

## Product datasheet for **SC122668**

### TdT (DNNT) (NM\_004088) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TdT (DNNT) (NM_004088) Human Untagged Clone
Tag:	Tag Free
Symbol:	TdT
Synonyms:	TDT
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

>OriGene sequence for NM\_004088 edited  
 CACCACCAGATGGGCCAGCCAGAGGCAGCAGCAGCCTCTTCCCATGGATCCACCACGAGC  
 GTCCCCTTGGCCCTCGGAAGAAGAGACCCCGGCAGACGGGTGCCTTGATGGCCCTCTC  
 TCCTCAAGACATCAAATTTCAAGATTTGGTCGTCTTCATTTTGGAGAAGAAAATGGGAAC  
 CACCCGCAGAGCGTTCTCATGGAGCTGGCCCGCAGGAAAGGGTTCAGGGTTGAAAATGA  
 GCTCAGTGATTCTGTACCCACATTGTAGCAGAGAACAACCTCGGGTTCGGATGTTCTGGA  
 GTGGCTTCAAGCACAGAAAAGTACAAGTCAGCTCACAAACCAGAGCTCCTCGATGTCTGCTG  
 GCTGATCGAATGCATAGGAGCAGGGAAACCGGTGGAATGACAGGAAAACACCAGCTTGT  
 TGTGAGAAGAGACTATTAGATAGCACCAACCCAGGCCCCCGAAGACTCCACCAATTGC  
 TGTACAAAAGATCTCCAGTATGCGTGTGAGAGAAGAACCCTTTAAACAACGTAAACCA  
 GATATTACGGATGCCTTTGATATACTGGCTGAAAACGTGAGTTTAGAGAAAATGAAGA  
 CTCCTGTGTGACATTTATGAGAGCAGCTTCTGTATTGAAATCTCTGCCATTCACAATCAT  
 CAGTATGAAGGACACAGAAGGAATTCCTGCCTGGGGTCCAAGGTGAAGGGTATCATAGA  
 GGAGATTATTGAAGATGGAGAAAGTTCTGAAGTTAAAGCTGTGTTAAATGATGAACGATA  
 TCAATCCTTCAAACCTTTACTTCTGTATTTGGAGTGGGGCTGAAGACTTCTGAGAAGTG  
 GTTCAGGATGGGTTTCAAGACTCTGAGTAAAGTAAAGTTCGGACAAAAGCCTGAAAATTTAC  
 ACGAATGCAGAAAAGCAGGATTTCTGTATTATGAAGACCTTGTGAGCTGTGTGACCAGGGC  
 AGAAGCAGAGGCCGTGAGTGTGCTGTTAAAGAGGCTGTCTGGGCATTTCTTCCGGATGC  
 TTTTCGTACCATGACAGGAGGGTTCGGAGGGGTAAAGAAGATGGGGCATGATGTAGATTT  
 TTTAATTACCAGCCAGGATCAACAGAGGATGAAGAGCAACTTTTACAGAAAAGTGATGAA  
 CTTATGGGAAAAGAGGGATTACTTTTATATTGACCTTGTGGAGTCAACATTTGAAAA  
 GCTCAGGTTGCCTAGCAGGAAGGTTGATGCTTTGGATCATTTCAAAAGTGCTTTCTGAT  
 TTTCAAATTCGCTCGTCAAAGAGTGGACAGTACCAGTCCAGCTGGCAGGAAGGAAAAGAC  
 CTGGAAGGCCATCCGTGTGGATTTAGTTCTGTGCCCTACGAGCGTCGTGCTTTGCCCCT  
 GTTGGGATGGACTGGCTCCCGGCAGTTTGAAGAGACCTCCGGCCTATGCCACACATGA  
 GCGGAAGATGATTCTGGATAACCATGCTTTATATGACAAGACCAAGAGGATATTCCTCAA  
 AGCAGAAAAGTGAAGAAGAAATTTTTCGCGCATCTGGGATTGGATTATTTGAACCGTGGGA  
 AAGAAATGCCTAGGAAAGTGTGTCAACATTTTTTCTATTCTTTTCAAGTTAAATAAA  
 TTATGCTTCATATTAGTAAAAGATGCCATAGGAGAGTTTGGGGTATTTAGGTCTTATTG  
 AAATGCAGATTGCTACTAGAAAATAAATAACTTTGGAAACATGGGAAGGTGCCACTGGTAA  
 TGGGTAAGGTTCTAATAGGCCATGTTTATGACTGTTGCATAGAATTCACAATGCATTTTT  
 CAAGAGAAATGATGTTGCTACTGGTGGCTCATTACGGGAAGCTCATCAAAGCCCCTTTG  
