CUGBP Elav-Like Family Member 4 (CELF4) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CUGBP Elav-like family member 4 (CELF4), Recombinant Protein
Full Product Name	Recombinant Human CUGBP Elav-like family member 4 (CELF4)
Product Gene Name	CELF4 recombinant protein
Product Synonym Gene Name	CELF4
Sequence	MYIKMATLAN GQADNASLST NGLGSSPGSA GHMNGLSHSP GNPSTIPMKD HDAIKLFIGQ IPRNLDEKDL KPLFEEFGKI YELTVLKDRF TGMHKGCAFL TYCERESALK AQSALHEQKT LPGMNRPIQV KPADSESRGG SSCLRQPPSQ DRKLFVGMLN KQQSEDDVRR LFEAFGNIEE CTILRGPDGN SKGCAFVKYS SHAEAQAAIN ALHGSQTMPG ASSSLVVKFA DTDKERTMRR MQQMAGQMGM FNPMAIPFGA YGAYAQALMQ QQAALMASVA QGGYLNPMAA FAAAQMQQMA ALNMNGLAAA PMTPTSGGST PPGITAPAVP SIPSPIGVNG FTGLPPQANG QPAAEAVFAN GIHPYPAQSP TAADPLQQAY AGVQQYAGPA AYPAAYGQIS QAFPQPPPMI PQQQREGPEG CNLFIYHLPQ EFGDAELMQM FLPFGFVSFD NPASAQTAIQ AMNGFQIGMK RLKVQLKRPK DANRPY
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	47,727 Da
Sequence Positions	1-486, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	612679
3D Structure	ModBase 3D Structure for Q9BZC1
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CELF4 recombinant protein	Members of the CELF BRUNOL protein family contain two N-terminal RNA recognition motif (RRM) domains, one C-terminal RRM domain, and a divergent segment of 160-230 aa between the second and third RRM domains. Members of this protein family regulate pre-mRNA alternative splicing and may also be involved in mRNA editing, and translation. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of CELF4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CELF4 purchase	MBS1396296 is a recombinant protein targeting CELF4. Also known as Recombinant Human CUGBP Elav-like family member 4 (CELF4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CELF4. It may not necessarily be applicable to this product.

NCBI GI #	187761299
NCBI GeneID	56853
NCBI Accession #	NP_001020258.1
UniProt Primary Accession #	Q9BZC1
UniProt Secondary Accession #	Q59EN7; Q86XB9; Q8N2M6; Q9BQ96; Q9NR84; Q9NR85
UniProt Related Accession #	Q9BZC1
GenBank Nucleotide #	NM_001025087.1
NCBI Official Full Name	CUGBP Elav-like family member 4 isoform 2
NCBI Official Synonym Full Names	CUGBP Elav-like family member 4
NCBI Official Symbol	CELF4
NCBI Official Synonym Symbols	CELF-4; BRUNOL4
UniProt Protein Name	CUGBP Elav-like family member 4
UniProt Synonym Protein Names	Bruno-like protein 4; CUG-BP- and ETR-3-like factor 4; RNA-binding protein BRUNOL-4
Protein Family	CUGBP Elav-like family
UniProt Gene Name	CELF4
UniProt Synonym Gene Names	BRUNOL4; CELF-4
NCBI Protein Information	CUGBP Elav-like family member 4
NCBI Summary for CELF4	Members of the CELF/BRUNOL protein family contain two N-terminal RNA recognition motif (RRM) domains, one C-terminal RRM domain, and a divergent segment of 160-230 aa between the second and third RRM domains. Members of this protein family regulate pre-mRNA alternative splicing and may also be involved in mRNA editing, and translation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for CELF4	RNA-binding protein implicated in the regulation of pre-mRNA alternative splicing. 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. Promotes exclusion of both the smooth muscle (SM) and non-muscle (NM) exons in actinin pre-mRNAs. Activates the splicing of MAPT/Tau exon 10. Binds to muscle-specific splicing enhancer (MSE) intronic sites flanking the alternative exon 5 of TNNT2 pre-mRNA.
Research Articles on CELF4	**1.** The present study refines the molecular and neuropsychiatric phenotype associated with 18q12.2 deletion leading to CELF4 haploinsufficiency and provides evidence for a role for CELF4 in brain development and autism spectrum disorders.
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