

## Product datasheet for **MR208099**

### **Celf4 (NM\_001146292) Mouse Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>MR208099 representing NM\_001146292  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTATATAAAGATGGCCACGTTAGCAAACGGACAGGCTGACAACGCGAGCCTCAGTACCAACGGGCTAG  
 GCAGCAGCCCGGGCAGCGCCGGGCATATGAACGGATTAAGCCACAGCCCGGGGAACCCGTCGACCATTCC  
 CATGAAGGACCACGATGCCATCAAGCTGTTCAATTGGGCAGATCCCCGAAACCTGGATGAGAAGGACCTC  
 AAGCCCTCTTCGAGGAGTTCGCAAGATCTACGAGCTTACGGTCTGAAGGACAGGTTACAGGCATGC  
 ACAAAGGCTGCGCTTTCCTCACCTACTGCGAGCGTGAGTCAGCGCTGAAGGCCAGAGCGCGCTGCACGA  
 GCAGAAGACCCTGCCGGGATGAACCGGCCGATCCAGGTGAAGCCTGCGGACAGCGAGAGCCGAGGAGGT  
 AGTAGCTGCCTGCGCCAGCCCCCTCACATAGAAAACCTTCGTTGGTATGCTCAACAAGCAACAATCTG  
 AGGACGAGCTGCGCCGCTTTCGAGGCCCTTCGGGAACATCGAGGAGTGAAGTATCTGCGCGGGCCGGA  
 CGCAACAGCAAGGGGTGCGCTTGTGAAGTACTCCTCCATGCCGAGGCACAAGCCGCCATCAACGCT  
 CTACATGGCAGCCAGACCATGCCTGGAGCCTCCTCCAGCCTGGTGGTCAAGTTTGCAGACACTGACAAGG  
 AGCGCACAAATGCGACGGATGCAGCAGATGGCTGGCCAGATGGGCATGTTCAACCCATGGCCATCCCTT  
 CGGAGCCTATGGCGCCTATGCTCAGGCACTGATGCAGCAGCAAGCAGCCCTCATGGCATCGGTCGCGCAA  
 GGAGGCTACCTGAATCCCATGGCTGCCTTCGCTGCCGCCAAAATGCAGCAGATGGCGGCCCTCAACATGA  
 ATGGCCTGGCAGCCGCACCTATGACCCCAACCTCAGGTGGCAGCACCCCTCCAGGCATCACTGCACCAGC  
 TGTGCCTAGCATCCCATCCCCATTGGGGTGAACGGCTTACGGGCTCCCCCTCAGGCCAATGGGCGAG  
 CCTGCTGCGGAAGCTGTGTTTGCATGGCATTACCCCTACCCAGCACAGAGCCCAAGCCGAGCCGAGC  
 CCCTGCAGCAGGCTACGCTGGAGTGCAGCAGTATGCAGGACCTGCCTACCCTGCTGCCTATGGTGCAT  
 TAGCCAGGCCTTTCCTCAGCCACCGCAATGATTCCTCCAGCAACAGAGAGAAGGGCCCGAGGGCTTAAC  
 CTGCTCATCTACCATCTGCCCCAGGAGTTTGGGACGCTGAGCTGATGCAGATGTTCTCCCTTTCGGTA  
 ATGTCATCTCCTCGAAAGTGTGTTGTTGGATCGGGCGACTAACCAAAGTAAATGCTTTGGCTTCGTGAGCTT  
 CGACAACCCGGCCAGCGCACAGACCGCCATCCAGGCCATGAACGGCTTCCAGATAGGCATGAAGAGGCTC  
 AAGGTGCAGCTGAAGCGGCCAAAGACGCCAATCGCCGTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208099 representing NM\_001146292  
 Red=Cloning site Green=Tags(s)

MYIKMATLANGQADNASLSTNGLGSSPGSAGHMNGLSHSPGNPSTIPMKDHDAIKLFIGQIPRNLDEKDL  
 KPLFEFEGKIYELTVLKDRFTGMHKGCAFLTYCERESALKAQSALHEQKTLPGMNRPIQVKPADSESRRG  
 SSCLRQPPSHRKL FVGM LNKQQSEDDVRRLEAFGNIEECTILRGPDGNSKGCAFVKYSSHAEAQAANA  
 LHGSQTMPGASSSLVVKFADTDKERTMRRMQMAGQMGMFNPMIIPFGAYGAYAQALMQQAALMASVAQ  
 GGYLNPMMAFAAAQMQMAALNMNGLAAAPMPTPTSGGSTPPGITA PAVPSIPSPIGVNGFTGLPPQANGQ  
 PAAEAVFANGIHPYPAQSPTAADPLQQA YAGVQYAGPAYPAAYGQISQAFPPPPMIPQQQREGPEGCN  
 LLIYHLPQEFGDAELMQMFLPFGNVISSKVFVD RATNQS KCFVFSF DNPASAQTAIQAMNGFQIGMKRL  
 KVQLKRPKDANRPY

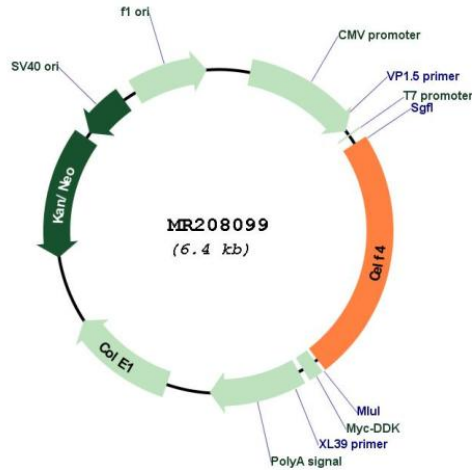
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI



Plasmid Map:



ACCN: NM\_001146292

ORF Size: 1512 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\\_001146292.2](#)

**RefSeq Size:** 4007 bp

**RefSeq ORF:** 1515 bp

**Locus ID:** 108013

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

**Cytogenetics:** 18 A2

**MW:** 54.4 kDa

**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]