

Product datasheet for **MG208099**

Brunol4 (BC048405) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brunol4 (BC048405) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Brunol4
Synonyms:	CELF4, Bru14, BRUNOL-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208099 representing BC048405
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGTATATAAAGATGGCCACGTTAGCAAACGGACAGGCTGACAACGCGAGCCTCAGTACCAACGGGCTAG
 GCAGCAGCCCGGGCAGCGCCGGGCATATGAACGGATTAAGCCACAGCCCGGGGAACCCGTCGACCATTC
 CATGAAGGACCACGATGCCATCAAGCTGTTTATTGGGCAGATCCCCGAAACCTGGATGAGAAGGACCTC
 AAGCCCCTCTTCGAGGAGTTCGGCAAGATCTACGAGCTTACGGTTCTGAAGGACAGGTTACAGGCATGC
 ACAAAGGCTGCGCTTTCCTCACCTACTGCGAGCGTGAGTCAGCGCTGAAGGCCAGAGCGCGCTGCACGA
 GCAGAAGACCCTGCCCGGATGAACGGCCGATCCAGGTGAAGCCTGCGGACAGCGAGAGCCGAGGAGGT
 AGTAGCTGCCTGCGCCAGCCCCCTTACATAGAAAACCTCTCGTGGGTATGCTCAACAAGCAACAATCTG
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 CGGCAACAGCAAGGGGTGCGCTTGTGAAGTACTCTCCATGCCGAGGCACAAGCCGCCATCAACGCT
 CTACATGGCAGCCAGACCATGCCTGGAGCCTCCTCCAGCCTGGTGGTCAAGTTTGCAGACACTGACAAGG
 AGCGCACAAATGCGACGGATGCAGCAGATGGCTGGCCAGATGGGCATGTTCAACCCCATGGCCATCCCCTT
 CGGAGCCTATGGCGCCTATGCTCAGGCACTGATGCAGCAGCAAGCAGCCCTCATGGCATCGGTCGCGCAA
 GGAGGCTACCTGAATCCCATGGCTGCCTTCGCTGCCGCCCAAATGCAGCAGATGGCGGCCCTCAACATGA
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 CTGCTCATCTACCATCTGCCCCAGGAGTTTGGGACGCTGAGCTGATGCAGATGTTCTCCCTTTTCGGTA
 ATGTCTATCTCTCGAAAGTGTGTTGTGGATCGGGCGACTAACCAAAGTAAATGCTTTGGCTTCGTGAGCTT
 CGACAACCCGGCCAGCGCACAGACCGCCATCCAGGCCATGAACGGCTTCCAGATAGGCATGAAGAGGCTC
 AAGGTGCAGCTGAAGCGGCCCAAAGACGCCAATCGCCGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

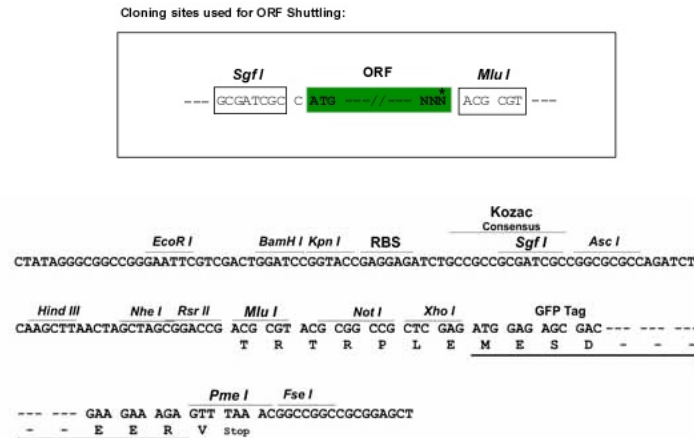
>MG208099 representing BC048405
 Red=Cloning site Green=Tags(s)

MYIKMATLANGQADNASLSTNGLSSPGSAGHMNGLSHSPGNPSTIPMKDHDAIKLFIGQIPRNLEKDL
 KPLFEEFGKIYELTVLKDRFTGMHKGAFLTYCERESALKAQSALHEQKTLPGMNRPIQVKPADSESRRG
 SSCLRQPPSHRKL FVGM LN KQSEDDVRRLEAFGNIEECTILRGPDGNSKGCAFVKYSSHAEQA AINA
 LHGSQTPGASSSLVVKFADTDKERTMRRMQMAGQMGMFNPMIIPFGAYGAYALMQQAALMASVAQ
 GGYLNPMAFAAAQMQQMAALNMNGLAAAPMTPTSGGSTPPGITAPAVPSIPSPIGVNGFTGLPPQANGQ
 PAEEAVFANGIHPYPAQSPTAADPLQYAYGVQYAGPAYPAAYGQISQAFPPPPMIPQQQREGPEGCN
 LLIYHLPQEFDAELMQMFLPFGNVISSKVFVDRATNQSKCFGVVSFDNPASAQTAIQAMNGFQIGMKRL
 KVQLKRPKDANRPY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC048405

ORF Size: 1514 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: [BC048405](#), [AAH48405](#)

RefSeq Size: 2172 bp

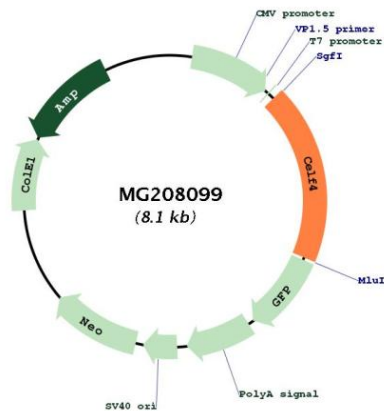
RefSeq ORF: 1514 bp

Locus ID: 108013

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 MG208099