

## Product datasheet for **MG227094**

### **Msx1 (NM\_010835) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Msx1 (NM\_010835) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Msx1  
**Synonyms:** AA675338; AI324650; Hox-7; Hox7; Hox7.1; msh  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG227094 representing NM\_010835  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTTCTTTGCCACTCGGTGTCAAAGTGGAGGACTCCGCCTTCGCCAAGCCTGCTGGGGAGGCGTTG  
 GCCAAGCCCCGGGGCTGCTGCGGCCACCGCAACCGCCATGGGCACAGATGAGGAGGGGGCCAAGCCCAA  
 AGTGCCCGCTTCACTCCTGCCCTCAGCGTGGAGGCCCTCATGGCCGATCACAGGAAGCCCGGGGCCAAG  
 GAGAGCGTCTGGTGGCCTCCGAAGGGGCTCAGGCAGCGGGTGGCTCGGTGCAGCACTTGGCACCCGGC  
 CCGGGTCTCTGGCGCCCGGATGCGCCCTCCTCGCCGCGCCTCTCGGCCATTTCTCAGTCGGAGGACT  
 CCTCAAGCTGCCAGAAGATGCTCTGGTGAAGGCCGAAAGCCCGAGAACTAGATCGGACCCCGTGGATG  
 CAGAGTCCCCGCTTCTCCCCGCCCCAGCCAGACGGCTGAGTCCCCCAGCATGCACCCTACGCAAGCACA  
 AGACCAACCGCAAGCCAGGACGCCTTTACCACAGCTCAGCTGCTGGCTCTGGAGCGCAAGTTCGCCCA  
 GAAGCAGTACCTGTCTATTGCCGAGCGCGGAATTCTCCAGCTCGCTCAGCCTCACCGAGACCCAGGTG  
 AAGATCTGGTTCCAGAACCCTCGCGCTAAGGCCAAGAGACTGCAGGAGGCGGAGCTGGAGAAGCTGAAGA  
 TGGCCGCAAACCCATGTTGCCGCTGCTGCCTTCGGCCTCTTTTCTCTTGGCGGTCTGCAGCGGT  
 GGCTGCAGCTGCGGGCGCCTCACTCTACAGTGCCTTGGCCCTTCCAGCGCGCCGCTGCCTGTAGCC  
 CCGTGGGACTCTACACCGCCATGTAGGCTACAGCATGTACCACCTGACT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG227094 representing NM\_010835  
 Red=Cloning site Green=Tags(s)

MTSLPLGVKVEDSAFAKPAGGGVQAPGAAAATATAMGTDEEGAKPKVPASLLPFSVEALMADHRKPGAK  
 ESVLVASEGAQAAGGSVQHLGTRPGSLGAPDAPSSPRPLGHF SVGLLLKLPEDALVKAESPEKLDRTWPWM  
 QSPRFSPPPARRLSPPACTLRKHKTNRKPRTPTTTAQLLALERKFRQKQYLSIAERAEFSSLSLTETQV  
 KIWQNRRAKAKRLQEAELEKLMKAAKMLPPAAFGLSFPLGGPAAVAAAAGASLYSASGPFQRAALPVA  
 PVGLYTAHVGYSMYHLT

TRTRPLE - GFP Tag - V

**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).

**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

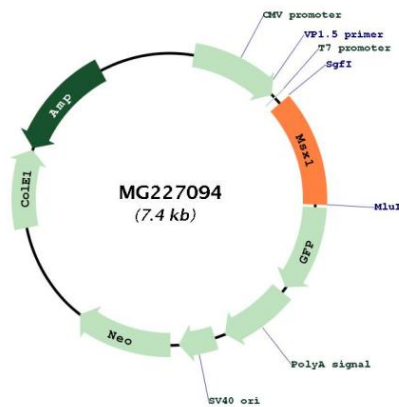
**Locus ID:** 17701

**UniProt ID:** [P13297](#)

**Cytogenetics:** 5 20.21 cM

**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 MG227094