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Product datasheet for RR200376

Map2k5 (NM_017246) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map2k5 (NM_017246) 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
ORF Nucleotide Sequence:	>RR200376 representing NM_017246 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTGTGGCTGGCCCTTGGCCCCTTTCGTGCCATGGAGAACCAGGTGCTGGTGATTCGGATCAAGATTC CAAATAGTGGCGCGGTGGACTGGACCGTGCACTCCGGGCCGCAGTTACTCTTCAGGGACGTGCTGGATGT GATAGGCCAGGTTCTGCCTGAAGCAACGACGACAGCCTTTGAATATGAAGATGAAGATGGTGATAGGATT ACAGTAAGAAGTGACGAAGAGATGAAGGCAATGCTGTCCTACTATTATTCCACAGTAATGGAACAGCAAG TAAATGGCCAGCTAATAGAGCCGCTGCAGATCTTTCCAAGAGCCTGCAAGCCTCCTGGGGAACGGAACAT ACATGGCCTGAAGGTGAATACACGGGCTGGACCATCTCAGCACACCAGCCCTGTGGTCTCAGATTCACTT CCAAGCAATAGCTTGAAGAAGTCCTCGGCTGAACTGAGAAAGATACTGGCCAACGGCCAGATGAATGAAC AAGACATACGGTATCGAGACACCCTTGGTCATGGCAACGGAGGCACAGTCTACAAAGCATATCATGTCCC AAGTGGGAAAATCTTAGCTGTAAAGGTTATTCTGTTAGACATCACACTGGAGCTTCAGAAGCAGATCATG TCTGAGTTGGAAATTCTTTATAAGTGTGACTCATCGTATATCATAGGATTTTACGGGGCATTTTTTGTAG AAAACAGGATTTCGATTTGTACAGAATTCATGGATGGGGGGTCTTTGGATGTATATAGGAAAATTCCAGA GCACGTCCTCGGAAGAATTGCAGTAGCAGTTGTTAAAGGCCTTACCTATCTGTGGAGTTTAAAGATTTTA CACAGAGATGTGAAGCCTTCCAACATGCTTGTAAACACAAGCGGACAGGTCAAGCTGTGTGACTTCGGCG TGAGCACCCAGCTGGTGAATTCTATAGCCAAGACGTATGTTGGAACAAATGCTTATATGGCACCCGAAAG GATTTCAGGAGAGCAGTATGGGATCCATTCCGACGTGTGGAGCTTAGGGATCTCTTTCATGGAGATTCAG AAAAACCAGGGATCTTTAATGCCTCTCCAGCTTCTGCAGTGCATTGTTGATGAGGATTCGCCGGTCCTTC CGCTTGGAGAGTTCTCGGAGCCGTTTGTACATTTCATCACTCAGTGCATGAGGAAGCAGCCCAAGGAAAG ACCAGCGCCCGAGGAGCTGATGGGTCACCCATTCATCGTGCAGTTCAATGACGGAAACGCCACTGTGGTG TCCATGTGGGTTTGCCGAGCTCTGGAGGAGAGACGGAGCCAGCAGGGGCCCCCA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

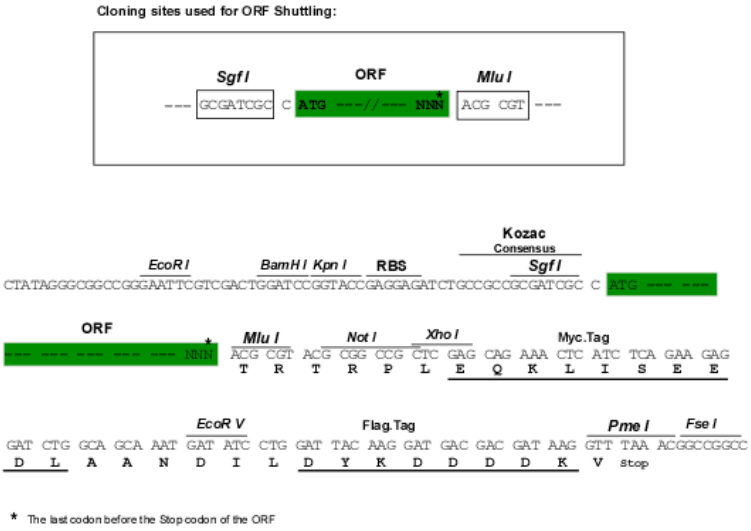
>RR200376 representing NM_017246
Red=Cloning site Green=Tags(s)

MLWLALGPFRAMENQVLVIRIKIPNSGAVDWTVHSGPQLLFRDVLDVIGQVLPEATTTAFEYEDEDGDRI
TVRSDEEMKAMLSYYYSTVMEQQVNGQLIEPLQIFPRACKPPGERNIHGLKVNTRAGPSQHTSPVVSDSL
PSNSLKKSSAELRKILANGQMNEQDIRYRDTLGHGNGGTVYKAYHVPSGKILAVKVILLDITLELQKQIM
SELEILYKCDSSYIIGFYGAFFVENRISICTEFMDGGSLDVYRKIPEHVLGRIAVAVVKGLTYLWSLKIL
HRDVKPSNMLVNTSGQVKLCDFGVSTQLVNSIAKTYVGTNAYMAPERISGEQYGIHSDVWSLGISFMEIQ
KNQGSLMPLQLLQCIVDEDSPVLPLGEFSEPFVHFITQCMRKQPKERPAPEELMGHPFIVQFNDGNATVV
SMWVCRALEERRSQQGPP

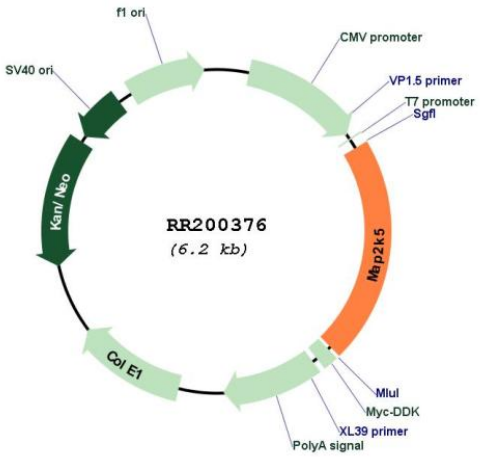
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017246

ORF Size:	1314 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_017246.2, NP_058942.1
RefSeq Size:	2327 bp
RefSeq ORF:	1317 bp
Locus ID:	29568
UniProt ID:	Q62862
Cytogenetics:	8q24
MW:	49.1 kDa
Gene Summary:	kinase involved in signal transduction in the cell [RGD, Feb 2006]