

Product datasheet for **MG221685**

Celf2 (NM_001110230) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Celf2 (NM_001110230) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Celf2
Synonyms:	B230218O03; B230345P09Rik; C88023; CELF-2; CUG-BP2; Cugbp2; D230046B21Rik; Etr-3; mETR-3; Napor
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221685 representing NM_001110230
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTTCCCTAATCTCTGACCTGGACTCCCTGAGAGGCTGGAAAGCGTTAAGAGAGACTGCCACAGAGT
 TATCTGGAAGTCCACCAAGTAACGGCACAGCCAACAAGATGAACGGAGCTTTGGATCATTAGACCAGCC
 AGACCCAGATGCCATTAAGATGTTTGTCTGGACAGATCCCTAGGTCCTGGTCGAAAAGGAGCTGAAAAGAA
 CTTTTTGAAGCTTATGGAGCTGTCTACCAGATCAACGCTCTCCGGGACCGGAGTCAGAACCCTCCCCAGA
 GTAAAGGTTGTTGTTTCGTAACATTTTATAACAAGAAAAGCTGCACTTGAGGCCAGAAATGCACTGCACAA
 TATTAACCTTTACCTGGGATGCATCATCCATTAGATGAAACCTGCAGATAGTAAAAGTCAAACGCT
 GTGGAAGACAGAAAATTGTTTCATAGGAATGGTTTCCAAGAAATGTAACGAGAATGATATCAGAGTATGT
 TTTCTCCATTGCGTCAGATAGAAGAATGCCGATTCTCCGGGACCTGATGGGCTGAGTCGAGGCTGTGC
 GTTTGTACATTTTCTACAAGGGCAATGGCACAGAATGCAATCAAAGCCATGCATCAGTCTCAGACCATG
 GAGGGCTGCTCTTACCAATCGTGGTGAAGTTTGTCTGACACTCAGAAGGACAAAGAGCAAAGGCCCTCC
 AGCAGCAGCTTGACAGCAGATGCAACAGCTCAACACTGCCACTTGGGGGAACTAACAGGACTGGGTGG
 ACTTACCCCGCAGTACCTGGCGTTCTGCAGCAGGCCACCTCCTCCAGCAACTGGGTGCATTAGTGGC
 ATTCAGCAAAATGGCTGGCATGAATGCTTACAGTTACAGAATCTGGCAACTGGCTGCTGCTGCAGCTG
 CTGCTCAAACCTCAGCCACCAGCACTGCAACCCCTCTGTCTAGCACAAAGCAGTGCCTGGGAGCCCT
 CACAAGCCCTGTGGCTGCTTCAACCCCAATCCACCGCTGGTGGCCATGAATTCCTTGACCTCTTT
 GGGACTCTACAAGGATTGGCTGGAGCCACTGTCGGATTGAATAATTAATGCACTAGCAGGTATGGCGG
 CTCTGAATGGAGGACTTGGCGCCACAGGCTTGACGAATGGTACGGCTGGCACCATGGACCCCTGACCCA
 GGCCCTACTCAGGAATTCAGCAGTATGCGGCAGCTGCACTGCCACTTTGTACAGCCAGAGCTTGTGCAA
 CAGCAGAGTGTGCAGGCAGCCAGAAGGAAGTCCAGAGGGGGCAAACCTCTTTATTTACCACCTCCAC
 AGGAGTTTGGAGACCAGGACATTCTGCAGATGTTTCATGCCCTTTGGAAATGTTATCTCTGCTAAAGTCTT
 CATTGACAAACAGACCAATCTGAGCAAGTCTTTGGTTTTGTTAGCTATGACAATCCAGTCTCTGCACAA
 GCTGCAATCCAGGCTATGAACGGCTTTCAGATCGGCATGAAACGCTTGAAGGTGCAGCTGAAACGCTCCA
 AAAACGACAGCAAACCTTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221685 representing NM_001110230
 Red=Cloning site Green=Tags(s)

