

## Product datasheet for **RC402653**

### MEK1 (MAP2K1) (NM\_002755) Human Mutant ORF Clone

#### Product data:

Product Type:	Mutant ORF Clones
Product Name:	MEK1 (MAP2K1) (NM_002755) Human Mutant ORF Clone
Mutation Description:	P124L
Affected Codon#:	124
Affected NT#:	371
Nucleotide Mutation:	MAP2K1 Mutant (P124L), Myc-DDK-tagged ORF clone of Homo sapiens mitogen-activated protein kinase kinase 1 (MAP2K1) as transfection-ready DNA
Effect:	Cardio-facio-cutaneous syndrome
Symbol:	MEK1
Synonyms:	CFC3; MAPKK1; MEK1; MEL; MKK1; PRKMK1
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_002755
ORF Size:	1179 bp
Restriction Sites:	Sgfl-Mlul
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RefSeq Size:	1179 bp
RefSeq ORF:	1182 bp
Locus ID:	5604
Cytogenetics:	15q22.31
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Acute myeloid leukemia, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Oocyte meiosis, Pancreatic cancer, Pathways in cancer, Prion diseases, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, Thyroid cancer, Toll-like receptor signaling pathway, Vascular smooth muscle contraction, VEGF signaling pathway
MW:	43.2 kDa
Gene Summary:	<p>The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. [provided by RefSeq, Jul 2008]</p>