

Product datasheet for **RG217003**

MET (NM_000245) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MET (NM_000245) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MET
Synonyms:	AUTS9; c-Met; DFNB97; HGFR; RCCP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217003 representing NM_000245 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCCCCGCTGTGCTTGCACCTGGCATCCTCGTGCTCCTGTTTACCTTGGTGCAGAGGAGCAATG
GGGAGTGTAAAGAGGCACTAGCAAAGTCCGAGATGAATGTGAATATGAAGTATCAGCTTCCCACTTCCAC
CGCGGAAACACCCATCCAGAATGTCATTCTACATGAGCATCACATTTTCCCTTGGTCCACTAACTACATT
TATGTTTTAAATGAGGAAGACCTCAGAAGTTGCTGAGTACAAGACTGGCCTGTGCTGGAACACCCAG
ATTGTTTCCCATGTCAGGACTGCAGCAGCAAAGCCAATTTATCAGGAGGTGTTTGGAAAGATAACATCAA
CATGGCTCTAGTTGTCGACACCTACTATGATGATCAACTATTAGCTGTGGCAGCGTCAACAGAGGGACC
TGCCAGCGACATGCTTTCCCAACAATCATACTGCTGACATACAGTCGGAGGTTCACTGCATATTCTCCC
CACAGATAGAAGAGCCCAGCCAGTGTCTGACTGTGTGGTGAAGCCCTGGGAGCCAAAGTCTTTTCATC
TGTAAGGACCGGTTCACTCAACTTCTTTGTAGGCAATACCATAAATCTTCTTATTTCCAGATCATCCA
TTGCATTTCGATATCAGTGAGAAGGCTAAAGGAAACGAAAGATGGTTTTATGTTTTGACGGACAGTCTCT
ACATTGATGTTTTACCTGAGTTCAGAGATTCTTACCCATTAAGTATGTCATGCCTTTGAAAGCAACAA
TTTTATTTACTTCTTGACGGTCCAAAGGAAACTCTAGATGCTCAGACTTTTACACAAGAATAATCAGG
TTCTGTTCCATAAACTCTGGATTGCATTCCTACATGGAATGCCTCTGGAGTGTATTCTCACAGAAAAGA
GAAAAAGAGATCCACAAGAAGGAAAGTGTAAATATACTTACAGGCTGCGTATGTCAGCAAGCCTGGGGC
CCAGCTTGCTAGACAAATAGGAGCCAGCCTGAATGATGACATTCTTTTCGGGGTGTTCGCACAAAGCAAG
CCAGATTCTGCCGAACCAATGGATCGATCTGCCATGTGTGCATTCCCTATCAAATATGTCAACGACTTCT
TCAACAAGATCGTCAACAAAAACAATGTGAGATGTCTCCAGATTTTTACGGACCAATCATGAGCACTG
CTTTAATAGGACACTTCTGAGAAATTCATCAGGCTGTGAAGCGCGCCGTGATGAATATCGAACAGAGTTT
ACCACAGCTTTGCAGCGGTTGACTTATTCATGGGTCAATTCAGCGAAGTCTCTTAACATCTATATCCA
CCTTCATTAAGGAGACCTCACCATAGCTAATCTTGGGACATCAGAGGGTCGCTTCATGCAGGTTGTGGT
TTCTCGATCAGGACCATCAACCCTCATGTGAATTTCTCTGGACTCCCATCCAGTGTCTCCAGAAGT



[View online >](#)

