

Product datasheet for **RC204488**

TdT (DNNT) (NM_001017520) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | TdT (DNNT) (NM_001017520) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | TdT |
| Synonyms: | TDT |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide
Sequence:

>RC204488 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCCACCACGAGCGTCCCCTTGGCCCTCGGAAGAAGAGACCCCGCAGACGGGTGCCTTGTATGG
CCTCCTCTCCTCAAGACATCAAATTTCAAGATTTGGTCGCTTTCATTTTGGAGAAGAAAATGGGAACCAC
CCGAGAGCGTTCTCATGGAGCTGGCCCGCAGAAAAGGTTTCAGGGTTGAAAATGAGCTCAGTGATTCT
GTCACCCACATTGTAGCAGAGAACAACCGGGTTCGGATGTTCTGGAGTGGCTTCAAGCAGACAAAAGTAC
AAGTCAGCTCACAACCAGAGCTCCTCGATGTCTCTGGCTGATCGAATGCATAGGAGCAGGGAAACCGGT
GGAAATGACAGGAAAACACCAGCTTGTGTGAGAAGAGACTATTCAGATAGCACCAACCCAGGCCCCCGG
AAGACTCCACCAATTGCTGTACAAAAGATCTCCAGTATGCGTGTGAGAGAAGAACCACTTTAAACAAC
GTAACCAGATATTCACGGATGCCTTTGATATACTGGCTGAAAACGTGAGTTTAGAGAAAATGAAGACTC
CTGTGTGACATTTATGAGAGCAGCTTCTGTATTGAAATCTCTGCCATTCACAATCATCAGTATGAAGGAC
ACAGAAGGAATCCCTGCCTGGGTCCAAGGTGAAGGGTATCATAGAGGAGATTATTGAAGATGGAGAAA
GTTCTGAAGTTAAAGCTGTGTTAAATGATGAACGATATCAATCCTTCAAACCTCTTACTTCTGTATTTGG
AGTGGGCTGAAGACTTCTGAGAAGTGGTTCAGGATGGGTTTCAGAACTCTGAGTAAAGTAAAGTTCGGAC
AAAAGCCTGAAATTTACACGAATGCAGAAAAGCAGGATTTCTGTATTATGAAGACCTTGTGAGCTGTGTGA
CCAGGGCAGAAGCAGAGGCCGTCAGTGTCTGGTTAAAGAGGCTGTCTGGGCATTTCTCCGGATGCTTT
CGTCACCATGACAGGAGGTTCCGGAGGGTAAAGAATGAGGATGATGATGATTTTTTAAATACCAGC
CCAGGATCAACAGAGGATGAAGAGCAACTTTTACAGAAAGTGAAGTGAAGTATGGGAAAAGAGGGATTAC
TTTTATATTATGACCTTGTGGAGTCAACTTTGAAAAGCTCAGGTTGCCTAGCAGGAAGGTTGATGCTTT
GGATCATTTTCAAAGTGTCTTCTGATTTTCAAATTCCTCGTCAAAGAGTGGACAGTGACCAGTCCAGC
TGGCAGGAAGGAAAGACCTGGAAGGCCATCCGTGTGGATTTAGTTCTGTGCCCTACGAGCGTCTGCCT
TTGCCCTGTTGGGATGGACTGGCTCCCGCAGTTTGGAGAGACCTCCGCGCTATGCCACACATGAGCG
GAAGATGATTCTGGATAACCATGCTTTATATGACAAGACCAAGAGGATATTCCTCAAAGCAGAAAGTGA
GAAGAAATTTTGCATCTGGGATTGGATTATATTGAACCGTGGGAAAGAAATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204488 protein sequence
Red=Cloning site Green=Tags(s)

MDPPRASHLSPRKKRPRQTGALMASSPQDIKFDLVVFILEKKMGTTTRRAFLMELARRKGFVRENELSDS
VTHIVAENNSGSDVLEWLQAQKQVSSQPELLDVSWEIETGAGKPVEMTGKHQLVRRDYSDSTNPGPP
KTPPIAVQKISQYACQRRITLNNCNQIFDAFDILAENCEFRENEDSCVTFMRAASVLKSLPFTIISMKD
TEGIPCLGSKVKGIIEEIIEDGESSEVKAVLNDERYQSFKLFTSVFVGLKTSEKWFMRMGFRTLSKVRSD
KSLKFTRMQKAGFLYYEDLVSCVTRAEAEAVSVLVKEAVWAFLPDAFVTMTGGFRRGKMGHDVDFLITS
PGSTEDEEQLLQKVMNLWEKKGLLLYYDLVESTFEKLRPSRKVDALDHFQKCFLIFKLPRQRVSDQSS
WQEGKTKAIRVDLVLCYERRAFALLGWTGSRQFERDLRRYATHERKMILDNHALYDKTKRIFLKAESE
EEIFAHGLLDYIEPWERNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6325_d10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001017520

ORF Size: 1527 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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](#)

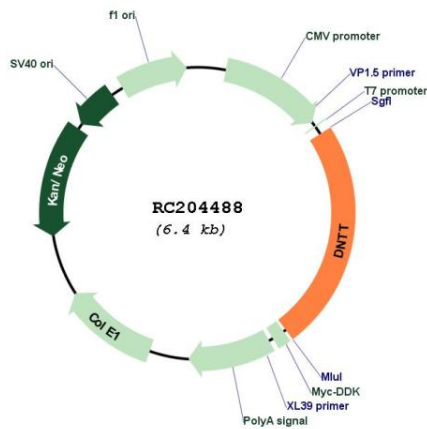
Cytogenetics: 10q24.1

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

MW: 58.4 kDa

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]

Product images:



Circular map for RC204488