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Product datasheet for MR210730

Map3k20 (NM_023057) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k20 (NM_023057) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map3k20
Synonyms:	AV006891; B230120H23Rik; MLTK; MLTKalpha; MLTKbeta; Zak
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR210730 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGTCTCTCGGAGCCTCCTTTGTGCAAATTAAGTTCGACGACTTGCAGTTTTTTGAAAACTGCGGTG
GAGGAAGTTTTGGGAGTGTGTATCGAGCCAAATGGATATCACAGGACAAGGAGGTGGCTGTAAAGAAGTT
ACTCAAAATAGAGAAAGAGGCAGAAATCCTGAGCGTCCTCAGTCACAGAAACATCATCCAGTTTTATGGA
GTGATTCTGGAACCTCCCAACTATGGCATCGTCACAGAATATGCTTCCCTGGGCTCCCTGTATGATTACA
TTAACAGCAACAGGAGTGAAGAGATGGACATGGAACACATCATGACCTGGGCCACTGACGTAGCCAAAGG
GATGCATTACTTACACATGGAAGCTCCTGTCAAGGTGATCCACAGAGACCTCAAGTCAAGAAACGTTGTT
ATCGCTGCTGACGGAGTGCTGAAGATCTGTGACTTCGGTGCCTCGCGGTTCCATAACCACACAACACACA
TGTCCTTGGTTGGAACTTTCCCATGGATGGCTCCAGAAGTTATCCAGAGTCTCCCTGTGTCTGAAACCTG
TGACACGTATTCCTATGGTGTGGTTCTCTGGGAGATGCTAACAAGGGAGGTCCCCTTTAAAGGTTTGGAA
GGATTACAAGTAGCTTGGCTTGTAGTGGAAAAAAACGAGAGATTAACCATTCCAAGCAGCTGCCCCAGAA
GCTTTGCTGAACTGCTACACCAGTGTTGGGAGGCTGATGCCAAGAAACGGCCATCGTTCAAGCAAATCAT
TTCAATCCTGGAGTCTATGTCAAATGACACGAACCTTCCTGACCAGTGTAACTCATTTTTACACAACAAG
GCGGAGTGGAGGTGTGAAATTGAGGCAACCCTTGAGCGACTGAAGAAACTAGAGCGAGATCTCAGCTTTA
AAGAGCAGGAGCTCAAAGAACGGGAGAGACGTCTCAAGATGTGGGAGCAGAAGCTGACGGAGCAATCCAA
CACCCCGCTGCTGCCTTCCTTTGAGATTGGTGCGTGGACTGAAGACGATGTGTATTTTTGGGTTCAGCAG
CTCGTCAGAAAAGGCGAGTCTTCAGTAGAGATGAGTGGATACGCAAGTTTGTTTAAGGAGAACAACATCA
CAGGCAAGCGGTTGCTGCTTCTGGAAGAGGAAGATCTGAAAGACATGGGCATCGTCTCCAAGGGACACAT
CATTCACTTTAAGTCAGCTATTGAGAAGCTAACCCACGATTATCTGAACCTGTTTCACTTCCCACCACTG
ATTAAGGATTCAGGAGGGGAACCTGAAGAAAATGAGGAAAAAATAGTGAACCTTGAACTTGTTTTTGGTT
TTCACTTGAAGCCAGGAACTGGCCCACAGGATTGCAAATGGAAAATGTATATGGAGATGGATGGGGACGA
AGTTGCAATCACGTACATAAAAGATGTGACTTTCAACACGAGCCTCCCTGATGCAGAGATTTTAAAGATG
ACAAAGCCACCATTTGTAATGGAGAAGTGGATCGTGGGAATAGCGGAGGATCAGACTGTGGAGTGCACGG
TCACCTATGAGAATGATGTCAGAACACCAAAACTCACTAAGCACGTGCACTCCATACAGTGGGACAGAAC
GAAGCCTCAGGATGAGGTGAAGGCGGTCCAGCTTGCCATTCAGACTCTGTTCTCCAGCTCAGAGGGCAAC
CCTGGCAGCAGATCCGACTCCAGTGCGGACTGCCAATGGTTAGACACTCTGCGCATGCGGCAGATTGCAT
CCCACACTTCTCTACAGCGTTCCCAAAGCAACCCTATCTTGGGGTCTCCTTTCTTCCCTTACTTTGCCAA
CCAGGATTCCTATGCTGCTGCGGTGAGGAGGACCCAGACTCCGGTGAAGTACCAGCAGATTACACCAAGC
ATCAACCCTTCCCGGAGCTCCTCCCCCACGCAGTATGGGCTGTCCAGAAACTTCTCCTCCCTGAACCTCA
GCTCCAGGGACAGCGGCTTCTCCAGCCTCAATGACAGCTCCTCCGAGAGGGGCCGCTACTCAGACCGAAG
CAGAAACAAGTACTACCGTGGTAGTGTGTCCCTCAATTCTTCCCCGAAAGGAAGATATGGTGGGAAAAGT
CAGCATTCCACACCTTCAAGAGAAAGATATTCTGGAAAGTTCTACAGGCTGCCCCAGTCAGCGCTGAACA
CTCATCAGTCCCCTGACTTCAAGAGGAGCCCAAATGACCATGACCGCCGTGTGCCCAGGACCATACCCGG
GATGCCTCTGCACCCTGAGACTGCCTCCAAAGCAGGGGAAGAGGAGAGCAGGGTGAGCGAAGGGGGCTGG
ACTAAAGTGGAATATCGGAAGAAGACACACAGGCAACTTTCGGCCAAGACTAGCAAGGAGAGAACCCGTG
GCAACTACCGTGGGCGGCGGAATTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR210730 protein sequence
Red=Cloning site Green=Tags(s)

