

Product datasheet for **RC236775**

MAPK4 (NM_001292040) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAPK4 (NM_001292040) 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: >RC236775 representing NM_001292040
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAGAAGGGTGACTGCATCGCCAGTGTCTATGGGTATGACCTCGGTGGGCGCTTTGTTGACTTCC
AACCCCTGGGCTTCGGTGTCAATGGTTTGGTGTGTGCGCCGTGGACAGCCGGGCTGCCGAAGGTCGC
TGTGAAGAAGATTGCCCTGAGCGATGCCCGCAGCATGAAGCACGCGCTCCGAGAGATCAAGATCATTCCG
CGCCTGGACCACGACAACATCGTCAAAGTGTACGAGGTGCTCGGTCCCAAGGGCACTGACCTGCAGGGTG
AGCTGTTCAAGTTCAGCGTGGCGTACATCGTCCAGGAGTACATGGAGACCGACCTGGCACGCTGCTGGA
GCAGGGCACGCTGGCAGAAGAGCATGCCAAGCTGTTTATGTACCAGCTGCTCCGCGGGCTCAAGTACATC
CACTCCGCCAACGTGCTGCACAGGGACCTGAAGCCCGCCAACATCTTCATCAGCACAGAGGACCTCGTGC
TCAAGATTGGGATTTCCGGTTGGCAAGGATCGTTGATCAGCATTACTCCACAAGGGTTATCTGTCAGA
AGGGTTGGTAACAAAGTGGTACCGTTCCCAAGGACTGCTCCTTTCCCAATAACTACACCAAAGCCATC
GACATGTGGGCCCGCGGCTGCATCCTGGCTGAGATGCTTACGGGGAGAATGCTCTTTGCTGGTACCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236775 representing NM_001292040
 Red=Cloning site Green=Tags(s)

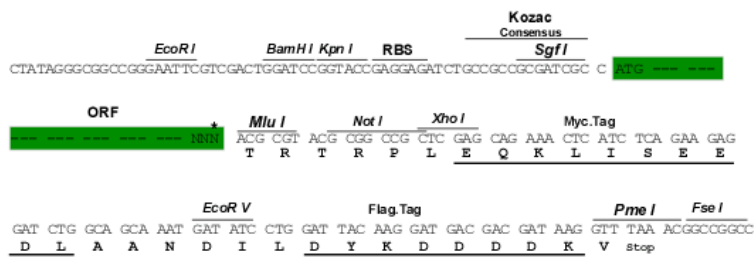
MAEKGDCIASVYGYDLGGRFVDFQPLGFGVNLVLSAVDSRACRKVAVKKIALSDARSMKHALREIKIIR
 RLDHDNIWKVYEVLPKGTDLQELFKFSVAYIVQEYMETDLARLLEQGLAEHAKLFMYQLLRGLKYI
 HSANVLRDLKPANIFISTEDLVKIGDFGLARIVDQHYSHKGYLSEGLVTKWYRSPRLLSPNNYTKAI
 DMWAAGCILAEMLTGRMLFAGTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

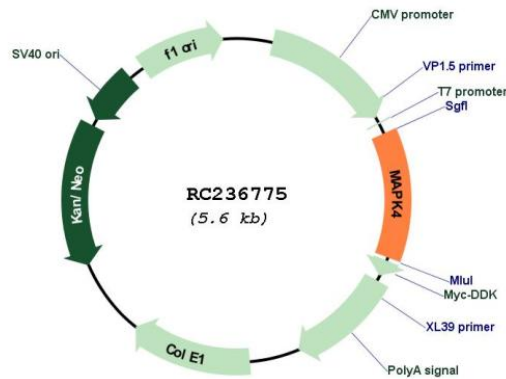
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001292040

ORF Size: 699 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_001292040.2
RefSeq Size:	4375 bp
RefSeq ORF:	702 bp
Locus ID:	5596
UniProt ID:	P31152
Cytogenetics:	18q21.1-q21.2
Protein Families:	Druggable Genome, Protein Kinase
MW:	26.6 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]