

Product datasheet for **RC235085**

MAP3K13 (NM_001242314) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K13 (NM_001242314) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAP3K13
Synonyms:	LZK; MEKK13; MLK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC235085 representing NM_001242314
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAACCTTTAGGAGCACCTGAGCTGCTCCTCTTCTCCACACTTACCCTTCAGTGAAAGCAAAACCT
 TCAATGGACTACAAGATGAGCTCACAGCTATGGGGAACACCCTTCTCCAAGCTGCTCGAGGACCAGCA
 GGAAAAGGGGATGGTACGAACAGAGCTAATCGAGAGCGTGCACAGCCCCGTACCACAACAGTGTGACG
 AGCGTAAGTGAGGATTCCAGGGACCAGTTTGAAGACAGCGTTCTTTCAGCTAAGGGAACACGATGAATCAG
 AGACGGCGGTGTCTCAGGGGAACAGCAACCGGTGGACGGAGAGAGCACAAAGCGGAACTGAAGACATAAA
 GATTTCAGTTTCAGCAGGTGAGCAGTGGCAGTGGTGGTCTTGAAGGACTATTTGGATGCTTAAGGCCCT
 GTATGGAATATCATTGGGAAGGCATATCCACTGATTACAATTCGAGCAGCAAGATACTGGGAAGTGC
 CATTTCAGGAGATCTCAGAGCTGCAGTGGCTGGTGTAGTGGAGCCCAAGGAGCGGTCTTCTGGGCAAGTT
 CCGGGCGAAGAGGTGGCCATCAAGAAAGTGAGAGAACAGAATGAGACGGATATCAAGCATTTCAGGAAG
 TTGAAGCACCCCTAACATCATCGCATTCAAGGGTGTGGTACTCAGGCCCATGTTATTGTATTATCATGG
 AATACTGTGCCCATGGACAACCTACGAGGTCTTACGAGCTGGCAGGAAGATCACACCTCGATTGCTAGT
 AGACTGGTCCACAGGAATTGCAAGTGAATGAATTATTTGCACCTCCATAAAATTATTCATCGTGATCTC
 AAATCACCTAATGTTTTAGTGACCCACACAGATGCGGTAAAAATTTTCAGATTTTGGTACATCTAAGGAAC
 TCAGTGACAAAAGTACCAAGATGTCATTTGCTGGCAGCGTGCATGGATGGCGCCAGAGGTGATACGGAA
 TGAACCTGTCTCTGAAAAAGTTGATATATGGTCTTTGGAGTGGTGTCTTGGGAGCTGCTGACAGGAGAG
 ATCCCTTACAAAGATGTAGATTCTCAGCCATTATCTGGGGTGTGGAAGCAACAGCCTCCACCTTCCAG
 TTCTTCCACTTGCCCTGATGGATTCAAAATCCTTATGAAACAGACGCTGGCAGAGTAAACCTCGAAACCG
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 TATTCGTGAACACTATGAGCGGAAGCTTGGAGCGGCGAATAATTTATACATGGAATTGAGTGCCATCATG
 CTGCAGCTAGAAATGCGGGAGAAGGAGCTCATTAAAGCGTGAAGCAAGCAGTGGAAAAGAAGTATCTGGGA
 CCTACAAACGACACCCTGTTGCTCTATCATCCATCCCAATGCCATGGAGAACTCATGAAAAGGAAAGG
 AGTGCCTCACAAATCTGGGATGCAGACCAACGGCCAGACTTGTGAGATCAGAAGGGATCCCCACCACA
 GAAGTGGCTCCCCTGCATCCCCTTTGTCGGGAAGTCCCAAAATGTCCACTTCTAGCAGCAAGAGCCGAT
 ATCGAAGCAAACACGCCACCGCCGAGGGAATAGCAGAGGCAGCCATAGTGACTTTGCCGCAATCTTGAA
 AAACCAGCCAGCCAGGAAAATTCACCCATCCCCTTACCTGCACCAAGCTCAATCCCAATACCCTTCT
 CTTTCATACCATAATTCTCTGCAGCAGCAATACCAGCAGCCCCCTCCTGCCATGTCCCAGAGTACCATC
 CCAGACTCAATATGCACGGACAGGACATAGCAACCTGCGCAACAACCTGAGGATTTTCGGCCAGCAGC
 AGCCCTGCGGAGCCCACTCAGCAACCATGCTCAGAGACAGCTGCCCGGCTCGAGCCCTGACCTCATCTCC
 ACAGCCATGGCTGCAGACTGCTGGAGAAGTTCTGAGCCTGACAAGGGCCAAGCTGGTCCCTGGGGCTGTT
 GCCAGGCTGACGCTTATGACCCCTGCCTCAGTGCAGGCCAGAACAGTATGGGTCCTTAGACATACCCTC
 TGCTGAGCCAGTGGGGAGGAGCCCTGACCTTCCAAGTACCAGCACATAATCCTCTTTGGAAAACGCC
 CAGAGTTCTGAGAAAACGGAAGAAAATGAATTCAGCGGCTGTAGGTCTGAGTCACTCCCTCGGCACCTCTC
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 AGCTGCCAGTCATATTCAACCTTAGCTCTGAGATTTCTCTGTGTCTGATGGAGAAGAGGGAAATACCA
 GTGACCACTCAAACAGTCTGATGAGTTAGCTGATAAACTTGAAGACCGCTTGGCAGAGAAGCTAGACGA
 CCTGCTGTCCCAGACGCCAGAGATTCCCATGACATATCCTCACACTCGGATGGGCTCTCTGACAAGGAG
 TGTGCCGTGCGCGTGTGAAGACTCAGATGTCTCTGGCAAGCTGTGTGGAGGAACGTGGCTATGAGA
 ACCCCATGCAGTTTGAAGATCGGACTGTGACTCTCAGATGGGAGTGTCTGATGCCACAGTTAGGAC
 CAATAAACACTACAGCTCTGCTACCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235085 representing NM_001242314
 Red=Cloning site Green=Tags(s)

