

Product datasheet for **SC116449**

MEF2B (BORCS8-MEF2B) (NM_005919) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEF2B (BORCS8-MEF2B) (NM_005919) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEF2B
Synonyms:	LOC729991-MEF2B; MEF2B; MEF2BNB-MEF2B; RSRFR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005919, the custom clone sequence may differ by one or more nucleotides

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ATGGGGAGGAAAAAATCCAGATCTCCCGCATCTGGACCAAAGGAATCGGCAGGTGACGTTACCAAGC
GGAAGTTCGGGCTGATGAAGAAGGCCTATGAGCTGAGCGTGCTCTGTGACTGTGAGATAGCCCTCATCAT
CTTCAACAGCGCCAACCGCCTCTCCAGTATGCCAGCACGGACATGGACCGTGTGCTGCTGAAGTACACA
GAGTACAGCGAGCCCCACGAGAGCCGCACCAACTGACATCCTCGAGACGCTGAAGCGGAGGGGCATTG
GCCTCGATGGGCCAGAGCTGGAGCCGGATGAAGGGCCTGAGGAGCCAGGAGAGAAGTTTCGGAGGCTGGC
AGGCGAAGGGGGTGATCCGGCCTTGCCCCGACCCGGCTGTATCCTGCAGCTCCTGCTATGCCAGCCCA
GATGTGGTATACGGGGCCTTACCGCCACCAGGCTGTGACCCAGTGGGCTTGGGAAGCACTGCCCGCCC
AGAGCCGCCCATCTCCCTTCCGACCAGCAGCCCCAAAGCCGGGCCCCAGGCCTGGTGCACCCTCTCTT
CTCACCAAGCCACCTCACCAGCAAGACACCACCCCACTGTACCTGCCGACGGAAGGGCGGAGGTGAGAC
CTGCCTGGTGGCCTGGCTGGGCCCGAGGGGGACTAAACACCTCCAGAAGCCTCTACAGTGGCCTGCAGA
ACCCCTGCTCCACTGCAACTCCCGGACCCCACTGGGGAGCTTCCCCTTCTCCCGGAGGCCCCCACTG
GGGGCCGAAGCCTGGGCGAGGAGGGTCCCCAACCCGCGGCGCCTCCCGCCGACCCCCCACTGAGCA
TCAAGTCTGAGCGCCTCTCTCCGGCCCCGGGGCCCCGGCGACTTTCCTAAGACCTTCCCCTATCCCTT
GCTCCTCGCCCGGTCCCTGGCAGAGCCTCTGCGGCCTGGGCCCGCCTGCCCGGCTGCCCTTGGCCGAC
GGCTGGCCCCGGTAGGAGATCACCCGGTGGCACCAGCCAGAGCGCTCGCCAGGTACGGCGAGGGCACGT
GGGGACCCACCTCCCTCCAGGCCTCTTCAGAGAAGACCCAACAGTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005919 unedited
 TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGCTATGGAGGAGCCGGA
 GATGCAGCTCAAGGGGGAAGAAAGTACGGACAGGTTCACTGAGAGCGTCTACGTCCTGG
 CCAACGAGCCATCCGTGGCCCTGTACCGGCTGCAGGAGCATGTGCGTCCCTCCCCG
 AGCTGGCCAGCAAGGAGACATGCAGCGTTGGGAGGAGCAGAGCCAGGGAGCCATCT
 ACACTGTGGAGTACGCTGCAGCGCCGTGAAGAACCCTGGTGGACAGCAGCGTCTACTTCC
 GCAGCTGGAGGTTCTGCTCAAACAGGCCATCAGCATCCGGGACCATATGAATGCCAGTG
 CCCAGGGCCACAGCCCGGAGGAACACCCCGCCCTCCTCAGCCTGATCCTGGAAGAGAC
 TCGGGGCCCCAGCCTCCGCCAACCCAGAGACGGGGTTTACCATGTTGGCTAGGCTGG
 TCTCAAACCTCTGAGCTCGTGATCCTCCCGCTCAGCCTCCCAAAGTGCTGGGATTATAG
 GTGTGAGCCACCCAGCCAGCCTTGGTTCTCCCTTTCTTCATCTGGATAAGGAAGGCTGG
 ACTGCACCTTCTACAGGCTGAGTTGGACATTCGAGATCTACCCTCCCAACCTGCATT
 CTGCCTCAAGCAGCAACGCCACCCAGGCTCANGCCACATGGAGAAGCCACCCCTAGNT
 CCAGTGGTGGATGTGGCACCTCGGCCTGGCCATCAGAGCTCCCTTGTCTAGTTCCCTATG
 ATGGTTNGAGATGGACACGTGACCCATGAGCGACCTTCTGGGAGTTCTCCAGGAACAC
 AGGAAGGTGAGCTGGGTGTATGGGAACAGGCCCGCCAGGGGTTCCGGGGACCTGAAAA
 CATGGGGAGCCCTGGATCACTGTACTGAACTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005919 unedited
 GCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCCATGAACTGAAGAAATGAAAT
 TGGCTAGTGTACAGTTGGATCCAGGGCTCCACACAATGTTCTCAGGTCCCCCGG
 AACCCCTCGCCCGGCCCTGGTTCCATACCCAGCTCAACCTTCTGATGCTCCTGGTA
 GAACTCCAGAAAGGTCGCTCATTGGGTACGTGTCCATCTCAAACCAATCACTAGGAA
 CCTAGGACAAGGAGCTCTGATTGGCCAGGCCAGGTGCCACATCCACCACTGGAAGTAG
 GGGTGGCTTCTCCATGTGGCCTGAGCCTGGGGTGGGCGTTGCTGCTTGAGGCAGAATGCA
 GGTTGGGAGGGTAGATCTGCGAATGTCCAACCTCAGCCTGTAGAGAAGGTGCAAGTCCAGCC
 TTCCTTATCCAGATGAAGAAAGGGAACCAAGGCTGGGTGCGGTGGCTCACACCTATAA
 TCCCAGCACTTTGGGAGGCTGAGCGGGGAGGATCACGAGCTCAGGAGTTTGAGACCAGCC
 TAGCCAACATGGTGAACCCCGTCTCTGGGTGGCGGAGGCTGGGGGGCCCGAGTCTCT
 TCCAGGATCAGGCTGAGGAGGGCGGGGTTGTTCTCCGGCTGTGGCCCTNGGCACTGG
 CATTCTATGGTCCCGGATGCTGATGGCCTGTTTGAGCAGACCTCCACGCTGCGGAAGT
 AGACGCTGCTGTCCACCANGTTCTTACGGCGCTGCAGGCGTACTCCACAGTGTAGATGG
 CTCCTTGCTCTGCTCCTCCAACGCTGCATGNTGCCTTGTGCTGGGCCAGCTCGGGGAA
 GGAGCGACCCCATGCTCCTGCANCCGTACAGGGCCACGNATGGGCTCGTGCCCAAGCCT
 AAACCCTCTCATGAACTGCNCGGGACTTTCTCCCTTGACTGATTTCCGGCTCTCCTAG
 CGCCTTGTGCCAATCCCGG

