

Product datasheet for **SC316607**

TET3 (NM_144993) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TET3 (NM_144993) Human Untagged Clone
Tag: Tag Free
Symbol: TET3
Synonyms: hCG_40738
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_144993 edited
 ATGGACTCAGGGCCAGTGTACCATGGGGACTCACGGCAGCTAAGCGCCTCAGGGGTGCCG
 GTCAATGGTGCTAGAGAGCCCGCTGGACCCAGTCTGCTGGGGACTGGGGGTCTTGGCGG
 GTAGACCAAAGCCGACTGGGAGGCTGCCCCAGGCCAGCTCATACTGCTCGCCTGGAA
 GATGCCACAGATCTGGTGGCCTTTTCGGCTGTGGCCGAAGCTGTGTCTTATGGGGCC
 CTAGCACCCGGCTCTATGAAACCTTCAACCGTGAGATGAGTCGTGAGGCTGGGAACAAC
 AGCAGGGGACCCCGCCAGGGCTGAGGGCTGCTGCTGGCAGCGAAGACCTTGACACA
 CTGCAGACGGCCCTGGCCCTCGCGCGCATGGTATGAAACCACCAACTGCAACTGCGAT
 GGCCAGAAATGCCCTGACTACCTCGAGTGGCTGGAGGGGAAGTCAAGTCTGTGGTCATG
 GAAGGAGGGGAGGAGCGCCAGGCTCCCAGGGCTCTGCCTCCTGGTGAGGCCGGCCTC
 CCAGCACCAAGCACCAGGCCACTCCTCAGCTCAGAGGTGCCAGATCTCTCCCAAGAG
 GGCTGCCCTGTCCAGAGTGCCTGAGCATTGCCAAGGAAAAAACATCAGCTTGCAG
 ACCGCCATTGCCATTGAGGCCCTCACACAGCTCTCCTCTGCCCTCCCGCAGCCTTCTCAT
 TCCACCCCCAGGCTTCTTGCCCTTCTGAGGCCTTGTACCTCCTGCCCTTTCAGA
 TCTCCCAAGTCTTACCTCCGGGCTCCCTCATGGCTGTGGTTCCTCCTGAAGAGCACTCA
 TCTTTTGTCTGATAGCTTGCCTTCCCTCCAGCAACTCTAGAAGTGAAGTCCCTGAA
 GCCTGGGGCACTGACACCCCTCCAGCAACGCCCGGAGCTCCTGGCCATGCCTCGCCCA
 AGCCCCGATCCCATGGCTGAAGTGGAGCAGTTGTTGGGCAGGCCAGTGAATACATCCAG
 TCAGTATTCAAGCGGCCCTGAGGCCCTGCCTACCAAGCCCAAGGTCAAGGTGGAGGCCACCC
 TCTTCTCCCGGCCCGCCCATCCCTGTAATTCAGAGGGAGGCTCCACGCCATCC
 TCGGAGCCCGACACCCACCAAGGCCAGACCGCCCTGCAGCAGCACCTCCACCAAG
 CGCAGCCTCTTCTAGAACAGGTGCACGACACCTCCTTCCCTGCTCCTCAGAGCCTTCT
 GCTCCTGGCTGGTGGCCCCACCAAGTTCACCTGTCCCACGGCTTCCAGACAGACCACCC
 AAGGAGAAGAAGAAGCTCCCAACACAGCTGGAGGTCCCGTGGGAACGGAGAAAGCT
 GCCCTGGGATCAAGCCAGTGTCCGAAAGCCATTGAGATCAAGAAGTCCAGGCCCGG
 GAAGCACAGCCCTTCTCCACCTGTCCGACAGATTGCTCTGGAAGGGCTTAGGTCCCA
 GCCTCCAGGAAGTGCAGGCTCATCCACGGCCCTCTGCCTGCCTCACAGGGCTCTGCT



