

## Product datasheet for SC335938

### MEK4 (MAP2K4) (NM\_001281435) Human Untagged Clone

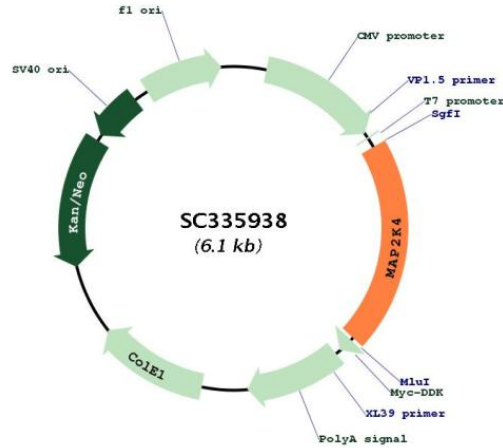
#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | MEK4 (MAP2K4) (NM_001281435) Human Untagged Clone  |
| Tag:                      | Tag Free   |
| Symbol:                   | MAP2K4   |
| Synonyms:                 | JNKK; JNKK1; MAPKK4; MEK4; MKK4; PRKMK4; SAPKK-1; SAPKK1; SEK1; SERK1; SKK1                |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >SC335938 representing NM_001281435.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCGGCTCCGAGCCGAGCGGCGGGCGGCTCCGGGGCGGCAGCGGCAGCGGCACCCCGGCC
GTAGGGTCCCGGCCAGGCCACCCGGCGCTCAGCAGCATGCAGGGCTTTCAGATAAACTTCTGTGAA
AAGGCACAAAGTAAACGCAAAGCACTGAAGTTGAATTTGCAAATCCACCTTCAAATCTACAGCAAGG
TTTACTCTGAATCCCAATCCTACAGGAGTTCAAAACCCACACATAGAGAGACTGAGAACACACAGCATT
GAGTCATCAGGAAAAGTGAAGATCTCCCCTGAACAACACTGGGATTTCACTGCAGAGGACTTGAAGAC
CTTGAGAAAATTGGACGAGGAGCTTATGGTTCTGTCAACAAAATGGTCCACAAACCAAGTGGCAAATA
ATGGCAGTAAAAGAATTCGGTCAACAGTGGATGAAAAGAACAACAACTTCTTATGGATTTGGAT
GTAGTAATGCGGAGTAGTGATTGCCATACATTGTTTCAGTTTTATGGTGCCTTTCAGAGAGGGTGAC
TGTTGGATCTGTATGAACTCATGTCTACCTCGTTTGATAAGTTTTACAAATATGTATATAGTGATTA
GATGATGTTATCCAGAAGAAAATTTAGGCAAAATCACTTTAGCAACTGTGAAAGCACTAAACCACTTA
AAAGAAAATGAAAATTTACAGAGATATCAACCTTCCAATATTCTTCTGGACAGAAGTGGAAAT
ATTAAGCTCTGTGACTTCGGCATCAGTGGACAGCTTGTGGACTCTATTGCCAAGACAAGAGATGCTGGC
TGTAGGCCATACATGGCACCTGAAAGAATAGACCAAGCGCATCACGACAAGGATATGATGTCGCTCT
GATGCTGGAGTTTGGGATCACATTGTATGAGTTGGCCAGGCCGATTTCCCTTATCCAAGTGGAAAT
AGTGTATTTGATCAACTAACACAAGTCGTGAAAGGAGATCCTCCGAGCTGAGTAATTCAGGAAAGG
GAATTCCTCCCGAGTTTCATCAACTTTGTCAACTTGTGCCTTACGAAGGATGAATCCAAAAGGCCAAAG
TATAAAGAGCTTCTGAAACATCCCTTTATTTGATGTATGAAGAAGTGCCTTGGAGTGCATGCTAT
GTTTGTAAAATCCTGGATCAAAATGCCAGCTACTCCAGCTCTCCCATGTATGTCGATTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



**Plasmid Map:**


**ACCN:** NM\_001281435

**Insert Size:** 1233 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).

**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\\_001281435.1](#)

**RefSeq Size:** 3873 bp

**RefSeq ORF:** 1233 bp

**Locus ID:** 6416

**UniProt ID:** [P45985](#)

**Cytogenetics:** 17p12

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

|                          |   |
|--------------------------|---|
| <b>Protein Pathways:</b> | Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Toll-like receptor signaling pathway   |
| <b>MW:</b>               | 45.6 kDa  |
| <b>Gene Summary:</b>     | <p>This gene encodes a member of the mitogen-activated protein kinase (MAPK) family. Members of this family act as an integration point for multiple biochemical signals and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation, and development. They form a three-tiered signaling module composed of MAPKKKs, MAPKKs, and MAPKs. This protein is phosphorylated at serine and threonine residues by MAPKKKs and subsequently phosphorylates downstream MAPK targets at threonine and tyrosine residues. A similar protein in mouse has been reported to play a role in liver organogenesis. A pseudogene of this gene is located on the long arm of chromosome X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (2) contains an alternate in-frame exon in the 5' coding region compared to variant 1. It encodes isoform 2 which is longer compared to isoform 1.</p> |