

Product datasheet for **RN217226**

Mapk7 (NM_001191547) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk7 (NM_001191547) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mapk7
Synonyms:	Bmk1; Erk5; Prkm7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN217226 representing NM_001191547
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGAACCGTTGAAGGAGGAGGACGGCGAAGATGGCTCTGGGGAACCCCTGGGCGGGTGAAGGCAG
 AACCCGTCCTCACTCCGCTGCATCTGTCTGGCCAAGAACCCTGGCCCTGCTCAAAGCCCGCTCCTTCGACGT
 GACCTTTGACGTGGGGGACGAGTACGAGATCATCGAGACCATAGGCAATGGGGCTACGGGGTGGTGTCC
 TCGGCGCGCCCGCCTCACGGGTGAGGAGTGGCCATCAAGAAGATACCTAATGCTTTTGTGTGGTGA
 CCAATGCCAAACGGACCCTCAGGGAACGAAGATCCTCAAACACTTCAAACACGACAATATCATCGCCAT
 CAAGGACATCCTGAGGCCACTGTGCCCTATGGAGAATTCAGATCTGTCTACGTGGTACTGGACCTCATG
 GAAAGTGACCTACACCAGATCATTCACTCTTACAGCCGCTCACACTAGAACATGTGAGATACTTCTAT
 ACCAGTGTCTTCGGGGCCTCAAATACATGCACTCTGCTCAGGTCATCCACCGCATCTTAAACCCTTAA
 CCTTTTGGTCAATGAGAACTGTGAGCTCAAGATTGGTGACTTTGGAATGGCCCGTGGCCTGTGTACATCC
 CCTGCCGAGCACCAGTACTTCATGACTGAGTATGTGGCCACTCGCTGGTACCGTGTCTCTGAACTCATGC
 TTTTCGCTGCATGAGTACACACAGGCTATTGACCTCTGGTCTGTGGGCTGCATCTTTGGTGAAGTGTGGC
 TCGGCGACAGCTTCCAGGCAAAAATATGTGCATCAGTTACAGCTGATCATGATGGTGTGGGAACT
 CCATCACCAGCTGTGATTCAGGCTGTGGGGGCTGAAAGGGTGCAGCCTATATCCAGAGCCTGCCACCAA
 GGCAGCCTGTACCTTGGGAGACAGTATACCCGGGTGCTGACCGCCAGGCCCTCTCACTGTGGGACGCAT
 GTTGGGATTTGAACCCAGTGCCGAATCTCAGCTGCTGCTGCCCTTCGCCACCCCTTCTGGCTAAGTAC
 CACGACCCTGACGATGAGCCTGATTGCGCCCACTTTTACTTTGCTTTTGACCGTGAAGCCCTTACCA
 GGGAGCGCATAAAGGAGGCCATTTGGCTGAGATTGAGGACTTCCATGCACGACGGGAGGGCATCCGCCA
 ACAAAATTCGCTTCCAGCCCTCTTTGCAGCCTGTGGCTAGTGAGCCTGTGTGTCCAGATGTGAGATGCC
 AGCCCTGGGCTCCAAGTGGAGACTGTGCCATGGAGTACCTCCTCCAGCACTACCACCATGCTCTGGCC
 CTGCCCTGCACTGTTGATCTGACTCTGCAGCCTGCCCGCCGCGCCAGTGAAGTGTCTCCGCAAAAAG
 AGAGGGTGCCATCTCCGACAATACCAAAGCAGCCCTCAAAGTGTCTGCTCAAGTCCCTGAGGAGCCGG
 CTTGAGATGGGCCAGTGCACCCTTGGAGCCCTGAACCTCGAAAGCCTGTGACAGCTCAGGAACGTC
 AGCGAGAGCGAGAAGAGAAGCGCAGGAGGCGACAAGAGAGGCCAAGGAGAGGGAGAAGCGACGACAAGA
 GCGGGAGCGCAAGGAGAGGGGGCTGGCACCTTGGGGGGCCCTCTACTGACCCTTTGGCTGGATTGGTG
 CTCAGTGACAATGACCGAAGCCTGCTAGAGCGGTGGACTCGCATGGCTAGGCCTCTGTCCCTGCACCAG
 CACCAGCACCAGACCAACCAAAAACCAACCAACCAACACAGTCTCTGCTCAACCCACTAGTCC
 TCCAATGGCCCTGTATCTCAGTCTACTGCTCCTTACAGCCTGCAGGCTCTATTCTGGTCTGCTCC
 CAGCCTGTTTGGCCACCCCTGGGCTGTTCCCGCAGCCTGCTGGCCCTGTCCCTGCCCTCTCCAGACTG
 CCCCTTCCACTAGCCTTTGGCCTCCAGTCACTTGTGCCACCTAGTGGGTTGCCTGGTTCTGGTGGCCC
 AGAAGTCTGCCTTACTTCCATCTGGCCACCACCTCCAGATCCTGGGCTACCCCTCAGCCTTCTACA
 TCAGAGTCACTGATGTCAACCTGGTGACCCAGCAACTGTCCAAGTCTCAGGTGGAGGACCCCTGCCTC
 CCGTGTCTCAGGCACTCAAAGGGCAGTGGGGCTGGCTACGGTGTGGCTTTGACCTGGAGGAATCTT
 AAACCAATCTTTTGCATGGGTGTGGCTGATGGGCCACAGGATAGCCAGGCACTCAGCCTCACTCTCA
 GCCTCCCTCCTTGTGACTGGCTTGGAGGCCACGGCATGAACCCCGCTGACATTGAGTCTCTGCAGCGTG
 AGATCCAGATGGACTCCCAATGTTGTGTCTGACCTGCCTGACCTCCAAGAACC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001191547
Insert Size: 2439 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001191547.1, NP_001178476.1</u>
RefSeq Size:	2738 bp
RefSeq ORF:	2439 bp
Locus ID:	114509
Cytogenetics:	10q22
Gene Summary:	binds and phosphorylates myocyte enhancer factor 2 (Mef2); may regulate Mef2 transcription activator function [RGD, Feb 2006]