

Product datasheet for **MR221098**

Dntt (NM_001043228) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dntt (NM_001043228) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dntt
Synonyms:	Tdt
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR221098 representing NM_001043228
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATCCACTGCAAGCAGTCCACCTGGGTCTCGGAAGAAAAGACCCAGGCAGCTGGGCACCCAGTGG
 CTTCACGCCTTATGACATCCGATTTTCGAGACTTGGTCCTTTCATTTTGGAAAAGAAGATGGGAACAAC
 TCGAAGAGCCTTCTCATGGAGCTGGCCGAAGGAAAGGGTTCAGGGTGGAAAATGAGCTCAGTGATTTCG
 GTCACCCACATTGTGGCAGAGAACAACCTCAGGGTCAGACGTCCTGGAGTGGCTCCAGCTGCAGAACATCA
 AAGCCAGCTCCGAGCTCGAACTCTGGACATCTCTGGCTCATCGAATGCATGGGAGCTGGGAAGCCAGT
 GGAGATGATGGGAGACATCAGCTTGTGTGAATAGAACTCTCCCGAGTCTGTCCCAGGCTCCAG
 AATGTTCCAGCACCTGCTGTGAAGAAGATCTCCAATATGCTTCCAGCGAAGAACCACATTAACAATT
 ACAACCAACTATTCACGGATGCCCTTGATATCTGGCTGAAAATGATGAGCTTAGAGAGAATGAAGTTC
 TTGCCTGGCATTATGCGAGCGTCTCTGTACTGAAATCTCTGCCATCCCATCACCAGCATGAAAGAC
 ACAGAGGGGATTCTTGCCTAGGGGACAAGGTGAAGAGTATCATAGAGGGAATTATTGAAGATGGAGAAA
 GTTCTGAAGCTAAAGCTGTGTTAAATGATGAGCGATATAAATCCTTCAAACCTTTACCTCTGTGTTTGG
 TGTGGGACTGAAGACAGCTGAGAAATGGTTCAGGATGGGTTTCAGAACTCTCAGCAAAATACAATCAGAC
 AAAAGCCTGAGGTTTACACAAATGCAGAAAAGCAGGATTCCTCTACTACGAAGACCTCGTTAGCTGTGTGA
 ACAGGCCAGAAGCCGAGGCTGTCAGCATGCTAGTTAAGGAGGCGGTTGTGACATTTCTCCAGATGCCTT
 GGTACCATGACTGGGGGTTCCGACGGGTAAAGTACTGGACATGATGTAGACTTTCTAATTACCAGC
 CCAGAAGCCACAGAGGATGAAGAGCAGCAGCTCTTGCATAAAGTACAGACTTTTGAAGCAGCAGGGGT
 TGCTTTTGTACTGCGACATCTTAGAGTCAACCTTTGAAAAGTTCAAGCAGCCAGCAGGAAGTGGATGC
 TCTCGACCATTTCCAGAAATGCTTCTGATTCTGAAGCTGGACCACGGGAGAGTGCACAGCGAGAAGAGC
 GGCCAGCAGGAAGGAAAGGGCTGGAAGGCCATCCGTGTAGATCTGGTCATGTGCCCTATGATCGCCGGG
 CCTTCGCCTGCTTGGATGGACCGGCTCCAGACAGTTTGGAGAGACTTGCGGCGCTATGCCACACACGA
 GAGGAAGATGATGCTGGACAACCAGCCCTGTATGACAGGACTAAGAGGGTGTTCCTTGAAGCAGAAAGT
 GAAGAAGAGATCTTTCATCTGGGACTGGACTACATTGAACCATGGGAAGAAATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221098 representing NM_001043228
 Red=Cloning site Green=Tags(s)

MDPLQAVHLGPRKKRPRQLGTPVASTPYDIRFRDLVLFIEKKMGTTTRRAFLMELARRKGRFVENELSDS
 VTHIVAENNSGSDVLEWLQLQNIKASSELELLDISWLEICMGAGKPVEMMGRHQLVNNRNSPSPVPGSQ
 NVPAPAVKKISQYACQRRRTLLNRYNQLFTDALDILAENDELRENEGSCLAFMRASSVLKSLPFPITSMKD
 TEGIPCLGDKVKSIIIEGIEEDGESSEAKAVLNDERYKSFKLFTSVFGVGLKTAEKWFRMGFRTLKIQSD
 KSLRFTQMOKAGFLYYEDLVSCVNRPEAEAVSMLVKEAVVTFPLDALVTMTGGFRRGKMTGHDVDFLITS
 PEATEDEEQQLLHKVDFWVQQLLLYCDILESTFEKFKQPSRKVDALDHFQKCFILKLDHGRVHSEKS
 GQQEGKGWKAIRVDLVMCPYDRRAFALLGWTGSRQFERDLRRYATHERKMMLDNHALYDRTKRVFLEAES
 EEEIFAHGLDYEIPWERNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

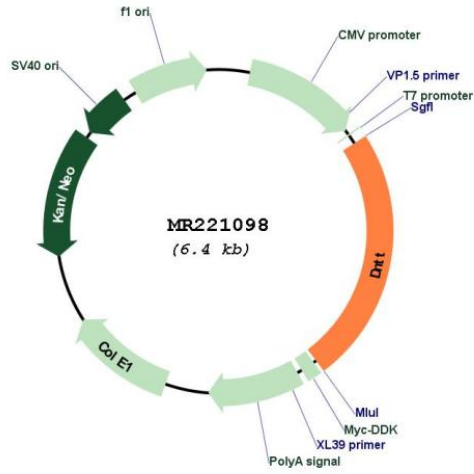
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001043228

ORF Size: 1530 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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_001043228.1 , NP_001036693.1
RefSeq Size:	2073 bp
RefSeq ORF:	1533 bp
Locus ID:	21673
UniProt ID:	P09838
Cytogenetics:	19 34.32 cM
MW:	58.7 kDa
Gene Summary:	<p>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]</p>