

Product datasheet for PH323206

DNMT3B (NM_006892) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DNMT3B MS Standard C13 and N15-labeled recombinant protein (NP_008823)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223206
Predicted MW:	95.8 kDa
Protein Sequence:	>RC223206 representing NM_006892 Red=Cloning site Green=Tags(s)

MKGDTRHLNGEEDAGGREDSSILVNGACSDQSSDSPPILEAIRTPAIRRRSSRLSKREVSSLLSYTQDL
TGDGDGEDGDGSDTPVMPKLFRETRRSESPAVRTRNNNSVSSRERHRPSPRSTRGRQGRNHVDESPVEF
PATRSLRRRATASAGTPWPSPSSYLTIIDLDDTETHGTPQSSSTPYARLAQDSQQGGMESPVQVEADSG
DGDSSEYQDGKEFGIGDLVWGKIKGFSWVPAMVSWKATSKRQAMSGMRWQWFGDGKFEVSEVADKLV
GLFSQHFNLATFNKLVSRYKAMYHALEKARVRAGKTFPSSPGDSLEDQLKPMLEWAHGGFKPTGIEGLK
NNTQPVVVKSKVRRAGSRKLESRYENKTRRRADDSATSDYCPAPKRLKTNVYNGKDRGDEDQSRQ
ASDVANNKSSLEDGCLSCGRKNPVSFHPLFEGGLCQTCRDRFLELFYMYDDGYSYCTVCEGRELLLC
SNTSCRCFCVECLEVLVGTGTAEEAKLQEPWSCYMCLPQRCHGVLRRRDKDWNVRLQAFFTSDTGLEEYEA
PKLYPAIPAARRRPIRVLVSLFDGIATGYLVKELGKIKVGVASEVCEESIYAVGTVKHEGNIKYVNDV
ITKKNIEEWGPFDLVIGGSPCNDLSNVNPARKGLYEGTGRLFFEFYHLLNYSRPEKDDRRPFFWFMENV
AMKVGDKRDISRFLECNPMIDAIAIKVSAHRARYFWGNLPGMNRPVIAKNDKLELQDCLEYNRIAKLKK
VQTITTKSNSIKQGNLFPVVMNGKEDVLWCTELERIFGFPVHYTDVSNMGRGARQKLLGRSWSVPVIR
HLFAPLKDYFACE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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RefSeq: [NP_008823](#)

RefSeq Size: 4353

RefSeq ORF: 2559

Synonyms: ICF; ICF1; M.HsaIIIB

Locus ID: 1789

UniProt ID: [Q9UBC3](#)

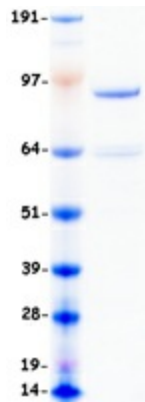
Cytogenetics: 20q11.21

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 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]

Protein Families: Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency

Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified DNMT3B protein (Cat# [TP323206]). The protein was produced from HEK293T cells transfected with DNMT3B cDNA clone (Cat# [RC223206]) using MegaTran 2.0 (Cat# [TT210002]).