

## Product datasheet for **RN204942**

### **Celf1 (NM\_001025421) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Celf1 (NM_001025421) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Celf1
Synonyms:	Cugbp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN204942 representing NM\_001025421  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACGGCACCCCTGGACCACCCAGACCAACCAGATCTTGATGCTATCAAGATGTTTGTGGCCAGTTTC  
 CAAGGACCTGGTCGGAGAAAAGACTTGAGGGAGCTTTTTGAGCAGTATGGTGTCTATGAAATCAACAT  
 CCTAAGGGATAGGAGCCAAAACCCCTCTCAGAGCAAAGGGTGCTGTTTTGTTACATTTTACACCCGTAAA  
 GCTGCATTAGAAGCTCAGAATGCTCTCCACAACATGAAGGTTCTACCTGGGATGCATCACCCATACAGA  
 TGAAACCCGCGGACAGTGAGAAGAACAACGCTGTGGAAGACAGGAAGCTGTTTATTGGTATGATTTCCAA  
 GAAGTGTACTGAAAATGACATCCGAGTCATGTTTTCTTCGTTTGGACAGATTGAAGAGTGCCGGATATTG  
 CGGGGACCTGATGGCTTGAGCAGAGTTGTGCATTTGTGACTTTACAACAAGAACCATGGCACAGACAG  
 CTATCAAAGCAATGCACCAAGCACAGACCATGGAGGGTTGCTCATCCCCATGGTGGTAAAGTTTGTCTGA  
 CACCCAGAAGGACAAAGAACAGAAGAGAATGGCCAGCAGCTCCAGCAGCAGATGCAGCAGATTAGTGCA  
 GGGTCTGTGTGGGGAACCTGGCTGGTCTGAACACACTTGGGCCCCAGTACTTAGCACTTTATTTGCAGC  
 TCCTTCAGCAGACTGCCAACTCTGGGAACCTCAACACCCTGAGCAGCCTCCACCCAAATGGGAGGGTTAAA  
 TGCAATGCAGCTCCAGAATTTGGCTGCACTGGCTGCTGCAGCTAGTGCAGCTCAGAATACACCAAGTGGT  
 ACCAATGTCTCACTACATCCAGCAGTCCCCTCAGCGTACTCACCAGTTCAGCAGGGTCTTCACCGAGCT  
 CCAGCAGCAGTAATTCTGTCAACCCCATAGCCTCACTTGGAGCGCTGAAACATTAGCCGGAGCAACAGC  
 TGGCCTCAACGTTGGCTCATTGGCAGGAATGGCTGCTTGAATGGAGGTTTGGGCAGCAGTGGCCTTTCC  
 AATGGCACTGGGAGTACCATGGAAGCCCTCACCCAGGCGTATTCTGGTATCCAGCAATATGCTGCTGCAG  
 CCCTCCCTACTCTGTACAACCAGAATCTGTTGACACAGCAGAGTATTGGTGTCTGGAAGCCAGAAGGA  
 AGGTCCAGAAGGAGCCAACTGTTTCATCTACCTGCCCAAGAGTTTGGAGACCAGGACTTACTGCAG  
 ATGTTTATGCCCTTTGGGAATGTCGTGTCTGCCAAGGTTTTTCATAGACAAGCAGACCAACCTGAGCAAGT  
 GTTTTGTTTTGTAAGTTATGACAATCCTGTCTCAGCTCAAGCTGCCATCCAGTCCATGAACGGCTTTCA  
 AATTGGAATGAAGAGGCTTAAAGTGCAGCTCAAACGTTTGAAGAATGATAGTAAGCCCTACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001025421
- Insert Size:** 1464 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001025421.1](#), [NP\\_001020592.1](#)

RefSeq Size: 2044 bp

RefSeq ORF: 1464 bp

Locus ID: 362160

UniProt ID: [Q4QQT3](#)

Cytogenetics: 3q24

**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. Specifically activates exon 5 inclusion of cardiac isoforms of TNNT2 during heart remodeling at the juvenile to adult transition. 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. Activates SM exon 5 inclusion by antagonizing the repressive effect of PTB. Promotes exclusion of exon 11 of the INSR pre-mRNA. Inhibits, together with HNRNPH1, insulin receptor (IR) pre-mRNA exon 11 inclusion in myoblast. Increases translation and controls the choice of translation initiation codon of CEBPB mRNA. Increases mRNA translation of CEBPB in aging liver. Increases translation of CDKN1A mRNA by antagonizing the repressive effect of CALR3. Mediates rapid cytoplasmic mRNA deadenylation. Recruits the deadenylase PARN to the poly(A) tail of EDEN-containing mRNAs to promote their deadenylation. Required for completion of spermatogenesis. Binds to (CUG)<sub>n</sub> triplet repeats in the 3' UTR of transcripts such as DMPK and to Bruno response elements (BREs). Binds to muscle-specific splicing enhancer (MSE) intronic sites flanking the alternative exon 5 of TNNT2 pre-mRNA. Binds to AU-rich sequences (AREs or EDEN-like) localized in the 3' UTR of JUN and FOS mRNAs. Binds to the IR RNA. Binds to the 5'-region of CDKN1A and CEBPB mRNAs. Binds with the 5'-region of CEBPB mRNA in aging liver (By similarity). 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]