

Product datasheet for **RG205682**

MSX1 (NM_002448) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MSX1 (NM_002448) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MSX1
Synonyms: ECTD3; HOX7; HYD1; STHAG1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205682 representing NM_002448
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCGGCTGCTGACATGACTTCTTTGCCACTCGGTGTCAAAGTGGAGGACTCCGCCTTCGGCAAGC
 CGGCGGGGGAGGCGGGCCAGGCCCCAGCGCCGCGCGGCCACGGCAGCCGCATGGGCGGGACGA
 GGAGGGGGCCAAGCCAAAGTGTCCCTTCGCTCCTGCCCTTCAGCGTGGAGGCGCTCATGGCCGACCAC
 AGGAAGCCGGGGCCAAGGAGAGCGCCCTGGCGCCCTCCGAGGGCGTGCAGGCGGGTGGCTCGGCCG
 AGCCACTGGGCGTCCCGCGGGTTCGCTGGGAGCCCCGGACGCGCCCTTTCGCCGCGGGCGCTCGGCCA
 TTTCTCGGTGGGGGACTCCTCAAGCTGCCAGAAGATGCGCTCGTCAAAGCCGAGAGCCCCGAGAAGCCC
 GAGAGGACCCCGTGGATGCAGAGCCCCGCTTCTCCCCGCGCGGCCAGGCGGCTGAGCCCCCAGCCT
 GCACCCTCCGCAACACAAGACGAACCGTAAGCCGCGGACGCCCTTCACCACCGCGCAGCTGCTGGCGCT
 GGAGCGCAAGTTCGCGCAGAAGCAGTACCTGTCCATCGCCGAGCGCGGGAGTTCTCCAGCTCGCTCAGC
 CTCACTGAGACGCAGGTGAAGATATGGTTCCAGAACCGCCGCGCCAAGGCAAAGAGACTACAAGAGGCAG
 AGCTGGAGAAGCTGAAGATGGCCGCCAAGCCATGCTGCCACCGGCTGCCTTCGGCTCTCCTTCCCTCT
 CGGCGGCCCGCAGCTGTAGCGGCCGCGGGTGCCTCGCTCTACGGTGCCTTGGCCCCCTCCAGCGC
 GCCGCGCTGCCTGTGGCGCCCGTGGGACTCTACCGGCCATGTGGGCTACAGCATGTACCACCTGACA

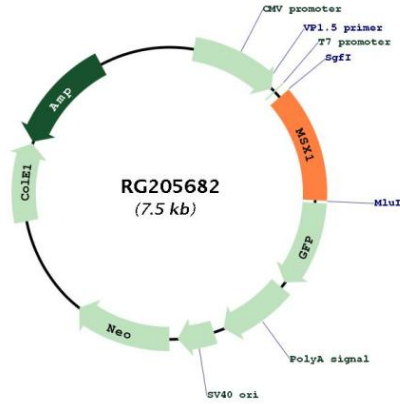
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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| 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_002448.3, NP_002439.2</u> |
| RefSeq Size: | 1940 bp |
| RefSeq ORF: | 912 bp |
| Locus ID: | 4487 |
| UniProt ID: | <u>P28360</u> |
| Cytogenetics: | 4p16.2 |
| Domains: | homeobox |
| Protein Families: | Druggable Genome, Transcription Factors |
| Gene Summary: | This gene encodes a member of the muscle segment homeobox gene family. The encoded protein functions as a transcriptional repressor during embryogenesis through interactions with components of the core transcription complex and other homeoproteins. It may also have roles in limb-pattern formation, craniofacial development, particularly odontogenesis, and tumor growth inhibition. Mutations in this gene, which was once known as homeobox 7, have been associated with nonsyndromic cleft lip with or without cleft palate 5, Witkop syndrome, Wolf-Hirschorn syndrome, and autosomal dominant hypodontia. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RG205682