

Product datasheet for **RG222434**

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:	TurboGFP
Symbol:	CUG BP1
Synonyms:	BRUNOL2; CUG-BP; CUGBP; CUGBP1; EDEN-BP; hNab50; NAB50; NAPOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222434 representing NM_001025596
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACGGCACCCCTGGACCACCCAGACCAACCAGATCTTGATGCTATCAAGATGTTTGTGGCCAGGTTCC
 CAAGGACCTGGTCTGAAAAGGACTTGCGGGAACCTTCGAACAGTATGGTCTGTGTATGAAATCAACGT
 CCTAAGGGATAGGAGCCAAAACCCGCTCAGAGCAAAGGGTGTGTTTTGTTACATTTTACACCCGTAAAG
 GCTGCATTAGAAGCTCAGAATGCTCTTCAACATGAAAGTCTCCAGGGATGCATCACCTATACAGA
 TGAAACCTGCTGACAGTGAGAAGAACAATGCAGTGAAGACAGGAAGCTGTTTATTGGTATGATTTCCAA
 GAAGTGCAGTGAAGTGCATCCGAGTCATGTTCTCTTCGTTTGGACAGATTGAAGAATGCCGGATATTG
 CGGGGACCTGATGGCCTGAGCCGAGTTGTGCATTTGTGACTTTACAACAAGAGCCATGGCACAGACGG
 CTATCAAGGCAATGCACCAAGCACAGACCATGGAGGGTGTCTCATCACCATGGTGGTAAATTTGCTGA
 TACACAGAAGGACAAAGAAGAGAATGGCCAGCAGCTCCAGCAGCAGATGCAGCAATCAGCGCA
 GCATCTGTGTGGGAAACCTTGCTGGTCTAAATACTCTTGACCCCAAGTATTTAGCACTTTATTTGCAGC
 TCCTTCAGCAGACTGCCTCCTCTGGGAACCTCAACACCCTGAGCAGCCTCCACCAATGGGAGGGTTGAA
 TGCAATGCAGTTACAGAATTTGGCTGCACTAGCTGCTGCAGCTAGTGCAGCTCAGAACACACCAAGTGGT
 ACCAATGCTCTCACTACATCCAGCAGTCCCCTCAGCGTGTCTACTAGTTCAGGGTCTCACCTAGCTCTA
 GCAGCAGTAATTTGTCAACCCCATAGCCTCACTTGGAGCCCTGCAGACATTAGCTGGAGCAACGGCTGG
 CCTCAATGTTGGCTCTTTGGCAGGAATGGCTGCTTTAAATGGTGGCTGGGCAGCAGTGGCCTTTCCAAT
 GGCACCCGGGAGCACCATGGAGGCCCTCACTCAGGCCTACTCGGTATCCAGCAATATGCTGCTGCTGCCG
 TCCCACTCTGTACAACCAGAATCTTCTGACACAGCAGAGTATTGGTGTCTGCTGGAAGCCAGAAGGAAG
 TCCAGAGGGAGCCAACTGTTCATCTACCACCTGCCCCAGGAGTTTGGTATCAGGACCTGCTGCAGATG
 TTTATGCCCTTTGGGAATGTCGTGTCTGCCAAGTTTTTCATAGACAAGCAGACAAACCTGAGCAAGTGT
 TTGGTTTTGTAAGTTACGACAATCCTGTTTCGGCCCAAGCTGCCATCCAGTCCATGAACGGCTTTTCAGAT
 TGGCATGAAGCGGCTTAAAGTGCAGCTCAAACGTTCAAGAATGACAGCAAGCCCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG222434 representing NM_001025596
 Red=Cloning site Green=Tags(s)

MNGTLDHPDQPDLDIAIKMFVQVPRTWSEKDLRELFQYGAUYEINVLDRSQNPPQSKGCCFVTFYTRK
 AALEAQNALHNMKVLPGMHPIQMKPADSEKNNAVEDRKLFIGMISKKCTENDIRVMFSSFGQIEECRIL
 RGPDGLSRGCAFVFTTTRAMAQTAIKAMHQAQTMEGCSSPMVVKFADTQKDKQKRMAQQQLQQMQQISA
 ASVWGNLAGLNTLGPQYLALYLQLLQQTASSGNLNTLSSLHPMGGLNAMQLQNLAAALAAAASAAQNTPSG
 TNALTTSSPLSVLTSSGSSPSSSSNSVNPISL GALQTLAGATAGLNVGSLAGMAALNGGLGSSGLSN
 GTGSTM EALTQAYSGIQYAAAALPTLYNQNL LTQQSIGAAGSQKEGPEGANLFIYHLPQEFGDQDLLQM
 FMPFGNVVSAKVFIDKQTNLSKCFGFVSYDNPVSAQAAIQSMNGFQIGMKRLKVQLKRSKND SKPY

TRTRPLE – GFP Tag – V

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 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

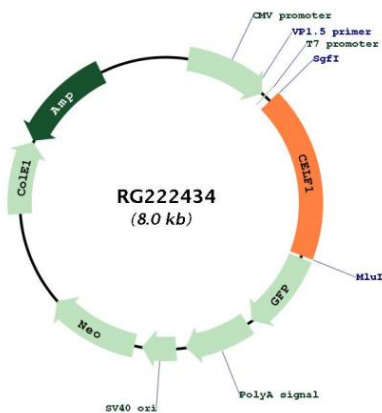
UniProt ID: [Q92879](#)

Cytogenetics: 11p11.2

Protein Families: Druggable Genome

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 dystrophin myotonic-protein kinase (DMPK) gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG222434