

Recombinant Full Length Human DNMT3B Protein, GST-tagged

Cat. No. DNMT3B-4052HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DNMT3B full-length ORF (NP_787045.1, 1 a.a. - 770 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	770 amino acids
Description	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 which is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes primarily to the nucleus and its expression is developmentally regulated. Mutations in this gene cause the immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. Eight alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined. [provided by RefSeq, May 2011]
Molecular Mass	112.6 kDa
AA Sequence	MKGDTRHLNGEEDAGGREDSILVNGACSDQSSDSPPILEAIRTPAIRGRRSSSRSLK REVSSLLSYTQDLTGDDGDDGSDTPVMPKLFRETRTRSESPAVRTRNNNSVS

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SRERHRPSRSTRGRQGRNHVDESPVEFPATRLRRRATASAGTPWSPSPSSYLT
 DLTDDEDTHGTPQSSSTPYARLAQDSQQGGMESPPQVEADRGDGDSSSEYQDGKE
 FGIGDLVWGKIKGFSWWPAMVVSWKATSKRQAMSGMRWVQWFGDGKFSEVSAD
 KLVALGLFSQHFNLATFNKLVSRYKAMYHALEKARVRAGKTFPSSPGDSLEDQLKP
 MLEWAHGGFKPTGIEGLKPNNTQPENKTRRRRTADDSATSDYCPAPKHLKTNCYNN
 GKDRGDEDQSREQMASDVANNKSSLEDGCLSCGRKNPVSFHPLFEGGLCQTCRD
 RFLELFYMYDDDGYQSYCTVCCEGRELLCSNTSCCRCFCVECLEVLVGTGTAAEA
 KLQEPWSCYMCLPQRCHGVLRRRKDWNVRLQAFFTSDTGLEYEAPKLYPAIPAAR
 RRPIRVLSLFDGIATGYLVKLKELGIKVGKYVASEVCEESIAGTVKHGNIKYVNDVRN
 ITKKNIEEWGPFDLVIGGSPCNDLSNVNPARKGLYEGTGRLFFEFYHLLNYSRPKEG
 DDRPFFWMFENVVAMKVGDKRDISRFLECNPVMIDAIKVSAHRARYFWGNLPGM
 NRIFGFPVHYTDVSNMGRGARQKLLGRSWSVPVIRHLFAPLKDYFACE

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

DNMT3B DNA (cytosine-5-)-methyltransferase 3 beta [Homo sapiens]

Official Symbol

DNMT3B

Synonyms

DNMT3B; DNA (cytosine-5-)-methyltransferase 3 beta; DNA (cytosine-5)-

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methyltransferase 3B; DNA MTase HsaIIIB; DNA methyltransferase HsaIIIB; ICF;
ICF1; M.HsaIIIB;

Gene ID

1789

mRNA Refseq

NM_001207055

Protein Refseq

NP_001193984

MIM

602900

UniProt ID

Q9UBC3

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