

Product datasheet for **SC303281**

T (NM_003181) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: T (NM_003181) Human Untagged Clone
Tag: Tag Free
Symbol: T
Synonyms: SAVA; T; TFT
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003181 edited
TCTCAGGTAGCGAGTCTGGGCTTCGGGGACGGCGGGGAGGGGAGCCGGACGGGAGGATGA
GCTCCCCGTGGCACCGAGAGCGCGGGAAAGAGCCTGCAGTACCGAGTGGACCACCTGCTGA
GCGCCGTGGAGAATGAGCTGCAGGCGGGCAGCGAGAAGGGCGACCCACAGAGCGCGAAC
TGCGCGTGGGCTGGAGGAGAGCGAGCTGTGGCTGCGCTTCAAGGAGCTACCAATGAGA
TGATCGTGACCAAGAACGGCAGGAGGATGTTTCCGGTGCTGAAGGTGAACGTGTCTGGCC
TGGACCCCAACGCCATGTACTCCTTCTGCTGGACTTCGTGGCGGCGACAACCACCGCT
GGAAGTACGTGAACGGGAATGGGTGCCGGGGGCAAGCCGGAGCCGAGCGCCAGCT
GCGTCTACATCCACCCGACTCGCCCACTTCGGGGCCACTGGATGAAGGCTCCCGTCT
CCTTCAGCAAAGTCAAGCTCACCAACAAGCTCAACGGAGGGGCCAGATCATGCTGAACT
CCTTGCATAAGTATGAGCCTCGAATCCACATAGTGAGAGTTGGGGTCCACAGCGCATGA
TCACCAGCCACTGCTTCCCTGAGACCCAGTTCATAGCGGTGACTGCTTATCAGAACGAGG
AGATCACAGCTCTTAAATTAAGTACAATCCATTTGAAAAGCTTTCCTTGATGCAAAGG
AAAGAAGTGATCAAAAGAGATGATGGAGGAACCCGGAGACAGCCAGCAACCTGGGTACT
CCCAATCAGGGGGTGGCTTCTTCTGGAACCAGCACCTGTGTCCACCTGCAAATCCTC
ATCCTCAGTTTGGAGGTGCCCTCCTCCCTCCCTCCACGCACAGCTGTGACAGGTACCCAA
CCCTGAGGAGCCACCGGTCTCACCTACCCAGCCCTATGCTCATCGGAACAATTCTC
CAACCTATTCTGACAACCTCACCTGCATGTTTATCCATGCTGCAATCCCATGACAATTGGT
CCAGCCTTGAAATGCCTGCCATCCCAGCATGCTCCCCGTGAGCCACAATGCCAGCCAC
CTACCAGCTCCAGTCAGTACCCAGCCTGTGGTCTGTGAGCAACGGCGCGTACCCCGG
GCTCCCAGGCAGCAGCCGTGTCCAACGGGCTGGGGGCCAGTTCTTCCGGGGCTCCCCCG
CGCACTACACACCCCTCACCCATCCGGTCTCGGCGCCCTTCTCCTCGGGATCCCCACTGT
ACGAAGGGGGCGCCGCGCCACAGACATCGTGGACAGCCAGTACGACGCCGAGCCCAAG
GCCGCTCATAGCCTCATGGACACCTGTGTGCCACCTTCCATGTGAAGCAGCAAGGCC
AGGTCCCAGAAAGATGCAGTGACTTTTTGTGCGTGGCAGCCAGTGGTACTGGATTGACCTA
CTAGGTACCCAGTGGCAGTCTCAGGTTAAGAAGGAAATGCAGCCTCAGTAACTTCTTTT
CAAAGCAGTGGAGGAGCACAC



