Datasheet for ABIN7553412

CELF2 Protein (AA 1-508) (His tag)

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Overview

Quantity:	1 mg
Target:	CELF2
Protein Characteristics:	AA 1-508
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CELF2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CELF2 Protein expressed in mammalian cells.
Sequence:	MRCPKSAVTM RNEELLLSNG TANKMNGALD HSDQPDPDAI KMFVGQIPRS WSEKELKELF EPYGAVYQIN VLRDRSQNPP QSKGCCFVTF YTRKAALEAQ NALHNIKTLP GMHHPIQMKP ADSEKSNAVE DRKLFIGMVS KKCNENDIRV MFSPFGQIEE CRILRGPDGL SRGCAFVTFS TRAMAQNAIK AMHQSQTMEG CSSPIVVKFA DTQKDKEQRR LQQQLAQQMQ QLNTATWGNL TGLGGLTPQY LALLQQATSS SNLGAFSGIQ QMAGMNALQL QNLATLAAAA AAAQTSATST NANPLSTTSS ALGALTSPVA ASTPNSTAGA AMNSLTSLGT LQGLAGATVG LNNINALAGM AALNGGLGAT GLTNGTAGTM DALTQAYSGI QQYAAAALPT LYSQSLLQQQ SAAGSQKEGP EGANLFIYHL PQEFGDQDIL QMFMPFGNVI SAKVFIDKQT NLSKCFGFVS YDNPVSAQAA IQAMNGFQIG MKRLKVQLKR SKNDSKPY **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	CELF2
Alternative Name:	CELF2 (CELF2 Products)
Background:	CUGBP Elav-like family member 2 (CELF-2) (Bruno-like protein 3) (CUG triplet repeat RNA-binding protein 2) (CUG-BP2) (CUG-BP- and ETR-3-like factor 2) (ELAV-type RNA-binding protein 3) (ETR-3) (Neuroblastoma apoptosis-related RNA-binding protein) (hNAPOR) (RNA-binding protein BRUNOL-3),FUNCTION: 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 TNNT2 in embryonic, but not adult, skeletal muscle. Activates TNNT2 exon 5 inclusion by antagonizing the repressive effect of PTB. Acts both as an activator and as a 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. Promotes inclusion of exonS

Target Details

	21 and exclusion of exon 5 of the NMDA receptor R1 pre-mRNA. Involved in the apoB RNA editing activity. Increases COX2 mRNA stability and inhibits COX2 mRNA translation in epithelial cells after radiation injury (By similarity). Modulates the cellular apoptosis program by regulating COX2-mediated prostaglandin E2 (PGE2) expression (By similarity). Binds to (CUG)n triplet repeats in the 3'-UTR of transcripts such as DMPK. Binds to the muscle-specific splicing enhancer (MSE) intronic sites flanking the TNNT2 alternative exon 5. Binds preferentially to UG-rich sequences, in particular UG repeat and UGUU motifs. Binds to apoB mRNA, specifically to AU-rich sequences located immediately upstream of the edited cytidine. Binds AU-rich sequences in the 3'-UTR of COX2 mRNA (By similarity). Binds to an intronic RNA element responsible for the silencing of exon 21 splicing (By similarity). Binds to (CUG)n repeats (By similarity). May be a specific regulator of miRNA biogenesis. Binds to primary microRNA pri-MIR140 and, with CELF1, negatively regulates the processing to mature miRNA (PubMed:28431233). {ECO:0000250|UniProtKB:Q9Z0H4, ECO:0000269|PubMed:11158314, ECO:0000269|PubMed:11577082, ECO:0000269|PubMed:11931771, ECO:0000269|PubMed:12649496, ECO:0000269|PubMed:14973222, ECO:0000269|PubMed:15657417, ECO:0000269|PubMed:15894795, ECO:0000269|PubMed:28431233}.
Molecular Weight:	54.3 kDa
UniProt:	O95319
Pathways:	Ribonucleoprotein Complex Subunit Organization

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date:	12 months