

## Product datasheet for **RG214273**

### MEF2B (BORCS8-MEF2B) (NM\_005919) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MEF2B (BORCS8-MEF2B) (NM\_005919) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** BORCS8-MEF2B  
**Synonyms:** LOC729991-MEF2B; MEF2B; MEF2BNB-MEF2B; RSRFR2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG214273 representing NM\_005919  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAGGAAAAAATCCAGATCTCCCGCATCTGGACCAAAGGAATCGGCAGGTGACGTTACCAAGC  
GGAAGTTCGGGCTGATGAAGAAGGCCTATGAGCTGAGCGTGCTCTGTGACTGTGAGATAGCCCTCATCAT  
CTTCAACAGCGCCAACCGCCTCTCCAGTATGCCAGCACGGACATGGACCGTGTGCTGCTGAAGTACACA  
GAGTACAGCGAGCCCCACGAGAGCCGACCAACTGACATCCTCGAGACGCTGAAGCGGAGGGCATTG  
GCCTCGATGGGCCAGAGCTGGAGCCGGATGAAGGGCCTGAGGAGCCAGGAGAGAAGTTTCGGAGGCTGGC  
AGGCGAAGGGGGTGATCCGGCCTTGCCCGACCCCGGCTGTATCCTGCAGCTCCTGCTATGCCAGCCCA  
GATGTGGTATACGGGCCCTTACCGCCACCAAGGCTGTGACCCAGTGGGCTTGGGGAAGCACTGCCCGCC  
AGAGCCGCCCATCTCCCTTCCGACCAGCAGCCCCAAAGCCGGGCCCCAGGCCTGGTGCACCCCTCTCT  
CTCACCAAGCCACCTCACCAGCAAGACACCACCCCACTGTACCTGCCGACGGAAGGGCGGAGGTGACAG  
CTGCCTGGTGGCCTGGCTGGGCCCGAGGGGACTAAACACCTCCAGAAGCCTCTACAGTGGCCTGCAGA  
ACCCCTGCTCCACTGCAACTCCCGGACCCCACTGGGGAGCTTCCCTTCCCTCCCGGAGGCCCCCACT  
GGGGCCGAAGCCTGGGCGAGGAGGTCCCCAACCCCGCGGCCCTCCCGCCGACCCCACTGACGCA  
TCAAGTCTGAGCGCCTCTCCCGCCCCGGGGGCCCGGCGACTTTCCTAAGACCTTCCCTATCCCTT  
GCTCCTCGCCCGGTCCCTGGCAGAGCCTTGCAGCCTGGGCCCGCCCTGCAGCCGGCTGCCCTGGCCGAC  
GGCTGGCCCCGGTAGGAGATCACCCGGTGGCACCAGCCAGAGCGCTCGCCAGGTACGGCGAGGGCACGT  
GGGACCCCACTCCCTCCAGGCCTCTTCCAGAGAAGACCAACAG

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG214273 representing NM\_005919  
 Red=Cloning site Green=Tags(s)

MGRKKIQISRILDQRNRQVTFTRKRFGLMKKAYELSVLCDCEIALIIFNSANRLFQYASTMDRVLLKYT  
 EYSEPHESRTNTDILETLKRRGIGLDGPELEPDEGPEEPGEKFRRLAGEGGDPALPRPRL YPAAPAMPSP  
 DVVYGALPPPGLDPSGLGEALPAQSRSPFRPAAPKAGPPGLVHPLFSPSHLTSKTPPPL YLPTEGRRSD  
 LPGGLAGPRGGLNTRSRLYSLQNPCSTATPGPPLGSFPFLPGGPPVGAEAWARRVPQPAAPRRPPQSA  
 SSLASLRPPGAPATFLRPSPIPCSSPGPWQSLCGLGPPCAGCPWPTAGPGRRRSPGGTSPERSPGTARAR  
 GDPTSLQASSEKTQQ

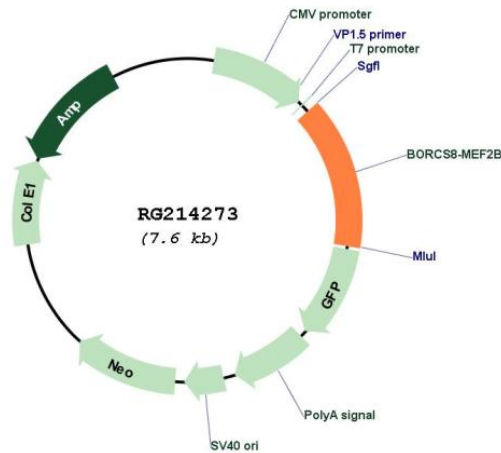
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_005919

<b>ORF Size:</b>	1095 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005919.4</a>
<b>RefSeq Size:</b>	1671 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	4207
<b>UniProt ID:</b>	<a href="#">Q02080</a>
<b>Cytogenetics:</b>	19p13.11
<b>Domains:</b>	MADS
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	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]