

## Product datasheet for SC203958

### MEK2 (MAP2K2) (NM\_030662) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	MEK2 (MAP2K2) (NM_030662) Human 3' UTR Clone
Symbol:	MEK2
Synonyms:	CFC4; MAPKK2; MEK2; MKK2; PRKMK2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_030662
Insert Size:	307 bp
Insert Sequence:	<p>&gt;SC203958 3'UTR clone of NM_030662</p> <p>The sequence shown below is from the reference sequence of NM_030662. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

```

GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
CCCGGCACACCCACGCGCACCGCCGTGTAGCAGTGGCCGGGCTCCCTGCGTCCCGCTGGTGACCTGCCC
ACCGTCCCTGTCCATGCCCCGCCCTTCCAGCTGAGGACAGGCTGGCGCCTCCACCCACCCTCCTGCCTC
ACCCCTGCGGAGAGCACCGTGGCGGGGCGACAGCGCATGCAGGAACGGGGGTCTCCTCTCCTGCCCGTC
CTGGCCGGGGTGCCTCTGGGGACGGGCGACGCTGCTGTGTGGTCTCAGAGGCTCTGCTTCCTTAGGT
TACAAAACAAAACAGGGAGAGAAAAAGCAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_030662.4</u>


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**Summary:**

The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, cognitive disability, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene. [provided by RefSeq, Jul 2008]

**Locus ID:**

5605

**MW:**

10.7