

Product datasheet for MR202309

Dtymk (NM_001105667) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dtymk (NM_001105667) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dtymk
Synonyms:	AU044245; CDC8; D10Ertd203e; mtmk; Tmk; TMPK; TYPK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202309 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCGCGTCGGGGAGCGCTCATCGTGTGGAGGGTGTGGACCGTGTGGCAAGACCACGCAGGGCC
TCAAGCTGGTGACCGCGCTGTGCGCCTCGGGCCACAGAGCGGAGCTGTGCGTTTCCCCGAAAGATCAAC
GGAAATCGGCAAGCTTCTGAATTCCTACTTGGAAAAGAAAACGGAAGTACAGGATCACTCCGTGCACCTG
CTCTTCTCTGCAAACCGCTGGGAACAAGTACCATTAATTAAGGCGAAGTTGAACCAGGGTGTGACCTTG
TTTTGGACAGATACGCCTTTTCTGGGGTGCCTTCACTGGTGCCAAAGAGAATTTTCCCTGGATTGGTG
TAAACAACCGGACGTGGGCCTTCCCAAACCTGACCTGATCCTGTTCTTCAAGTTACAATTGCTGGACGCT
GCTGCACGGGGAGAGTTTGGCCTTGAGCGATATGAGACCGGGACTTCCAAAAGCAGGTTCTGTTGTGT
TCCAGCAGCTCATGGAAGAGAAAACCTCAACTGGAAGGTGGTTGATGCTTCCAAAAGCATTGAGGAAAT
CCATAAAGAAATCCGTGCACACTCTGAGGACGCCATCCGAAACGCTGCACAGAGGCCACTGGGGGAGCTA
TGGAAA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202309 protein sequence
Red=Cloning site Green=Tags(s)

MASRRGALIVLEGVDRAGKTTQGLKLVLTALCASGHRAELLRFPERSTEIGKLLNSYLEKKTELEDHSVHL
 LFSANRWEQVPLIKAKLNQGVTLVLDRYAFSGVAFTGAKENFLDWCKQPDVGLPKPDLILFLQLQLLDA
 AARGFGLERYETGTFQKQVLLCFQQLMEEKNLNWKVVDASKSIEEVHKEIRAHSEDAIRNAAQRPLGEL
 WK

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_001105667

ORF Size: 639 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_001105667.1](#), [NP_001099137.1](#)

RefSeq Size: 1006 bp

RefSeq ORF: 639 bp

Locus ID: 21915

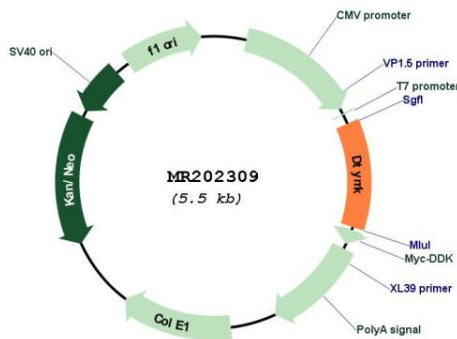
UniProt ID: [P97930](#)

Cytogenetics: 1 47.34 cM

MW: 23.9 kDa

Gene Summary: Catalyzes the conversion of dTMP to dTDP.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202309