

Product datasheet for **MG221097**

Dntt (NM_009345) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dntt (NM_009345) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dntt
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:

>MG221097 representing NM_009345
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCCACTGCAAGCAGTCCACCTGGGTCTCGGAAGAAAAGACCCAGGCAGCTGGGCACCCCAGTGG
 CTTCACGCCTTATGACATCCGATTTTCGAGACTTGGTCCTTTCATTTTGGAAAAGAAGATGGGAACAAC
 TCGAAGAGCCTTCTCATGGAGCTGGCCGAAGGAAAGGGTTCAGGGTGGAAAATGAGCTCAGTGATTTCG
 GTCACCCACATTGTGGCAGAGAACAACCTCAGGGTCAGACGTCCTGGAGTGGCTCCAGCTGCAGAACATCA
 AAGCCAGCTCCGAGCTCGAACTCTGGACATCTCTGGCTCATCGAATGCATGGGAGCTGGGAAGCCAGT
 GGAGATGATGGGAGACATCAGCTTGTGTGAATAGAACTCTCCCGAGTCTGTCCCAGGCTCCAG
 AATGTTCCAGCACCTGCTGTGAAGAAGATCTCCAATATGCTTCCAGCGAAGAACCACATTAACAATT
 ACAACCAACTATTCACGGATGCCCTTGATATCCTGGCTGAAAATGATGAGCTTAGAGAGAATGAAGTTC
 TTGCCTGGCATTATGCGAGCGTCTCTGTACTGAAATCTCTGCCATCCCATCACCAGCATGAAAGAC
 ACAGAGGGGATTCTTGCCTAGGGGACAAGGTGAAGATATCATAGAGGGAATTATTGAAGATGGAGAAA
 GTTCTGAAGCTAAAGCTGTGTTAAATGATGAGCGATATAAATCCTTCAAACCTTTTACCTCTGTGTTTGG
 TGTGGGACTGAAGACAGCTGAGAAATGGTTCAGGATGGGTTTCAGAACTCTCAGCAAAAATACAATCAGAC
 AAAAGCCTGAGGTTTACACAAAATGCAGAAAAGCAGGATTCCTCTACTACGAAGACCTCGTTAGCTGTGTGA
 ACAGGCCAGAAGCCGAGGCTGTCAGCATGCTAGTTAAGGAGGCGGTTGTGACATTTCTCCAGATGCCTT
 GGTACCATGACTGGGGGTTCCGACGGGTAAAGTACTGGACATGATGTAGACTTTCTAATTACCAGC
 CCAGAAGCCACAGAGGATGAAGAGCAGCAGCTCTTGCATAAAGTGACAGACTTTTGAAGCAGCAGGGGT
 TGCTTTTGTACTGCGACATCTTAGAGTCAACCTTTGAAAAGTTCAAGCAGCCAGCAGGATGGATGC
 TCTCGACCATTTCCAGAAATGCTTCTGATTCTGAAGCTGGACCACGGGAGAGTGCACAGCGAGAAGAGC
 GGCCAGCAGGAAGGAAAGGGCTGGAAGGCCATCCGTGTAGATCTGGTCATGTGCCCTATGATCGCCGGG
 CCTTCGCCTGCTTGGATGGACCGGCTCCAGACAGTTTGGAGAGACTTGCGGCGCTATGCCACACACGA
 GAGGAAGATGATGCTGGACAACCACGCCCTGTATGACAGGACTAAGGGGAAGACTGTCACGATTTACCT
 TTGGATGGGAAAGTGTCAAACTACAGAAAGCCTTGGGGTGTTCCTTGAAGCAGAAAAGTGAAGAAGAGA
 TCTTTGCCATCTGGGACTGGACTACATTGAACCATGGGAAAGAATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221097 representing NM_009345
 Red=Cloning site Green=Tags(s)

MDPLQAVHLGPRKKRPRQLGTPVASTPYDIRFDLVLFIEKKMGTTTRRAFLMELARRKGFVRENELSDS
 VTHIVAENNSGSDVLEWLQLQNIKASSELELLDISWLIIECMGAGKPVEMMGRHQLVNNRNSPSPVPGSQ
 NVPAPAVKKISQYACQRRITLNNYNQLFTDALDILAENDELRENEGSCLAFMRASSVLKSLPFPITSMKD
 TEGIPCLGDKVKSIIEGIIEDGESSEAKAVLNDERYKSFKLFTSVFVGLKTAEKWFRMGFRTLSKIQSD
 KSLRFTQMOKAGFLYYEDLVSCVNRPEAEAVSMLVKEAVVTFPLDALVTMTGGFRRGKMTGHDVDFLITS
 PEATEDEEQQLLHKVTDVFWKQGLLLYCDILESTFEKFKQPSRKVDALDHFQKCFLLKLDHGRVHSEKS
 GQQEGKGWKAIRVDLVMCPYDRRAFALLGWTGSRQFERDLRRYATHERKMMLDNHALYDRTKGKTVTISP
 LDGKVS KLQKALRVFLEAESEEEIF AHLGLDYIEPWENA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_009345

ORF Size: 1590 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_009345.2](#), [NP_033371.2](#)

RefSeq Size: 2133 bp

RefSeq ORF: 1593 bp

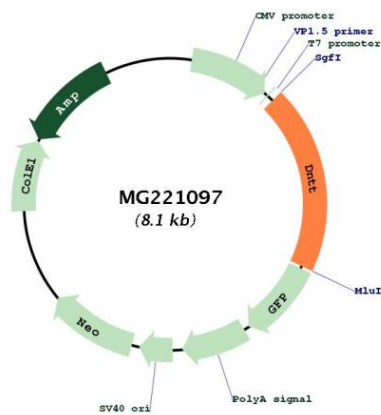
Locus ID: 21673

UniProt ID: [P09838](#)

Cytogenetics: 19 34.32 cM

Gene Summary: Isoform TDT-S: Transferase that catalyzes the nontemplated addition of nucleoside triphosphate to coding ends during V(D)J recombination (N addition). Involved in the generation of diversity in the antigen-binding region of immunoglobulin heavy and light chains and T-cell receptors during B-and T-cell development. Does not act on double-stranded DNA with blunt ends.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221097