

## Product datasheet for **SC322436**

### MSX2 (NM\_002449) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MSX2 (NM_002449) Human Untagged Clone
Tag:	Tag Free
Symbol:	MSX2
Synonyms:	CRS2; FPP; HOX8; MSH; PFM; PFM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for SC322436  
GAGCTACGTAGGGCAGAGAAGTCATGGCTTCTCCGTCCAAGGCAATGACTTGTTTTCCG  
CCGACGAGGAGGGCCAGCAGTGGTGGCCGGACCAGGCCCGGGCCTGGGGCGCCGAGG  
GGGCCGCGGAGGAGCGCCGCGTCAAGGTCTCCAGCCTGCCCTTCAGCGTGAGGCGCTCA  
TGTCGCAAGAAGCGCCCAAGGAGGCGTCCCGCTGCCGCGCCGAAAGCGCCTCGGCCG  
GGGCCACCCTGCGGCCACTGCTGCTGTCGGGGCACGGCGCTCGGGAAGCGCACAGCCCCG  
GGCCGCTGGTGAAGCCCTTCGAGACCGCCTCGGTCAAGTCGAAAATTCAGAAGATGGAG  
CGGCGTGGATGCAGGAACCCGGCCGATATTCGCCGCCCAAGACATACGAGCCCTACCA  
CCTGCACCCTGAGGAAACACAAGACCAATCGGAAGCCGCGCACGCCCTTACCACATCCC  
AGCTCCTCGCCCTGGAGCGCAAGTTCGTCAGAAACAGTACCTCTCCATTGCAGAGCGTG  
CAGAGTTCTCCAGCTCTCTGAACCTCACAGAGACCCAGGTCAAAATCTGGTTCCAGAACC  
GAAGGGCCAAGGCGAAAAGACTGCAGGAGGCAGAACTGGAAGCTGAAAATGGCTGCAA  
AACCTATGCTGCCCTCCAGCTTCAGTCTCCCTTTCCCATCAGCTCGCCCTGCAGGCAG  
CGTCCATATATGGAGCATCTACCCGTTCCATAGACCTGTGCTTCCCATCCCGCCTGTGG  
GACTCTATGCCACGCCAGTGGGATATGGCATGTACCACCTGTCCTAAGGAAGACCAGATC  
AATAGACTCCATGATGGATGCTTGTTCAAAGGGTTTCTCTCCCTCTCCACGAAGGCAG  
TACCAGCCAGTACTCCTGCTCTGCTAACCTGCGTGCACCACCCTAAGCGGCTAGGCTGA  
CAGGGCCACACGACATAGCTGAAATTTGTTCTGTAGGCGGAGGCCACCAAGCCCTGTTTT  
TTGGTGAATCTTCCAGATGCCCCCTTTTCCTTTCACAAAGATTGGCTCTGATGGTTTTT  
ATGTATAAATATATATATAATAAAAATAATAACATTTTTTATACAGCAAAAAAAAAAAAA  
AAA

Restriction Sites:	Please inquire
ACCN:	NM_002449



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002449.4</a> , <a href="#">NP_002440.2</a>
<b>RefSeq Size:</b>	2224 bp
<b>RefSeq ORF:</b>	804 bp
<b>Locus ID:</b>	4488
<b>UniProt ID:</b>	<a href="#">P35548</a>
<b>Cytogenetics:</b>	5q35.2
<b>Domains:</b>	homeobox
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>This gene encodes a member of the muscle segment homeobox gene family. The encoded protein is a transcriptional repressor whose normal activity may establish a balance between survival and apoptosis of neural crest-derived cells required for proper craniofacial morphogenesis. The encoded protein may also have a role in promoting cell growth under certain conditions and may be an important target for the RAS signaling pathways. Mutations in this gene are associated with parietal foramina 1 and craniosynostosis type 2. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>