

Product datasheet for **SC323292**

TET2 (NM_001127208) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TET2 (NM_001127208) Human Untagged Clone
Tag: Tag Free
Symbol: TET2
Synonyms: IMD75; KIAA1546; MDS
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001127208 edited
 ATGGAACAGGATAGAACCAACCATGTTGAGGGCAACAGACTAAGTCCATTCTGATACCA
 TCACCTCCCATTTGCCAGACAGAACCTCTGGCTACAAAGCTCCAGAATGGAAGCCCACTG
 CCTGAGAGAGCTCATCCAGAAGTAAATGGAGACACCAAGTGCCACTCTTTCAAAAAGTTAT
 TATGGAATACCCTGTATGAAGGGAAGCCAGAATAGTCGTGTGAGTCTGACTTTACACAA
 GAAAGTAGAGGGTATTCCAAGTGTGCAAAATGGAGGAATAAACGCACAGTTAGTGAA
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 TCCTGTGAGATCACTCACCCATCGCATACCTCAGGGCAGATCAATTCCGCACAGACCTCT
 AACTCTGAGCTGCCTCCAAGCCAGCTGCAGTGGTGAGTGAGGCCTGTGATGCTGATGAT
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AGCAGTGGAGAGCTACAGGACAACCTGCCAGCAGTTGATGAGAAACAAAGAGCAAGAGATT
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AAACCAGGATGGATTGAATTGAAGGCCCTCGTTTTACCAAGCGGAATCCCATCTAAAA
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CAAACCTGAAAACGCAAGCCAGGCTAAACAGTTGGCAGAACTTTTGGCACTTTTTCAGGACCA
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TCATCTCAAGCTGCAGGTTCATATTTGAATTCTTCTAATCCCATGAAACCTTACCCTGGG
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AACTGCTCCCATATCTGGGTTCTATTCTCCCAGTCTCAGCCGATGGATCTGTATAGG
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CCTCAGAAATCCCATGGCAAAAAGTGAACCGGGAGCCTGCTGAGCCACATGAACTTCA
GAGCCCACTTACCTGCGTTTCATCAAGTCTTGTCCGAAAAGGACCATGTCCGTGACCACA
GACTCCACAGTAACACTACATCTCCATATGCCTTCACTCGGGTCACAGGGCCTTACAACAGA
TATATATGA
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Restriction Sites: Please inquire

ACCN: NM_001127208

Insert Size: 6000 bp

OTI Disclaimer: 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.

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 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.

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:

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_001127208.1](#), [NP_001120680.1](#)

RefSeq Size: 9677 bp

RefSeq ORF: 6009 bp

Locus ID: 54790

UniProt ID: [Q6N021](#)

Cytogenetics: 4q24

Gene Summary: The protein encoded by this gene is a methylcytosine dioxygenase that catalyzes the conversion of methylcytosine to 5-hydroxymethylcytosine. The encoded protein is involved in myelopoiesis, and defects in this gene have been associated with several myeloproliferative disorders. Two variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.