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Product datasheet for SC319376

DNMT3L (NM_013369) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNMT3L (NM_013369) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNMT3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_013369.2 GGCACGAGGGTGGGCCTGGATCCTTCCAGCTCATTCTTTGCCTGCGCCGTCCCTCGTTCC ATGGCCCAGTCCTCCCCGGGGACCCTGAGCCTGGAAGCCCCGGACCACTGGAACCTTGAA CCCACCAGCTGGCTGTACCCGGAGCCGTGGCAGCAGCCCTCATCCCCATGGCGGCCATCC CAGCCCTGGACCCAGAGGCCGAGCCCAGCATGGACGTGATTTTGGTGGGATCCAGTGAGC TCTCAAGCTCCGTTTCACCCGGGACAGGCAGAGATCTTATTGCATATGAAGTCAAGGCTA ACCAGCGAAATATAGAAGACATCTGCATCTGCTGCGGAAGTCTCCAGGTTCACACACAGC ACCCTCTGTTTGAGGGAGGGATCTGCGCCCCATGTAAGGACAAGTTCCTGGATGCCCTCT TCCTGTACGACGATGACGGGTACCAATCCTACTGCTCCATCTGCTGCTCCGGAGAGACGC TGCTCATCTGCGGAAACCCTGATTGCACCCGATGCTACTGCTTCGAGTGTGTGGATAGCC TGGTCGGCCCCGGGACCTCGGGGAAGGTGCACGCCATGAGCAACTGGGTGTGCTACCTGT GCCTGCCGTCCTCCCGAAGCGGGCTGCTGCAGCGTCGGAGGAAGTGGCGCAGCCAGCTCA AGGCCTTCTACGACCGAGAGTCGGAGAATCCCCTTGAGATGTTCGAAACCGTGCCTGTGT GGAGGAGACAGCCAGTCCGGGTGCTGTCCCTTTTTGAAGACATCAAGAAAGAGCTGACGA GTTTGGGCTTTTTGGAAAGTGGTTCTGACCCGGGACAACTGAAGCATGTGGTTGATGTCA CAGACACAGTGAGGAAGGATGTGGAGGAGTGGGGACCCTTCGATCTTGTGTACGGCGCCA CACCTCCCCTGGGCCACACCTGTGACCGTCCTCCCAGCTGGTACCTGTTCCAGTTCCACC GGCTCCTGCAGTACGCACGGCCCAAGCCAGGCAGCCCCGGGCCCTTCTTCTGGATGTTCG TGGACAATCTGGTGCTGAACAAGGAAGACCTGGACGTCGCATCTCGCTTCCTGGAGATGG AGCCAGTCACCATCCCAGATGTCCACGGCGGATCCTTGCAGAATGCTGTCCGCGTGTGGA GCAACATCCCAGCCATAAGGAGCAGGCACTGGGCTCTGGTTTCGGAAGAAGAATTGTCCC TGCTGGCCCAGAACAAGCAGAGCTCGAAGCTCGCGGCCAAGTGGCCCACCAAGCTGGTGA AGAACTGCTTTCTCCCCCTAAGAGAATATTTCAAGTATTTTTCAACAGAACTCACTTCCT CTTTATAAATGAGTCACTATACTGTGAAGAAAAAGACTTTTCCTAGAACAAAGAAAAAAA AAAAAAAAAAAAAAAAA
Restriction Sites:	Please inquire
ACCN:	NM_013369

View online »

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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] Transcript Variant: This variant (1) encodes the longer isoform (1).