

Product datasheet for **SC323278**

MET (NM_001127500) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MET (NM_001127500) Human Untagged Clone
Tag:	Tag Free
Symbol:	MET
Synonyms:	AUTS9; c-Met; DFNB97; HGFR; RCCP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001127500 edited
GCCACCATGAAGCCCCCGCTGTGCTTGCACCTGGCATCCTCGTGCTCCTGTTTACCTTG
GTGCAGAGGAGCAATGGGGAGTGTAAAGAGGCACTAGCAAAGTCCGAGATGAATGTGAAT
ATGAAGTATCAGCTTCCCAACTTCACCGGAAACACCCATCCAGAATGTCATTCTACAT
GAGCATCACATTTTCTTGGTGCCACTAACTACATTTATGTTTTAAATGAGGAAGACCTT
CAGAAGGTTGCTGAGTACAAGACTGGGCCTGTGCTGGAACACCCAGATTGTTTCCCATGT
CAGGACTGCAGCAGCAAAGCCAATTTATCAGGAGGTGTTTGAAAAGATAACATCAACATG
GCTCTAGTTGTCGACACCTACTATGATGATCAACTCATTAGCTGTGGCAGCGTCAACAGA
GGGACCTGCCAGCGACATGTCTTCCCCACAATCATACTGCTGACATACAGTCGGAGGTT
CACTGCATATTCTCCCCACAGATAGAAGAGCCAGCCAGTGTCTGACTGTGTGGTGAGC
GCCCTGGGAGCCAAAGTCTTTTCTGTAAAGGACCGGTTTCATCAACTCTTTGTAGGC
AATACCATAAATTCTTTATTTCCAGATCATCCATTGCATTGATATCAGTGAGAAGG
CTAAAGGAAACGAAAGATGGTTTTATGTTTTTGACGGACCACTTACATTGATGTTTTA
CCTGAGTTCAGAGATTCTTACCCATTAAGTATGTCCATGCCCTTGAAAGCAACAATTTT
ATTTACTTCTTGACGGTCCAAAGGGAACTCTAGATGCTCAGACTTTTTCACACAAGAATA
ATCAGGTTCTGTTCCATAAACTCTGGATTGCATTCCTACATGAAATGCCTCTGGAGTGT
ATTCTCACAGAAAAGAGAAAAAGAGATCCACAAAAGGAAGTGTAAATATACTTCAG
GCTGCGTATGTCAGCAAGCCTGGGGCCAGCTTGTAGACAAATAGGAGCCAGCCTGAAT
GATGACATTCCTTTTGGGGTGTTCGCACAAAGCAAGCCAGATTCTGCCGAACCAATGGAT
CGATCTGCCATGTGTGCATTCCCTATCAAATATGTCAACGACTTCTTCAACAAGATCGTC
AACAAAAACAATGTGAGATGTCTCCAGCATTTTTACGGACCCAATCATGAGCACTGCTTT
AATAGGACACTTCTGAGAAATTCATCAGGCTGTGAAGCGCGCCGTGATGAATATCGAACA
GAGTTTACCACAGCTTTCAGCGCGTTGACTTATTCATGGGTCAATTCAGCGAAGTCCTC
TTAACATCTATATCCACCTTCATTAAGGAGACCTCACCATAGCTAATCTTGGGACATCA
GAGGGTCGCTTCATGCAGGTTGTGGTTTCTCGATCAGGACCATCAACCCCTCATGTGAAT
TTTCTCCTGGACTCCCATCCAGTGTCTCCAGAAGTGATTGTGGAGCATACATTAACCAA
AATGGCTACACACTGTTATCACTGGGAAGAAGATCACGAAGATCCCATTGAATGGCTTG



