OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC216627

Celf2 (NM_001110232) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Celf2 (NM_001110232) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Celf2
Synonyms:	B230218O03; B230345P09Rik; C88023; CELF-2; CUG-BP2; Cugbp2; D230046B21Rik; Etr-3; mETR-3; Napor
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC216627 representing NM_001110232
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACGGAGCTTTGGATCATTCAGACCAGCCAGACCCAGATGCCATTAAGATGTTTGTCGGACAGATCC
CTAGGTCCTGGTCGGAAAAGGAGCTGAAAGAACTTTTTGAGCCTTATGGAGCTGTCTACCAGATCAACGT
CCTCCGGGACCGGAGTCAGAACCCTCCCCAGAGTAAAGGTTGTTGTTTCGTAACATTTTATACAAGAAAA
GCTGCACTTGAGGCCCAGAATGCACTGCACAATATTAAAACTTTACCTGGGATGCATCATCCCATTCAGA
TGAAACCTGCAGATAGTGAAAAGTCAAACGCTGTGGAAGACAGAAAATTGTTCATAGGAATGGTTTCCAA
GAAATGTAACGAGAATGATATCAGAGTGATGTTTTCTCCATTCGGTCAGATAGAAGAATGCCGGATTCTC
CGGGGACCTGATGGGCTGAGTCGAGGCTGTGCGTTTGTCACATTTTCTACAAGGGCAATGGCACAGAATG
CAATCAAAGCCATGCATCAGTCTCAGACCATGGAGGGCTGCTCTTCACCAATCGTGGTGAAGTTTGCTGA
CACTCAGAAGGACAAAGAGCAAAGGCGCCTCCAGCAGCAGCTTGCACAGCAGATGCAACAGCTCAACACT
GCCACTTGGGGGAACCTAACAGGACTGGGTGGACTTACCCCGCAGTACCTGGCGCTTCTGCAGCAGGCCA
CCTCCTCCAGCAACCTGGGTGCATTCAGTGGCATTCAGCAAATGGCTGGCATGAATGCTTTACAGTTACA
GAATCTGGCAACACTGGCTGCTGCTGCAGCTGCTGCTCAAACCTCAGCCACCAGCACCAATGCAAACCCT
CTGTCTAGCACAAGCAGTGCCCTGGGAGCCCTCACAAGCCCTGTGGCTGCTTCAACCCCCAATTCCACCG
CTGGTGCGGCCATGAATTCCTTGACCTCTCTTGGGACTCTACAAGGATTGGCTGGAGCCACTGTCGGATT
GAATAATATTAATGCACTAGCAGGTATGGCGGCTCTGAATGGAGGACTTGGCGCCACAGGCTTGACGAAT
GGTACGGCTGGCACCATGGACGCCCTGACCCAGGCCTACTCAGGAATTCAGCAGTATGCGGCAGCTGCAC
TGCCCACTTTGTACAGCCAGAGCTTGCTGCAACAGCAGAGTGCTGCAGGCAGCCAGAAGGAAGGTCCAGA
GGGGGCAAACCTCTTTATTTACCACCTTCCACAGGAGTTTGGAGACCAGGACATTCTGCAGATGTTCATG
CCCTTTGGAAATGTTATCTCTGCTAAAGTCTTCATTGACAAACAGACCAATCTGAGCAAGTGCTTTGGTT
TTGTTAGCTATGACAATCCAGTCTCTGCACAAGCTGCAATCCAGGCTATGAACGGCTTTCAGATCGGCAT
GAAACGCTTGAAGGTGCAGCTGAAACGCTCCAAAAACGACAGCAAACCTTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001110232

Insert Size: 1455 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001110232.1, NP_001103702.1
RefSeq Size:	7735 bp
RefSeq ORF:	1455 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 exonS 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 immediatly 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] Transcript Variant: This variant (5) differs in the 5' UTR and has multiple differences in the presence and absence of exons at its 5' end, compared to variant 1. These differences cause translation initiation at a downstream AUG and an isoform (5) that is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.