATGCCGGGAG
GAAGTGCTTGCTGATTGTATGGAGTGTCTCGATGGTGGAGAGCTCTTTAGTCGGATCCAGGACCGAGGA
GACCAGGCATTCACAGAAAGAGAGGCATCAGAGATCATGAAGAGCATCGGGGAGGCCATCCAGTACCTGC
ACTCTATCAACATCGCTCACCGGACGTCAAGCCCGAGAACCTCTTATACACTTCCAAAAGACCCAATGC
CATCCTGAAACTCACTGATTTTGGCTTTGCCAAGGAAACCACCAGTCACAACCTTTGACCCTCCGTGT
TATACACCGTACTATGTGGCTCCGGAAGTACTGGGCCAGAGAAGTATGACAAGTCTGTGACATGTGGT
CCTTGGGTGTCATCATGTATATTTGCTGTGTGGGTATCCCCCTTCTATCCAACCACGGCCTTGCCAT
CTCTCCGGGCATGAAGACTCGCATTGCAATGGGCCAGTATGAATTTCCAACCCAGAATGGTCAGAAGTA
TCAGAAGAAGTGAAGATGCTTATTCGGAATCTGCTGAAAACAGAGCCACCCAGAGAATGACCATCACAG
AATTCATGAACCACCGTGGATCATGCAATCTACGAAGTCCCTCAGACTCCACTGCACACCAGCCGCGT
CCTGAAGGAGGACAAGGAACGATGGGAGGATGTCAAGGAGGAGATGACCAGTGCCTTGGCCACGATGCGT
GTCGACTATGAGCAGGTCAAGATAAAGAAGATAGAGGACGCATCCAACCTCTGCTTCTCAAGAGGAGGA
AGAAAGCTCGCGCCGTGGAAGACGCGGCCCTTGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207867 representing NM_178102
Red=Cloning site Green=Tags(s)

MLSGSPGQTPPAPFPSPPPPAPAPPPPPFQFHVKSGLQIRKNAITDDYKVT SQVLGLGINGKVLRI FDK
 RTQQK FALKMLQDCPKARREVELHWRASQCPhiVHI VDVYENL YAGRKCLLIVMECLDGGELFSRIQDRG
 DQAFTEREASEIMKSIGEAIQYLHSINIAHRDVK PENLLYTSKRPNAILKLTDFGFAKETTSHNSLTTPC
 YTPYYVAPEVLGPEKYDKSCDMWSLGVIMYILLCGYPPFYNSHGLAISPGMKTRIRMGQYEFNPWESEV
 SEEVKMLIRNLLKTEPTQRMTITFMNHPWIMQSTKVPQTP LHTSRVLKEDKERWEDVKEEMTSALATMR
 VDYEQVKIKKIEDASNPLLLKRRKKARAVEDAALAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178102

ORF Size: 1158 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_178102.2, NP_835203.1

RefSeq Size: 2909 bp

RefSeq ORF: 1161 bp

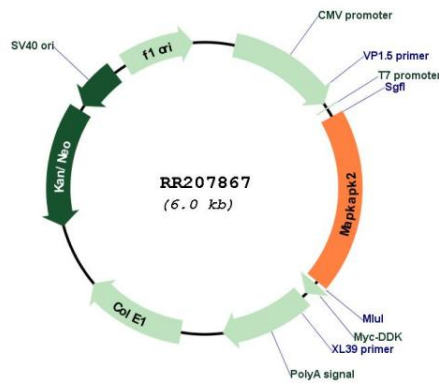
Locus ID: 289014

Cytogenetics: 13q13

MW: 44 kDa

Gene Summary: mediates formation of actin stress fibers in septal neuronal cells [RGD, Feb 2006]

Product images:



Circular map for RR207867