MVSLISDLDLRLGWKALRETATEL SGSPPSNGTANKMNGALDHSQDPDPAIKMFVQIPRSWSEKELKE
 LFEPYGAVYQINVLDRDRSQPPQSKGCCFVTFYTRKAALAEQNALHNIKTLPGMHHPIQMKPADSEKSN
 VEDRKLFIGMVSKKCNENDIRVMFSPFGQIEECRILRGPDGLSRGCAFVTFSTRAMAQNAIKAMHQSQTM
 EGCSSPIVVKFADTQKDKQRRLQQQLAQMQQLNTATWGNLTGLGGLTPQYLALLQQATSSSNLGAFTSG
 IQQMAGMNALQLQNLATLAAAAAAQTSATSTNANPLSSTSSALGALTPVAASTPNSTAGAAMNSLTSL
 GTLQGLAGATVGLNNINALAGMAALNGGLGATGLTNGTAGTMDALTQAYSIGIQYAAAAALPTLYSQSLQ
 QQAAGSQKEGPEGANLFIYHLPQEFGDQDILQMFMPFGNVISAKVFIKQTNLSKCFGFVSYDNPVSAQ
 AAIQAMNGFQIGMKRLKVLKRSKNDSPY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001110230

ORF Size: 1560 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_001110230.1](#), [NP_001103700.1](#)

RefSeq Size: 7749 bp

RefSeq ORF: 1563 bp

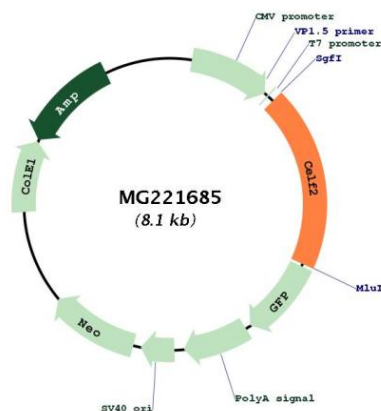
Locus ID: 14007

UniProt ID: [Q9Z0H4](#)

Cytogenetics: 2 A1

Gene Summary:

RNA-binding protein implicated in the regulation of several post-transcriptional events. Involved in pre-mRNA alternative splicing, mRNA translation and stability. Mediates exon inclusion and/or exclusion in pre-mRNA that are subject to tissue-specific and developmentally regulated alternative splicing (By similarity). Specifically activates exon 5 inclusion of TNNT2 in embryonic, but not adult, skeletal muscle (By similarity). Activates TNNT2 exon 5 inclusion by antagonizing the repressive effect of PTB (By similarity). Acts as both an activator and repressor of a pair of coregulated exons: promotes inclusion of the smooth muscle (SM) exon but exclusion of the non-muscle (NM) exon in actinin pre-mRNAs (By similarity). Promotes inclusion of exon 21 and exclusion of exon 5 of the NMDA receptor R1 pre-mRNA (By similarity). Involved in the apoB RNA editing activity (By similarity). Increases COX2 mRNA stability and inhibits COX2 mRNA translation in epithelial cells after radiation injury. Modulates the cellular apoptosis program by regulating COX2-mediated prostaglandin E2 (PGE2) expression. Binds to (CUG)_n triplet repeats in the 3' UTR of transcripts such as DMPK (By similarity). Binds to the muscle-specific splicing enhancer (MSE) intronic sites flanking the TNNT2 alternative exon 5 (By similarity). Binds preferentially to UG-rich sequences, in particular UG repeat and UGUU motifs (By similarity). Binds to apoB mRNA, specifically to AU-rich sequences located immediately upstream of the edited cytidine (By similarity). Binds AU-rich sequences in the 3' UTR of COX2 mRNA. Binds to an intronic RNA element responsible for the silencing of exon 21 splicing. Binds to (CUG)_n repeats. May be a specific regulator of miRNA biogenesis. Binds to primary microRNA pri-MIR140 and, with CELF1, negatively regulates the processing to mature miRNA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG221685