

Product datasheet for **MC208983**

Msx2 (NM_013601) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Msx2 (NM_013601) Mouse Untagged Clone
Tag: Tag Free
Symbol: Msx2
Synonyms: BB122635; Hox-8; Hox8; Hox8.1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC208983 representing NM_013601
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTCTCCGACTAAAGGCGGTGACTTGTTTTCGTCGGATGAGGAGGGCCCCGCGTACTGGCCGGCC
CGGGTCCC GGCCCTGGAGGAGCCGAGGGCAGCGCAGAGGAACGCAGGGTCAAGGTCTCCAGCCTGCCCTT
CAGCGTGGAGGCGCTCATGTCCGACAAGAAGCCGCCAAGGAATCGCCCGGGTCCACCCGACTGCGCC
TCGGCTGGCGCTGCTCCTGCGGCCGCTGCTGCTGCCGGACACGGCGTCCGGGACGCTCACAGTCCCGGGC
CTCTCGTCAAGCCCTTCGAGACCGCTCGGTCAAGTCGGAATAATCCGAAGACGGAGCACCGTGGATACA
GGAGCCCGGCAGATACTCCCGCCGCCAGACATATGAGCCCCACCACCTGCACCCTGAGGAAACACAAG
ACCAACCGGAAGCCACGCACACCCTTACCACATCCCAGCTTCTAGCCTTGGAGCGCAAGTTCGCCGAGA
AACAGTACCTGTCCATAGCAGAGCGGGCCGAGTTCTCCAGCTCTCTGAACCTTACAGAGACCCAGGTCAA
AATCTGGTTCCAGAACC GAAGGGCTAAGGCGAAAAGACTGCAAGAGGCGGAACTGGAAAAGCTGAAAATG
GCTGCCAAGCCTATGCTGCCCTCAGGCTTCAGTCTGCCCTTCCCTATCAACTCACCCCTGCAAGCAGCAT
CCATATACGGCGCATCTACCCCTTCCATAGACCTGTGCTCCCCATCCCGCTGTGGACTCTATGCCAC
CGCGTTGGATATGGCATGTACCATCTATCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1924_g12.zip
Restriction Sites: SgfI-MluI
ACCN: NM_013601



[View online »](#)

Insert Size:	804 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. More info</p>
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:	BC141132 , AAI41133
RefSeq Size:	2162 bp
RefSeq ORF:	804 bp
Locus ID:	17702
UniProt ID:	Q03358
Cytogenetics:	13 27.84 cM
Gene Summary:	<p>Acts as a transcriptional regulator in bone development. Represses the ALPL promoter activity and antagonizes the stimulatory effect of DLX5 on ALPL expression during osteoblast differentiation. Probable morphogenetic role. May play a role in limb-pattern formation. In osteoblasts, suppresses transcription driven by the osteocalcin FGF response element (OCFRE). Binds to the homeodomain-response element of the ALPL promoter.</p> <p>[UniProtKB/Swiss-Prot Function]</p>