

## Product datasheet for **MC212160**

### Celf4 (NM\_001146295) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Celf4 (NM\_001146295) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Celf4  
**Synonyms:** A230070D14Rik; Brul4; BRUNOL-4; Brunol4; C130060B05Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC212160 representing NM\_001146295  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTATATAAAGATGGCCACGTTAGCAAACGGACAGGCTGACAACGCGAGCCTCAGTACCAACGGGCTAG  
GCAGCAGCCCGGGCAGCGCCGGGCATATGAACGGATTAAGCCACAGCCCGGGGAACCCGTCGACCATTCC  
CATGAAGGACCACGATGCCATCAAGCTGTTTCATTGGGCAGATCCCCGAAACCTGGATGAGAAGGACCTC  
AAGCCCTCTTCGAGGAGTTCGCAAGATCTACGAGTTACGTTCTGAAGGACAGGTTACAGGCATGC  
ACAAAGGCTGCGCTTTCCTCACCTACTGCGAGCGTGAGTCAGCGCTGAAGGCCAGAGCGCGCTGCACGA  
GCAGAAGACCCTGCCCGGGTAAGTGGCGCCGGCCGCGCGCAGCCGGCCGCGCGCCGACAGGGGGCGAC  
TTCGGGAGGTCGGGCAGCGACGCGCGGGGCGGGGACAGCAGGGACCCCGCGGCCAGGATGCCTCCCGCT  
GA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001146295  
**Insert Size:** 492 bp



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**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](#)

**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\\_001146295.1](#), [NP\\_001139767.1](#)

**RefSeq Size:** 2258 bp

**RefSeq ORF:** 492 bp

**Locus ID:** 108013

**UniProt ID:** [Q7TSY6](#)

**Cytogenetics:** 18 A2

**Gene Summary:** RNA-binding protein implicated in the regulation of pre-mRNA alternative splicing. 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. Promotes exclusion of both the smooth muscle (SM) and non-muscle (NM) exons in actinin pre-mRNAs. Activates the splicing of MAPT/Tau exon 10. Binds to muscle-specific splicing enhancer (MSE) intronic sites flanking the alternative exon 5 of TNNT2 pre-mRNA (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (5) has multiple differences in the presence and absence of exons at its 3' end, compared to variant 1, that results in a protein (isoform E) with a shorter and distinct C-terminus, compared to isoform A.