

Product datasheet for **RG223988**

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:	TurboGFP
Symbol:	MEKK2
Synonyms:	MEKK2; MEKK2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223988 representing NM_006609
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGATCAGCAAGCTTTGAACTCAATCATGCAAGATTTGGCTGTCCTTCATAAGGCCAGTCGACCAG
 CATTATCCTTGCAGGAAACAGAAAAGCAAATCTTCATCACAAAAAACAGAATGATGTCGAGTCAA
 ATTTGAACATAGAGGAGAAAAAGAATCCTTCAGTCCCCAGACCAGTTAACTGGAAGATCTGAGATCT
 AAAGCTAAAATTGCCTTTGGACAGTCTATGGATCTACATTATAACCAATAACGAGTTGGTAATTCATTAA
 CTAAGTCAAGATGACTTGGACAAAGCTGTGGAAGTCTGGATCGTAGTATTCATATGAAGAGCCTCAAGAT
 ATTACTTGAATAAATGGAAGTACACAGGCTACTAATTTAGAACCATTGCCATCACTAGAAGATTTGGAT
 AATACAGTATTTGGAGCAGAGAGAAAAACGGCTATCTATAATAGGTCCTACTAGTAGAGATAGAAGTT
 CTCCTCCCCAGGTTACATTCCAGATGAATTACACCAGGTTGCCCGGAATGGGTCATTCACTAGTATCAA
 CAGTGAAGGAGAGTTCAATCCAGAGAGCATGGACCAAATGCTGGATCCATTATCTTTAAGCAGCCCTGAA
 AATTCTGGCTCAGGAAGTTGTCCATCACTTGATAGTCCTTTGGATGGAGAGAGCTATCCAAAATCACGAA
 TGCCTAGGGCTCAGAGCTACCCAGATAATCATCAGGAATTTTCAGACTATGATAACCCATCTTTGAGAA
 ATTTGGAAAAGGAGGAACATATCCAAGAAGGTATCATGTTTCATATCATCAAGAGTATAATGATGGT
 CGTAAAATTTTCCAAGAGCTAGAAGGACCCAGGGGACCAGCTTACGGTCTCCTGTGAGTTTCAGTCCTA
 CTGATCATTCTTAAGCACTAGTAGTGGAAAGCAGTATCTTTACCCAGAGTATGATGATAGTCGAATAAG
 AAGAAGGGGAAGTGACATAGACAATCCTACTTTGACCGTAATGGACATCAGCCCACCCAGCCGTTACCT
 CGAGCTCCGACCAACTGGAGATTGGCAAACTGCTTGGCAAGGAGCCTTTGGAAGGGTCTACCTCTGTT
 ATGATGTTGATACAGGAAGAGAATTGGCTGTTAAGCAAGTCAATTTGACCCCGATAGCTCTGAGACCAG
 CAAGGAAGTAAATGCACCTTGAGTGTGAAATTCAGTTGCTGAAAAACTTGCTACATGAGCGAATTGTTCCAG
 TATTATGGCTGTTTGAGGGATCCCAGGAAAAACAATTTCCATATTTATGGAATATATGCCAGGGGTT
 CAATTAAGGACCAATAAAAGCATATGGCGCTCTTACTGAGAATGTGACTAGGAAATACACCCGTCAGAT
 TCTGGAGGGTGTCCATTATTTGCACAGTAATATGATTGTCCATAGAGATATCAAAGGCGCAATATCCTG
 CGAGATTAACAGGCAACGTCAAAGTAGGAGATTTTGGGGCCAGCAAACGGCTTCAGACCATCTGTCTCT
 CAGGGACAGGAATGAAGTCTGTCACGGGCACACCATACTGGATGAGCCCTGAAGTCATCAGTGGAGAAGG
 CTATGGAAGAAAAGCAGACATCTGGAGTGTGCATGTACTGTGGTAGAAATGCTAACTGAAAAGCCGCT
 TGGGCTGAATTTGAAGCAATGGCTGCCATCTTTAAAATCGCCACTCAGCCAACAAACCAAGCTGCCAC
 CTATGTCTCAGACTATACTCGAGATTTCTCAAACGGATTTTGTAGAGGCCAAACTGAGACCTCAGC
 TGATGAACTCTTAAGGCACATGTTTGTGCATTATCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223988 representing NM_006609
 Red=Cloning site Green=Tags(s)

MDDQQALNSIMQDLAVLHKASRPALSLQETRAKAKSSSPKKQNDVRVKFEHRGEKRIQLQFPRPVKLEDLRS
 KAKIAFGQSMDLHYTNNELVIPLTTQDDLDKAVELLDRIHMKSLKILLVINGSTQATNLEPLPSLEDLD
 NTVFGAERKKRLSIIGPSTRDRSPPPGYIPDELHQVARNGSFTSINSEGEFIPESMDQMLDPLSLSSPE
 NSGSGSCPLDSPLDGESYPKSRMPRAQSYDPDNHQEFSDYDNPIFEKFGKGGTYPRRYHVSYYHQEYNDG
 RKTFFRARRTQGTSLRSPVSFSPDTHSLSTSSGSIPTPEYDSDRIRRRGSDIDNPTLTVMDISPPSRSP
 RAPTNWRLGKLLGQAFGRVYLCYDVTGRELAVKQVQFDPSPETSKEVNALECEIQLLKNLLHERIVQ
 YYGCLRDPQEKTLISIFMEYMPGGSIKDQLKAYGALTENVTRKYTRQILEGVHYLHSNMIVHRDIKGANIL
 RDSTGNVKGDFGASKRLQTIICLSGTGMKSVTGPYWMSPEVISGEGYGRKADIWSVACTVVEMLTEKPP
 WAEFEAMAAIFKIATQPTNPKLPPHVSVDYTRDFLKRIFVEAKLRPSADELLRHMVFVHYH

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_006609.5](#)

RefSeq Size: 3336 bp

RefSeq ORF: 1860 bp

Locus ID: 10746

UniProt ID: [Q9Y2U5](#)

Cytogenetics: 2q14.3

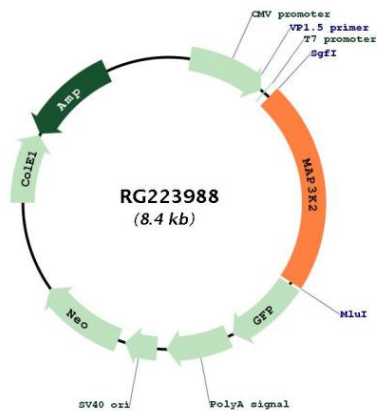
Domains: PB1, pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Gap junction, GnRH signaling pathway, MAPK signaling pathway

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 RG223988