MSSLGASFVQIKFDDLQFFENCGGGSFGSVYRAKWISQDKEVAVKKLLKIEKEAEILSVLSHRNIIQFYG
VILEPPNYGIVTEYASLGSLYDYINSNRSEEMDMEHIMTWATDVAKGMHYLHMEAPVKVIHRDLKSRNVV
IAADGVLKICDFGASRFHNHTTHMSLVGTFPWMAPEVIQSLPVSETCDTYSYGVVLWEMLTREVPFKGLE
GLQVAWLVVEKNERLTIPSSCPRSFAELLHQCWEADAKKRPSFKQIISILESMSNDTNLPDQCNSFLHNK
AEWRCEIEATLERLKKLERDLSFKEQELKERERRLKMWEQKLTEQSNTPLLPSFEIGAWTEDDVYFWVQQ
LVRKGESSVEMSGYASLFKENNITGKRLLLLEEEDLKDMGIVSKGHIIHFKSAIEKLTHDYLNLFHFPPL
IKDSGGEPEENEEKIVNLELVFGFHLKPGTGPQDCKWKMYMEMDGDEVAITYIKDVTFNTSLPDAEILKM
TKPPFVMEKWIVGIAEDQTVECTVTYENDVRTPKLTKHVHSIQWDRTKPQDEVKAVQLAIQTLFSSSEGN
PGSRSDSSADCQWLDTLRMRQIASHTSLQRSQSNPILGSPFFPYFANQDSYAAAVRRTQTPVKYQQITPS
INPSRSSSPTQYGLSRNFSSLNLSSRDSGFSSLNDSSSERGRYSDRSRNKYYRGSVSLNSSPKGRYGGKS
QHSTPSRERYSGKFYRLPQSALNTHQSPDFKRSPNDHDRRVPRTIPGMPLHPETASKAGEEESRVSEGGW
TKVEYRKKTHRQLSAKTSKERTRGNYRGRRNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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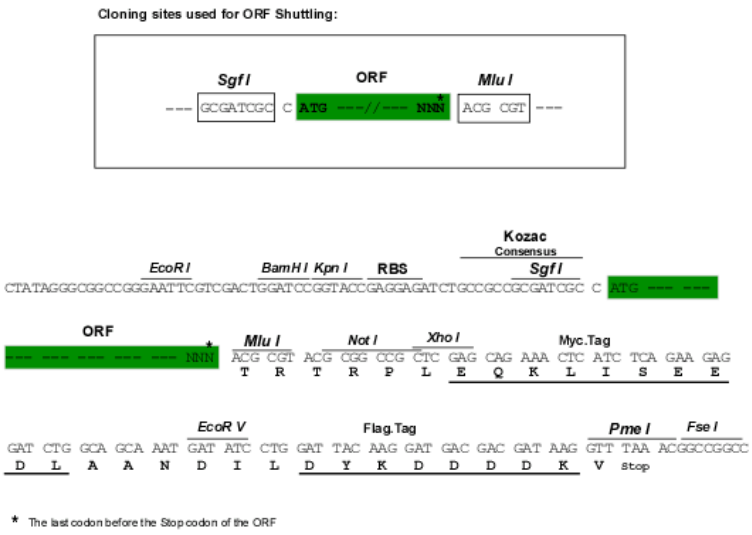
Cloning Scheme:



ACCN: NM_023057

ORF Size: 2409 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).

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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_023057.5, NP_075544.1

RefSeq Size: 3365 bp

RefSeq ORF: 2409 bp

Locus ID: 65964

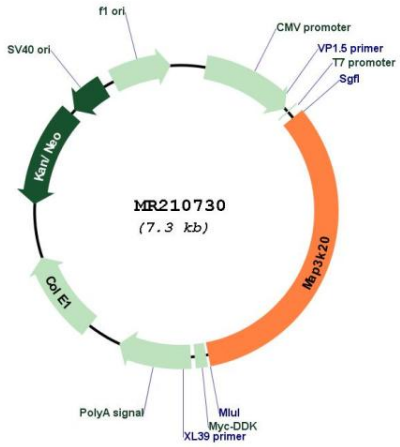
UniProt ID: Q9ESL4

Cytogenetics: 2 C3

MW: 91.7 kDa

Gene Summary: Stress-activated component of a protein kinase signal transduction cascade. Regulates the JNK and p38 pathways (PubMed:11042189). Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14 (By similarity). Pro-apoptotic. Role in regulation of S and G2 cell cycle checkpoint by direct phosphorylation of CHEK2 (By similarity). Involved in limb development (PubMed:26755636). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210730

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