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GTGCCCTGCCCCAGAACCTTCTCTTGCCTATTTGCACCTAGTCCCTCCAGGGACAGC
 CTGCTGCCCCCTACTCAGGAAATGAGGTCCCCAGCCCCATGACAGCCTTGCAGCCAGGC
 TCCACTGGCCCTTCCCCCTGCCGATGACAAGCTGGAAGAGCTCATCCGGCAGTTTGGAG
 GCTGAATTTGGAGATAGCTTTGGGCTTCCCGGCCCCCTTCTGTGCCATTTCAGGACCCC
 GAGAACCAGCAAACATGTCTCCAGCCCCTGAGAGCCCCTTGTACCCGTTCCCCAAG
 CAAATCAAGATTGAGTCTTCGGGGCTGTGACTGTCTCAACCACTGCTTCCATTCA
 GAGGAGGAGGACAGGAGGCCACCCACCAAGGCTGAGAACCCTCACACCCACCTC
 AGTGGCTTCTTGAGTACCTCTTAAGTACCTGGACACCCACCAAGAGTCTGCTGGAC
 ACACCTGCCAAGAGAGCCAGGCCGAGTTCCCCACCTGCGATTGCGTGAACAAATAGTG
 GAGAAAGATGAAGGTCCATATTACTCACTTGGGATCTGGCCCCACGGTCGCCTCTATC
 CGGAACTCATGGAGGAGCGGTATGGAGAGAAGGGGAAAGCCATCCGGATCGAGAAGGTC
 ATCTACACGGGAAGGAGGGAAAGAGCTCCCGGGTTGCCCATTGCAAAGTGGTGATC
 CGCAGGCACACGCTGGAGGAGAAGCTACTCTGCCTGGTGCACCCGGCAGGCCACCAC
 TGCCAGAACGCTGTGATCGTATCCTCATCTGCCTGGGAGGGCATTCCCCGTAGCCTC
 GGAGACACCTCTACCAGGAGCTCACCGACACCCTCCGGAAGTATGGGAACCCACCAGC
 CGGAGATGCGGCCCTCAACGATGACCGGACTGCGCTTGCCAAGGCAAAGACCCCAACACC
 TGTGGTGCCTCCTTCTCCTTTGGTTGTTCTGGAGCATGTACTTCAACGGCTGCAAGTAT
 GCTCGGAGCAAGACACCTCGCAAGTTCCGCCTCGCAGGGGACAATCCCAAAGAGGAAGAA
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 GCCCTCAGGCCTATCAGAACCAGGTGACCAACGAGGAAATAGCGATTGACTGCCGTCTG
 GGGCTGAAGGAAGGACGGCCCTTCGCGGGGTACGGCCTGCATGGACTTCTGTGCCAC
 GCCACAAGGACAGCATAACCTCTACAATGGGTGCACCGTGGTCTGCACCCTGACCAAG
 GAAGCAATCGCTGCGTGGCAAGATTCCCGAGGATGAGCAGTGCATGTTCTCCCCTG
 TACAAGATGGCCAACACGGATGAGTTTGGTAGCGAGGAGAACCAGAATGCAAAGGTGGGC
 AGCGGAGCCATCCAGGTGCTCACCGCTTCCCCGCGAGGTCCGACGCCTGCCGAGCCT
 GCCAAGTCTGCCCGCAGCGCAGCTGGAAGCCAGAAAGGCAGCAGCCGAGAAGAAGAAG
 ATTCAGAAGGAGAAGCTGAGCACTCCGGAAGATCAAGCAGGAGGCCCTGGAGCTGGCG
 GGCATTACGTCGGACCCAGGCCTGTCTCTGAAGGGTGGATTGTCCAGCAAGGCCTGAAG
 CCCTCCCTCAAGGTGGAGCCGAGAACCCTTCAAGTCAAGTACAGCGCAACCGG
 GTGGTGGAGAGCTACTCGGTGCTGGCAACTGCCGGCCCTCCGACCTTACAGCATGAAC
 AGCGTGTACTCCTACCCTCCTACTATGCACAGCCAGCCTGACCTCCGTCATGGCTTC
 CACTCAAAGTACGCTCTCCCGTCTTTAGCTACTATGGCTTTCATCCAGCAACCCCGTC
