

Product datasheet for **RR207362**

Dntt (NM_001012461) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dntt (NM_001012461) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dntt
Synonyms:	MGC109152
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207362 representing NM_001012461
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATCCCGTGCAGCAGTCCACCTGGGTCTCGGAAGAAGAGACCAGGCAGACGGGCGCCTCAGGGG
 CCTCCACACCTCAGCATCCGATTTTCGAGACTTGGTCTCTTCAATTTTGAGAAGAAGATGGGAACAAC
 TCGAAGAGCCTTCTCATGGAGCTGGCCGAAGAAAGGGTTCAGGGTGGAAAATGAGCTCAGTACTCT
 GTCACCCACATCGTGGCAGAGAACAACCGGGATCCGACGTCCTGGAGTGGCTCCAGCTACAGAATCA
 AAGCCAGCTCTGAGTTCGAACTCTGGACATCTCTGGCTGATTGAATGCATGGGAGCCGGAAACCGGT
 GGAGATGGCGGGGAGACATCAGCTCGTTGTGAGAAGAAACCTTCCCTGAGTCTGTCCCAGGCTCCAG
 ACCGTTCCGCCACCTCTCATGCAGAAGATCTCCAGTACGCTTGCAGCGGAGAACCACATTGAACAATC
 ACAACCAACTATTCACGGATGCGTTTGATATCCTGGCTGAAAATTATGAGTTTAGAGAGAATGAAGTTTC
 TTGTCTGCCATTCATGCGAGCTGCCTCTGTACTGAAATCTCTGTCCTTCCCATCGTCAGCATGAAAGAC
 ATAGAGGGAAATCCTTGCTAGGGGACAAGGTGAAGTGTGCATAGAGGGAAATATTGAAGATGGAGAAA
 GTTCTGAAGTGAAGCTGTGTTAAATGATGAGCGATATAAATCCTTCAAACCTTTACATCTGTGTTTGG
 CGTGGGACTGAAGACAGCTGAGAAATGGTTCAGGATGGGGTTCAGAACTCTCAGCAAAAATAAAGTCAGAC
 AAAAGCCTGAGGTTACACACATGCAGAAAAGCAGGGTTCCTCTACTATGAAGACCTCGTTAGCTGTGTGA
 ACAGGGCAGAAGCAGAGGCCGTCAGCATGCTAGTTAAGGAGGCAGTTGTGGCATTCTTCCAGATGCCTT
 GGTACCATGACTGGGGGTTCCGACGGGTAAAGTACCAGGACATGACGTAGACTTTCTAATTACCAGC
 CCAGAAGCCACAGAGGAAGAAGAGCAGCAGCTCTTGCATAAAGTAACAACTTTTGAGACAGCAGGGGT
 TGCTTTTGTACTGCGACATCATAGAGTCGACCTTTGAAAAGTTCAAGCTGCCAGCAGGAAGGTGGACGC
 CCTCGTCACTTCCAGAAGTGTTCCTTATTCTGAAGCTGCACCGTGGCCTAGTGCGCAGCGAGGAGAGC
 GGCCAGCAGGAAGGAAAGGACTGGAAGGCCATCCGTGTAGATCTGGTCATGTGCCCTATGAGCGCCGGG
 CCTTCGCCCTGCTCGGGTGGACTGGATCCAGGCAATTTGAGAGAGACTTGCGGCGCTACGCCACACACGA
 GCGGAAGATGATGCTGGACAACCAGCTCTGTATGACAAGACCAAGAGGGTGTTCCTTGAAGCAGAAAGT
 GAAGAAGAGATCTTGGCCATCTGGGATTGGACTACATTGAACCATGGGAAGAAATGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207362 representing NM_001012461
 Red=Cloning site Green=Tags(s)

MDPLQAVHLGPRKKRPRQTGASGASTPHDIRFRDLVLFIEKKMGTTTRRAFLMELARRKGRFVENELSDS
 VTHIVAENNSGSDVLEWLQLQNIKASSEFELDISWLIECMGAGKPVEMAGRHLVVRNPSLSPVPGSQ
 TVPPPLMQKISQYACQRRRTTLNHNQLFTDAFDILAENYEFRENEVSCLPFMRAASVLKLSFPPIVSMKD
 IEGIPCLGDKVKVIEGIIEDGESSEVKAVLNDERYKSFKLFTSVFGVGLKTAEKWFRMGFRTLKIKSD
 KSLRFTHMQKAGFLYYEDLVSCVNRAEAEAVSMLVKEAVVAFLPDALVTMTGGFRRGKMTGHDVDFLITS
 PEATEEEEEQLLHKVTNFWRQQGLLLYCDIIESTFEKFKLPSRKVDALDHFQKCFILKLRGLVLRSEES
 GQQEGKDWKAIRVDLVMCPYERRAFALLGWTGSRQFERDLRRYATHERKMMLDNHALYDKTKRVFLEAES
 EEEIFAHGLDYEIPWERNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

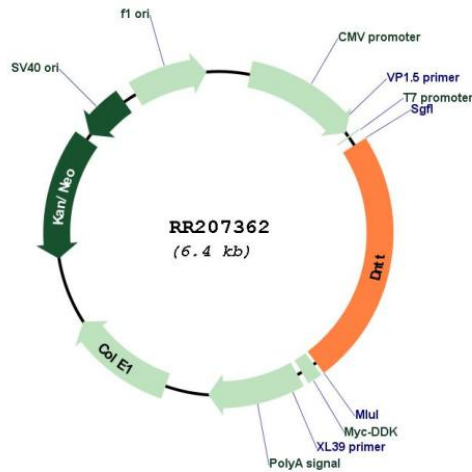
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001012461

ORF Size: 1530 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_001012461.1](#), [NP_001012479.1](#)

RefSeq Size: 1851 bp

RefSeq ORF: 1533 bp

Locus ID: 294051

Cytogenetics: 1q54

MW: 58.5 kDa