

Product datasheet for **SC324266**

TTI1 (NM_014657) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TTI1 (NM_014657) Human Untagged Clone
Tag:	Tag Free
Symbol:	TTI1
Synonyms:	KIAA0406; smg-10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_014657.1
GAGAGTGAGAGAAAGGCTGGAAGACGAGACCTGCTCACTCTGTCCAGGCTAGAGTAC
AGTGGCACAATCACAGCTCATTGCAGCCTCAACCTCCCAGGCTCAATCGATCCTTCCAAC
TGAGCCTCCCTAGCAGCTGGGACTATTAGTGACACCACCACACCTAGCCTGCAGGATGT
TTCCTCAATGAGGGGAAGGCTGCTGCACAATGGCAGTTTTTGTACTCCTGAGGAGGCT
TTGGTGTCTTACGTCCAGTCTGTGTTTCAGCTCACAAAGACCCAGACAGTGGAGAATGTGG
AGCATCTGCAGACACGACTACAAGCTGTGAGTGACAGTGCCCTTCAGGAACCTCAGCAGT
ACATCCTCTTCCCTCTGCGATTTACCCTGAAGACCCAGGTCCCAAAGAGAGCGTTTGA
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CCTGCTCCCCACCACAGAGGCCACCGATCCCTCCCTACTGCCAGCCAGAAGCTGGGCT
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TTTAACCCCTTAGCCTACCATCTCTATAGCCCCAGCTCCCTCACAGGCCACACACACA
CACACAAGAGGTCAGTTCCTCCATCTGCATACACCTCCCTGTCTTCAAATAATGAGAT
GGAACATAATTTGTTTTACCTAACCTGATCTTTGGGAAACAAACGGAAATAAAGACTTCT
TTGGATGAAAAGTAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:

Please inquire

ACCN:

NM_014657

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<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:	<u>NM_014657.1</u> , <u>NP_055472.1</u>
RefSeq Size:	3931 bp
RefSeq ORF:	3270 bp
Locus ID:	9675
UniProt ID:	<u>O43156</u>
Cytogenetics:	20q11.23
Gene Summary:	<p>Regulator of the DNA damage response (DDR). Part of the TTT complex that is required to stabilize protein levels of the phosphatidylinositol 3-kinase-related protein kinase (PIKK) family proteins. The TTT complex is involved in the cellular resistance to DNA damage stresses, like ionizing radiation (IR), ultraviolet (UV) and mitomycin C (MMC). Together with the TTT complex and HSP90 may participate in the proper folding of newly synthesized PIKKs. Promotes assembly, stabilizes and maintains the activity of mTORC1 and mTORC2 complexes, which regulate cell growth and survival in response to nutrient and hormonal signals.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same isoform.</p>