

## Product datasheet for **RC206051L1V**

### MEK4 (MAP2K4) (NM\_003010) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | MEK4 (MAP2K4) (NM_003010) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | MEK4   |
| Synonyms:                 | JNKK; JNKK1; MAPKK4; MEK4; MKK4; PRKMK4; SAPKK-1; SAPKK1; SEK1; SERK1; SKK1  |
| Mammalian Cell Selection: | None   |
| Vector:                   | pLenti-C-Myc-DDK (PS100064)  |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_003010  |
| ORF Size:                 | 1197 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC206051).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_003010.2</a>  |
| RefSeq Size:              | 3752 bp  |
| RefSeq ORF:               | 1200 bp  |
| Locus ID:                 | 6416   |
| UniProt ID:               | <a href="#">P45985</a>   |
| Cytogenetics:             | 17p12  |
| Domains:                  | pkinese, TyrKc, S_TKc  |
| Protein Families:         | Druggable Genome, Protein Kinase   |



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**Protein Pathways:** 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

**MW:** 44.1 kDa

**Gene Summary:** 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]