ATTGTGGAGCATACATTAACCAAAATGGCTACACACTGGTTATCACTGGGAAGAAGATCACGAAGATCC
CATTGAATGGCTTGGGCTGCAGACATTTCCAGTCTGCAGTCAATGCCTCTCTGCCCCACCTTTGTTCA
GTGTGGCTGGTGGCCACGACAAATGTGTGCGATCGGAGGAATGCCTGAGCGGGACATGGACTCAACAGATC
TGTCTGCCTGCAATCTACAAGTTTTCCAAATAGTGCACCCCTGAAGGAGGGACAAGGCTGACCATAT
GTGGCTGGGACTTTGGATTTCCGAGGAATAATAAATTTGATTTAAAGAAAAGTACAGTTCCTTGGAAA
TGAGAGCTGCACCTTGACTTTAAGTGAGAGCACGATGAATACATTGAAATGCACAGTTGGTCTGCCATG
AATAAGCATTCAATATGTCCATAATTAATTTCAAATGGCCACGGGACAACAACAATACAGTACATCTCCT
ATGTGGATCCTGTAATAACAAGTATTTCCCGAAATACGGTCTATGGCTGGTGGCACTTTACTTACTTT
AACTGGAAATTACCTAAACAGTGGGAATCTAGACACATTTCAATTGGTGGAAAAACATGACTTTAAAA
AGTGTGTCAAACAGTATTCTTGAATGTTATACCCAGCCCAAACCATTTCAACTGAGTTTGTGTTAAAT
TGAAAATTGACTTAGCCAACCGAGAGACAAGCATCTTCAGTTACCGTGAAGATCCCATTGTCTATGAAAT
TCATCCAACCAATCTTTTATTAGTGGTGGGAGCACAATAACAGGTGTTGGGAAAAACCTGAATTCAGT
AGTGTCCCAGAAATGGTCATAAATGTGCATGAAGCAGGAAGAACTTTACAGTGGCATGTCAACATCGCT
CTAATTCAGAGATAATCTGTTGTACCCTCCTTCCCTGCAACAGCTGAATCTGCAACTCCCCTGAAAAC
CAAAGCCTTTTTCATGTTAGATGGGATCCTTTCCAAACTTTTGATCTCATTATGTACATAATCCTGTG
TTTAAGCCTTTTAAAAGCCAGTGATGATCTCAATGGGCAATGAAAATGACTGGAAATTAAGGGAAATG
ATATTGACCTGAAGCAGTTAAAGGTGAAGTGTAAAAAGTTGGAAATAAGAGCTGTGAGAATATACACT
ACATTCTGAAGCCGTTTTATGCACGGTCCCAATGACCTGCTGAAATTGAACAGCGAGCTAAATATAGAG
TGGAAGCAAGCAATTTCTTCAACCGTCTTGGAAAAGTAATAGTTCAACCAGATCAGAATTTACAGGAT
TGATTGCTGGTGTGTCTCAATATCAACAGCACTGTTATTACTACTTGGGTTTTCTGTGGCTGAAAA
GAGAAAGCAAATTAAGATCTGGGCAGTGAATTAGTTCGCTACGATGCAAGAGTACACACTCCTCATTG
GATAGGCTTGAAGTGCCCGAAGTGAAGCCAACTACAGAAATGGTTTCAAATGAATCTGTAGACTACC
GAGTACTTTTTCCAGAAGATCAGTTTCCATAATTCATCTCAGAACGGTTCATGCCGACAAGTGCAGTACC
TCTGACAGACATGCCCCATCCTAACTAGTGGGACTCTGATATATCCAGTCCATTACTGCAAAATACT
GTCCACATTGACCTCAGTGTCTAAATCCAGAGCTGGTCCAGGCAGTGCAGCATGTAGTATTGGGCCCA
GTAGCCTGATTGTGCAATTTCAATGAAGTCATAGGAAGAGGGCATTTTGGTGTGTATATCATGGGACTTT
GTTGGACAATGATGGCAAGAAAATTCACTGTGCTGTGAAATCCTTGAACAGAATCACTGACATAGGAGAA
GTTTCCCAATTTCTGACCGAGGGAAATCATCATGAAAGATTTTAGTCATCCCAATGTCTCTCGCTCCTGG
GAATCTGCCTGCGAAGTGAAGGGTCTCCGCTGGTGGTCTACCATACATGAAACATGGAGATCTTCGAAA
TTTCATTGCAAAATGAGACTCATAATCCAAGTAAAAGATCTTATTGGCTTTGGTCTTCAAGTAGCCAAA
GGCATGAAATATCTTGAAGCAAAAAGTTGTCCACAGAGACTTGGCTGCAAGAACTGTATGCTGGATG
AAAAATTCACAGTCAAGTTGCTGATTTTGGTCTTGCCAGAGACATGTATGATAAAGAATACTATAGTGT
ACACAACAAAACAGGTGCAAAGCTGCCAGTGAAGTGGATGGCTTTGGAAAAGTCTGCAAACTCAAAAAGTT
ACCACCAAGTCAGATGTGTGGTCTTTGGCGTGTCTCTGGGAGCTGATGACAAGAGGAGCCCCACCTT
ATCCTGATGTAACACCTTTGATATAACTGTTTACTTGTGCAAGGGAGAAGACTCCTACAACCCGAATA
CTGCCAGACCCCTTATATGAAGTAATGCTAAAATGCTGGCACCCTAAGCCGAAATGCGCCCATCCTTT
TCTGAAGTGGTGTCCCGGATATCAGCAATCTTCTACTTTTATTGGGGAGCACTATGTCCATGTGAACG
CTACTTATGTGAACGTAATGTGTGCTCCATATCCTTCTCTGTTGTATCAGAAGATAACGCTGATGA
TGAGGTGGACACACGACCAGCCTCCTTCTGGGAGACATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

