

Product datasheet for **RC237834**

MAPK4 (NM_001292039) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAPK4 (NM_001292039) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MAPK4
Synonyms: ERK-4; ERK4; p63-MAPK; p63MAPK; PRKM4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237834 representing NM_001292039
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGGGCGCCGGCTGCATCCTGGCTGAGATGCTTACGGGGAGAATGCTCTTTGCTGGGGCCCATGAGC
TGGAGCAGATGCAACTCATCCTGGAGACCATCCCTGTAATCCGGGAGGAAGACAAGGACGAGCTGCTCAG
GGTGATGCCTTCTTTGTCAGCAGCACCTGGGAGGTGAAGAGGCCTCTGCGCAAGCTGCTCCCTGAAGT
AACAGTGAAGCCATCGACTTTCTGGAGAAGATCCTGACCTTTAACCCCATGGATCGCTAACAGCTGAGA
TGGGGCTGCAACACCCCTACATGAGCCATACTCGTGCCCTGAGGACGAGCCACCTCACAAACCCCTT
CCGCATTGAGGATGAGATCGACGACATCGTGCTGATGGCCGTAACCAGAGCCAGCTGTCCAACCTGGGAC
ACGTGCAGTTCAGGTACCCTGTGAGCCTGTGCTCGGACCTGGAGTGGCGCCTGACCGGTGCCAGGACG
CCAGCGAGGTACAGCGCACCCGCGCGGGTTCGGCGCCACTGGCTGAGGACGTGCAGGTGGACCCGCG
CAAGGACTCGCACAGCAGCTCCGAGCGCTTCTAGAGCAGTCGCACTCGTCCATGGAGCGCGCCTTCGAG
GCCGACTACGGGCGCTCCTGCGACTACAAGGTGGGTGCGCGTCTACCTGGACAAGCTGCTGTGGCGCG
ACAACAAGCCGCACCACTACTCGGAGCCCAAGTCATCCTGGACCTGTGCACTGGAAGCAGGCGGCCGG
CGCGCCCCACGGCCACGGGGCTGGCGGACACGGGGCGCGGAGGACGAGCCGGCCAGCCTCTTCTG
GAGATCGCGCAGTGGGTCAAGAGCACGCAGGGCGCCAGAGCACGCCAGCCCGCCCGCCGACGACCCCG
AGCGCCGCTTGTCTGCCTCGCCCCCGCCGCGCCCGGCGCCGCTGGACGGCGGCGCCAGCCCCAGTT
CCTGGACGTGTTTCATCTCCCGCGCCCTGAAGCTCTGCACCAAGCCGAGGACCTGCCGACAATAAACTG
GGCGACCTCAATGGTGCATGCCATCCCCGAGCACCTGGCGACCTCGTGCAGACCGAGGCCTTCTCCAAG
AAAGGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237834 representing NM_001292039
Red=Cloning site Green=Tags(s)

MWAAGCILAEMLTGRMLFAGAHELEQMLILETIPVIREEDKDELLRVMPFSVSSSTWEVKRPLRKLLPEV
 NSEAIDFLEKILTFNPMDRLEAEMGLQHPYMPSPYSCPEDEPTSQHPFRIEDEIDDIVLMAANQSQLSNWD
 TCSSRYPVLSLSSDLEWRPDRCDASEVQRDPRAGSAPLAEDVQVDPKDSHSSSERFLEQSHSSMERAFE
 ADYGRSCDYKVGSPSYLDKLLWRDNKPHHYSEPKLILDLSHWKQAAGAPPTATGLADTGAREDEPASLFL
 EIAQWVKSTQGGPEHASPPADDPERRLSASPPGRPAVDGGASPQFDLDVFI SRALKLCTKPEDLPDNKL
 GD LNGACIPEHPGDLVQTEAFSKERW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

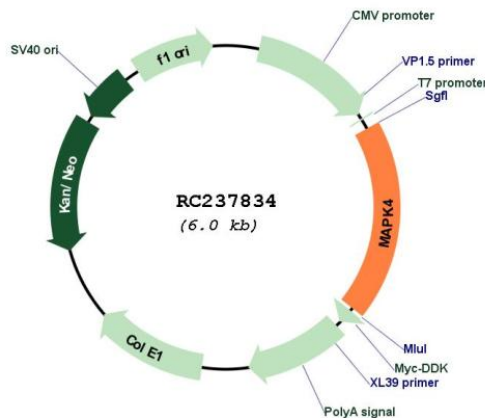
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001292039

ORF Size:	1128 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_001292039.2
RefSeq Size:	3335 bp
RefSeq ORF:	1131 bp
Locus ID:	5596
UniProt ID:	P31152
Cytogenetics:	18q21.1-q21.2
Protein Families:	Druggable Genome, Protein Kinase
MW:	42.5 kDa
Gene Summary:	Mitogen-activated protein kinase 4 is a member of the mitogen-activated protein kinase family. Tyrosine kinase growth factor receptors activate mitogen-activated protein kinases which then translocate into the nucleus and phosphorylate nuclear targets. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]