

Product datasheet for **RR200375**

Map2k5 (NM_001033987) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map2k5 (NM_001033987) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map2k5
Synonyms:	Mek5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200375 representing NM_001033987
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGTGGCTGGCCCTTGGCCCTTTCGTGCCATGGAGAACCAGGTGCTGGTGATTTCGGATCAAGATTC
 CAAATAGTGGCGCGGTGGACTGGACCGTCACTCCGGGCCGAGTTACTCTTCAGGGACGTGCTGGATGT
 GATAGGCCAGGTTCTGCCTGAAGCAACGACGACAGCCTTTGAATATGAAGATGAAGATGGTGATAGGATT
 ACAGTAAGAAGTGACGAAGAGATGAAGGCAATGCTGTCCTACTATTATCCACAGTAATGGAACAGCAAG
 TAAATGGCCAGCTAATAGAGCCGCTGCAGATCTTCCAAGAGCCTGCAAGCCTCTGGGGAACGGAACAT
 ACATGGCCTGAAGGTGAATACACGGGCTGGACCATCTCAGCACACCAGCCCTGTGGTCTCAGATTCACTT
 CCAAGCAATAGCTTGAAGAAGTCTCGGCTGAAGTGAAGATACTGGCCAACGGCCAGATGAATGAAC
 AAGACATACGGTATCGAGACACCCTTGGTCATGGCAACGGAGGCACAGTCTACAAAGCATATCATGTCCC
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 TCTGAGTTGAAAATCTTTATAAGTGTGACTCATCGTATATCATAGGATTTTACGGGGCATTTTTTGTAG
 AAAACAGGATTTTCGATTTGTACAGAATTCATGGATGGGGGTCTTTGGATGTATATAGGAAAATTCAGA
 GCACGTCCTCGGAAGAATTGCAGTAGCAGTTGTTAAAGGCCTTACCTATCTGTGGAGTTTAAAGATTTTA
 CACAGAGATGTGAAGCCTTCCAACATGCTTGTAAACACAAGCGGACAGGTCAAGCTGTGTGACTTCGGCG
 TGAGCACCCAGCTGGTGAATTCATAGCCAAGACGTATGTTGGAACAAATGCTTATATGGCACCCGAAAG
 GATTTTCAGGAGAGCAGTATGGGATCCATCCGACGTGTGGAGCTTAGGGATCTCTTTCATGGAGCTTGCT
 CTTGGGAGGTTCCATATCCTCAGATTCAGAAAAACCAGGGATCTTTAATGCCTCCAGCTTCTGCAGT
 GCATTGTTGATGAGGATTCGCCGTCCTCCGCTTGGAGAGTTCTCGGAGCCGTTTGATCATTTCATCAC
 TCAGTGCATGAGGAAGCAGCCCAAGGAAAGACCAGCGCCCGAGGAGCTGATGGGTACCCATTTCATCGTG
 CAGTTCAATGACGAAACGCCACTGTGGTGTCCATGTGGGTTTCCGAGCTCTGGAGGAGAGACGGAGCC
 AGCAGGGGCCCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200375 representing NM_001033987
 Red=Cloning site Green=Tags(s)

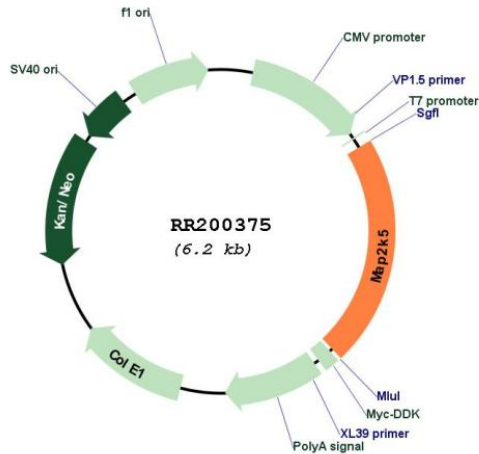
MLWLALGPFAMENQVLVIRIKIPNSGAVDWTVHSGPQLLFRDVLVIGQVLPEATTTAFEYEDEDGDRIT
 TVRSDEEMKAMLSYYSTVMEQQVNGQLIEPLQIFPRACKPPGERNIHGLKVNTRAGPSQHTSPVSDSL
 PSNSLKKSSAELRKILANGQMNEQDIRYRDTLGHGNGGTVYKAYHVPSGKILAVKVILLDITLELQKQIM
 SELEILYKCDSSYIIGFYGAFFVENRISICTEFMDGGSLDVYRKIPEHVLGRIAVAVVKGLTYLWSLKIL
 HRDVKPSNMLVNTSGQVKLCDFGVSTQLVNSIAKTYVGTNAYMAPERISGEQYGIHSDVWSLGISFMELA
 LGRFPYPQIQKNQGLMPLQLLQCIDVEDSPVLPPLGEFSEPFVHFITQCMRKQPKERPAPPEELMGHPFIV
 QFNDGNATVVSMWVCRALEERRSQGPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001033987

ORF Size: 1344 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_001033987.1](#), [NP_001029159.1](#)

RefSeq Size: 2357 bp

RefSeq ORF: 1347 bp

Locus ID: 29568

UniProt ID: [Q62862](#)

Cytogenetics: 8q24

MW: 50.2 kDa

Gene Summary: kinase involved in signal transduction in the cell [RGD, Feb 2006]