

Product datasheet for **MG220694**

Celf4 (NM_133195) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Celf4 (NM_133195) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Celf4
Synonyms:	A230070D14Rik; Brul4; BRUNOL-4; Brunol4; C130060B05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220694 representing NM_133195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTATATAAAGATGGCCACGTTAGCAAACGGACAGGCTGACAACGCGAGCCTCAGTACCAACGGGCTAG
 GCAGCAGCCCGGGCAGCGCCGGGCATATGAACGGATTAAGCCACAGCCCGGGGAACCCGTCGACCATTCC
 CATGAAGGACCACGATGCCATCAAGCTGTTTCATTGGGCAGATCCCCGAAACCTGGATGAGAAGGACCTC
 AAGCCCTCTTCGAGGAGTTCGCAAGTCTACGAGCTTACGGTCTGAAGGACAGGTTACAGGCATGC
 ACAAAGGCTGCGCTTTCCTCACCTACTGCGAGCGTGAGTCAGCGCTGAAGGCCAGAGCGCGCTGCACGA
 GCAGAAGACCCTGCCGGGATGAACCGGCCGATCCAGGTGAAGCCTGCGGACAGCGAGAGCCGAGGAGGT
 AGTAGCTGCCTGCCAGCCCCCTCACAAGATAGAAACTCTTCGTGGGTATGCTCAACAAGCAACAAT
 CTGAGGACGAGCTGCCCGCCTTTCGAGGCCTTCGGGAACATCGAGGAGTGCATATCCTGCGCGGGCC
 GGACGGCAACAGCAAGGGGTGCGCCTTTGTGAAGTACTCTCCCATGCCGAGGCACAAGCCGCCATTAAC
 GCTCTACATGGCAGCCAGACCATGCCTGGAGCCTCCTCCAGCCTGGTGGTCAAGTTTGCAGACACTGACA
 AGGAGCGCACAATGCGACGGATGCAGCAGATGGCTGGCCAGATGGGCATGTTCAACCCCATGGCCATCCC
 CTTTCGGAGCCTATGGCGCTATGCTCAGGCACTGATGCAGCAGCAAGCAGCCCTCATGGCATCGGTGCGG
 CAAGGAGGCTACCTGAATCCCATGGCTGCCTTCGCTGCCGCCAAATGCAGCAGATGGCGGCCCTCAACA
 TGAATGGCCTGGCAGCCGACCTATGACCCCAACCTCAGGTGGCAGCACCCCTCCAGGCATCACTGCACC
 AGCTGTGCCTAGCATCCCATCCCCATTGGGGTGAACGGCTTACGGGCCCTCCCCCTCAGGCCAATGGG
 CAGCCTGCTGCGAAGCTGTGTTTGCCAATGGCATTACCCCTACCCAGCACAGAGCCCCACCGCAGCCG
 ACCCCCTGCAGCAGGCCCTACGCTGGAGTGCAGCAGTATGCAGGACCTGCCTACCTGCTCATGGTCA
 GATTAGCCAGGCCTTTCCTCAGCCACCGCAATGATTCCCAGCAACAGAGAGAAGGGCCCGAGGGCTGT
 AACCTGCTCATCTACCATCTGCCCCAGGAGTTTGGGGACGCTGAGCTGATGCAGATGTTCTCCCTTTCG
 GCTTCGTGAGCTTCGACAACCCGGCCAGCGCACAGACCGCCATCCAGGCCATGAACGGCTTCCAGATAGG
 CATGAAGAGGCTCAAGGTGCAGCTGAAGCGGCCCAAGACGCCAATCGCCCGTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG220694 representing NM_133195
 Red=Cloning site Green=Tags(s)

MYIKMATLANGQADNASLSTNGLGSSPGSAGHMNGLSHSPGNPSTIPMKDHDAIKLFIGQIPRNLDKDL
 KPLFEFEGKIYELTVLKDRFTGMHKGCAFLTYCERESALKAQSALHEQKTLPGMNRPIQVKPADSESRGG
 SSCLRQPPSQDRKLFVGMNKKQSEDDVRRLEAFGNIEECTILRGPDGNSKGCFAVKYSSHAEAQAAIN
 ALHGSQTMPGASSLVVKFADTDKERTMRRMQMAGQMGFMNPMIIPFGAYGAYAQALMQQAALMASVA
 QGGYLNPMAAFAAAQMQMAALNMNGLAAAPMPTPTSGGSTPPGITAPAVPSIPSPIGVNGFTGLPPQANG
 QPAAEAVFANGIHPYPAQSPTAADPLQQAYAGVQYAGPAYPAAYGQISQAFPQPPMIPQQQREGPEGC
 NLLIYHLPQEFGDAELMQMFLPFGFVSFDNPASAQTAIQAMNGFQIGMKRLKVQLKRPKDANRPY

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_133195

ORF Size: 1452 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_133195.3](#), [NP_573458.2](#)

RefSeq Size: 3947 bp

RefSeq ORF: 1455 bp

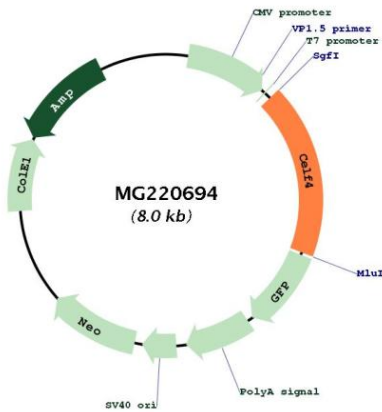
Locus ID: 108013

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]

Product images:



Circular map for MG220694