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Product datasheet for RG200187

DNMT3L (NM_013369) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNMT3L (NM_013369) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNMT3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200187 representing NM_013369 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGCCATCCCAGCCCTGGACCCAGAGGCCGAGCCCAGCATGGACGTGATTTTGGTGGGATCCAGTG AGCTCTCAAGCTCCGTTTCACCCGGGACAGGCAGAGATCTTATTGCATATGAAGTCAAGGCTAACCAGCG AAATATAGAAGACATCTGCATCTGCTGCGGAAGTCTCCAGGTTCACACACAGCACCCTCTGTTTGAGGGA GGGATCTGCGCCCCATGTAAGGACAAGTTCCTGGATGCCCTCTTCCTGTACGACGATGACGGGTACCAAT CCTACTGCTCCATCTGCTGCTCCGGAGAGACGCTGCTCATCTGCGGAAACCCTGATTGCACCCGATGCTA CTGCTTCGAGTGTGTGGATAGCCTGGTCGGCCCCGGGACCTCGGGGAAGGTGCACGCCATGAGCAACTGG GTGTGCTACCTGTGCCTGCCGTCCTCCCGAAGCGGGCTGCTGCAGCGTCGGAGGAAGTGGCGCAGCCAGC TCAAGGCCTTCTACGACCGAGAGTCGGAGAATCCCCTTGAGATGTTCGAAACCGTGCCTGTGTGGAGGAG ACAGCCAGTCCGGGTGCTGTCCCTTTTTGAAGACATCAAGAAAGAGCTGACGAGTTTGGGCTTTTTGGAA AGTGGTTCTGACCCGGGACAACTGAAGCATGTGGTTGATGTCACAGACACAGTGAGGAAGGATGTGGAGG AGTGGGGACCCTTCGATCTTGTGTACGGCGCCACACCTCCCCTGGGCCACACCTGTGACCGTCCTCCCAG CTGGTACCTGTTCCAGTTCCACCGGCTCCTGCAGTACGCACGGCCCAAGCCAGGCAGCCCCGGGCCCTTC TTCTGGATGTTCGTGGACAATCTGGTGCTGAACAAGGAAGACCTGGACGTCGCATCTCGCTTCCTGGAGA TGGAGCCAGTCACCATCCCAGATGTCCACGGCGGATCCTTGCAGAATGCTGTCCGCGTGTGGAGCAACAT CCCAGCCATAAGGAGCAGGCACTGGGCTCTGGTTTCGGAAGAAGAATTGTCCCTGCTGGCCCAGAACAAG CAGAGCTCGAAGCTCGCGGCCAAGTGGCCCACCAAGCTGGTGAAGAACTGCTTTCTCCCCCTAAGAGAAT ATTTCAAGTATTTTTCAACAGAACTCACTTCCTCTTTA ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

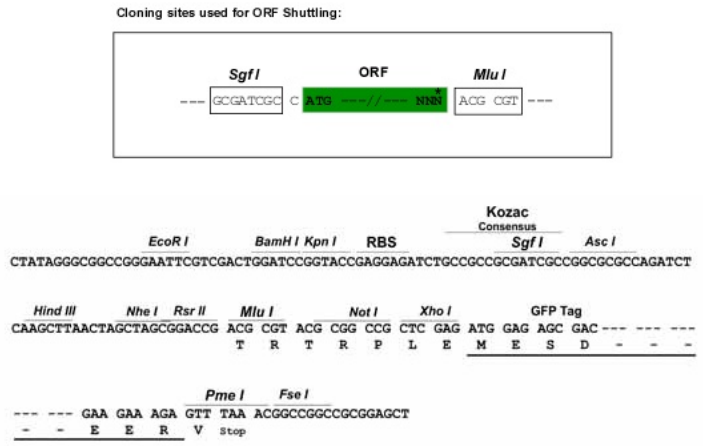
>RG200187 representing NM_013369
Red=Cloning site Green=Tags(s)

MAAIPALDPEAEPSMDVILVGSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSLQVHTQHPLFEG
GICAPCKDKFLDALFLYDDDGYQSYCSICCSGETLLICGNPDCTRCYCFECVDSLVGPGTSGKVHAMSNW
VCYLCLPSSRSGLLQRRRKWRSQLKAFYDRESENPLEMFETVPVWRRQPVRVLSLFEDIKKELTSLGFLE
SGSDPGQLKHVVDVTDTVRKDVEEWGPFDLVYGATPPLGHTCDRPPSWYLFQFHRLLQYARPKPGSPGPF
FWMFVDNLVLNKEDLDVASRFLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSRHWALVSEEELSLLAQNK
QSSKLAAKWPTKLVKNCFLPLREYFKYFSTELTSSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013369

ORF Size: 1158 bp

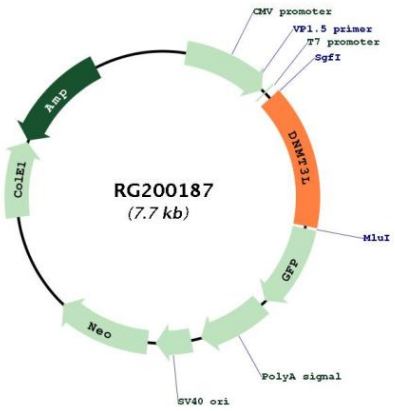
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_013369.2, NP_037501.2
RefSeq Size:	1705 bp
RefSeq ORF:	1164 bp
Locus ID:	29947
UniProt ID:	Q9UJW3
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome, Transcription Factors
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 nuclear protein with similarity to DNA methyltransferases, but is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity. However, it does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and is thought to be required for the establishment of maternal genomic imprints. This protein also mediates transcriptional repression through interaction with histone deacetylase 1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG200187