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Product datasheet for RC202876

NMT2 (NM_004808) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NMT2 (NM_004808) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NMT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC202876 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGGACAGCGAGTCTGCGGCCAGCCAGCAGAGCCTGGAACTGGACGACCAGGACACGTGCGGGA
TAGACGGGGACAATGAGGAGGAGACGGAGCACGCCAAAGGAAGTCCTGGAGGGTATTTGGGAGCCAAAAA
GAAAAAGAAGAAACAGAAGAGAAAAAAGGAGAAACCAAATTCCGGAGGCACCAAGTCAGACTCGGCATCT
GATTCCCAGGAGATTAAAATTCAGCAGCCTTCGAAAAATCCCAGTGTTCCAATGCAGAAGTTGCAGGATA
TCCAGAGAGCAATGGAGCTGCTATCCGCATGCCAGGGCCCAGCCAGGAACATTGATGAGGCTGCAAAGCA
CAGATACCAGTTTTGGGACACACAACCGGTACCAAAACTAGATGAAGTCATAACATCTCATGGTGCAATT
GAACCAGATAAAGACAACGTACGCCAAGAACCGTATTCTTTGCCACAGGGTTTTATGTGGGACACTTTAG
ACTTGAGTGATGCCGAAGTGCTCAAGGAGTTATACACGTTGTTAAATGAGAATTACGTAGAAGATGATGA
CAATATGTTCCGATTTGACTATTCACCCGAGTTCCTGTTGTGGGCTCTGCGTCCACCAGGCTGGCTCCTG
CAGTGGCACTGTGGGGTCAGAGTGTCTTCAAATAAAAAACTGGTCGGGTTCATAAGTGCCATCCCAGCAA
ACATTCGGATTTATGACAGTGTGAAGAAGATGGTAGAAATCAACTTTCTTTGTGTTCATAAGAAGTTGAG
ATCGAAACGGGTAGCCCCAGTGCTAATCCGAGAGATCACTAGAAGAGTGAACCTGGAAGGGATCTTCCAG
GCTGTGTACACCGCGGGAGTGGTTCTTCCTAAGCCCATAGCCACATGCAGATACTGGCATCGATCACTAA
ACCCCAAAAAATTGGTAGAAGTGAAATTTTCTCACTTGAGTAGAAATATGACTTTACAGAGAACAATGAA
GCTATACAGACTTCCAGATGTTACAAAGACTTCAGGTTTGAGACCAATGGAACCAAAAGATATCAAATCA
GTTCGAGAATTAATCAACACTTACCTGAAGCAGTTTCATCTGGCTCCAGTGATGGATGAAGAGGAAGTAG
CCCACTGGTTCCTCCCCCGGGAGCACATTATTGACACGTTTGTAGTGGAGAGCCCCAACGGTAAACTGAC
TGATTTCCTGAGCTTCTATACGCTCCCCTCCACGGTGATGCACCACCCTGCTCACAAGAGCCTCAAAGCC
GCCTACTCATTCTACAACATCCACACAGAGACGCCCCTGCTGGACCTCATGAGCGACGCGCTCATCCTGG
CTAAATCGAAAGGATTTGATGTATTCAATGCACTGGATTTGATGGAAAATAAGACATTCTTGGAAAAACT
CAAGTTTGGTATAGGAGATGGCAATTTGCAGTATTACCTGTACAATTGGAGGTGTCCAGGTACAGATTCT
GAAAAGGTTGGACTAGTACTACAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202876 protein sequence
Red=Cloning site Green=Tags(s)

