OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR227094

Msx1 (NM_010835) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Msx1 (NM_010835) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Msx1
Synonyms:	AA675338; AI324650; Hox-7; Hox7; Hox7.1; msh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR227094 representing NM_010835
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCCGGCTGCTGCTATGACTTCTTTGCCACTCGGTGTCAAAGTGGAGGACTCCGCCTTCGCCAAGC
CTGCTGGGGGAGGCGTTGGCCAAGCCCCCGGGGCTGCTGCGGCCACCGCAACCGCCATGGGCACAGATGA
GGAGGGGGCCAAGCCCAAAGTGCCCGCTTCACTCCTGCCCTTCAGCGTGGAGGCCCTCATGGCCGATCAC
AGGAAGCCCGGGGCCAAGGAGAGCGTCCTGGTGGCCTCCGAAGGGGCTCAGGCAGCGGGTGGCTCGGTGC
AGCACTTGGGCACCCGGCCCGGGTCTCTGGGCGCCCCGGATGCGCCCTCCTCGCCGCGGCCTCTCGGCCA
TTTCTCAGTCGGAGGACTCCTCAAGCTGCCAGAAGATGCTCTGGTGAAGGCCGAAAGCCCCGAGAAACTA
GATCGGACCCCGTGGATGCAGAGTCCCCGCTTCTCCCCGCCCCCAGCCAGACGGCTGAGTCCCCCAGCAT
GCACCCTACGCAAGCACAAGACCAACCGCAAGCCCAGGACGCCTTTCACCACAGCTCAGCTGCTGGCTCT
GGAGCGCAAGTTCCGCCAGAAGCAGTACCTGTCTATTGCCGAGCGCGCGGAATTCTCCAGCTCGCTCAGC
CTCACCGAGACCCAGGTGAAGATCTGGTTCCAGAACCGTCGCGCTAAGGCCAAGAGACTGCAGGAGGCGG
AGCTGGAGAAGCTGAAGATGGCCGCGAAACCCATGTTGCCGCCTGCTGCCTTCGGCCTCTCTTTTCCTCT
TGGCGGTCCTGCAGCGGTGGCTGCAGCTGCGGGCGCCTCACTCTACAGTGCCTCTGGCCCTTTCCAGCGC
GCCGCGCTGCCTGTAGCGCCCGTGGGACTCTACACCGCCCATGTAGGCTACAGCATGTACCACCTGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

Protein Sequence:

>MR227094 representing NM_010835
Red=Cloning site Green=Tags(s)

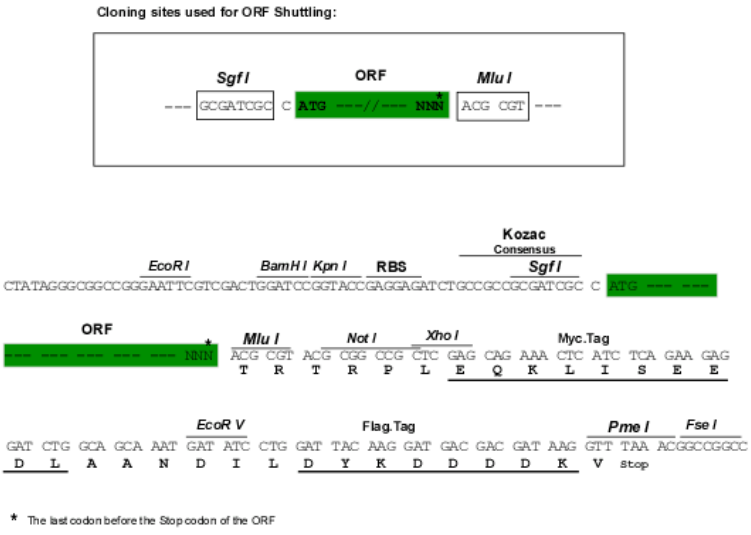
MAPAAAMTSLPLGVKVEDSAFAKPAGGGVGQAPGAAAATATAMGTDEEGAKPKVPASLLPFSVEALMADH
RKPGAKESVLVASEGAQAAGGSVQHLGTRPGSLGAPDAPSSPRPLGHFSVGGLLKLPEDALVKAESPEKL
DRTPWMQSPRFSPPPARRLSPPACTLRKHKTNRKPRTPFTTAQLLALERKFRQKQYLSIAERAEFSSSLS
LTETQVKIWFQNRRAKAKRLQEAELEKLKMAAKPMLPPAAFGLSFPLGGPAAVAAAAGASLYSASGPFQR
AALPVAPVGLYTAHVGYSMYHLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9036_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010835

ORF Size: 909 bp

OTI Disclaimer: 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

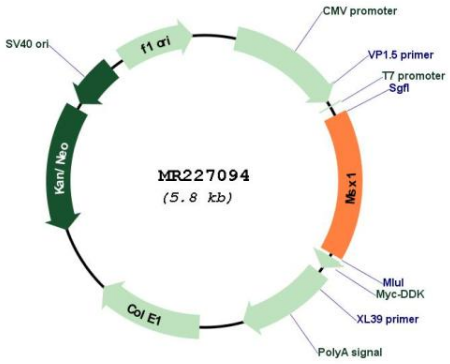
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Reconstitution Method:	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:	NM_010835.2, NP_034965.2
RefSeq Size:	1931 bp
RefSeq ORF:	912 bp
Locus ID:	17701
UniProt ID:	P13297
Cytogenetics:	5 20.21 cM
MW:	32.1 kDa
Gene Summary:	Acts as a transcriptional repressor. May play a role in limb-pattern formation. Acts in cranofacial development and specifically in odontogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227094

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US