Restriction Sites:

NotI-NotI

ACCN:

NM_005919

Insert Size:

1050 bp

OTI Disclaimer:

The sequence of an 'OriGene Unique Variant' differs significantly from the associated reference. It represents a novel splice variant from the same gene locus of the reference. Although such variants are true transcripts and present opportunity for discoveries, they are not yet curated by NCBI and should not be used if the exact reference accession sequence is required.

OTI Annotation:	This TrueClone was found to represent an alternative form of the specific reference to which it is associated. Its Open Reading Frame (ORF) may represent a novel form or alternative splice variant. By virtue of it being a true transcript (cDNA clone not PCR product), it provides a biologically relevant copy of its mRNA template. For more details, please evaluate the sequence information provided on this website or contact our customer care specialists.
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:	<ol style="list-style-type: none">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_005919.1 , NP_005910.1
RefSeq Size:	1671 bp
RefSeq ORF:	1098 bp
Locus ID:	4207
UniProt ID:	Q02080
Cytogenetics:	19p13.11
Domains:	MADS
Protein Families:	Transcription Factors
Gene Summary:	<p>This gene represents numerous read-through transcripts that span GeneID:729991 and 100271849. Many read-through transcripts are predicted to be nonsense-mediated decay (NMD) candidates, and are thought to be non-coding. Some transcripts are predicted to be capable of translation reinitiation at a downstream AUG, resulting in expression of at least one isoform of myocyte enhancer factor 2B (MEF2B) from this read-through locus. At least one additional MEF2B variant and isoform can be expressed from a downstream promoter, and is annotated on GeneID:100271849. [provided by RefSeq, Oct 2010]</p> <p>Transcript Variant: This variant (1) lacks two alternate exons in the 5' region and one alternate exon in the 3' region, compared to variant 2. This variant is thought to be protein coding because translation can reinitiate at the downstream AUG, resulting in expression of an isoform of MEF2B (geneID:100271849). Isoform b has a shorter and distinct C-terminus, compared to MEF2A isoform a (NP_001139257.1). 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.</p>