

Product datasheet for **SC321674**

TdT (DNNT) (NM_001017520) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TdT (DNNT) (NM_001017520) Human Untagged Clone
Tag:	Tag Free
Symbol:	TdT
Synonyms:	TDT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_001017520.1
 CACCACCAGATGGGCCAGCCAGAGGCAGCAGCAGCCTCTTCCCATGGATCCACCACGAGC
 GTCCCCTTGGCCCTCGGAAGAAGAGACCCCGGCAGACGGGTGCCTTGATGGCCCTCTC
 TCCTCAAGACATCAAATTTCAAGATTTGGTCGTCTTCATTTTGGAGAAGAAAATGGGAAC
 CACCCGCAGAGCGTTCTCATGGAGCTGGCCCGCAGGAAAGGGTTCAGGGTTGAAAATGA
 GCTCAGTGATTCTGTACCCACATTGTAGCAGAGAACAACCTCGGGTTCGGATGTTCTGGA
 GTGGCTTCAAGCACAGAAAGTACAAGTCAGCTCACAAACCAGAGCTCCTCGATGTCTCGTG
 GCTGATCGAATGCATAGGAGCAGGGAAACCGGTGGAAATGACAGGAAAACACCAGTTGT
 TGTGAGAAGAGACTATTAGATAGCACCAACCCAGGCCCCCGAAGACTCCACCAATTGC
 TGTACAAAAGATCTCCAGTATGCGTGTGAGAGAAGAACCCTTTAAACAACCTGTAACCA
 GATATTACGGATGCCTTTGATATACTGGCTGAAAACCTGTGAGTTTAGAGAAAATGAAGA
 CTCCTGTGTGACATTTATGAGAGCAGCTTCTGTATTGAAATCTCTGCCATTACAAATCAT
 CAGTATGAAGGACACAGAAGGAATTCCTGCCTGGGGTCCAAGGTGAAGGGTATCATAGA
 GGAGATTATTGAAGATGGAGAAAGTTCTGAAGTTAAAGCTGTGTTAAATGATGAACGATA
 TCAATCCTTCAAACCTTTACTTCTGTATTTGGAGTGGGGCTGAAGACTTCTGAGAAGTG
 GTTCAGGATGGGTTTCAAGACTCTGAGTAAAGTAAAGTTCGGACAAAAGCCTGAAAATTTAC
 ACGAATGCAGAAAAGCAGGATTTCTGTATTATGAAGACCTTGTGAGCTGTGTGACCAGGGC
 AGAAGCAGAGGCCGTGAGTGTGCTGTTAAAGAGGCTGTCTGGGCATTTCTTCCGGATGC
 TTTTCGTACCATGACAGGAGGGTTCGGAGGGGTAAAGAAGATGGGGCATGATGTAGATTT
 TTTAATTACCAGCCAGGATCAACAGAGGATGAAGAGCAACTTTTACAGAAAAGTGATGAA
 CTTATGGGAAAAGAAGGGATTACTTTTATATTATGACCTTGTGGAGTCAACATTTGAAAA
 GCTCAGGTTGCCTAGCAGGAAGGTTGATGCTTTGGATCATTTCAAAAGTGCTTTCTGAT
 TTTCAAATTCCTCGTCAAAGAGTGGACAGTACCAGTCCAGCTGGCAGGAAGGAAAGAC
 CTGGAAGGCCATCCGTGTGGATTTAGTTCTGTGCCCTACGAGCGTCGTGCTTTGCCCT
 GTTGGGATGGACTGGCTCCCGGCAGTTTGAAGAGACCTCCGGCCTATGCCACACATGA
 GCGGAAGATGATTCTGGATAACCATGCTTTATATGACAAGACCAAGAGGATATTCCTCAA
 AGCAGAAAAGTGAAGAAGAAATTTTTCGCGCATCTGGGATTGGATTATTTGAACCGTGGGA
 AAGAAATGCCTAGGAAAGTGTGTCAACATTTTTTCTATTCTTTTCAAGTTAAATAAA
 TTATGCTTCATATTAGTAAAAGATGCCATAGGAGATTTGGGGTATTTAGGTCTTATTG
 AAATGCAGATTGCTACTAGAAAATAAATAACTTTGGAAACATGGGAAGGTGCCACTGGTAA
 TGGGTAAGGTTCTAATAGCCATGTTTATGACTGTTGCATAGAATTCACAATGCATTTTT
 CAAGAGAAATGATGTTGTCACTGGTGGCTCATTACGGGAAGCTCATCAAAGCCCCTTTG
 TTCGCAGTGTAGCTGAAATACTGTCTATCTCTAATAAAAAACAGGAGGAAACAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001017520
- 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:

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_001017520.1](#), [NP_001017520.1](#)

RefSeq Size: 2068 bp

RefSeq ORF: 1527 bp

Locus ID: 1791

UniProt ID: [P04053](#)

Cytogenetics: 10q24.1

Protein Pathways: Hematopoietic cell lineage, Non-homologous end-joining

Gene Summary: 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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. It encodes an isoform (2), which is shorter than 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.