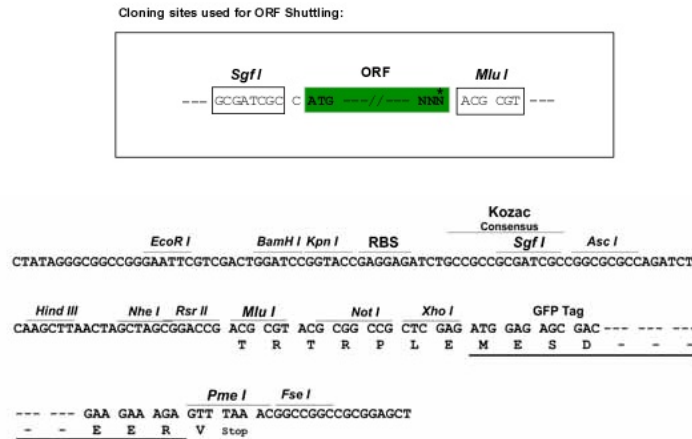
Protein Sequence: >RG217003 representing NM_000245
 Red=Cloning site Green=Tags(s)

MKAPAVLAPGILVLLFTLVQRSNGECKEALAKSEMNVNMKYQLPNFTAETPIQNVILHEHHIFLGATNYI
 YVLNEEDLQKVAEYKTPVLEHPDCFCQDCSSKANLSGGVWKNINMALVVDYDDQLISCGSVNRGT
 CQRHVFPNHHTADIQSEVHCIFSPQIEEPSQCPDCVVSALGAKVLSVVKDRFINFFVGNINSSYFPDHP
 LHSISVRRLKETKDGFMFLTDQSYIDVLEPFKRVSYPIKYVHAFESNNFIYFLTVQRETLDAQTFHTRIIIR
 FCSINSLHSYEMPLECILTEKRKRSTKKEVFNIIQAAYVSKPGAQLARQIGASLNDLILFGVFAQSK
 PDAEPMDRSAMCAFPKIYVNDFFNKIVNKNVNRCLQHFYGNHEHCFNRTLNRSSGCEARRDEYRTEF
 TTALQRVDLFGQFSEVLLTSISTFIKGLDITIANLGTSEGRFMQVVVSRSGPSTPHVNFLLDHPVSPEV
 IVEHTLNQNGYTLVITGKKITKIPLNGLGCRHFQSCSQCLSAPPFVQCGWCHDKCVRSEECLSGTWTQOI
 CLPAIYKVFNPNSAPLEGGTRLICGWDFGFRNNKFDLKKTRVLLGNESCTLTLSESTMNTLKCTVGPAM
 NKHFNMSSIIISNGHGTQYSTFSYVDPVITISIPKYGPMAGGTLTLTGNYLNSGNSRHISIGGKCTLK
 SVSNSILECYTPAQTIISTEFAVKLKIDLANRETSIFSYPREDPIVVEIHPKTSFISGGSTITGVGNLNSV
 SVPRMVINVHEAGRNFTVACQHRNSEIICCTTPSLQQLNLQLPLKTKAFFMLDGILSKYFDLIYVHNPV
 FKPFKPYMISMGNENVLEIKGNDIDPEAVKGEVLKVGKNSCENIHLHSEAVLCTVPNDLKLNSLNLNIE
 WKQAISSTVLGKVIYQPDQNFGLIAGVVISIALLLLLGFFLWLKRRKQIKDLGSELVRYDARVHTPHL
 DRLVSARSVSPPTTEMVSNESVDYRATFPEDQFPNSSQNGSCRQVQYPLTDMSPILTSGSDISSPLLQNT
 VHIDLALNPQLVQAVQHVIVGSSLIIVHFNEVIGRGHFCVYHGTLLDNDGKKIHCVAKSLNRITDIGE
 VSQFLTEGIIMKDFSHPNVLSLLGICLRSEGSPLVVLVPMKHGDLRNFIRNETHNPTVKDLIGFGLQVAK
 GMKYLASKKFVHRDLAARNCMLDEKFTVKVADFLARDMYDKEYYSVHNKTKAKLPVKWMALESQTQKF
 TTKSDVWSFGVLLWELMTRGAPPYDPVNTFDITVYLLQGRRLQPEYCPDPLYEVMKCKWHPKAEMRPSF
 SELVSRISAIFSTFIGEHYVHVNATYVNVKCVAPYPSLLSSEDNADDEVDRPASFWETS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

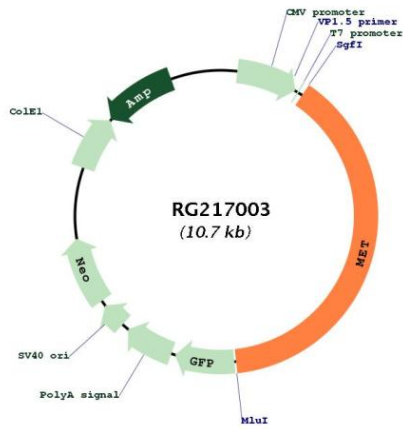


ACCN: NM_000245

ORF Size: 4170 bp

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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_000245.2 , NP_000236.2
RefSeq Size:	6641 bp
RefSeq ORF:	4173 bp
Locus ID:	4233
UniProt ID:	P08581
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
Gene Summary:	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]

Product images:



Circular map for RG217003