 TTCGCAGTGTAGCTGAAATACTGTCTATCTCTAATAAAAAACAGGAGGAAAACAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004088 unedited  
 CCGTTCGAATTTGTATACGACTCATATGGGCGGCCGCGNATTCAAATCTGGTACCGGTCC  
 GGAATTCGCGGATATCGTCGACCCACGCGTCCGCACCACCAGATGGGCCAGCCAGAGGC  
 AGCAGCAGCCTCTTCCATGGATCCACCACGAGCGTCCCACTTGAGCCCTCGGAAGAAGA  
 GACCCCGGCAGACGGGTGCCTTGATGGCCTCCTCTCCTCAAGACATCAAATTTCAAGATT  
 TGGTCGTCTTCAATTTGGAGAAGAAAATGGGAACCACCCGCAGAGCGTTCCTCATGGAGC  
 TGGCCCGCAGGAAAGGGTTCAGGGTTGAAAATGAGCTCAGTGATTCTGTACCCACATTG  
 TAGCAGAGAACAACCTCGGTTTCGGATGTTCTGGAGTGGCTTCAAGCACAGAAAGTACAAG  
 TCAGCTCACAAACCAGAGCTCCTCGATGTCTCCTGGCTGATCGAATGCATAGGAGCAGGGA  
 AACCGGTGAAAATGACAGGAAAACACCAGCTTGTGTGAGAAGAGACTATTCAGATAGCA  
 CCAACCCAGGCCCCCGAAGACTCCACCAATTGCTGTACAAAAGATCTCCAGTATGCGT  
 GTCAGAGAAGAACCCTTTAAACAACGTAAACCAGATATTCACGGATGCCTTTGATATAC  
 TGGCTGANAACGTGAGTTTAGAGAANATGAAGACTCCTGTGTGACATTTATGAGAGCAG  
 CTTCTGTATTGAAATCTCTGCCATTCACAATCATCAGTATGAAAGGACACAGAAGAATTC  
 CCTGCCTGGNGTCCAGGGTGAAGGGTATCATAGAGGAGATTATGGAGATGGGANAAAGTC  
 CCTGAAGTTAAAGCTGTGGTTAATGATGAACGATAATCATCCTTCAACTCTTACTCTGT  
 ATTGGGATGGGGCTGGAGACTTGAGAG

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004088
<b>Insert Size:</b>	1900 bp
<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_004088.3</a> , <a href="#">NP_004079.3</a>
<b>RefSeq Size:</b>	2071 bp
<b>RefSeq ORF:</b>	1530 bp
<b>Locus ID:</b>	1791
<b>UniProt ID:</b>	<a href="#">P04053</a>
<b>Cytogenetics:</b>	10q24.1
<b>Protein Pathways:</b>	Hematopoietic cell lineage, Non-homologous end-joining
<b>Gene Summary:</b>	<p>This gene is a member of the DNA polymerase type-X family and encodes a template-independent DNA polymerase that catalyzes the addition of deoxynucleotides to the 3'-hydroxyl terminus of oligonucleotide primers. In vivo, the encoded protein is expressed in a restricted population of normal and malignant pre-B and pre-T lymphocytes during early differentiation, where it generates antigen receptor diversity by synthesizing non-germ line elements (N-regions) at the junctions of rearranged Ig heavy chain and T cell receptor gene segments. Alternatively spliced transcript variants encoding different isoforms of this gene have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>