

# Recombinant Full Length Human DNMT3B Protein, GST-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Human DNMT3B full-length ORF (NP_787045.1, 1 a.a. - 770 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	770 amino acids
<b>Description</b>	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]
<b>Molecular Mass</b>	112.6 kDa
<b>AA Sequence</b>	MKGDTRHLNGEEDAGGREDSILVNGACSDQSSDSPPILEAIRTPAIRGRRSSSRSLK REVSSLLSYTQDLTGDDGDDGDDGSDTPVMPKLFRETRTRSESPAVRTRNNNSVS

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SRERHRPSRSTRGRQGRNHVDESPVEFPATRSLRRRATASAGTPWPSPSSYLTI  
 DLTTDDTETHGTPQSSSTPYARLAQDSQQGGMES PQVEADRGDGDSSEYQDGKE  
 FGIGDLVWGKIKGFSWWPAMVVS WKATSKRQAMSGMRWVQWFGDGKFSEVSAD  
 KLVALGLFSQHFNLATFNKLVSYRKAMYHALEKARVRAGKTFPSSPGDSLEDQLKP  
 MLEWAHGGFKPTGIEGLKPNNTQPENKTRRRRTADDSATSDYCPAPKHLKTNCYNN  
 GKDRGDEDQSREQMASDVANNKSSLEDGCLSCGRKNPVSFHPLFEGGLCQTCRD  
 RFLELFMYDDDGYSYCTVCCEGRELLCSNTSCCRCFCVECLEVLVGTGTAAEA  
 KLQEPWSCYMCLPQRCHGVLRRRKDWNVRLQAFFTSDTGLEYEAPKLYPAIPAAR  
 RRPIRVLSLFDGIATGYLVLKELGIKVGKYVASEVCEESIAVGTVKHEGNIKYVNDVRN  
 ITKKNIEEWGPFDLVIGGSPCNDLSNVN PARKGLYEGTGRLFFEFYHLLNYSRPKEG  
 DDRPFFWMFENVVAMKVGDKRDISRFLECNPVMIDAIVSAAHRARYFWGNLPGM  
 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 HsallIB; DNA methyltransferase HsallIB; ICF;  
ICF1; M.HsallIB;

**Gene ID**

1789

**mRNA Refseq**

NM\_001207055

**Protein Refseq**

NP\_001193984

**MIM**

602900

**UniProt ID**

Q9UBC3

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