

Recombinant Mouse Celf1 Protein, Myc/DDK-tagged

Cat. No. Celf1-2100M Lot. No. (See product label)

SPECIFICATION

Product Overview

Purified recombinant protein of mouse full-length CUGBP, Elav-like family member 1 (Celf1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species

Mouse

Source

HEK293

Description

RNA-binding protein implicated in the regulation of several post-transcriptional events. Involved in pre-mRNA alternative splicing, mRNA translation and stability. Mediates exon inclusion and/or exclusion in pre-mRNA that are subject to tissue-specific and developmentally regulated alternative splicing. Specifically activates exon 5 inclusion of cardiac isoforms of TNNT2 during heart remodeling at the juvenile to adult transition. Acts as both an activator and repressor of a pair of coregulated exons: promotes inclusion of the smooth muscle (SM) exon but exclusion of the non-muscle (NM) exon in actinin pre-mRNAs. Activates SM exon 5 inclusion by antagonizing the repressive effect of PTB. Promotes exclusion of exon 11 of the INSR pre-mRNA. Inhibits, together with HNRNPH1, insulin receptor (IR) pre-mRNA exon 11 inclusion in myoblast. Increases translation and controls the choice of translation initiation codon of CEBPB mRNA. Increases mRNA translation of CEBPB in aging liver. Increases translation of CDKN1A mRNA by antagonizing the repressive effect of CALR3. Mediates rapid cytoplasmic mRNA deadenylation. Recruits the deadenylase PARN to the poly(A) tail of EDEN-containing mRNAs to promote their deadenylation. Required for completion of spermatogenesis. Binds to (CUG)_n triplet repeats in the 3'-UTR of transcripts such as DMPK and to Bruno response elements (BREs). Binds to

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muscle-specific splicing enhancer (MSE) intronic sites flanking the alternative exon 5 of TNNT2 pre-mRNA. Binds to AU-rich sequences (AREs or EDEN-like) localized in the 3'-UTR of JUN and FOS mRNAs. Binds to the IR RNA. Binds to the 5'-region of CDKN1A and CEBPB mRNAs. Binds with the 5'-region of CEBPB mRNA in aging liver. May be a specific regulator of miRNA biogenesis. Binds to primary microRNA pri-MIR140 and, with CELF2, negatively regulates the processing to mature miRNA.

Molecular Mass	55.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Celf1 CUGBP, Elav-like family member 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Celf1
Synonyms	CELF1; CUGBP, Elav-like family member 1; CUGBP Elav-like family member 1; CELF-1; EDEN-BP homolog; brain protein F41; bruno-like protein 2; deadenylation factor CUG-BP; RNA-binding protein BRUNOL-2; deadenylation factor EDEN-BP; CUG-BP- and ETR-3-like factor 1; CUG triplet repeat RNA-binding protein 1; CUG triplet repeat, RNA binding protein 1; 50 kDa nuclear polyadenylated RNA-binding

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protein; embryo deadenylation element-binding protein homolog; CUGBP; NAB50; CUG-BP; Cugbp1; HNAB50; Brunol2; CUG-BP1; AA407467; D2Wsu101e; 1600010O03Rik

Gene ID [13046](#)

mRNA Refseq [NM_017368](#)

Protein Refseq [NP_059064](#)

UniProt ID [P28659](#)

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