

Product datasheet for RR214231

Mapk3 (NM_017347) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk3 (NM_017347) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapk3
Synonyms:	Erk-1; ERK1; ERT2; Esrk1; MAPK1; MNK1; p44; p44erk1; p44mapk; Prkm3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214231 representing NM_017347 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCGGGCGGGCTCCGGGGCGGGGCGGGGAGCCAGGGAACTGCTGGGGTCTGCCCGG
TGGTCCCCGGGGAGGTGGAGGTGGTGAAGGGCAGCCATTCGACGTGGGCCACGCTACACGCAGCTGCA
GTACATCGGGAGGGCGGTACGGCATGGTCAGCTCAGCATATGACCACGTGGCAAGACCAGAGTGGCT
ATCAAGAAGATCAGCCCCTTCGAGCATCAAACCTACTGTCAGCGCAGCTGAGAGAAATCCAGATCTTGC
TCGGATTCGGCCATGAGAATGTCATAGGCATCCGAGACATCCTCAGAGCACCCACCCTGGAAGCCATGAG
AGATGTTTACATTGTTACAGGACCTCATGGAGACGGACCTGTACAAGCTGCTAAAGAGCCAGCAGCTGAGC
AATGACCACATCTGCTACTTCTCTACCAGATCCTCCGGGGCCTCAAGTACATACACTCGGCCAATGTGC
TGCACCGGGACCTGAAGCCCTCCAATCTGCTTATCAACACCACCTGCGACCTTAAGATCTGTGATTTGG
CCTTGCCCGGATTGCTGACCCTGAGCAGCACCACACTGGCTTTCTGACCGAGTATGTGGCCACACGCTGG
TACCGAGCCCCAGAGATCATGCTTAACTCCAAGGGCTACACCAAATCCATTGACATCTGGTCTGTGGGCT
GCATTCTGGCTGAGATGCTCTCCAACCGGCCTATCTTCCCGGCAAGCACTACCTGGACCAGCTCAACCA
CATTCTAGGTACTGGGTTCCCATCCCAAGAGGACCTAAATTTGATCATTAAACATGAAGGCCCGAAAC
TACCTACAGTCTCTGCCCTCTAAAACCAAGGTGGCTTGGGCAAGCTTTTTCCCAATCTGACTCCAAAG
CTTTGACCTGCTGGACCGGATGTTAACCTTTAACCCAAACAAGCGCATCACAGTAGAGGAAGCACTGGC
TCAACCCTTACCTGGAACAGTACTATGATCCGACAGATGAACCAAGTGGCTGAGGAGCCATTACCTTTGAC
ATGGAGCTGGATGATCTCCCAAGGAGCGGCTGAAGGAGCTGATCTTCCAAGAGACAGCCCGCTTCCAGC
CAGGGGCACAGAGGCCCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR214231 representing NM_017347
 Red=Cloning site Green=Tags(s)

MAAAAAAPGGGGGEPRTAGVVPVVPGEVEVVKGQPFVGPRTYQLQYIGEGAYGMVSSAYDHVRKTRVA
 IKKISPFEHQTYCQRTLREIQILLGFRHENVIGIRDILRAPTLEAMRDVYIVQDLMETDLYKLLKSQQLS
 NDHICYFLYQILRGLKYIHSANVLHRDLKPSNLLINTTCDLKICDFGLARIADPEHDHTGFLTTEYVATRW
 YRAPEIMLNSKGYTKSIDIWSVGCILAEMLSNRPIFPKGHYLDQLNHILGILGSPSQEDLNCIINMKARN
 YLQSLPSKTKVAVAKLFPKSDSKALDLLDRMLTFNPNKRITVEEALAHPLYEQYYDPTDEPVAEPEPFTFD
 MELDDLPKERLKLIFQETARFQPGAPEAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_017347

ORF Size: 1140 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_017347.2](#), [NP_059043.1](#)

RefSeq Size: 1875 bp

RefSeq ORF: 1143 bp

Locus ID: 50689

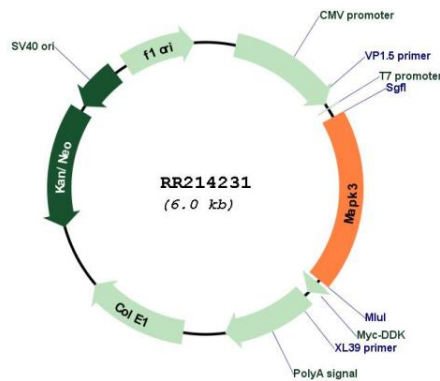
UniProt ID: [P21708](#)

Cytogenetics: 1q36

MW: 43 kDa

Gene Summary: kinase involved in intracellular signalling; component of Mapk signalling pathway [RGD, Feb 2006]

Product images:



Circular map for RR214231