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003181 unedited GNNCGGCCGCGNAATTCGCCCTTGNAGCAGGNAGGTGGATTCTCAGTAGCGAGTCTGGGC TTCGGGGACGGCGGGGAGGGGAGCCGGACGGGAGGATGAGCTCCCCTGGCACCGAGAGCG CGGGAAAGAGCCTGCAGTACCGAGTGGACCACCTGCTGAGCGCCGTGGAGAATGAGCTGC AGGCGGGCAGCGAGAAGGGCGACCCACAGAGCGCAACTGCGCGTGGCCTGGAGGAGA GCGAGCTGTGGCTGCGCTTCAAGGAGCTACCAATGAGATGATCGTGACCAAGAACGGCA GGAGGATGTTCCGGTGTGAAGGTGAAGTGTCTGGCCTGGACCCCAACGCCATGTACT CCTTCCTGCTGGACTTCTGTGGCGCGGACAACCACCGCTGGAAGTACGTGAACGGNGAAT GGGTGCCGGGGGCAAGCCGGAGCCGCAGGCGCCAGCTGCGTCTACATCCACCCCGACT CGCCCAACTTCGGGGCCCACTGGATGAAGGCTCCCGTCTCCTTCAGCANAGTCAAGCTCA CCAACNAGCTCAACGGGAGNGGCCAGATCATGCTGAACTCCTTTGCATAGTATGAGCCT CGAATCCACATAGTGAGAGTTGGGGGTCCACAGCGCATGATCACCAGCCACTGCTTCCC TGAGACCCAGTTCATAGCGGTGACTGCTTATCAGAACGAGGAGATCACAGCTCTTAAAT TAAGTANCATCCATTTGCAAAAGCTTTCCTTGATGCANAGGANAGAAGTATCACAAAGA GATGAATGGANGACCCGNAGACAGCCAGCAACCTGGGTACTCCCATCA</p>
3' Read Nucleotide Sequence:	<p>>Reverse primer walk for NM_003181 unedited GACTTCTGGATAGTCAATCCATTCCTACTGGCTGCCACGAAAAATCACTGCATCTTTCG GGACCTGGGCCTTGCTGCTTACATGGAAGGTGGCGACACAGGTGCCATGAGGCTATGA GCGGCCCTTGGGCTGCGGCTCGTACTGGCTGTCCACGATGTCTGTGGCCGCGGCCGCC CTTTCGTACAGTGGGGATCCCGAGGAAGAGGGCGCCGAGACCGGATGGGTGAGGGGTGTG AGTGCGCGGGGGAGCCCCGGAAGAACTGGGCCCCAGCCCGTTGGACACGGCTGTGCT GGGAGCCCGGGGTGACGGCGCCGTTGCTCACAGACCACAGGCTGGGGTACTGACTGGAGC TGGTAGGTGGGCTGGCATTGTGGCTCACGGGAGCATGCTGGGATGGGCAGGCATTCCAA GGCTGGACCAATTGTCATGGGATTGCAGCATGGATAAACATGCAGGTGAGTTGTCAGAAT AGGTTGGAGAATTGTTCCGATGAGCATAGGGGCTGGGGTAGGGTGAAGCCGGTGGCTCC TCAGGGTTGGGTACCTGTACAGCTGTGCGTGGAGGGGAGGGAGAGGGCACCTCCAACT GAGGATGAGGATTTGCAGGTGGACACAGGGTGTGTTCCAGGAAGAAGCCACCCCTG ATTGGGAGTACCCAGGTTGCTGGCTGTCTCCGGTTCCTCCATCATCTCTTTGTGATCAC TTCTTTCTTTGCATCAAGGAAAGCTTTTGCAAATGGATTGACTTAATTTAAGAGCTG TGATCTCTCGTTCTGATAAGCAGTCACCGCTATGAACTGGGTCTCAGGGAAGCAGTGGC TA</p>
Restriction Sites:	Please inquire
ACCN:	NM_003181
Insert Size:	1500 bp
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:	There is 4 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the insertion of 1aa and substitution of 1 aa.
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_003181.2](#), [NP_003172.1](#)

RefSeq Size: 2518 bp

RefSeq ORF: 1308 bp

Locus ID: 6862

UniProt ID: [O15178](#)

Cytogenetics: 6q27

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

Gene Summary: The protein encoded by this gene is an embryonic nuclear transcription factor that binds to a specific DNA element, the palindromic T-site. It binds through a region in its N-terminus, called the T-box, and effects transcription of genes required for mesoderm formation and differentiation. The protein is localized to notochord-derived cells. Variation in this gene was associated with susceptibility to neural tube defects and chordoma. A mutation in this gene was found in a family with sacral agenesis with vertebral anomalies. [provided by RefSeq, Sep 2018]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.