

Product datasheet for **MR220695**

Celf4 (NM_001146294) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Celf4 (NM_001146294) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Celf4
Synonyms:	A230070D14Rik; Brul4; BRUNOL-4; Brunol4; C130060B05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR220695 representing NM_001146294
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTATATAAAGATGGCCACGTTAGCAAACGGACAGGCTGACAACGCGAGCCTCAGTACCAACGGGCTAG
 GCAGCAGCCCGGGCAGCGCCGGGCATATGAACGGATTAAGCCACAGCCCGGGGAACCCGTCGACCATTCC
 CATGAAGGACCACGATGCCATCAAGCTGTTTCATTGGGCAGATCCCCGAAACCTGGATGAGAAGGACCTC
 AAGCCCCTCTTCGAGGAGTTCGGCAAGATCTACGAGCTTACGGTCTGAAGGACAGGTTACAGGCATGC
 ACAAAAGGCTGCGCTTTCCTCACCTACTGCGAGCGTGAGTCAGCGCTGAAGGCCAGAGCGCGCTGCACGA
 GCAGAAGACCCTGCCGGGATGAACCGGCCGATCCAGGTGAAGCCTGCGGACAGCGAGAGCCGAGGAGAT
 AGAAAACCTCTTCGTGGGTATGCTCAACAAGCAACAATCTGAGGACGACGTGCGCCGCTCTTCGAGGCC
 TCGGGAACATCGAGGAGTGCATATCCTGCGCGGGCCGGACGGCAACAGCAAGGGGTGCGCTTTGTGAA
 GTACTCCTCCCATGCCGAGGCACAAGCCGCCATCAACGCTCTACATGGCAGCCAGACCATGCCTGGAGCC
 TCCTCCAGCCTGGTGGTCAAGTTTGAGACACTGACAAGGAGCGACAATGCGACGGATGCAGCAGATGG
 CTGGCCAGATGGGCATGTTCAACCCCATGGCCATCCCCTTCGGAGCCTATGGCGCCTATGCTCAGGCACT
 GATGCAGCAGCAAGCAGCCCTCATGGCATCGGTGCGCAAGGAGGCTACCTGAATCCCATGGCTGCCTTC
 GCTGCCGCCAAATGCAGCAGATGGCGGCCCTCAACATGAATGGCTGGCAGCCGCACCTATGACCCCAA
 CCTCAGGTGGCAGCACCCCTCCAGGCATCACTGCACCAGCTGTGCTAGCATCCCATCCCCATTGGGGT
 GAACGGCTTACGGGCCCTCCCCCTCAGGCCAATGGGCAGCCTGCTGCGGAAGCTGTGTTGCCAATGGC
 ATTCACCCTACCCAGCACAGAGCCCCACCGCAGCCGACCCCTGCAGCAGGCCTACGCTGGAGTGCAGC
 AGTATGCAGGACCAGCTGCCTACCCTGCTGCCTATGGTCAGATTAGCCAGGCCTTTCCTCAGCCAGCCG
 AATGATTCCCCAGCAACAGAGAGAAGGGCCGAGGGCTGTAACCTGCTCATCTACCATCTGCCCCAGGAG
 TTTGGGACGCTGAGCTGATGCAGATGTTCTCCCTTTCGGTAATGTCATCTCCTCGAAAGTGTGTTGTGG
 ATCGGGGACTAACCAAAGTAAATGCTTTGGCTTCGTGAGCTTCGACAACCCGGCCAGCGCACAGACCCG
 CATCCAGGCCATGAACGGCTTCCAGATAGGCATGAAGAGGCTCAAGGTGCAGCTGAAGCGGCCCAAAGAC
 GCCAATCGCCGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220695 representing NM_001146294
 Red=Cloning site Green=Tags(s)

MYIKMATLANGQADNASLSTNGLSSSPGSAGHMNGLSHSPGNPSTIPMKDHDIAIKLFIGQIPRNLDEKDL
 KPLFEFGKIYELTVLKDRFTGMHKGCAFLTYCERESALKQAQSALHEQKTLPGMNRPIQVKPADSESRGD
 RKLFVGMNLKQQSEDDVRRLEAFGNIEECTILRPGDGNKGCFAFKYSSHAEQAALINALHGSQTMPGA
 SSSLVVKFADTDKERTMRRMQMAGQMGMFNPMIIPFGAYGAYAALMQQAALMASVAQGGYLNPMAAF
 AAAQMQLMAALNMNGLAAPMTPTSGGSTPPGITAPAVPSIPSPIGVNGFTGLPPQANGQPAAEAVFANG
 IHPYPAQSPTAADPLQQAYAGVQYAGPAAYPAAYGQISQAFPQPPMIPQQQREGPEGCNLLIYHLPQE
 FGDAELMQMFLPFGNVISSKVFVDRATNQSKCFVFSFDNPAQAQTAIQAMNGFQIGMKRLKVLKRPKD
 ANRPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1799_e07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001146294

ORF Size: 1485 bp

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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

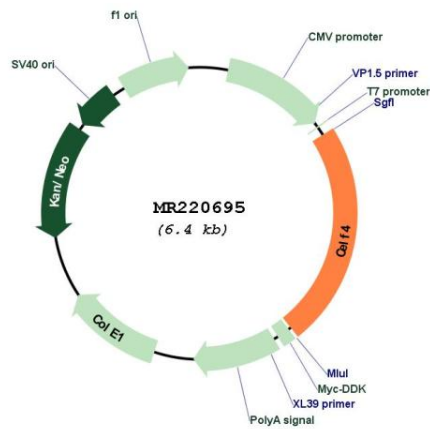
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001146294.2](#)
RefSeq Size: 3980 bp
RefSeq ORF: 1488 bp
Locus ID: 108013
UniProt ID: [Q7TSY6](#)
Cytogenetics: 18 A2
MW: 53.4 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]

Product images:



Circular map for MR220695