

Product datasheet for **MR220707**

Celf1 (NM_017368) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Celf1 (NM_017368) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Celf1
Synonyms:	1600010O03Rik; AA407467; Brunol2; CUG-BP; CUG-BP1; CUGBP; Cugbp1; D2Wsu101e; HNAB50; NAB50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220707 representing NM_017368
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGCGTTTAAAGTTGGATTTCTTCCAGAATGATGGTGGATCATTGCTCTTTGAATCCAGTCTGT
 TCTCAAAGAAAATGAACGGCACCCCTGGACCACCCAGACCAACCAGATCTTGATGCTATCAAGATGTTTGT
 GGGCCAGTTTCCAAGGACCTGGTCTGAGAAAGACTTGAGGGAGCTTTTTGAGCAGTATGGTGTCTAT
 GAAATCAACATCCTAAGGGATAGGAGCCAAAACCTCCTCAGAGCAAAGGGTGTGTTTTTTTACATTTT
 ACACCCGTAAAGCTGCATTAGAAGCTCAGAATGCTCTCCATAACATGAAGGTCTCCCTGGGATGCATCA
 CCCTATACAGATGAAGCCTGCTGACAGTAAAAGAACAATGCTGTGGAAGACAGGAAGCTCTTTATTGGT
 ATGATTTCCAAGAAGTGTACTGAAAATGACATCCGAGTCATGTTTTCTCGTTTGGACAGATTGAAGAGT
 GCCGGATATTGCGGGGACCTGATGGCTTGAGCAGAGGTTGTGATTTGTGACTTTTACTACAAGAACCAT
 GGCACAGACAGCTATCAAAGCAATGCACCAAGCACAAACCATGGAGGGTTGCTCATCCCCAATGGTGGTA
 AAGTTTGGCGACACCCAGAAGGACAAAGAAGAGAGAATGGCCACGACGCTCCAGCAGCAGATGCAGC
 AGATCAGTGCAGCGTCTGTGTGGGAAACCTGGCTGGTCTGAACACACTTGGACCCAGTACTTAGCACT
 TTATTTGCAGCTCCTACAGCAGACTGCCTCCTCTGGGAACCTCAACACCTGAGCAGCCTCCACCCAATG
 GGAGGGTTAAATGCAATGCAGCTACAGAATTTGGCTGCACTAGCTGCTGCAGCTAGTGCAGCTCAGAACA
 CACCAAGTGGTACCAATGCTCTCACTACATCCAGCAGTCCCCTCAGCGTACTCACCAGTTCAGGGTCTTC
 ACCGAGCTCCAGCAGCAGTAATTCTGTCAACCCATAGCCTCACTGGAGCCCTGCAAACATTGGCCGGA
 GCAACAGCTGGCCTCAACGTTGGCTCATTGGCAGGGATGGCTGCTTTGAATGGTGGTCTGGGCAGCAGTG
 GCCTTTCCAATGGCACTGGGAGTACCATGGAAGCCCTCACCCAGCGTATTCTGGTATCCAGCAATATGC
 TGCTGCAGCCCTCCCCTCTGTACAACCAAGATTTATTGACACAGCAGAGTATTGGTGTCTGGAAGC
 CAGAAGGAAGGTCCAGAAGGAGCAACCTGTTCTATCACCTGCCCCAGGAGTTTGGAGACCAGGACT
 TACTGCAGATGTTTATGCCCTTTGGGAATGTCGTGTCGGCCAAGTTTTTCATAGACAAGCAGACAAACCT
 GAGCAAGTGTCTTTGGTTTTGTAAGTTATGACAATCCTGTCTCAGCTCAAGCTGCCATCCAGTCCATGAAC
 GGCTTTCAAATTTGAATGAAGAGGCTTAAAGTGCAGCTCAAACGTTCAAGAATGATAGTAAGCCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220707 representing NM_017368
 Red=Cloning site Green=Tags(s)

