Recombinant Mouse CTCFL Protein (1-636 aa), His-tagged

Cat. No. CTCFL-1372M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CTCFL Protein (1-636 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length.
Species	Mouse
Source	Yeast
ProteinLength	1-636 aa
Description	Testis-specific DNA binding protein responsible for insulator function, nuclear architecture and transcriptional control, which probably acts by recruiting epigenetic chromatin modifiers. Plays a key role in gene imprinting in male germline, by participating in the establishment of differential methylation at the IGF2/H19 imprinted control region (ICR). Directly binds the unmethylated H19 ICR and recruits the PRMT7 methyltransferase, leading to methylate histone H4 'Arg-3' to form H4R3sme2. This probably leads to recruit de novo DNA methyltransferases at these sites. Seems to act as tumor suppressor. In association with DNMT1 and DNMT3B, involved in activation of BAG1 gene expression by binding to its promoter. Required for dimethylation of H3 lysine 4 (H3K4me2) of MYC and BRCA1 promoters.
Form	Tris-based buffer,50% glycerol
Molecular Mass	75.1 kDa

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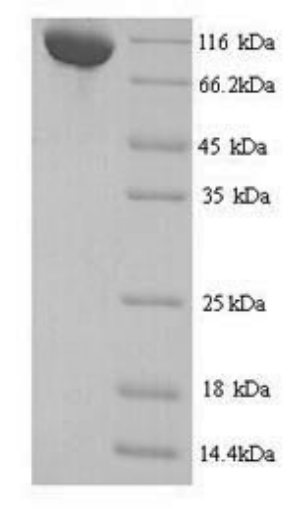
AA Sequence	MAAAEVPVPSGYFTQIKEQKLKPGDLEEEKEEDGVQRVEAQEGVVKEVEAENSCLL LEARAPVESDRRILTLQTVHLESQDVHLQGLGWLSVPHSEELSGTVPEAEGILQLPS VLWLDPEPQLSLQHCVTVSIPEELYPPEELQRIHFHLLRENVLMAEENPELTPDLDES TALKKPEEDEKDQLPPQGETDKREERLLLLEMKPKEGKDDEIVLTISHLSLEEQQDP PAANQTSVPGAKAAKPKRRRQTKGKPQSFQCDTCPFTSSKLSTFNRHIKIHSNERP HLCHLCLKAFRTVTLLRNHVNTHTGTRPHKCRDCDMAFVTSGELVRHRRYKHTYEK PFKCSLCKYASVEASKMKRHIRSHTGERPFQCCQCAYASRDSYKLKRHMRTHSGE KPYECPTCHVRFTQSGTMKIHIAQKHGENVPKYECPHCATIIARKSDLRVHLRNLHS QSPEEMKCRYCPAGFHERYALIQHQRTHKNEKKFKCKQCDYACKQERCLKAHMRM HTGEKPFSCLACNKHFRQKQLLTVHLRKYHDPNFVPNLHLCLKCDKRFSRWSNLQR HRKKCDPEHETLAPNKDRRPVTRTQASEGEAGHKEGEPQCPGEQALGHQGEAAG SQSPDHGLTCEIIFNMMDK
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	Ctcfl CCCTC-binding factor (zinc finger protein)-like [Mus musculus]
Official Symbol	CTCFL

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Synonyms	CTCFL; BORIS; CTCF paralog; Boris; RP23-44L6.1; OTTMUSG00000016680;
Gene ID	664799
mRNA Refseq	NM_001081387
Protein Refseq	NP_001074856
UniProt ID	A2APF3



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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