

Product datasheet for **RG221832**

DNMT3A (NM_175630) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DNMT3A (NM_175630) 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)
ORF Nucleotide Sequence: >RG221832 representing NM_175630
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGCCATGCCCTCCAGCGGCCCGGGGACACCAGCAGCTCTGCTGCGGAGCGGGAGGAGGACCGAA
 AGGACGGAGAGGAGCAGGAGGAGCCGCGTGCCAAGGAGGAGCGCCAAGAGCCCAGCACCACGGCACGGAA
 GGTGGGGCGGCCGGGAGGAAGCGCAAGCACCCCGGTGAAAGCGGTGACACGCCAAAGGACCTGCG
 GTGATCTCCAAGTCCCCATCCATGGCCAGGACTCAGGCGCTCAGAGCTATTACCCAATGGGACTTGG
 AGAAGCGGAGTGAGCCCCAGCCAGAGGAGGGGAGCCCTGCTGGGGGCAGAAGGGCGGGGCCCCAGCAGA
 GGGAGAGGGTGCAGCTGAGACCCTGCCTGAAGCCTCAAGAGCAGTGGAAAATGGCTGCTGCACCCCAAG
 GAGGGCCGAGGAGCCCTGCAGAAGCGGTGAGTCTCAGCACCAGGGGCAGCCTCTTCTGGGCCACCA
 GCATACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221832 representing NM_175630
 Red=Cloning site Green=Tags(s)
 MPAMPSSGPGDTSSSAEREEDRKDGEEQEPRGKEERQEPSTTARKVGRPGRKRKHPPVESGDTPKDPA
 VISKSPSMAQDSGASELLPNGDLEKRSEPPQPEEGSPAGGQKGGAPAEGEAAETLPEASRAVENGCCTPK
 EGRGAPAEAGESSAPGAASSGPTSIP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<u>NM_175630.1, NP_783329.1</u>
RefSeq Size:	1808 bp
RefSeq ORF:	501 bp
Locus ID:	1788
UniProt ID:	<u>Q9Y6K1</u>
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]