

Product datasheet for **SC318009**

MAPK4 (NM_002747) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAPK4 (NM_002747) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAPK4
Synonyms:	ERK-4; ERK4; p63-MAPK; p63MAPK; PRKM4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

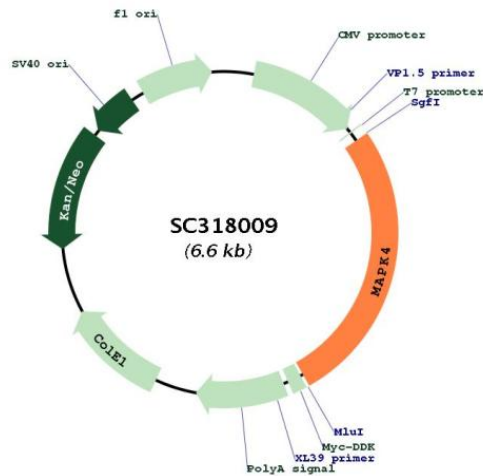


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Fully Sequenced ORF: >SC318009 representing NM_002747.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTGAGAAGGGTGAATGCATCGCCAGTGTCTATGGGTATGACCTCGGTGGGCGCTTTGTTGACTTC
CAACCCCTGGGCTTCGGTGTCAATGGTTTGGTGTGTGCGCCGTGGACAGCCGGGCTGCCGGAAGGTC
GCTGTGAAGAAGATTGCCCTGAGCGATGCCCGCAGCATGAAGCACGCGCTCCGAGAGATCAAGATCATT
CGGCGCCTGGACCACGACAACATCGTCAAAGTGTACGAGGTGCTCGGTCCCAAGGCACTGACCTGCAG
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CTCGTGCAGACCGAGGCCTTCTCAAAGAAAGGTGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_002747

Insert Size: 1764 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

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_002747.3](#)

RefSeq Size: 4736 bp

RefSeq ORF: 1764 bp

Locus ID: 5596

UniProt ID: [P31152](#)

Cytogenetics: 18q21.1-q21.2

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

MW: 65.9 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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).