

Product datasheet for **RC223988**

MEKK2 (MAP3K2) (NM_006609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEKK2 (MAP3K2) (NM_006609) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEKK2
Synonyms:	MEKK2; MEKK2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC223988 representing NM_006609
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGATCAGCAAGCTTTGAACTCAATCATGCAAGATTTGGCTGTCCTTCATAAGGCCAGTCCGACCAG
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 TGCCTAGGGCTCAGAGCTACCCAGATAATCATCAGGAATTTTCAGACTATGATAACCCTATCTTTGAGAA
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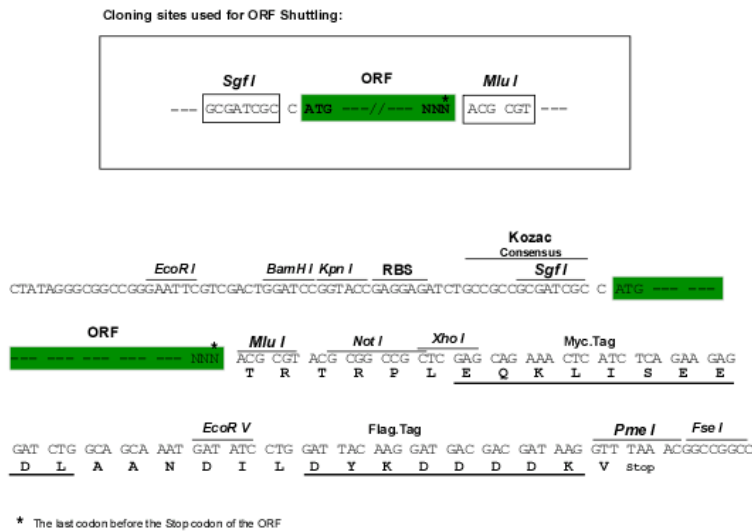
Protein Sequence:

>RC223988 representing NM_006609
 Red=Cloning site Green=Tags(s)

MDDQQALNSIMQDLAVLHKASRPALSLQETRAKAKSSSPKKQNDVRVKFEHRGEKRLQFPRPVKLEDLRS
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 NTVFGAERKKRLSIIGPISRDRSPPPGYIPDELHQVARNGSFTSINSEGEFIPESMDQMLDPLSLSSPE
 NSGSGSCPSLDSPLDGESYPKSRMPRAQSYPDNHQEFSDYDNPIFEKFGKGGTYPRRYHVSYYHQEYNDG
 RKTFPRARRTQGTSLRSPVFSPTDHSLSSTSGSSIFTPEYDDSRIRRRGSDIDNPTLTVMDISPPSRSP
 RAPTNWRLGKLLQGAFGRVYLCYDVTGRELAVKQVQFDPDSPETSKEVNALECEIQLLKNLLHERIVQ
 YYGCLRDPQEKLSIFMEYMPGGSIKDQLKAYGALTENVTRKYTRQILEGVHYLHSNMIVHRDIKGANIL
 RDSTGNVKGDFGASKRLQTIICLSGTGMKSVTGPYWMSPEVISGEGYGRKADIWSVACTVVEMLTEKPP
 WAEFEAMAAIFKIAQTNPKLPPHVSDYTRDFLKRIFVEAKLRPSADELLRHMVFVHYH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6104_d03.zip
Restriction Sites: SgfI-MluI
Cloning Scheme:



ACCN: NM_006609
ORF Size: 1857 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:**
 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.

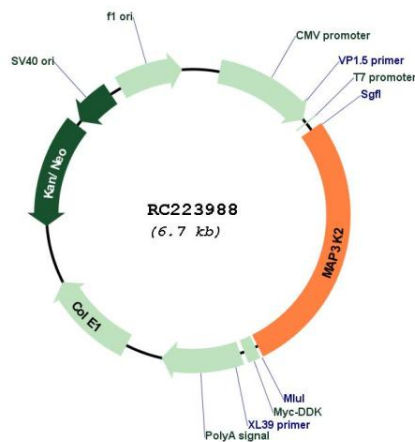
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006609.5](#)
RefSeq Size: 3336 bp

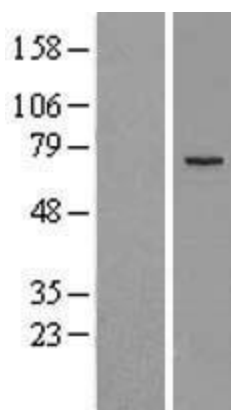
RefSeq ORF: 1860 bp
Locus ID: 10746
UniProt ID: [Q9Y2U5](#)
Cytogenetics: 2q14.3
Domains: PB1, pkinase, TyrKc, S_TKc
Protein Families: Druggable Genome, Protein Kinase
Protein Pathways: Gap junction, GnRH signaling pathway, MAPK signaling pathway
MW: 69.6 kDa

Gene Summary: The protein encoded by this gene is a member of serine/threonine protein kinase family. This kinase preferentially activates other kinases involved in the MAP kinase signaling pathway. This kinase has been shown to directly phosphorylate and activate I kappa B kinases, and thus plays a role in NF-kappa B signaling pathway. This kinase has also been found to bind and activate protein kinase C-related kinase 2, which suggests its involvement in a regulated signaling process. [provided by RefSeq, Jul 2008]

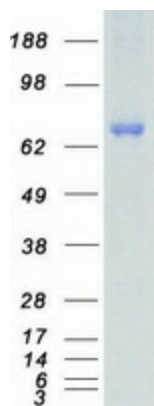
Product images:



Circular map for RC223988



Western blot validation of overexpression lysate (Cat# [LY416533]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223988 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAP3K2 protein (Cat# [TP323988]). The protein was produced from HEK293T cells transfected with MAP3K2 cDNA clone (Cat# RC223988) using MegaTran 2.0 (Cat# [TT210002]).