

Product datasheet for RC238157

MEK7 (MAP2K7) (NM_001297556) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEK7 (MAP2K7) (NM_001297556) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAP2K7
Synonyms:	JNKK2; MAPKK7; MEK; MEK 7; MKK7; PRKMK7; SAPKK-4; SAPKK4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238157 representing NM_001297556 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGTCTCCCTGGAACAGAAGCTGTCCCCTGGAAGCAAAGCTGAAGCAGGAGAACCGGGAGG
CCCGCGGAGGATCGACCTCAACCTGGATATCAGCCCCAGCGGCCAGGCCACCCTGCAGCTCCCCT
GGCCAACGATGGGGCAGCCGCTCGCCATCCTCAGAGAGCTCCCCGAGCACCCACGCCCCCGCCGG
CCCGCCACATGCTGGGGCTCCCGTCAACCTGTTACACCCCGCAGCATGGAGAGCATTGAGATTGACC
AGAAGCTGCAGGAGATCATGAAGCAGACGGCTACCTGACCATCGGGGGCCAGCGCTACAGGCAGAAAT
CAACGACCTGGAGAACTTGGGCGAGATGGGCAGCGCACCTGCGGCCAGGTGTGGAAGATGCGCTTCCGG
AAGACCGGCCACGTATTGCCGTTAAGCAAATGCGGCGCTCCGGGAACAAGGAGGAGAACAAGCGCATCC
TCATGGACCTGGATGTGGTGCTGAAGAGCCACGACTGCCCTACATCGTGCAGTGCTTTGGGACGTTT
CACCAACACGGACGTCTTCATCGCCATGGAGCTCATGGGCACCTGCGCTGAGAAGCTCAAGAAGCGGATG
CAGGGCCCCATCCCCGAGCGCATTCTGGCAAGATGACAGTGCCGATTGTGAAGGCGCTGTACTACCTGA
AGGAGAAGCAGGTGTCAATCCACCGCAGCTCAAGCCCTCAACATCCTGCTGGAGCAGCGGGCCAGAT
CAAGCTCTGCGACTTCGGCATCAGCGGCCGCTGGTGGACTCCAAGCCAAGACGCGGAGCGCCGCTGT
GCCGCTACATGGCACCCGAGCGCATTGACCCCCAGACCCACCAAGCCGGACTATGACATCCGGGCCG
ACGTATGGAGCCTGGCATCTCGTTGCCCTGCCGCTCCCTCCCAGGTGGAGCTGGCAACAGGACAGTT
TCCCTACAAGAACTGCAAGACGGACTTTGAGGTCTCACAAAGTCTACAGGAAGAGCCCCGCTTCTG
CCCGGACACATGGGCTTCTCGGGGACTTCCAGTCTTTCGTCAAAGACTGCCTTACTAAAGATCACAGGA
AGAGACCAAAGTATAATAAGCTACTTGAACACAGCTTCATCAAGCGCTACGAGACGCTGGAGGTGGACGT
GGCGTCTGGTTCAAGGATGTCATGGCGAAGACTGAGTACCAGCGGACTAGCGGCGTCTGAGCCAGCCC
CACCTGCCCTTTCAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC238157 representing NM_001297556
 Red=Cloning site Green=Tags(s)

MAASSLEQKLSRLEAKLKQENREARRRIDLNLDISPQRPRPTLQLPLANDGGSRSPPSESSPQHPTPPAR
 PRHMLGLPSTLFTPRSMESIEIDQKLQEIMKQTGYLTIGGQRYQAEINDLENLGMGSGTCGQVWKMRF
 KTGHVIAVKQMRSGNKEENKRILMDLDVVLKSHDCPYIVQCFTGITNTDVFIAELMGTCAEKLKRM
 QGP IPERILGKMTVAIVKALYYLKEKHGVIHRDVKPSNILLDERGQIKL CDFGISGRLVDSKAKTRSAGC
 AAYMAPERIDPPDPTKPDYDIRADVWSLGTSLPCSPSQVELATGQFPYKNCKTDFEVLTKVLQEEPPLL
 PGHMGFSGDFQSFVKDCLTKDHRKRPKYNKLEHSFIKRYETLEVDVASWFKDVMAKTESPRTSGLVLSQP
 HLPFFR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

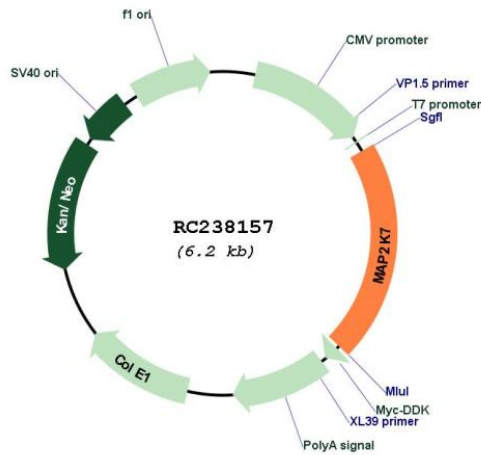
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001297556

ORF Size:	1278 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_001297556.2
RefSeq Size:	3498 bp
RefSeq ORF:	1281 bp
Locus ID:	5609
UniProt ID:	O14733
Cytogenetics:	19p13.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	ErbB signaling pathway, Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway
MW:	48.6 kDa
Gene Summary:	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kinase itself is phosphorylated and activated by MAP kinase kinase kinases including MAP3K1/MEKK1, MAP3K2/MEKK2, MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the signal transduction mediating the cell responses to proinflammatory cytokines, and environmental stresses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]