

## Product datasheet for **SC319511**

### **TTF1 (NKX2-1) (NM\_001079668) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TTF1 (NKX2-1) (NM_001079668) Human Untagged Clone
Tag:	Tag Free
Symbol:	TTF1
Synonyms:	BCH; BHC; NK-2; NKX2.1; NKX2A; NMTC1; T/EBP; TEBP; TITF1; TTF-1; TTF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001079668.1  
GGCGACTGGGGCTCAGCGCAGCGAAGCCCGATGTGGTCCGGAGGCAGTGGGAAGGCGCGG  
GGCTGGGAGGCCGCGCGGGAGGGAGGAGCAGCCCCGGCAGGCTCAGCCGCCCGCAATC  
ATGTGATGAGTCAAAGCACACGACTCCGTTCTCAGTGTCTGACATCTTGAGTCCCCTG  
GAGGAAAGCTACAAGAAAGTGGGCATGGAGGGCGGCGCCTCGGGGCTCCGCTGGCGGGC  
TACAGGCAGGGCCAGGCGGCACCGCCAACAGCGCCATGCAGCAGCAGCCGTGGGGCAC  
CACGGCGCCGTCACCGCCGCTACCACATGACGGCGGCGGGGTGCCCCAGCTCTCGCAC  
TCCGCCGTGGGGGCTACTGCAACGGCAACCTGGGCAACATGAGCGAGCTGCCGCCGTAC  
CAGGACACCATGAGGAACAGCGCCTCTGGCCCCGATGGTACGGCGCAACCCAGACCCG  
CGTTCCCGCCATCTCCCGTTCATGGGCCCGCGAGCGGCATGAACATGAGCGGCATG  
GGCGGCTGGGCTCGCTGGGGGACGTGAGCAAGAACATGGCCCCGCTGCCAAGCGCGCCG  
CGCAGGAAGCGCCGGTGTCTTCTCGCAGGCGCAGGTGTACGAGCTGGAGCGACGCTTC  
AAGCAACAGAAGTACCTGTGGCGCCGGAGCGCGAGCACCTGGCCAGCATGATCCACCTG  
ACGCCCACGCAGGTCAAGATCTGGTTCAGAACCACCGTACAAAATGAAGCGCCAGGCC  
AAGGACAAGGCGGCGCAGCAGCAACTGCAGCAGGACAGCGGCGGGCGGGGGCGCGGGG  
GGCACCGGGTGCCCGCAGCAGCAACAGGCTCAGCAGCAGTCGCCCGACGCGTGGCGGTG  
CCGGTCTGTGAAAGACGGCAAACCGTGCCAGGCGGGTGCCCCCGCGCCGGGCGCCGCC  
AGCCTACAAGGCCACGCGCAGCAGCAGGCGCAGCACAGGCGCAGGCCGCGCAGGCGGGC  
GCAGCGGCCATCTCCGTGGGCGAGCGGTGGCGCCGGCCTTGGCGCACACCCGGGCCACAG  
CCAGGCAGCGCAGGCCAGTCTCCGGACCTGGCGCACACGCCGCCAGCCCCGGGCGCTG  
CAGGGCCAGGTATCCAGCCTGTCCCACCTGAACTCCTCGGGCTCGGACTACGGCACCATG  
TCCTGCTCCACCTTGCTATACGGTCCGACCTGGTGAGAGGACGCCGGGCCGGCCCTAGCC  
CAGCGCTCTGCCACCGCTTCCCTCCTGCCCGCACACAGACCACCATCCACCGTGTCT  
CCACGCGCTTCGACTTTTCTTAACAACCTGGCCGCGTTTAGACCAAGGAACAAAAAACC  
ACAAAGGCCAAACTGCTGGACGTCTTTCTTTTTTCCCCCCTAAAATTTGTGGTTTTT  
TTTTTAAAAAAGAAAATGAAAAACAACCAAGCGCATCCAATCTCAAGGAATCTTTAAG  
CAGAGAAGGGCATAAACAGCTTTGGGTGTCTTTTTTTGGTGATTCAAATGGGTTTTTC  
ACGCTAGGGCGGGGCACAGATTGGAGAGGGCTCTGTGCTGACATGGCTCTGGACTCTAA  
GACCAAATTTCACTCTGGGCACACTCTGCCAGCAAAGAGGACTCGCTTGTAAATACCAGG  
ATTTTTTTTTTTTTTTGAAGGGAGGACGGGAGCTGGGGAGAGGAAAGAGTCTTCAACATA  
ACCCACTTGTCACTGACACAAAGGAAGTCCCCCTCCCCGGCACCTCTGGCCGCTAGG  
CTCAGCGCGACCGCCCTCCGCGAAAATAGTTTGTAAATGTGAACCTGTAGCTGTAAAA  
CGCTGTCAAAAAGTTGGACTAAATGCCTAGTTTTTAGTAATCTGTACATTTTGTGTA  
AGAAAAACCACTCCCAGTCCCCAGCCCTTACATTTTTATGGGCATTGACAAATCTGTG  
TATATTATTTGGCAGTTTGGTATTTGCGGCGTCAGTCTTTTTCTGTTGTAACCTTATGTAG  
ATATTTGGCTTAAATATAGTTCCTAAGAAGCTTCTAATAAATTATACAAATTA  
TCTTTTTCTGATTA  
AAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001079668

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001079668.1</a></u> , <u><a href="#">NP_001073136.1</a></u>
<b>RefSeq Size:</b>	2183 bp
<b>RefSeq ORF:</b>	1206 bp
<b>Locus ID:</b>	7080
<b>UniProt ID:</b>	<u><a href="#">P43699</a></u>
<b>Cytogenetics:</b>	14q13.3
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
<b>Gene Summary:</b>	<p>This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to the thyroglobulin promoter and regulates the expression of thyroid-specific genes but has also been shown to regulate the expression of genes involved in morphogenesis. Mutations and deletions in this gene are associated with benign hereditary chorea, choreoathetosis, congenital hypothyroidism, and neonatal respiratory distress, and may be associated with thyroid cancer. Multiple transcript variants encoding different isoforms have been found for this gene. This gene shares the symbol/alias 'TTF1' with another gene, transcription termination factor 1, which plays a role in ribosomal gene transcription. [provided by RefSeq, Feb 2014]</p> <p>Transcript Variant: This variant (1) encodes the longer protein (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.</p>