

## Product datasheet for **RC222434**

### **CUG BP1 (CELF1) (NM\_001025596) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CUG BP1 (CELF1) (NM_001025596) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CUG BP1
Synonyms:	BRUNOL2; CUG-BP; CUGBP; CUGBP1; EDEN-BP; hNab50; NAB50; NAPOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222434 representing NM\_001025596  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACGGCACCCCTGGACCACCCAGACCAACCAGATCTTGATGCTATCAAGATGTTTGTGGCCAGGTTCC  
 CAAGGACCTGGTCTGAAAAGGACTTGC GGGAACCTTCGAACAGTATGGTGTGTATGAAATCAACGT  
 CCTAAGGGATAGGAGCCAAAACCCGCTCAGAGCAAAGGGTGTGTTTTGTTACATTTTACACCCGTAA  
 GCTGCATTAGAAGCTCAGAATGCTCTTCAACATGAAAGTCTCCAGGGATGCATCACCTATACAGA  
 TGAAACCTGTGACAGTGAGAAGAACAATGCAGTGAAGACAGGAAGCTGTTTATTGGTATGATTTCCAA  
 GAAGTGCCTGAAAATGACATCCGAGTCATGTTCTCTTCGTTTGGACAGATTGAAGAATGCCGGATATTG  
 CGGGGACCTGATGGCCTGAGCCGAGTTGTGCATTTGTGACTTTACAACAAGAGCCATGGCACAGACGG  
 CTATCAAGGCAATGCACCAAGCACAGACCATGGAGGGTGTCTCATCACCATGGTGGTAAAATTTGCTGA  
 TACACAGAAGGACAAAGAACAGAAGAGAATGGCCAGCAGCTCCAGCAGCAGATGCAGCAAATCAGCGCA  
 GCATCTGTGTGGGAAACCTTGCTGGTCTAAATACTCTTGGACCCAGTATTTAGCACTTTATTTGCAGC  
 TCCTTCAGCAGACTGCCTCCTCTGGGAACCTCAACACCCTGAGCAGCCTCCACCCAAATGGGAGGGTTGAA  
 TGCAATGCAGTTACAGAATTTGGCTGCACTAGCTGCTGCAGCTAGTGCAGCTCAGAACACACCAAGTGGT  
 ACCAATGCTCTCACTACATCCAGCAGTCCCCTCAGCGTGTCTACTAGTTCAGGGTCTCACCTAGCTCTA  
 GCAGCAGTAATTTGTCAACCCATAGCCTCACTTGGAGCCCTGCAGACATTAGCTGGAGCAACGGCTGG  
 CCTCAATGTTGGCTCTTTGGCAGGAATGGCTGCTTTAAATGGTGGCTGGGCAGCAGTGGCCTTTCCAAT  
 GGCACCGGAGCACCATGGAGGCCCTCACTCAGGCCTACTCGGTATCCAGCAATATGCTGCTGCTGCGC  
 TCCCACTCTGTACAACCAGAATCTTCTGACACAGCAGATTTGGTGTGCTGCTGGAAGCCAGAAGGAAGG  
 TCCAGAGGGAGCCAACCTGTTCACTACCACTGCCCCAGGAGTTGGTGTATCAGGACCTGCTGCAGATG  
 TTTATGCCCTTTGGGAATGTCGTGTCTGCCAAGTTTTTCATAGACAAGCAGACAAACCTGAGCAAGTGT  
 TTGGTTTTGTAAGTTACGACAATCCTGTTTCGGCCCAAGCTGCCATCCAGTCCATGAACGGCTTTAGAT  
 TGGCATGAAGCGGCTTAAAGTGCAGCTCAAACGTTCAAGAATGACAGCAAGCCCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222434 representing NM\_001025596  
 Red=Cloning site Green=Tags(s)

MNGTLDHPDQPDLDIAIKMFVQVPRTWSEKDLRELFEQYGAVYEINVLDRSQNPPQSKGCCFVTFYTRK  
 AALEAQNALHNMKVLPGMHPIQMKPADSEKNNAVEDRKLFIGMISKKCTENDIRVMFSSFQIEECRIL  
 RGPDGLSRGCAFVTFTRAMAQTAIKAMHQAQTMEGCSSPMVVKFADTQKDKEQKRMAQQLLQQMQQISA  
 ASVWGNLAGLNTLGPQYLALYLQLLQQTASSGNLNTLSSLHPMGGLNAMQLQNLAAALAAAASAAQNTPSG  
 TNALTTSSSPLSVLTSSGSSPSSSSNSVNPISLGLALQTLAGATAGLNVGSLAGMAALNGLGSSGLSN  
 GTGSTMEALTQAYSIGIQYAAAAALPTLYNQNLTTQSIGAAGSQKEGPEGANLFIYHLPQEFQDQDLLQM  
 FMPFGNVVSAKVFIDKQTNLSKCFGVSYDNPVSAQAAIQSMNGFQIGMKRLKVQLKRSKNDSKPY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8064\\_h08.zip](https://cdn.origene.com/chromatograms/mk8064_h08.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001025596

**ORF Size:** 1458 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_001025596.3](#)

RefSeq Size: 2024 bp

RefSeq ORF: 1461 bp

Locus ID: 10658

UniProt ID: [Q92879](#)

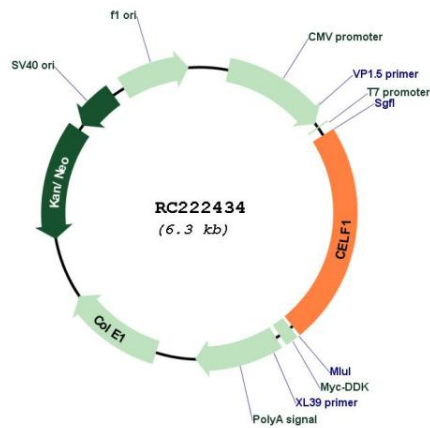
Cytogenetics: 11p11.2

Protein Families: Druggable Genome

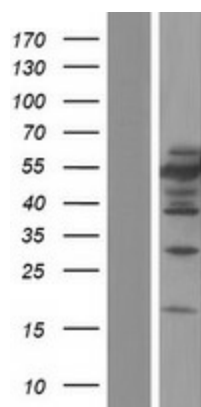
MW: 51.9 kDa

**Gene Summary:** 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. This gene may play a role in myotonic dystrophy type 1 (DM1) via interactions with the dystrophia myotonica-protein kinase (DMPK) gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC222434



Western blot validation of overexpression lysate (Cat# [LY422453]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222434 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).