

## Product datasheet for **RC400334**

### **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:     | Y1230H   |
| Affected Codon#:          | 1230   |
| Affected NT#:             | c.3688   |
| Nucleotide Mutation:      | MET Mutant (Y1230H), 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:        | SgfI-MluI  |
| ORF Nucleotide Sequence:  | >RC400334 representing NM_000245<br>Red=Cloning site Blue=ORF Green=Tags(s)  |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCCCCCGCTGTGCTTGACCTGGCATCCTCGTCTCTGTTTACCTTGGTGAGAGGAGCAATG  
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CACAGATAGAAGAGCCCAGCCAGTGTCCCTGACTGTGTGGTGAGCGCCCTGGGAGCCAAAGTCTTTCATC  
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TGAGGTGGACACACGACCAGCCTCTTCTGGGAGACATCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC400334 representing NM\_000245  
Red=Cloning site Green=Tags(s)

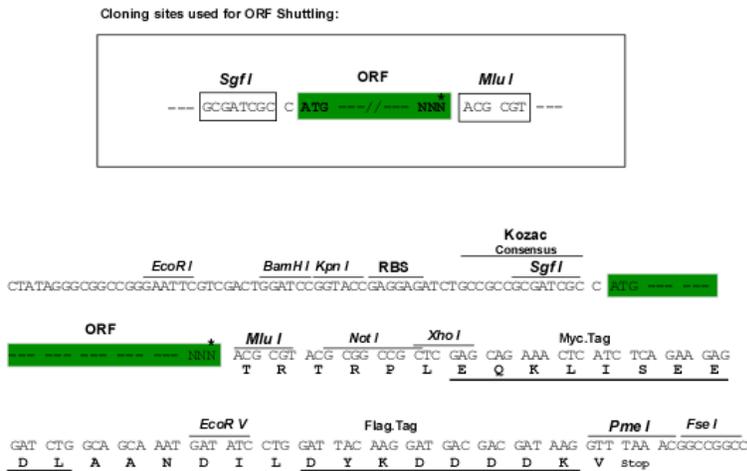
MKAPAVLAPGILVLLFTLVQRSNGECKEALAKSEMNVNMKYQLPNFTAETPIQNVILHEHHIFLGATNYI  
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CQRHVFPNHHTADIQSEVHCIFSPQIEEPSQPCDCVVSALGAKVLSVKDRFINFFVGNITNSSYFPDHP  
LHSISVRRLETKDGMFLTDQSYIDVLEFRDYSPIKYVHAFESNNFIYFLTVQRETLDAQTFHTRIIR  
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IVEHTLNQNGYTLVITGKKITKIPLNGLGCRHFQSCSQCLSAPPFVQCGWCHDKCVRSEECLSGTWTQOI  
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NKHFNMSIIISNGHGTQYSTFSYVDPVITSISPKYGPMAAGTLLTLGNYLNSGNSRHISIGGKCTLK  
SVSNSILECYTPAQTI STEFAVKLKIDLANRETSIFS YREDPIVYEIHPKSFISGGSTITGVGNLNSV  
SVPRMIVNHEAGRNFTVACQHRNSEIICCTTPSLQQLNLQLPLKTKAFFMLDGILSKYFDLIYVHNVP  
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WKQAISSTVLGKVIQPDQNFGLIAGVVSISTALLLLGFFLWLKRRKQIKDLGSELVRYDARVHTPHL  
DRLVARSVSPTEMVSNESVDYRATFPEDQFPNSSQNGSCRQVQYPLTDMSPILTSGSDISSPLLQNT  
VHIDL SALNPELVQAVQHVVIGPSSLIVHFNEVIGRGHFGCVYHGTL DNDGKKIHC AVKSLNRI TDIGE  
VSQFLTEGIIMKDFSHPNVLSLLGICLRSEGSPLVVL P YMKHGD L RNFIRNETHNPTVKDLIGFLQVAK  
GMKYLASKKFVHRDLAARNCMLDEKFTVKVADFLARDMHDKEYYSVHNKTGAKLPVKWMALES LQTQKF  
TTKSDVWSFGVLLWELMTRGAPPYPDVNTFDITVYLLQGRLLQPEYCPDPLYEVMLKCWHPKAEMRPSF  
SELVSRISAIFSTFIGEHYVHVNATYVNVKCVAPYPSLLSSEDNADDEVDRPASFWETS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfi-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

|                          |   |
|--------------------------|---|
| <b>OTI Disclaimer:</b>   | Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.   |
|                          | 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>  |
| <b>OTI Annotation:</b>   | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>       | 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).  |
| <b>Note:</b>             | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.  |
| <b>RefSeq:</b>           | <a href="#">NP_000236</a>   |
| <b>RefSeq Size:</b>      | 6641 bp   |
| <b>RefSeq ORF:</b>       | 4173 bp   |
| <b>Locus ID:</b>         | 4233  |
| <b>Cytogenetics:</b>     | 7q31.2  |
| <b>Protein Families:</b> | Druggable Genome, Protein Kinase, Transmembrane   |
| <b>Protein Pathways:</b> | 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  |
| <b>MW:</b>               | 155 kDa   |
| <b>Gene Summary:</b>     | 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] |