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# Product datasheet for MC208960

## Mesp2 (NM_008589) Mouse Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Mesp2 (NM_008589) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Mesp2 |
| **Synonyms:** | bHLHc6 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**Fully Sequenced ORF:**

```
>MC208960 representing NM_008589
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCAGTCGCCTCCTCCTCAGAGCCTCCAGGGTCTCGACCACTGGGTCTTCTCCCAGGGCTGGGGCT
GGGCTCAGCAATCGGACTCCACGTCTCCGGCCTCGTCCTCAGATTCGTCCGGTTCCTGCCCTTGCTACGC
CACCCGTCGGCCCTCGCAGCCCGCCGGCCCGGCCCGTAGCACGCGCACTACCCAGGCGACGGCGCCCCGA
CGAACGCGCCCAGCGCCCGCAGGCGGACAGCGGCAGAGCGCCAGCGAGCGCGAGAAGCTGCGCATGCGCA
CACTCGCCCGCGCGCTGCAAGAACTGCGCCGCTTCCTGCCGCCGTCGGTGGCACCTGCAGGCCAGAGCCT
GACCAAGATCGAGACGCTGCGCCTGGCCATCCGCTACATCGGCCACCTGTCAGCCCTGCTGGGCCTCAGC
GAGGACAGTCTGCGGCGCAGGCGCCGACGGAGTGCGGACGCGGCGTTCTCTCACCGATGCCCTCAATGCC
CCGACGGTGGCAGCCCCTCACAGGCTCAGATGCTTGGTCCTAGCCTGGGATCAGCCATGAGTAGTGGGGT
GTCCTGGGGGTGCCCGCCTGCTTGTCCTGGACCTCTGATCTCACCTGAAAACCTTGGGAACAGGATCTCC
AACGTGGATCCCTGGGTGACACCTCCTTATTGTCCCCAAATACAGTCACCCTTACACCAGTCCCTAGAAA
GAGCCGCTGACTCCTCTCCCTGGGCACCACCTCAAGCATGTCCTGGCATGCAGATGTCCCCAGAGCCTAG
GAACAAGACTGGACACTGGACACAATCCACTGAACCTGCAGAGCTGACTAAAGTGTATCAGAGTCTTTCT
GTGTCTCCAGAACCCTGCCTGTCCCTGGGAAGCCCACTTCTCCTGCCCCGCCCATCATGCCAGAGACTAC
AGCCTCAGCCTCAGCCTCAGCCTCAGTGGGGCTGCTGGGGCCACGATGCAGAGGTGCTCTCCACCTCTGA
GGATCAGGGTTCCAGCCCTGCCCTCCAGCTTCCTGTGGCCAGCCCCACCCCCAGCTCAGGCCTGCAGCTC
AGTGGCTGTCCTGAACTTTGGCAGGAAGACCTGGAAGGACCCCCACTGAATATTTTCTACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

**Restriction Sites:** SgfI-MluI

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| | |
|---|---|
| **ACCN:** | NM_008589 |
| **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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_008589.2, NP_032615.2 |
| **RefSeq Size:** | 1936 bp |
| **RefSeq ORF:** | 1113 bp |
| **Locus ID:** | 17293 |
| **UniProt ID:** | O08574 |
| **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 EPH4A and RIPPLY2 enhancers.[UniProtKB/Swiss-Prot Function] |

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