MANFQEHLSCSSSPHLPFSESKTFNGLQDEL TAMGNHSPKLLDQEQKGMVRETELIESVHSPVTTTTLT
 SVSEDSRDQFENSVLQLREHDESETAVSQGNSNTVDGESTSGTEDIKIQFSRSGSGGGFLEGLFGCLRP
 VWNIIIGKAYSTDYKLQQQDTWEVPFEEISELQWLGSGAQGAVFLGKFRAEEVAIKKVREQNETDIKHLRK
 LKHPNIIAFKGVCTQAPCYCIIMEYCAHGQLYEVL RAGRKITPRLLVDWSTGIASGMNYLHLHKIHRDL
 KSPNVLVTHTDVAVKISDFGTSKELSDKSTKMSFAGTVAWMAPEVIRNRPVSEKVDIWSFGVVLWELLTGE
 IPYKDVDSIIWVGVSNSLHLPVPSTCPDGFKILMKQTWQSKPRNRPFRQTLMHLDIASADVLATPQE
 TYFKSQAEWREEVKHFEEKIKSEGTCIHRLEDELIRRRREELRHALDIREHYERKLERANNLYMELSAIM
 LQLEMREKELIKREQAVEKKYPGTYKRHPVRPIIHPNAMEKLMKRKGVPHKSGMQTKRPDLLRSEGIPTT
 EVAPTASPLSGSPKMSTSSKSRYSRSPRHRGNSRGSDFSFAAILKNQPAQENSPHTYLHQAQSQYPS
 LHHHNSLQQYQPPAMSQSHHPRLNMHGQDIATCANNLRYFGPAAALRSPLSNHAQRQLPGSSPDLIS
 TAMAADCWRSSEPDKGQAGPWGCCQADAYDPCLQCRPEQYGLDIPSAEPVGRSPDLKSPAHNPLENA
 QSSEKTEENEFSGCRSESLGTSHLGTPPALPRKTRPLQKSGDSSSEEEGEVDSEVEFPRRQRPHRCIS
 SCQSYSTFSSENFVSDGEEGNTSDHSNSPDELADKLEDRLAEKLDLLSQTP EIPIDISSHSDGLSDKE
 CAVRRVKTQMSLGKLCVEERGYENPMQFEEEDCDSSDGECSDATVRTNKHYSSATW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3521_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



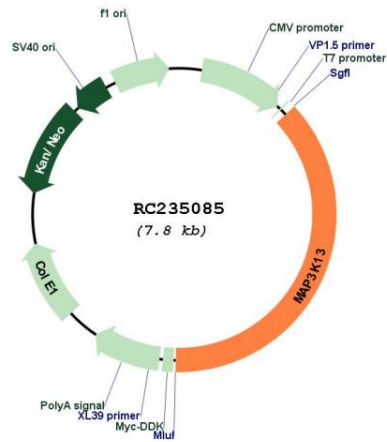
* The last codon before the Stop codon of the ORF

ACCN: NM_001242314

ORF Size: 2898 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:	<ol style="list-style-type: none">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_001242314.2
RefSeq Size:	9830 bp
RefSeq ORF:	2901 bp
Locus ID:	9175
UniProt ID:	O43283
Cytogenetics:	3q27.2
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways:	MAPK signaling pathway
MW:	108.3 kDa
Gene Summary:	The protein encoded by this gene is a member of serine/threonine protein kinase family. This kinase contains a dual leucine-zipper motif, and has been shown to form dimers/oligomers through its leucine-zipper motif. This kinase can phosphorylate and activate MAPK8/JNK, MAP2K7/MKK7, which suggests a role in the JNK signaling pathway. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC235085