

Product datasheet for **RR204032**

Map2k4 (NM_001030023) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Map2k4 (NM_001030023) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Map2k4
Synonyms: MKK4; Sek1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR204032 representing NM_001030023
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCTCCGAGCCGAGCGGCGGGCGGCTCCGGGGCGGTGGCGGCACCCGGGGCCATCGGGC
 CTCAGCTTCTGGCCACCCGGCGGTGAGCAGCATGCAGGGTAAACGAAAGCCCTGAAGTTGAATTTTGC
 AAATCCACCTGTCAAATCGACAGCACGGTTTACTCTGAATCCTAATACCACAGGAGTCCAGAACCCACAC
 ATAGAGAGACTGAGAACCACAGCATTGAGTCATCAGAAAAGTGAAGATCTCCCCTGAACAACACTGGG
 ATTTCACTGCAGAGGACTTGAAAGACCTTGAGAAATTGGACGAGGAGCTTATGGTTCTGTCAACAAAAT
 GGTCCACAAACCAAGTGGGCAGATAATGGCAGTTAAAAGAATACGATCAACTGTGGATGAAAAGAACA
 AAACAACCTTCTCATGGATTTGGATGTAGTGATGCGGAGTAGTGATTGCCCATACATTGTTCAAGTTCTATG
 GTGCACCTTTCAGAGAGGGCGACTGTTGGATCTGTATGGAGCTCATGTCTACCTCGTTCGATAAGTTTTA
 CAAATATGTATATAGTGTGTTAGATGATGTGATCCCGAAGAGATCTTAGGCAAAATCACTTTAGCAACT
 GTGAAAGCACTAAACCACTTAAAAGAAAAGTGGAAATATTACAGAGACATCAAACCTTCAATATTC
 TTCTGGACAGGAGTGAAATATAAGCTCTGTGACTTCGGCATCAGTGGACAGCTCGTGGACTCTATTGC
 CAAGACGAGAGATGCTGGCTGTAGGCCGTATATGGCACCTGAAAGAATAGACCAAGTGCATCAAGACAA
 GGGTATGATGCTCGCTCTGATGTCTGGAGTTTGGGGATCACATTTGACGAGTTGGCCACAGGCCGATTTTC
 CTATCCAAAGTGAATAGTGTATTTGATCAGCTAACACAAGTGGTAAAAGGAGACCCCTCCCAGCTGAG
 TAATTCGAAGAAAGGGAGTTCTCCCCAGTTTCACTTTGTCAACTTTGTGCCTTACGAAGGACGAG
 TCCAAAAGGCCAAAGTACAAAGAGCTTCTGAAACATCCCTTTATTTTGTATGATGAAGAAGTACTGTAG
 AGGTCGCATGCTATGTTTGTAAAATCCTGGATCAGATGCCAGCTACTCCCAGCTCTCCCATGTATGTCGA
 C

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCTCAGAAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204032 representing NM_001030023
 Red=Cloning site Green=Tags(s)

MAAPSPSGGGGSGGGGGTGPPIGPPASGHPAVSSMQGKRKALKLNFNANPPVKSTARFTLNPNNTTGVQNP
 IERLRTHSIESSGKLKISPEQHWDFTAEDLKDLEIGRGAYGSVNKMVHKPSGQIMAVKRIRSTVDEKEQ
 KQLMLDLVVMRSDCPYIVQFYGALFREGDCWICMELMSTSFDFKYKYVYVSLDDVPIEILGKITLAT
 VKALNHLKENLKIHRDIKPSNILLDRSGNIKLCDFGISGQLVDSIAKTRDAGCRPYMAPERIDPSASRQ
 GYDVRSDVWLSGITLYELATGRFPYPKWNVFDQLTQVVKGDPPQLSNSEEREFSPSFINFVNLCLTKDE
 SKRPKYKELLKHPFILMYEERTVEVACYVCKILDQMPATPSSPMYVD

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_001030023

ORF Size: 1191 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_001030023.1](#), [NP_001025194.1](#)

RefSeq Size: 1194 bp

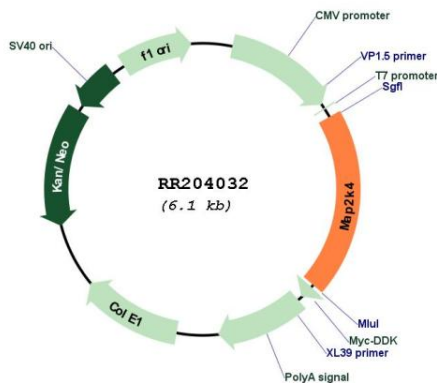
RefSeq ORF: 1194 bp

Locus ID: 287398

Cytogenetics: 10q24

MW: 44.1 kDa

Product images:



Circular map for RR204032