

Product datasheet for **RG204488**

TdT (DNNT) (NM_001017520) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | TdT (DNNT) (NM_001017520) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | TdT |
| Synonyms: | TDT |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG204488 representing NM_001017520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATCCACCACGAGCGTCCCCTTGGCCCTCGGAAGAAGAGACCCCGCAGACGGGTGCCTTGTATGG
 CCTCCTCTCCTCAAGACATCAAATTTCAAGATTTGGTCGCTTTCATTTTGGAGAAGAAAATGGGAACCAC
 CCGCAGAGCGTTCCTCATGGAGCTGGCCCGCAGAAAAGGTTTCAGGGTTGAAAATGAGCTCAGTGATTCT
 GTCACCCACATTGTAGCAGAGAACAACCGGGTTCGGATGTTCTGGAGTGGCTTCAAGCAGACAAAAGTAC
 AAGTCAGCTCACAAACAGAGCTCCTCGATGTCTCTGGCTGATCGAATGCATAGGAGCAGGGAAACCGGT
 GGAAATGACAGGAAAACACCAGCTTGTGTGAGAAGAGACTATTCAGATAGCACCAACCCAGGCCCCCGG
 AAGACTCCACCAATTGCTGTACAAAAGATCTCCAGTATGCGTGTGAGAGAAGAACCACTTTAAACAAC
 GTAACCAGATATTCACGGATGCCTTTGATATACTGGCTGAAAACGTGAGTGTAGAGAAAATGAAGACTC
 CTGTGTGACATTTATGAGAGCAGCTTCTGTATTGAAATCTCTGCCATTCACAATCATCAGTATGAAGGAC
 ACAGAAGGAATTCCTGCCTGGGGTCCAAGGTGAAGGGTATCATAGAGGAGATTATTGAAGATGGAGAAA
 GTTCTGAAGTTAAAGCTGTGTTAAATGATGAACGATATCAATCCTTCAAACCTTTTACTTCTGTATTTGG
 AGTGGGGCTGAAGACTTCTGAGAAGTGGTTCAGGATGGGTTTCAGAACTCTGAGTAAAGTAAAGTTCGGAC
 AAAAGCCTGAAATTTACACGAATGCAGAAAAGCAGGATTTCTGTATTATGAAGACCTTGTGAGCTGTGTGA
 CCAGGGCAGAAGCAGAGGCCGTCAGTGTCTGGTTAAAGAGGCTGTCTGGGCATTTCTCCGGATGCTTT
 CGTCACCATGACAGGAGGTTCCGGAGGGTAAAGAATGAGGGCATGATGATATTTTTAATTACCAGC
 CCAGGATCAACAGAGGATGAAGAGCAACTTTTACAGAAAGTGAAGTATGAGTATGGGAAAAGAAGGGATTAC
 TTTTATATTGACCTTGTGGAGTCAACTTTGAAAAGCTCAGGTTGCCTAGCAGGAAGGTTGATGCTTT
 GGATCATTTCAAAAGTCTTTCTGATTTTCAAATTCCTCGTCAAAGAGTGGACAGTGACCAGTCCAGC
 TGGCAGGAAGGAAAGACCTGGAAGGCCATCCGTGTGGATTTAGTTCTGTGCCCTACGAGCGTCTGCCT
 TTGCCCTGTTGGGATGGACTGGCTCCCGCAGTTTGGAGAGACCTCCGGCGCTATGCCACACATGAGCG
 GAAGATGATTCTGGATAACCATGCTTTATATGACAAGACCAAGAGGATATTCCTCAAAGCAGAAAGTGAA
 GAAGAAATTTTGCATCTGGGATTGGATTATATTGAACCGTGGGAAAGAAATGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204488 representing NM_001017520
 Red=Cloning site Green=Tags(s)

MDPPRASHLSPRKKRPRQTGALMASSPQDIKFQDLVVF ILEKKMGTTTRRAFLMELARRKGFVRENELSDS
 VTHIVAENNSGSDVLEWLQAQKVQVSSQPELLDVSWLIEICIGAGKPVEMTGKHQLVVRDYSDSTNPGPP
 KTPPIAVQKISQYACQRRITLNNCNQIF TDAFDILAENCEFRENEDSCVTFMRAASVLKSLPFTIISMKD
 TEGIPCLGSKVKGIIIEEIIEDGESSEVKAVLNDERYQSFKLFTSVFVGLKTSEKWFMRGFRTLSKVRSD
 KSLKFTRMQKAGFLYYEDLVSCVTRAEAEAVSVLVKEAVWAFLPDAFVTMTGGFRRGKMGHDVDFLITS
 PGSTEDEEQLLQKVMNLWEKKGLLLYYDLVESTFEKLRPSRKVDALDHFQKCFLIFKLRQRVSDQSS
 WQEGKTKAIRVDLVLCPYERRAFALLGWTGSRQFERDLRRYATHERKMILDNHALYDKTKRIFLKAES
 EEIFAHLGLDYIEPWERNA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

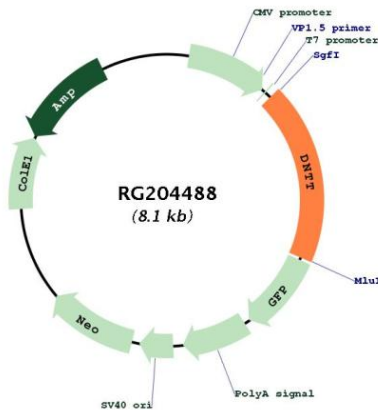


| | |
|-------------------------------|---|
| ACCN: | NM_001017520 |
| ORF Size: | 1527 bp |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally 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: | <ol style="list-style-type: none"> 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]

Product images:



Circular map for RG204488