

## Product datasheet for **MC218525**

### Celf4 (NM\_001146292) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Celf4 (NM_001146292) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Celf4
Synonyms:	A230070D14Rik; Brul4; BRUNOL-4; Brunol4; C130060B05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC218525 representing NM\_001146292  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTATATAAAGATGGCCACGTTAGCAAACGGACAGGCTGACAACGCGAGCCTCAGTACCAACGGGCTAG  
 GCAGCAGCCCGGCAGCGCCGGCATATGAACGGATTAAGCCACAGCCCGGGGAACCCGTCGACCATTC  
 CATGAAGGACCACGATGCCATCAAGCTGTTCAATTGGGCAGATCCCCGAAACCTGGATGAGAAGGACCTC  
 AAGCCCCTCTTCGAGGAGTTCGCAAGATCTACGAGCTTACGGTTCTGAAGGACAGGTTACAGGCATGC  
 ACAAAGGCTGCGCTTTCCTCACCTACTGCGAGCGTGAGTCAGCGCTGAAGGCCAGAGCGCGCTGCACGA  
 GCAGAAGACCCTGCCGGGATGAACCGGCCGATCCAGGTGAAGCCTGCGGACAGCGAGAGCCGAGGAGGT  
 AGTAGCTGCCTGCGCCAGCCCCCTCACATAGAAAACCTTCGTTGGGTATGCTCAACAAGCAACAATCTG  
 AGGACGACGTGCGCCGCTTTCGAGGCCCTTCGGGAACATCGAGGAGTGCATATCTGCGCGGGCCGGA  
 CGCAACAGCAAGGGGTGCGCCTTTGTGAAGTACTCCTCCATGCCGAGGCACAAGCCGCCATCAACGCT  
 CTACATGGCAGCCAGACCATGCCTGGAGCCTCCTCCAGCCTGGTGGTCAAGTTTGCAGACTGACAAGG  
 AGCGCACAAATGCGACGGATGCAGCAGATGGCTGGCCAGATGGGCATGTTCAACCCCATGGCCATCCCCTT  
 CGGAGCCTATGGCGCCTATGCTCAGGCACTGATGCAGCAGCAAGCAGCCCTCATGGCATCGGTCGCGCAA  
 GGAGGCTACCTGAATCCCATGGCTGCCTTCGCTGCCGCCAAAATGCAGCAGATGGCGGCCCTCAACATGA  
 ATGGCCTGGCAGCCGCACCTATGACCCCAACCTCAGGTGGCAGCACCCCTCCAGGCATCACTGCACCAGC  
 TGTGCCTAGCATCCCATCCCCATTGGGGTGAACGGCTTACGGGCCCTCCCCCTCAGGCCAATGGGCAG  
 CCTGCTGCGGAAGCTGTGTTTGCCAATGGCATTACCCCTACCCAGCACAGAGCCCAAGCCGAGCCGACC  
 CCCTGAGCAGGCCCTACGCTGGAGTGCAGCAGTATGCAGGACCTGCCTACCCTGCTGCCTATGGTCAGAT  
 TAGCCAGGCCTTTCCTCAGCCACCGCCAATGATCCCCAGCAACAGAGAGAAGGGCCCGAGGGCTGTAAC  
 CTGCTCATCTACCATCTGCCCCAGGAGTTTGGGGACGCTGAGCTGATGCAGATGTTCCCTCCCTTCGGTA  
 ATGTCATCTCCTCGAAAGTGTGTTGTGGATCGGGCGACTAACCAAAGTAAATGCTTTGGCTTCGTGAGCTT  
 CGACAACCCGGCCAGCGCACAGACCGCCATCCAGGCCATGAACGGCTTCCAGATAGGCATGAAGAGGCTC  
 AAGGTGCAGCTGAAGCGGCCCAAAGACGCCAATCGCCCGTACTGA

**ACGGCT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001146292

**Insert Size:** 1515 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\\_001146292.1](#), [NP\\_001139764.1](#)

**RefSeq Size:** 4007 bp

**RefSeq ORF:** 1515 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 (1) encodes isoform (22, also known as A).