

## Product datasheet for **RG213868**

### MEK7 (MAP2K7) (NM\_145185) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEK7 (MAP2K7) (NM_145185) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MEK7
Synonyms:	JNKK2; MAPKK7; MEK; MEK 7; MKK7; PRKMK7; SAPKK-4; SAPKK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213868 representing NM_145185 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCGCTCCTCCCTGGAACAGAAGCTGTCCCCTGGAAGCAAAGCTGAAGCAGGAGAACCGGGAGG  
CCCGCGGAGGATCGACCTCAACTGGATATCAGCCCCAGCGGCCAGGCCACCCTGCAGCTCCCCT  
GGCCAACGATGGGGCAGCCGCTCGCCATCCTCAGAGAGCTCCCCGAGCACCCACGCCCCCGCCGG  
CCCCGCCACATGCTGGGGCTCCCGTCAACCCTGTTACACCCCGCAGCATGGAGAGCATTGAGATTGACC  
AGAAGCTGCAGGAGATCATGAAGCAGACGGCTACCTGACCATCGGGGCCAGCGCTACCAGGCAGAAAT  
CAACGACCTGGAGAACTTGGGCGAGATGGGCAGCGCACCTGCGCCAGGTGTGGAAGATGCGCTTCCGG  
AAGACCGGCCACGTCAATTGCCGTTAAGCAAATGCGGCGCTCCGGGAACAAGGAGGAGAACAAGCGCATCC  
TCATGGACCTGGATGTGGTGTGAAGAGCCACGACTGCCCTACATCGTGCAAGTCTTTGGGACGTTTCAT  
CACCAACACGGACGTCTTCATCGCCATGGAGCTCATGGGCACCTGCGCTGAGAAGCTCAAGAAGCGGATG  
CAGGGCCCCATCCCCGAGCGCATTCTGGCAAGATGACAGTGGCGATTGTGAAGGCGCTGTACTACCTGA  
AGGAGAAGCACGGTGTATCCACCGCGACGTCAAGCCCTCAAACATCCTGCTGGACGAGCGGGGCCAGAT  
CAAGCTCTGCGACTTCGGCATCAGCGGCCGCTGGTGGACTCAAAGCCAAGACGCGGAGCGCCGGCTGT  
GCCGCTACATGGCACCCGAGCGCATTGACCCCGAGACCCCAAGCCGGACTATGACATCCGGGCGG  
ACGTATGGAGCCTGGGCATCTCGTTGGTGGAGCTGGCAACAGGACAGTTTCCCTACAAGAAGCTGCAAGAC  
GGACTTTGAGGTCTCACCAAAGTCTACAGGAAGAGCCCGCTTCTGCCCGACACATGGGCTTCTCG  
GGGACTTCCAGTCTTCGTTCAAAGACTGCCTTACTAAAGATCACAGGAAGAGACCAAAGTATAATAAGC  
TACTTGAACACAGCTTCATCAAGCGCTACGAGACGCTGGAGGTGGACGTGGCGTCTGGTTCAAGGATGT  
CATGGCGAAGACTGAGTACCAGCGGACTAGCGGCTCCTGAGCCAGCCCCACCTGCCCTTCTTCAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**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\\_145185.4](#)

**RefSeq Size:** 3386 bp

**RefSeq ORF:** 1260 bp

**Locus ID:** 5609

**UniProt ID:** [O14733](#)

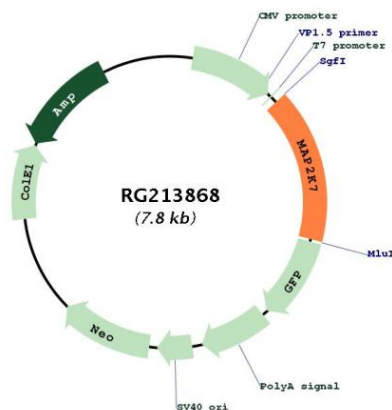
**Cytogenetics:** 19p13.2

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** ErbB signaling pathway, Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway

**Gene Summary:** The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kinase itself is phosphorylated and activated by MAP kinase kinase kinases including MAP3K1/MEKK1, MAP3K2/MEKK2, MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the signal transduction mediating the cell responses to proinflammatory cytokines, and environmental stresses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

## Product images:



Circular map for RG213868