

## Product datasheet for **RR202436**

### **Msx2 (NM\_012982) Rat Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Msx2 (NM_012982) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Msx2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR202436 representing NM_012982 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTCTCCGTCCAAAGGCGGTGACTTGTTTTCGTCTGATGAGGAGGGCCCCGCGGTGCTGGCCGGCC  
CGGGCCCCGGGCTGGAGGAGCCGAGGGCGGCCGGAGGAGCGCAGGGTCAAGGTCTCCAGCCTGCCCTT  
CAGCGTGGAGGCGCTCATGTCCGACAAGAAGCCGCCAAGGAATCGCCCGCGGTGCCACCCGACTGCGCC  
TCGGCTGGCGCTGTCTGCGCCGCTGTTGCTGCCGGGACACGGCGTCCGGGACGCTCACAGTCCCGGGC  
CTCTCGTCAAGCCCTTCGAGACCGCTCGGTCAAGTCGAAAAATCCGAAGACGGAGCGCCGTGGATACA  
GGAGCCCGCAGATACTCCCCGCCGCCAGACACATGAGCCCCACCACCTGCACCCTGAGGAAACACAAG  
ACCAACCAGGAAAGCCACGCACACCGTTACACAGTCCCAGCTTCTAGCCTTGGAGCGCAAGTTCGCCAGA  
AACAGTACCTCTCCATCGCAGAGCGGGCCGAGTCTCCAGCTCTCTGAACCTTACAGAAACCCAGGTCAA  
AATCTGTTCCAGAACCAGGGCTAAGGCAAAAAGACTGCAGGAGGCGGAACTGGAAAAGCTGAAAATG  
GCTGCCAAACCTATGCTGCCCTCGGGCTTCAGTCTGCCCTTCCCTATCAACTCCCCTTGAAGCGGCAT  
CCATATACAGCGCCTCTACCCCTTCCATAGACCTGTGCTCCCATCCCCTGTGGACTCTATGCCAC  
GCCGGTGGGATATGGCATGTACCATCTATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR202436 representing NM\_012982  
 Red=Cloning site Green=Tags(s)

MASPSKGGDLFSSDEEGPAVLAGPGPGGGAEGGAEERRVKVSSLPFVEALMSDKKPKESPAPPPDCA  
 SAGAVLRPLLLPGHGVRDAHSPGPLVKPFETASVKSENEDGAPWIQEPGRYSPPPRHMSPTTCTLRKHK  
 TNRKPRTPFTTSQLLALERKFRQKQYLSIAERAEFSSSLNLTTETQVKIWFQNRRAKAKRLQEALEKLM  
 AAKPMLPSGFSLPFPINSPLQAASIYSASYPFHRPVLPIPPVGLYATPVGYGMYHLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2353\\_a08.zip](https://cdn.origene.com/chromatograms/ja2353_a08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012982

**ORF Size:** 801 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\\_012982.3](#), [NP\\_037114.2](#)

**RefSeq Size:** 1976 bp

**RefSeq ORF:** 804 bp

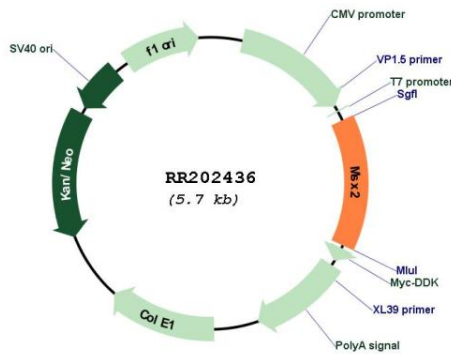
**Locus ID:** 25483

**Cytogenetics:** 17p14

**MW:** 29.4 kDa

**Gene Summary:** The protein encoded by this gene is likely a homeobox transcription factor. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RR202436