MAAFKLDLPEMMVDHCSLNSSPVSKMNGTLDHPDQPDLDIAIKMFVGVPRVWSEKDLRELFEQYGAVY
 EINILRDRSQNPPQSKGCCFVTFYTRKAALQAQNALHNMKVLPGMHPIQMKPADSEKNAVEDRKLFIG
 MISKKCTENDIRVMFSSFGQIEECRILRGPDLRSGCAFVTFTRTMAQTAIKAMHQQTMEGCSSPMVV
 KFADTQKDKEQKRMAQQLQQMQQISAASVWGNLAGLNTLGPQYLALYLQLLQQTASSGNLNTLSSLHPM
 GGLNAMQLQNLAAALAAAASAAQNTPSGTNALTTSSSPLSVLTSSGSSPSSSSNSVNPIASLGALQTLG
 ATAGLNVGSLAGMAALNGGLGSSGLSNGTGSTMEALTQAYSIGIQYAAAALPTLYNQNLTTQQSIGAAGS
 QKEGPEGANLFIYHLPQEFQDQLLQMFMPFGNVVSAKVFIDKQTNLSKCFGFVSYDNPVSAQAAIQSMN
 GFQIGMKRLKVQLKRSKNDSKPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9075_a11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_017368

ORF Size: 1539 bp

OTI Disclaimer: 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_017368.3](#), [NP_059064.2](#)

RefSeq Size: 4873 bp

RefSeq ORF: 1542 bp

Locus ID: 13046

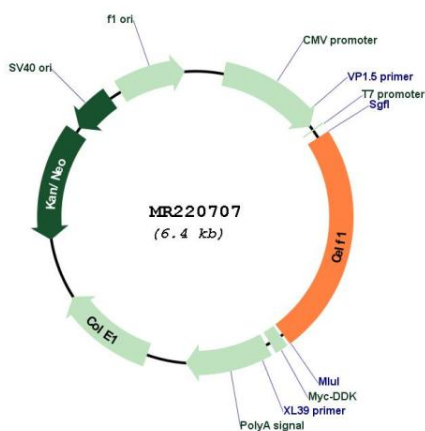
UniProt ID: [P28659](#)

Cytogenetics: 2 50.44 cM

MW: 55.1 kDa

Gene Summary: 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 (By similarity). Specifically activates exon 5 inclusion of cardiac isoforms of TNNT2 during heart remodeling at the juvenile to adult transition (By similarity). Acts as both an activator and 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 (By similarity). Activates SM exon 5 inclusion by antagonizing the repressive effect of PTB (By similarity). Promotes exclusion of exon 11 of the INSR pre-mRNA (By similarity). Inhibits, together with HNRNPH1, insulin receptor (IR) pre-mRNA exon 11 inclusion in myoblast (By similarity). Increases translation and controls the choice of translation initiation codon of CEBPB mRNA (By similarity). Increases mRNA translation of CEBPB in aging liver. Increases translation of CDKN1A mRNA by antagonizing the repressive effect of CALR3 (By similarity). Mediates rapid cytoplasmic mRNA deadenylation (By similarity). Recruits the deadenylase PARN to the poly(A) tail of EDEN-containing mRNAs to promote their deadenylation (By similarity). Required for completion of spermatogenesis. Binds to (CUG)_n triplet repeats in the 3' UTR of transcripts such as DMPK and to Bruno response elements (BREs) (By similarity). Binds to muscle-specific splicing enhancer (MSE) intronic sites flanking the alternative exon 5 of TNNT2 pre-mRNA (By similarity). Binds to AU-rich sequences (AREs or EDEN-like) localized in the 3' UTR of JUN and FOS mRNAs. Binds to the IR RNA (By similarity). Binds to the 5'-region of CDKN1A and CEBPB mRNAs (By similarity). Binds with the 5'-region of CEBPB mRNA in aging liver. May be a specific regulator of miRNA biogenesis. Binds to primary microRNA pri-MIR140 and, with CELF2, negatively regulates the processing to mature miRNA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220707