

Product datasheet for **SC317449**

MSX1 (NM_002448) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSX1 (NM_002448) Human Untagged Clone
Tag:	Tag Free
Symbol:	MSX1
Synonyms:	ECTD3; HOX7; HYD1; STHAG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317449 representing NM_002448. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCCCCGGCTGCTGACATGACTTCTTTGCCACTCGGTGTCAAAGTGGAGGACTCCGCCTTCGGCAAG
CCGGCGGGGGGAGGCGGGGCCAGGCCCCAGCGCCGCCGCGGCCACGGCAGCCGCCATGGGCGCGGAC
GAGGAGGGGGCCAAAGCCAAAGTGTCCCCTTCGCTCCTGCCCTTCAGCGTGGAGGCGCTCATGGCCGAC
CACAGGAAGCCGGGGCCAAAGGAGAGCGCCCTGGCGCCCTCCGAGGGCGTGCAGGCGGGGTGGCTCG
GCGCAGCCACTGGGCGTCCCGCCGGGTCGCTGGGAGCCCGGACGCGCCCTTTCGCCGCGGCCGCTC
GGCCATTTCTCGGTGGGGGACTCCTCAAGCTGCCAGAAGATGCGCTCGTCAAAGCCGAGAGCCCGGAG
AAGCCCGAGAGGACCCCGTGGATGCAGAGCCCGCTTCTCCCGCCCGCGGCCAGGCGGCTGAGCCCG
CCAGCCTGCACCCTCCGCAAACAAGACGAACCGTAAGCCGCGGACGCCCTTACCACCGCGCAGCTG
CTGGCGCTGGAGCGCAAGTTCGCCAGAAGCAGTACCTGTCCATCGCCGAGCGCGCGGAGTTCTCCAGC
TCGCTCAGCCTCACTGAGACGCAGGTGAAGATATGGTTCCAGAACCAGCCGCGCAAGGCAAAGAGACTA
CAAGAGGCAGAGCTGGAGAAGCTGAAGATGGCCGCAAGCCATGCTGCCACCGGCTGCCTTCGGCCTC
TCCTTCCCTCTCGGCGGCCCGCAGCTGTAGCGGCCGCGGGTGCCTCGCTACGGTGCCTCTGGC
CCCTTCCAGCGCGCCGCTGCCTGTGGCGCCCGTGGGACTCTACACGGCCCATGTGGGCTACAGCATG
TACCACCTGACATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	SgfI-MluI
ACCN:	NM_002448
Insert Size:	912 bp



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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</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
MW:	31.5 kDa
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]