Cellular Nucleic Acid (CNBP) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cellular nucleic acid (CNBP), Recombinant Protein
Full Product Name	Recombinant Human Cellular nucleic acid-binding protein
Product Gene Name	CNBP recombinant protein
Product Synonym Names	Zinc finger protein 9
Host	E Coli
Species Reactivity	Human
Form/Format	20mM Tris-HCl based buffer, pH8.0
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	34.6kD
Sequence Positions	Full Length of isoform 2, 2-170aa
OMIM	M28372 mRNA
3D Structure	ModBase 3D Structure for P62633
Tag Info	His-SUMO-tag
Related Product Information for CNBP recombinant protein	Single-stranded DNA-binding protein, with specificity to the sterol regulatory elent (SRE). Involved in sterol-mediated repression.
Other Notes	Small volumes of CNBP 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 CNBP purchase	MBS9420122 is a recombinant protein targeting CNBP. Also known as Recombinant Human Cellular nucleic acid-binding protein. Reactive in Human. Host: E Coli.

ADDITIONAL DETAILS

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

NCBI GI #	187608726
NCBI GeneID	7555
NCBI Accession #	NP_001120664.1
UniProt Primary Accession #	P62633
UniProt Secondary Accession #	P20694; Q4JGY0; Q4JGY1; Q5QJR0; A8K7V4; B2RAV9; B4DP17; D3DNB9; D3DNC0; D3DNC1; E9PDR7
UniProt Related Accession #	P62633
GenBank Nucleotide #	NM_001127192.1
NCBI Official Full Name	cellular nucleic acid-binding protein isoform 1
NCBI Official Synonym Full Names	CCHC-type zinc finger nucleic acid binding protein

NCBI Official Symbol	CNBP
NCBI Official Synonym Symbols	DM2; ZNF9; CNBP1; PROMM; RNF163; ZCCHC22
UniProt Protein Name	Cellular nucleic acid-binding protein
UniProt Synonym Protein Names	Zinc finger protein 9
Protein Family	Cellular nucleic acid-binding protein
UniProt Gene Name	CNBP
UniProt Synonym Gene Names	RNF163; ZNF9; CNBP
NCBI Protein Information	cellular nucleic acid-binding protein
NCBI Summary for CNBP	This gene encodes a nucleic-acid binding protein with seven zinc-finger domains. The protein has a preference for binding single stranded DNA and RNA. The protein functions in cap-independent translation of ornithine decarboxylase mRNA, and may also function in sterol-mediated transcriptional regulation. A CCTG expansion from <30 repeats to 75-11000 repeats in the first intron of this gene results in myotonic dystrophy type 2. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2016]
UniProt Comments for CNBP	ZNF9: Single stranded DNA-binding protein, with specificity to the sterol regulatory element (SRE). Involved in sterol-mediated repression. Defects in CNBP are the cause of dystrophia myotonica type 2 (DM2); also known as proximal myotonic myopathy (PROMM). A multisystem disease characterized by the association of proximal muscle weakness with myotonia, cardiac manifestations and cataract. Additional features can include hyperhidrosis, testicular atrophy, insulin resistance and diabetes and central nervous system anomalies in rare cases. The causative mutation is a CCTG expansion (mean approximately 5000 repeats) located in intron 1 of the CNBP gene. 5 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; RNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 3q21.3 Cellular Component: cytosol; endoplasmic reticulum; nucleus Molecular Function: protein binding; RNA binding; transcription factor activity Biological Process: cholesterol biosynthetic process; negative regulation of transcription from RNA polymerase II promoter; positive regulation of cell proliferation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; regulation of transcription, DNA-dependent Disease: Myotonic Dystrophy 2
Research Articles on CNBP	**1.** High CNBP expression is associated with Medulloblastoma.
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