

Product datasheet for **RC400331**

MET (NM_000245) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	MET (NM_000245) Human Mutant ORF Clone
Mutation Description:	T1173I
Affected Codon#:	1173
Affected NT#:	c.3518
Nucleotide Mutation:	MET Mutant (T1173I), Myc-DDK-tagged ORF clone of Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), transcript variant 2 as transfection-ready DNA
Effect:	Missense
Symbol:	MET
Synonyms:	AUTS9; c-Met; DFNB97; HGFR; RCCP2
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_000245
ORF Size:	4170 bp
Restriction Sites:	Sgfl-Mlul
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RefSeq Size:	6641 bp
RefSeq ORF:	4173 bp
Locus ID:	4233
Cytogenetics:	7q31.2
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Adherens junction, Axon guidance, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, Epithelial cell signaling in Helicobacter pylori infection, Focal adhesion, Melanoma, Pathways in cancer, Renal cell carcinoma
MW:	155 kDa
Gene Summary:	<p>This gene encodes a member of the receptor tyrosine kinase family of proteins and the product of the proto-oncogene MET. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that are linked via disulfide bonds to form the mature receptor. Further processing of the beta subunit results in the formation of the M10 peptide, which has been shown to reduce lung fibrosis. Binding of its ligand, hepatocyte growth factor, induces dimerization and activation of the receptor, which plays a role in cellular survival, embryogenesis, and cellular migration and invasion. Mutations in this gene are associated with papillary renal cell carcinoma, hepatocellular carcinoma, and various head and neck cancers. Amplification and overexpression of this gene are also associated with multiple human cancers. [provided by RefSeq, May 2016]</p>