

Product datasheet for **MR220749**

Celf4 (NM_001174074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Celf4 (NM_001174074) 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:

>MR220749 representing NM_001174074
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTATATAAAGATGGCCACGTTAGCAAACGGACAGGCTGACAACGCGAGCCTCAGTACCAACGGGCTAG
 GCAGCAGCCCGGCAGCGCCGGCATATGAACGGATTAAGCCACAGCCCGGGGAACCCGTCGACCATTCC
 CATGAAGGACCACGATGCCATCAAGCTGTTCAATTGGGCAGATCCCCGAAACCTGGATGAGAAGGACCTC
 AAGCCCCTCTTCGAGGAGTTCGCAAGATCTACGAGCTTACGGTCTGAAGGACAGGTTACAGGCATGC
 ACAAAGGCTGCGCTTTCCTCACCTACTGCGAGCGTGAGTCAGCGCTGAAGGCCAGAGCGCGCTGCACGA
 GCAGAAGACCCTGCCGGGATGAACCGGCCGATCCAGGTGAAGCCTGCGGACAGCGAGAGCCGAGGAGGT
 AGTAGCTGCCTGCCAGCCCCCTCACAAAGATAGAAAACCTTCGTGGGTATGCTCAACAAGCAACAAT
 CTGAGGACGACGTGCCCGCCTTTCGAGGCCTTCGGGAACATCGAGGAGTGCATATCCTGCGCGGGCC
 GGACGGCAACAGCAAGGGGTGCGCCTTTGTGAAGTACTCTCCCATGCCAGGCACAAGCCGCCATCAAC
 GCTCTACATGGCAGCCAGACCATGCCTGGAGCCTCCTCCAGCCTGGTGGTCAAGTTTGCAGACACTGACA
 AGGAGCGCACAATGCGACGGATGCAGCAGATGGCTGGCCAGATGGGCATGTTCAACCCCATGGCCATCCC
 CTTTCGGAGCCTATGGCGCCTATGCTCAGGCAATGCAGCAGCAAGCAGCCCTCATGGCATCGGTCGCGCAA
 GGAGGCTACCTGAATCCCATGGCTGCCTTCGCTGCCGCCCAAATGCAGCAGATGGCGGCCCTCAACATGA
 ATGGCCTGGCAGCCGCACCTATGACCCCAACCTCAGGTGGCAGCACCCCTCCAGGCATCACTGCACCAGC
 TGTGCCTAGCATCCCATCCCCATTGGGGTGAACGGCTTACGGGGCTCCCCCTCAGGCCAATGGGCAG
 CCTGCTGCGGAAGCTGTGTTTGCCAATGGCATTACCCCTACCCAGCACAGAGCCCCACCGCAGCCGACC
 CCCTGCAGCAGGCCTACGCTGGAGTGCAGCAGTATGCAGGACCTGCCTACCCTGCCTATGGTCAGAT
 TAGCCAGGCCTTTCCTCAGCCACCGCCAATGATTCCCCAGCAACAGAGAGAAGGCTTCGTGAGCTTCGAC
 AACCCGGCCAGCGCACAGACCGCCATCCAGGCCATGAACGGCTTCCAGATAGGCATGAAGAGGCTCAAGG
 TGCAGCTGAAGCGGCCCAAAGACGCCAATCGCCCGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220749 representing NM_001174074
 Red=Cloning site Green=Tags(s)

MYIKMATLANGQADNASLSTNGLGSSPGSAGHMNGLSHSPGNPSTIPMKDHDAIKLFIGQIPRNLDEKDL
 KPLFEFEGKIYELTVLKDRFTGMHKGCAFLTYCERESALKAQSALHEQKTLPGMNRPIQVKPADSESRGG
 SSCLRQPPSQDRKLFVGM LNKKQSEDDVRRLEAFGNIEECTILRGPDGNSKGCAFVKYSSHAEQAAIN
 ALHGSQTMPGASSLVVKFADTDKERTMRRMQMAGQMGMFNPMIIPFGAYGAYAQMQQQAALMASVAQ
 GGYLNPMAAFAAAQMQMAALNMNGLAAAPMPTPTSGGSTPPGITAPAVPSIPSPIGVNGFTGLPPQANGQ
 PAAEAVFANGIHPYPAQSPTAADPLQQAYAGVQYAGPAYPAAYGQISQAFPQPPMIPQQQREGFVSFD
 NPASAQTAIQAMNGFQIGMKRLKVQLKRPKDANRPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001174074

ORF Size: 1368 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_001174074.2](#)

RefSeq Size: 3863 bp

RefSeq ORF: 1371 bp

Locus ID: 108013

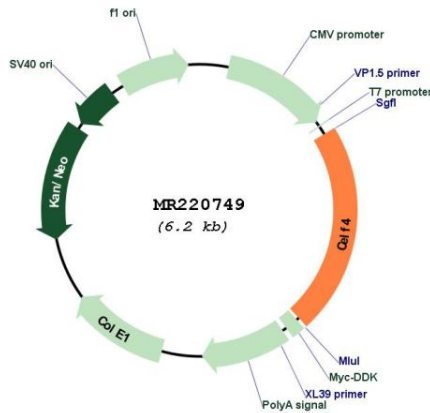
UniProt ID: [Q7TSY6](#)

Cytogenetics: 18 A2

MW: 49 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 MR220749