

Product datasheet for MR204812

Dnttip1 (NM_133763) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnttip1 (NM_133763) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnttip1
Synonyms:	6430706C13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204812 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGCGACTGGCGACCCGAGCAGCCGCGGGGCCCGGGGCGGAGCGAGGTGGCCTGGAGCTGG
GCGACGCGGGCGCGGGGCCAGCCGTTCTCACGAACCCTTGGAAACATAATGATAAAAACATCGGCAGGT
GCAGCGAAGGGCCGCCGATCTCAGATGACCACAAGTTTCACAGACCCAGCCATCTCTATGGATCTCCTC
CGTGCTGTCTGCAGCCTAGCATCAATGAGGAGATCCAGGGTGTCTTCAACAAGTACATGAAGTTCTTCC
AGAAGGCAGCGCTGAATGTGCGAGACAATGTTGGGAAGAAGTGGACGCAGAGCAGTTGATTCAGGAGGC
CTGCCGACGCTGCCTGGAGCAGGCAAAGCTGCTCTTTCTGATGGAGAGAAAGTGATACCCAGATTGGCC
CATGAGCTTCCAGGGATCAAGCGGGGCCGCAAGCAGAAGAGGAGTCCCACCGAGGAAGCCCCATCCCCA
AAAAGAGGAAAGGTGGCCTCCTGGACACGTCCTGTCAAATGACCGCGCAGCTGCTGGCATGGTATGGAA
ACAAAAATCCTGTGAACCAATTCGCCGAGAAGGCCCAAGTGGGACCCAGCTCGGCTGAATGAATCTACC
ACCTTTGTTTTGGGGTCTCGAGCCAACAAGGCCTTGGGGATGGGAGGCCAGAGGGAGAATCTACATCA
AGCACCCACACCTCTTTAAGTATGCAGCAGATCCTCAGGACAAGCACTGGCTGGCTGAGCAGCATCAT
GCGGGCAACAGGGGAAAGATGGCGTACCTTCTATTGAAGAAGACATCCGGGACTTGGCTGCCAGCGAT
GACTACAGAGGATGCTTGGACCTGAAGTTGGAGGAGCTGAAATCCTTTGTTCTGCCATCCTGGATGGTTG
AGAAGATGCGGAAATACATGGAGACACTGCGGACAGAAAATGAGCACCGCGCTGCCGAAGCGCCTCCCCA
GACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204812 protein sequence
Red=Cloning site Green=Tags(s)

MGATGDTEQPRGPGAERGGLELDAGAAGQPVL TNPWNIMIKHRQVQRRGRSSQMTTSFTDPAISMDLL
RAVLQPSINEEIQGVFNKYMKFFQKAALNVRDNGEEDAEQLIQEACRSCLEQAKLLFSDGKVIPRLA
HELPGIKRGRQAEESHARGSPIPKKRKGRPPGHVLSNDRAAAGMVWVKQSCEPIRREGPKWDPARLNEST
TFVLGSRANKALGMGGTRGRIYIKHPLFKYAADPQDKHWLAEQHMRATGGKMAYLLIEEDIRDLAASD
DYRGCLDLKLEELKSFVLPSPWVEMRKYMETLRTENEHRAAEAPPQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133763

ORF Size: 987 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_133763.1](#), [NP_598524.1](#)

RefSeq Size: 1257 bp

RefSeq ORF: 987 bp

Locus ID: 76233

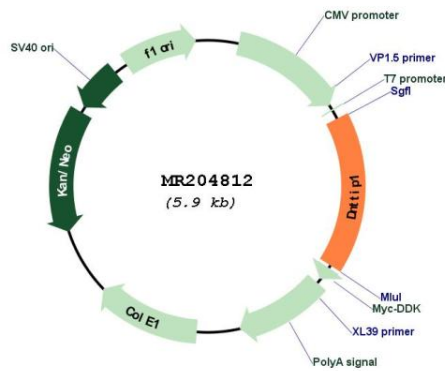
UniProt ID: [Q99LB0](#)

Cytogenetics: 2 H3

MW: 36.9 kDa

Gene Summary: Increases DNTT terminal deoxynucleotidyltransferase activity (in vitro). Also acts as a transcriptional regulator, binding to the consensus sequence 5'-GNTGCATG-3' following an AT-tract. Associates with RAB20 promoter and positively regulates its transcription. Binds DNA and nucleosomes; may recruit HDAC1 complexes to nucleosomes or naked DNA. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204812