

Product datasheet for MC217720

Mef2c (BC026841) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2c (BC026841) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mef2c
Synonyms:	5430401D19Rik; 9930028G15Rik; AV011172; Mef2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC026841 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGAGAAAAAGATTACGATTACGAGGATAATGGATGAGCGTAACAGACAGGTGACTTTTACGAAGA
GGAAATTTGGATTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGCGACTGTGAGATTGCACTGATCAT
CTTCAACAGCACCAACAAGCTGTTCCAGTACGCCAGCACTGACATGGATAAGGTGTTGCTCAAGTACACC
GAGTACAACGAGCCGACGAGAGCCGGACAACTCAGACATTGTGGAGACATTGAGAAAGAGGGCCTCA
ATGGCTGTGACAGCCAGATCCCGATGCAGACGATTACAGTAGGTCACAGCCCTGAGTCTGAGGACAAGTA
CAGGAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAAGATTGTGTGCTGTTCCACCTCCCAGC
TTTGAGATGCCAGTTACCATCCCAGTGTCCAGCCATAACAGTTTGGTGTACAGCAATCCTGTGACACAC
TGGGAAACCCCAATCTTCTGCCACTGGCCACCCGCTCTGTCAGAGGAATAGTATGTCTCCTGGTGAAC
ACATAGACCTCCAAGTGCAGGTAACACAGGCGGTCTGATGGGCGGAGATCTGACATCCGGTGCAGGCACC
AGCGCAGGGAATGGATACGGCAACCCCGGAACCTCACCAGGCTGCTGGTCTCACCTGGTAACCTGAACA
AGAATATAACAAGCCAAATCTCCTCCCCTATGAATCTAGGAATGAATAATCGTAAGCCAGATCTCCGCGT
TCTTATCCCACCTGGCAGCAAGAACACGATGCCATCAGTGTCTGAGGATGTGGATCTGCTGTTGAATCAA
AGGATAAATAACTCCCAGTCGGCTCAGTATTGGCTACCCCGGTGGTTTCCGTAGCAACTCCTACTTTAC
CAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAACAACATATGGTACTGAGTACTCTCTGAGTAG
CGCAGATCTGTCTCTGTCTGGCTTCAACACTGCCAGTGCCTCCACCTCGGCTCTGTAAGTGGCTGG
CAGCAGCAGCACCTACATAACATGCCGCCATCTGCCCTCAGTCAAGTGGGAGACCGTACCACCACCCCTT
CGAGATACCCACAACACACCACGCGCCACGAGGCGGGGAGGTCTCCTGTTGACAGCTTGAGCAGCTGTAG
CAGTTCTACGATGGGAGCGACCGAGAGGATCACCGAACGAATTCCACTCCCCATTGGACTCACCAGA
CCTTCGCGGACGAAAGGAAAGTCTTACGTCAGTCAAGCGCATGCGACTCTCTGAAGGATGGCAACATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Restriction Sites:	Sgfl-Mlul
ACCN:	BC026841
Insert Size:	1329 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:	<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:	BC026841 , AAH26841
RefSeq Size:	3479 bp
RefSeq ORF:	1328 bp
Locus ID:	17260
Cytogenetics:	13 43.68 cM
Gene Summary:	Transcription activator which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. Controls cardiac morphogenesis and myogenesis, and is also involved in vascular development. Enhances transcriptional activation mediated by SOX18 (PubMed:11554755). May also be involved in neurogenesis and in the development of cortical architecture. Isoforms that lack the repressor domain are more active than isoform 1 (By similarity). Plays an essential role in hippocampal-dependent learning and memory by suppressing the number of excitatory synapses and thus regulating basal and evoked synaptic transmission. Crucial for normal neuronal development, distribution, and electrical activity in the neocortex. Necessary for proper development of megakaryocytes and platelets and for bone marrow B-lymphopoiesis. Required for B-cell survival and proliferation in response to BCR stimulation, efficient IgG1 antibody responses to T-cell-dependent antigens and for normal induction of germinal center B-cells.[UniProtKB/Swiss-Prot Function]