

Product datasheet for **RG213064**

DNMT3A (NM_022552) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNMT3A (NM_022552) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNMT3A
Synonyms:	DNMT3A2; HESJAS; M.HsaIIIA; TBRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213064 representing NM_022552
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCGCATGCCCTCCAGCGGCCCGGGACACCAGCAGCTCTGCTGCGGAGCGGGAGGAGACCAGAA
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 TGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213064 representing NM_022552
 Red=Cloning site Green=Tags(s)

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MPAMPSSGPGDTSSSAAEREEDRKDGEEQEPRGKEERQEPSTTARKVGRPGRKRKHPPVESGDTPKDPA
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EGRGAPAEAGKEQKETNIESMKMEGSRGRLRGLGWESSLRQRPMPRLTFQAGDPYYISKRKRDEWLARW
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CV
  
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

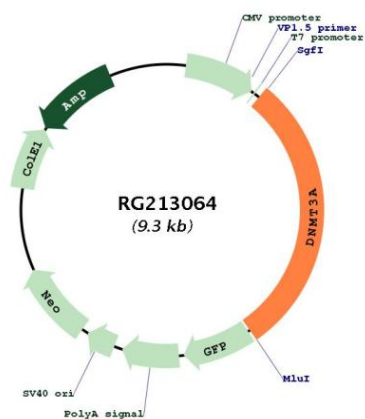
Cloning Scheme:



ACCN: NM_022552

ORF Size:	2736 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_022552.5
RefSeq Size:	4314 bp
RefSeq ORF:	2739 bp
Locus ID:	1788
UniProt ID:	Q9Y6K1
Cytogenetics:	2p23.3
Protein Families:	Druggable Genome
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways
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]

Product images:



Circular map for RG213064