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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:	BORCS8-MEF2B
Synonyms:	LOC729991-MEF2B; MEF2B; MEF2BNB-MEF2B; RSRFR2
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005919, the custom clone sequence may differ by one or more nucleotides

ATGGGGAGGAAAAAAATCCAGATCTCCCGCATCCTGGACCAAAGGAATCGGCAGGTGACGTTCACCAAGC
GGAAGTTCGGGCTGATGAAGAAGGCCTATGAGCTGAGCGTGCTCTGTGACTGTGAGATAGCCCTCATCAT
CTTCAACAGCGCCAACCGCCTCTTCCAGTATGCCAGCACGGACATGGACCGTGTGCTGCTGAAGTACACA
GAGTACAGCGAGCCCCACGAGAGCCGCACCAACACTGACATCCTCGAGACGCTGAAGCGGAGGGGCATTG
GCCTCGATGGGCCAGAGCTGGAGCCGGATGAAGGGCCTGAGGAGCCAGGAGAGAAGTTTCGGAGGCTGGC
AGGCGAAGGGGGTGATCCGGCCTTGCCCCGACCCCGGCTGTATCCTGCAGCTCCTGCTATGCCCAGCCCA
GATGTGGTATACGGGGCCTTACCGCCACCAGGCTGTGACCCCAGTGGGCTTGGGGAAGCACTGCCCGCCC
AGAGCCGCCCATCTCCCTTCCGACCAGCAGCCCCCAAAGCCGGGCCCCCAGGCCTGGTGCACCCTCTCTT
CTCACCAAGCCACCTCACCAGCAAGACACCACCCCCACTGTACCTGCCGACGGAAGGGCGGAGGTCAGAC
CTGCCTGGTGGCCTGGCTGGGCCCCGAGGGGGACTAAACACCTCCAGAAGCCTCTACAGTGGCCTGCAGA
ACCCCTGCTCCACTGCAACTCCCGGACCCCCACTGGGGAGCTTCCCCTTCCTCCCCGGAGGCCCCCCAGT
GGGGGCCGAAGCCTGGGCGAGGAGGGTCCCCCAACCCGCGGCGCCTCCCCGCCGACCCCCCCAGTCAGCA
TCAAGTCTGAGCGCCTCTCTCCGGCCCCCGGGGGCCCCGGCGACTTTCCTAAGACCTTCCCCTATCCCTT
GCTCCTCGCCCGGTCCCTGGCAGAGCCTCTGCGGCCTGGGCCCGCCCTGCGCCGGCTGCCCTTGGCCGAC
GGCTGGCCCCGGTAGGAGATCACCCGGTGGCACCAGCCCAGAGCGCTCGCCAGGTACGGCGAGGGCACGT
GGGGACCCCACCTCCCTCCAGGCCTCTTCAGAGAAGACCCAACAGTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005919 unedited
TAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCGCTATGGAGGAGCCGGA
GATGCAGCTCAAGGGGGAAGAAAGTCACGGACAGGTTCACTGAGAGCGTCTACGTCCTGG
CCAACGAGCCATCCGTGGCCCTGTACCGGCTGCAGGAGCATGTGCGTCGCTCCCTCCCCG
AGCTGGCCCAGCACAAGGCAGACATGCAGCGTTGGGAGGAGCAGAGCCAGGGAGCCATCT
ACACTGTGGAGTACGCCTGCAGCGCCGTGAAGAACCTGGTGGACAGCAGCGTCTACTTCC
GCAGCGTGGAGGGTCTGCTCAAACAGGCCATCAGCATCCGGGACCATATGAATGCCAGTG
CCCAGGGCCACAGCCCGGAGGAACCACCCCCGCCCTCCTCAGCCTGATCCTGGAAGAGAC
TCGGGGCCCCCCAGCCTCCGCCAACCCAGAGACGGGGTTTCACCATGTTGGCTAGGCTGG
TCTCAAACTCCTGAGCTCGTGATCCTCCCGCCTCAGCCTCCCAAAGTGCTGGGATTATAG
GTGTGAGCCACCGCACCCAGCCTTGGTTCTCCCTTTCTTCATCTGGATAAGGAAGGCTGG
ACTGCACCTTCTCTACAGGCTGAGTTGGACATTCGCAGATCTACCCTCCCAACCTGCATT
CTGCCTCAAGCAGCAACGCCCACCCCAGGCTCANGCCACATGGAGAAGCCACCCCTAGNT
CCAGTGGTGGATGTGGCACCTCGGCCTGGCCATCAGAGCTCCCTTGTCTAGTTCCCTATG
ATTGGTTNGAGATGGACACGTGACCCATGAGCGACCTTCCTGGGAGTTCTCCAGGAACAC
AGGAAGGTGAGCTGGGTGTATGGGAACAGGCCCGGCCAGGGGGTCCGGGGGACCTGAAAA
CATGGGGAGCCCTGGATCACTGTACTGAACTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005919 unedited
GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCCATGAAACTGAAGAAATGAAAT
TGGCTAGTGTCAGGTACAGTTGGATCCAGGGCTCCACACAATGTTCTCAGGTCCCCCCGG
AACCCCTCGCCCCGGCCTGGTTCCCATACACCCAGCTCAACCTTCCTGATGCTCCTGGTA
GAACTCCCAGGAAAGGTCGCTCATTGGGTCACGTGTCCATCTCAAACCAATCACTAGGAA
CCTAGGACAAGGGAGCTCTGATTGGCCAGGCCGAGGTGCCACATCCACCACTGGAACTAG
GGGTGGCTTCTCCATGTGGCCTGAGCCTGGGGTGGGCGTTGCTGCTTGAGGCAGAATGCA
GGTTGGGAGGGTAGATCTGCGAATGTCCAACTCAGCCTGTAGAGAAGGTGCAGTCCAGCC
TTCCTTATCCAGATGAAGAAAGGGAGAACCAAGGCTGGGTGCGGTGGCTCACACCTATAA
TCCCAGCACTTTGGGAGGCTGAGGCGGGAGGATCACGAGCTCAGGAGTTTGAGACCAGCC
TAGCCAACATGGTGAAACCCCGTCTCTGGGTTGGCGGAGGCTGGGGGGCCCCGAGTCTCT
TCCAGGATCAGGCTGAGGAGGGCGGGGGTGGTTCCTCCGGGCTGTGGCCCTNGGCACTGG
CATTCATATGGTCCCGGATGCTGATGGCCTGTTTGAGCAGACCCTCCACGCTGCGGAAGT
AGACGCTGCTGTCCACCANGTTCTTCACGGCGCTGCAGGCGTACTCCACAGTGTAGATGG
CTCCCTGGCTCTGCTCCTCCAACGCTGCATGTNTGCCTTGTGCTGGGCCAGCTCGGGGAA
GGAGCGACCCCCATGCTCCTGCANCCGTACAGGGCCACGNATGGGCTCGTGCCCAAGCCT
AAACCCTCTCATGAAACTGCNCGGGACTTTCTCCCCTTGACTGATTTCCGGCTCTCCTAG
CGCCTTGTGCCGAATCCCGG

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.
RefSeq:	NM_005919.1, NP_005910.1
RefSeq Size:	1671 bp
RefSeq ORF:	1098 bp
Locus ID:	4207
UniProt ID:	Q02080, A0A024R7N0
Domains:	MADS
Protein Families:	Transcription Factors
Gene Summary:	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] 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.