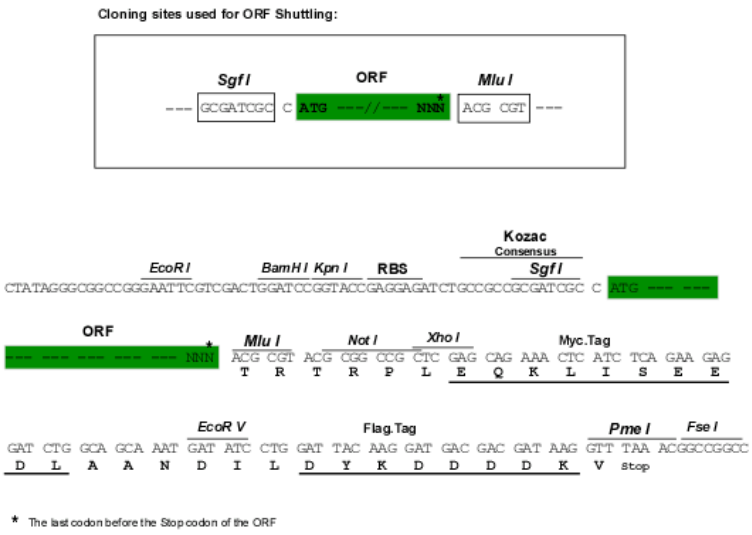
MAEDSESAASQQSLELDDQDTCGIDGDNEEETEHAKGSPGGYLGAKKKKKKQKRKKEKPNSGGTKSDSAS
DSQEIKIQQPSKNPSVPMQKLQDIQRAMELLSACQGPARNIDEAAKHRYQFWDTQPVPKLDEVITSHGAI
EPDKDNVRQEPYSLPQGFMWDTLDLSDAEVLKELYTLLNENYVEDDDNMFRFDYSPEFLLWALRPPGWLL
QWHCGVRVSSNKKLVGFISAIPANIRIYDSVKKMVEINFLCVHKKLRSKRVAPVLIREITRRVNLEGIFQ
AVYTAGVVLPKPIATCRYWHRSLNPKKLVEVKFSHLSRNMTLQRTMKLYRLPDVTKTSGLRPMEPKDIKS
VRELINTYLKQFHLAPVMDEEEVAHWFLPREHIIDTFVVESPNGKLTDFLSFYTLPSTVMHHPAHKSLKA
AYSFYNIHTETPLLDLMSDALILAKSKGFDVFNALDLMENKTFLEKLKFGIGDGNLQYYLYNWRCPGTDS
EKVGLVLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6076_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004808

ORF Size: 1494 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_004808.3

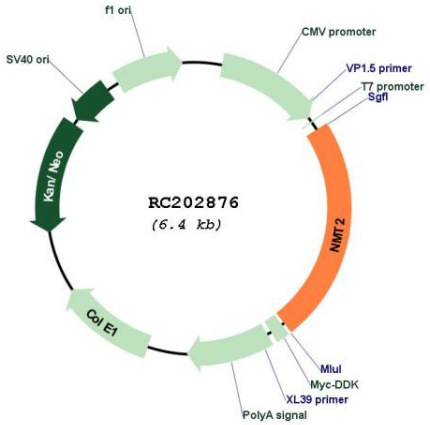
RefSeq Size: 5004 bp

RefSeq ORF: 1497 bp

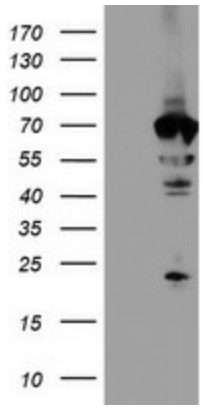
Locus ID: 9397

UniProt ID:	O60551
Cytogenetics:	10p13
Domains:	NMT
Protein Families:	Druggable Genome
MW:	57 kDa
Gene Summary:	This gene encodes one of two N-myristoyltransferase proteins. N-terminal myristoylation is a lipid modification that is involved in regulating the function and localization of signaling proteins. The encoded protein catalyzes the addition of a myristoyl group to the N-terminal glycine residue of many signaling proteins, including the human immunodeficiency virus type 1 (HIV-1) proteins, Gag and Nef. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

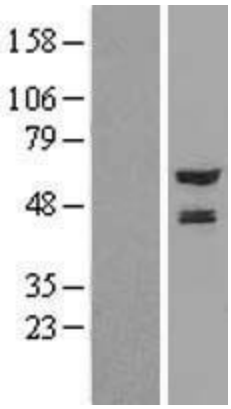
Product images:



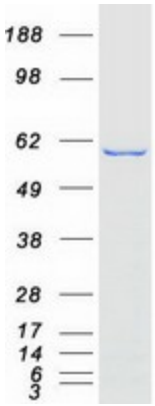
Circular map for RC202876



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NMT2 (Cat# RC202876, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NMT2(Cat# [TA504158]). Positive lysates [LY417742] (100ug) and [LC417742] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417742]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202876 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NMT2 protein (Cat# [TP302876]). The protein was produced from HEK293T cells transfected with NMT2 cDNA clone (Cat# RC202876) using MegaTran 2.0 (Cat# [TT210002]).