

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

Cat. No. CTCFL-434M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CTCFL Protein (1-636 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length.
Species	Mouse
Source	E.coli
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 H4R3me2. This probably leads to recruit de novo DNA methyltransferases at these sites. Ses 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	89.1 kDa

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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



AA Sequence

MAAAEVPVPSGYFTQIKEQKLKPGDLEEEKEEDGVQRVEAQEGVVKEVEAENSCLL
LEARAPVESDRRILTLQTVHLESQDVHLQGLGWLSVPHSEELSGTVPEAEGILQLPS
VLWLDPEPQLSLQHCVTVSIPEELYPPEELQRIHFHLLRENVLMAEENPELTPDLDES
TALKKPEEDEKQQLPPQGETDKREERLLLLLEMKPKEGKDDDEIVLTISHLSLEEQQDP
PAANQTSVPGAKAAKPKRRRQTKGKPQSFQCDTCPFTSSKLSTFNRIHIHSNERP
HLCHLCLKAFRTVTLRNHVNTHTGTRPHKCRDCDMAFVTSGELVRHRRYKHTYK
PFKCSLCKYASVEASKMKRHIRSHTGERPFQCCQAYASRDSYKLRHMRTHSGE
KPYECPTCHVRFTQSGTMKIHIAQKHGENVPKYECPHCATIARKSDLRVHLRNLHS
QSPEEMKCRYCPAGFHERYALIQHQRTHKNEKKFKCKQCDYACKQERCLKAHMRM
HTGKPFSCCLACNKHFRQKQLLTVHLRKYHDPNFVPNLHLCLKCDKRFSRWSNLQR
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 concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name

Ctcf1 CCCTC-binding factor (zinc finger protein)-like [*Mus musculus*]

Official Symbol

CTCFL

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

Email: info@creative-biomart.com Fax: 1-631-938-8127

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

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.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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