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

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

## SPECIFICATION

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| **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 H4R3sme2. 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 |

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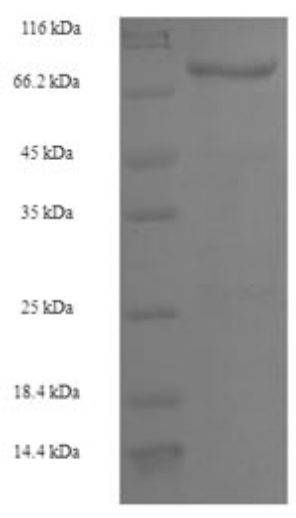
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| **AA Sequence** | MAAAEVPVPSGYFTQIKEQKLKPGDLEEEKEEDGVQRVEAQEGVVKEVEAENSCLL LEARAPVESDRRILTLQTVHLESQDVHLQGLGWLSVPHSEELSGTVPEAEGILQLPS VLWLDPEPQLSLQHCVTVSIPEELYPPEELQRIHFHLLRENVLMAEENPELTPDLDES TALKKPEEDEKDQLPPQGETDKREERLLLLEMKPKEGKDDEIVLTISHLSLEEQQDP 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 concentration instruction is sent along with the products. |

## GENE INFORMATION

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| **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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