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GGCTGCAGACATTTCCAGTCTGCAGTCAATGCCTCTCTGCCCCACCCCTTTGTTCAAGTGT
 GGCTGGTCCACGACAAAATGTGTGCGATCGGAGGAATGCCTGAGCGGGACATGGACTCAA
 CAGATCTGTCTGCCTGCAATCTACAAGGTTTTCCCAAATAGTGCACCCCTTGAAGGAGGG
 ACAAGGCTGACCATATGTGGCTGGGACTTTGGATTTCCGGAGGAATAATAAATTTGATTTA
 AAGAAAAC TAGAGTTCTCCTTGGAAATGAGAGCTGCACCTTGACTTTAAGTGAGAGCAGC
 ATGAATACATTGAAATGCACAGTTGGTCCTGCCATGAATAAGCATTTCATATGTCCATA
 ATTATTTCAAATGGCCACGGGACAACAATACAGTACATTCTCCTATGTGGATCCTGTA
 ATAACAAGTATTTGCGCCGAAATACGGTCTATGGCTGGTGGCACTTTACTTACTTTAACT
 GGAAATACCTAAACAGTGGAATTCTAGACACATTTCAATTGGTGAAAAACATGTACT
 TTA AAAAGTGTGCAAACAGTATTCTTGAATGTTATACCCAGCCCAAACCATTTCAACT
 GAGTTTGTGTTAAATTGAAAATTGACTTAGCCAACCGAGAGACAAGCATCTTCAGTTAC
 CGTGAAGATCCCATTGTCTATGAAATTCATCCAACCAAATCTTTTATTAGTACTTGGTGG
 AAAGAACCTCTCAACATTGTCAGTTTTCTATTTTGCTTTGCCAGTGGTGGGAGCACAATA
 ACAGGTGTTGGGAAAACTGAATTCAGTTAGTGTCCCGAGAATGGTCATAAATGTGCAT
 GAAGCAGGAAGGAACTTTACAGTGGCATGTCAACATCGCTCTAATTCAGAGATAATCTGT
 TGTACCCTCCTCCCTGCAACAGCTGAATCTGCAACTCCCCCTGAAAACCAAAGCCTTT
 TTCATGTTAGATGGGATCCTTTCCAAATACTTTGATCTCATTTATGTACATAATCCTGTG
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 AAGGGAATGATATTGACCCTGAAGCAGTTAAAGTGAAAGTGTAAAAAGTTGGAAATAAG
 AGCTGTGAGAATACACTTACATTCTGAAGCCGTTTTATGCACGGTCCCAATGACCTG
 CTGAAATTGAACAGCGAGCTAAATATAGAGTGAAGCAAGCAATTTCTTCAACCGTCTT
 GAAAAAGTAATAGTTCAACCAGATCAGAATTTACAGGATTGATTGCTGGTGTGTTCTCA
 ATATCAACAGCACTGTTATTACTACTTGGGTTTTCTGTGGCTGAAAAAGAGAAAGCAA
 ATTAAGATCTGGGCAGTGAATTAGTTGCTACGATGCAAGAGTACACACTCCTCATTG
 GATAGGCTTGAAGTGCCGAAGTGAAGCCAACTACAGAAATGGTTTTCAAATGAATCT
 GTAGACTACCGAGCTACTTTCCAGAAGATCAGTTTCTAATTCATCTCAGAACGGTTCA
 TGCCGACAAGTGCAGTATCCTCTGACAGACATGTCCCCATCCTAAGTGGGGACTCT
 GATATATCCAGTCCATTACTGCAAAATACTGTCCACATTGACCTCAGTGTCTAAATCCA
 GAGCTGGTCCAGGCAAGTGCAGCATGTAGTATTGGGCCAGTAGCCTGATTGTGCATTTT
 AATGAAGTCATAGGAAGAGGGCATTGTTGGTGTGTATATCATGGGACTTTGTTGGACAAT
 GATGGCAAGAAAATTCAGTGTGTGTGAAATCCTTGAACAGAATCACTGACATAGGAGAA
 GTTTCCCAATTTCTGACCGAGGGAATCATCATGAAAGATTTTAGTCATCCAATGTCTC
 TCGCTCCTGGGAATCTGCCTGCGAAGTGAAGGGTCTCCGCTGGTGGTCTACCATACATG
 AAACATGGAGATCTTCAAATTTCAATCGAAATGAGACTCATAATCCAAGTAAAAAGAT
 CTTATTGGCTTTGGTCTTCAAGTAGCCAAAGGCATGAAATATCTTGCAAGCAAAAAGTTT
 GTCCACAGAGACTTGGCTGCAAGAACTGTATGCTGGATGAAAAATTCACAGTCAAGGTT
 GCTGATTTTGGTCTTGCCAGAGACATGTATGATAAAGAATACTATAGTGTACACAACAAA
 ACAGGTGCAAAGCTGCCAGTGAAGTGGATGGCTTTGGAAAGTCTGCAAACTCAAAAAGTTT
 ACCACCAAGTCAGATGTGTGGTCTTTGGCGTCTCCTCTGGGAGCTGATGACAAGAGGA
 GCCCCACCTTATCCTGAGGTAAACACCTTTGATATAACTGTTTACTTGTGCAAGGGAGA
 AGACTCCTACAACCCGAATACTGCCAGACCCCTTATATGAAGTAATGCTAAAATGCTGG
 CACCCTAAAGCCGAAATGCGCCCATCCTTTTCTGAACTGGTGTCCCGGATATCAGCAATC
 TTCTCTACTTTTCAATGGGGAGCACTATGTCCATGTGAACGCTACTTATGTGAACGTA
 TAAATGTTGTCGCTCCATATCCTTCTCTGTTGTCATCAGAAGATAACGCTGATGATGAGGTGGAC
 ACACGACCAGCCTCCTTCTGGGAGACATCA

Restriction Sites:

Please inquire

ACCN:

NM_001127500

Insert Size:

4300 bp

OTI Disclaimer:	<p>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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
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:	<p>NM_001127500.1, NP_001120972.1</p>
RefSeq Size:	<p>6695 bp</p>
RefSeq ORF:	<p>4227 bp</p>
Locus ID:	<p>4233</p>
UniProt ID:	<p>P08581</p>
Cytogenetics:	<p>7q31.2</p>
Protein Families:	<p>Druggable Genome, Protein Kinase, Transmembrane</p>
Protein Pathways:	<p>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</p>

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).