

Product datasheet for **RC221832**

DNMT3A (NM_175630) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DNMT3A (NM_175630) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DNMT3A
Synonyms: DNMT3A2; HESJAS; M.HsaIIIA; TBRS
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC221832 representing NM_175630
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGCATGCCCTCCAGCGGCCCGGGGACACCAGCAGCTCTGCTGCGGAGCGGGAGGAGGACCGAA
 AGGACGGAGAGGAGCAGGAGGAGCCGCGTGGAAGGAGGAGCGCCAAGAGCCAGCACCGGCACGGAA
 GGTGGGGCGGCCGGGAGGAAGCACAAGCACCCCGGTGAAAGCGGTGACACGCCAAAGGACCCTGCG
 GTGATCTCCAAGTCCCCATCCATGGCCAGGACTCAGGCGCTCAGAGCTATTACCAATGGGGACTTGG
 AGAAGCGGAGTGAGCCCCAGCCAGAGGAGGGGAGCCCTGCTGGGGGCGAGAAGGGCGGGGCCCCAGCAGA
 GGGAGAGGGTGCAGCTGAGACCCTGCCTGAAGCCTCAAGAGCAGTGGAAAATGGCTGCTGCACCCCAAG
 GAGGGCCGAGGAGCCCTGCAGAAGCGGGTGAATCCTCAGCACCAGGGGCAGCCTCTTCTGGGCCACCA
 GCATACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221832 representing NM_175630
 Red=Cloning site Green=Tags(s)

MPAMPSSGPGDTSSSAEREEDRKGEEQEPRGKEERQEPSTTARKVGRPGRKRKHPVESGDTPKDPA
 VISKSPSMAQDSGASELLPNGDLEKRSEPQPEEGSPAGGQKGGAPAEGEAAETLPEASRAVENGCCTPK
 EGRGAPAEAGESSAPGAASSGPTSIP

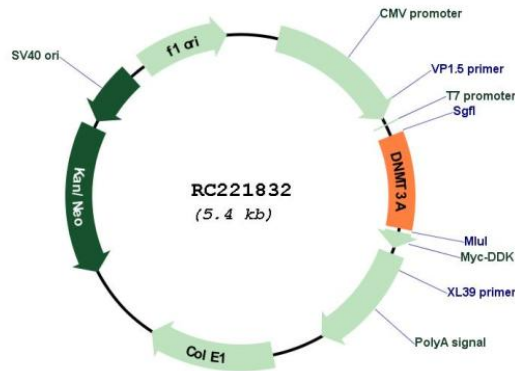
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_175630

ORF Size: 498 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:	<ol style="list-style-type: none">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_175630.1 , NP_783329.1
RefSeq Size:	1808 bp
RefSeq ORF:	501 bp
Locus ID:	1788
UniProt ID:	Q9Y6K1
Cytogenetics:	2p23.3
Protein Families:	Druggable Genome
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways
MW:	16.7 kDa
Gene Summary:	CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a DNA methyltransferase that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. [provided by RefSeq, Mar 2016]