

Product datasheet for RC228752

DTYMK (NM_001165031) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DTYMK (NM_001165031) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DTYMK
Synonyms: CDC8; PP3731; TMPK; TYMK
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC228752 representing NM_001165031
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCCCGCGCGGGCTCTCATAGTGTGGAGGGCGTGGACCGCGCCGGAAGAGCACGCAGAGCC
 GCAAGCTGGTGAAGCGCTGTGCGCCGCGGCCACCGCGCGAACTGCTCCGGTCCCGAAAGATCAAC
 TGAATCGGCAACTTCTGAGTTCCTACTTGC AAAAGAAAAGTGACGTGGAGGATCACTCGGTGCACCTG
 CTTTTTCTGCAATCGCTGGGAACAAGTGCCGTTAATTAAGGAAAAGTTGAGCCAGGGCGTGACCTCG
 TCGTGGACAGATACGCATTTTCTGGTGTGGCCTTCACCGGTGCCAAGGAGTTACAGCTGGCGGATGCTGC
 CAAGCGGGGAGCGTTTGGCCATGAGCGCTATGAGAACGGGGCTTCCAGGAGCGGGCGCTCCGGTGTTC
 CACCAGCTCATGAAAGACACGACTTTGAACTGGAAGATGGTGGATGCTTCCAAAAGCATCGAAGCTGCC
 ATGAGGACATCCGCGTGCTCTCTGAGGACGCCATCCGCACTGCCACAGAGAAGCCGCTGGGGGAGCTATG
 GAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228752 representing NM_001165031
 Red=Cloning site Green=Tags(s)

MAARRGALIVLEGVDRAGKSTQSRKLV EALCAAGHRAELLRFPERSTEIGKLLSSYLQKKS DVEDHSVHL
 LFSANRWEQVPLIKEKLSQGVTLVVDRYAFSGVAFTGAKELQLADAAKRGAFGHERYENGAFQERALRCF
 HQLMKDITL NWK MVDASKSIEAVHEDIRVLS EDAIRTATEKPLGELWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/ja1510_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001165031

ORF Size: 564 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.

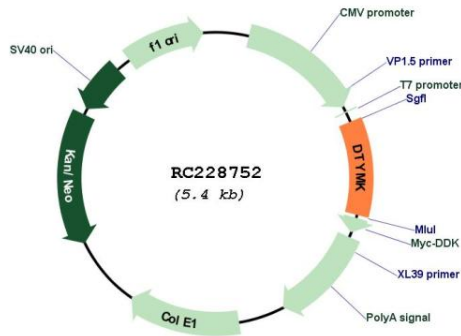
RefSeq: [NM_001165031.2](#)

RefSeq ORF: 567 bp

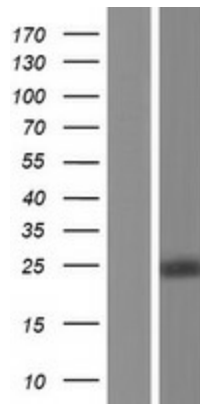
Locus ID: 1841

UniProt ID: [P23919](#)

Cytogenetics: 2q37.3
Protein Families: Druggable Genome
Protein Pathways: Metabolic pathways, Pyrimidine metabolism
MW: 20.9 kDa
Gene Summary: Catalyzes the conversion of dTMP to dTDP.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RC228752



Western blot validation of overexpression lysate (Cat# [LY431780]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228752 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).