

Product datasheet for MC208960

Mesp2 (NM_008589) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Mesp2 (NM_008589) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Mesp2
 Synonyms: bHLHc6
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC208960 representing NM_008589
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGTCGCCTCCTCAGAGCCTCCAGGGTCTCGACACTGGGTCTTCTCCAGGGCTGGGGCT
 GGGCTCAGCAATCGACTCCACGTCTCCGGCTCGTCTCAGATTCTCGGTTCTGCCCTTGCTACGC
 CACCCGTCGGCCCTCGCAGCCCGCCGGCCCGGCGTAGCACGGCACTACCCAGGCGACGGCCCGCA
 CGAACGCGCCAGCGCCCGCAGGCGGACAGCGGCAGAGCGCCAGCGAGCGGAGAAGCTGCGCATGCGCA
 CACTCGCCCGCGCGCTGCAAGAAGTTCGCGCGTTCCTGCCGCGTTCGGTGGCACCTGCAGGCCAGAGCCT
 GACCAAGATCGAGACGCTGCGCCTGGCCATCCGCTACATCGGCCACCTGTGAGCCCTGCTGGGCCTCAGC
 GAGGACAGTCTGCGGCGCAGGCGCCGACGGAGTGGGACGCGGCGTTCTCTACCGATGCCCTCAATGCC
 CCGACGGTGGCAGCCCTCACAGGCTCAGATGCTTGGTCTAGCCTGGGATCAGCCATGAGTAGTGGGGT
 GTCCTGGGGTGCCCGCTGCTTGCTGACCTCTGATCTCACCTGAAAACCTTGGGAACAGGATCTCC
 AACGTGGATCCCTGGGTGACACCTCCTATTGTCCCAAATACAGTACCCTTACACCAGTCCCTAGAAA
 GAGCCGTCGACTCCTCTCCCTGGGCACCACCTCAAGCATGCTTGGCATGCAGATGCTCCAGAGCCTAG
 GAACAAGACTGGACACTGGACACAATCCACTGAACCTGCAGAGCTGACTAAAGTGTATCAGAGTCTTCT
 GTGTCTCCAGAACCCTGCCTGTCCCTGGGAAGCCCACTTCTCCTGCCCGCCCATCATGCCAGAGACTAC
 AGCCTCAGCCTCAGCCTCAGCTGAGGGCTGCTGGGGCCACGATGCAGAGGTGCTCTCCACCTCTGA
 GGATCAGGGTCCAGCCCTGCCCTCCAGCTTCTGTGGCCAGCCCAACCCAGCTCAGGCTGCAGCTC
 AGTGGCTGCTGAACTTGGCAGGAAGACCTGGAAGGACCCCACTGAATATTTTCTACTAA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_008589



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Insert Size:	1113 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:	<u>NM_008589.2, NP_032615.2</u>
RefSeq Size:	1936 bp
RefSeq ORF:	1113 bp
Locus ID:	17293
UniProt ID:	<u>O08574</u>
Cytogenetics:	7 45.18 cM
Gene Summary:	Transcription factor with important role in somitogenesis. Defines the rostrocaudal patterning of the somite by participating in distinct Notch pathways. Regulates also the FGF signaling pathway. Specifies the rostral half of the somites. Generates rostro-caudal polarity of somites by down-regulating in the presumptive rostral domain DLL1, a Notch ligand. Participates in the segment border formation by activating in the anterior presomitic mesoderm LFNG, a negative regulator of DLL1-Notch signaling. Acts as a strong suppressor of Notch activity. Together with MESP1 is involved in the epithelialization of somitic mesoderm and in the development of cardiac mesoderm. May play a role with Tcf15 in the differentiation of myotomal and sclerotomal cells by regulating Pax family genes. Controls also the expression of the protocadherin PCDH8/PAPC, EPHA4, RIPPLY2, NOTCH2, FGFR1, and CER1. Binds to the E-boxes within the EPHA4 and RIPPLY2 enhancers.[UniProtKB/Swiss-Prot Function]