 TCCCCCTCTCAGTTCTGGGTCCTGGTGCCTGGGGCATAGTGGCAGCAGTGGCAGTTTT
 GAGAAGAAGCCAGACCTCCACGCTCTGCACAACAGCCTGAGCCCGGCCTACGGTGGTGCT
 GAGTTTCCGAGCTGCCAGCCAGGCTGTTCCACAGACGCCACCACCCCACTCCTCAC
 CACCAGCAGCCTGCGTACCCAGGCCCAAGGATATCTGCTTCCCAAGGCCCCCTACTC
 CACTCAGTGTCCAGGGACCCCTCCCCCTTTGCCAGAGCTCCAAGTGTACAACAGATCC
 ATCAAGCAAGAGCCAGTAGACCCGCTGACCCAGGCTGAGCCTGTGCCAGAGACGCTGGC
 AAGATGGGCAAGACACCTCTGTCCGAGGTGTCTCAGAATGGAGGACCCAGTCACCTTTGG
 GGACAGTACTCAGGAGGCCAAGCATGTCCCCAAGAGGACTAACGGTGTGGGTGGCAGC
 TGGGGTGTGTTCTCGTCTGGGAGAGTCTGCCATCGTCCCTGACAAGCTCAGTTCCTTT
 GGGGCCAGCTGCCTGGCCCTTCCCACTTACAGATGGCCAGTGGGGGCTGTTCCCGGT
 GAGGGGACAGCAGGCTTCCCACTCTGGAGGACGGTGCAGGGCAAACCGTGGAGCCCC
 TGCAAGTTTGGGAACAGCACCTCGGCCTGGCTGGGCCACGCTGACTGAGAAGCCGTGG
 GCGCTGGGGCAGGGGATTTCAACTCGGCCTGAAAGGTAGTCTGGGTTCCAAGACAAG
 CTGTGGAACCCCATGAAAGGAGAGGAGGGCAGGATTCCAGCCGACGGGGCCAGCCAGCTG
 GACAGGGCCTGGCAGTCTTTGGTCTGCCCTGGGATCCAGCGAGAAGCTGTTTGGGGCT
 CTGAAGTCAGAGGAGAAGCTGTGGGACCCCTTACGCTTGAGGAGGGGGCCGGCTGAGGAG
 CCCCCAGCAAGGGAGCGGTGAAGGAGGAGAAGGGCGGTGGTGGTGGGAGGAGGAAGAG
 GAGGAGCTGTGGTCCGACAGTGAACACAACCTTCTGGACGAGAACATCGCGCGCTGGCC
 GTGGCCCCAGCCACGGCTCCATCCTCATCGAGTGTGCCCGGGGAGCTGCACGCCACC
 ACGCCGTTAAGAAGCCCAACCGCTGCCACCCACCCGCATCTCGCTGGTCTTACCAG

CACAAGAACCTCAACCAGCCCAACCACGGGCTGGCCCTCTGGGAAGCCAAGATGAAGCAG
 CTGGCGGAGAGGGCACGGGCACGGCAGGAGGAGGCTGCCCGGCTGGGCTGGCCAGCAG
 GAGGCCAAGCTCTACGGGAAGAAGCGCAAGTGGGGGGGCACTGTGGTTGCTGAGCCCCAG
 CAGAAAGAGAAGAAGGGGGTCTGTCCCCACCCGGCAGGCACTGGCTGTGCCACAGACTCG
 GCGGTACCGTGTCTCTATGCCTACACGAAGTCACTGGCCCTACAGCCGCTGGATC
 TAG

Restriction Sites: Please inquire

ACCN: NM_144993

Insert Size: 5400 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_144993.1](#), [NP_659430.1](#)

RefSeq Size: 10983 bp

RefSeq ORF: 4983 bp

Locus ID: 200424

Cytogenetics: 2p13.1

Protein Families: Transcription Factors

Gene Summary:

Members of the ten-eleven translocation (TET) gene family, including TET3, play a role in the DNA methylation process (Langemeijer et al., 2009 [PubMed 19923888]).[supplied by OMIM, Nov 2010]