

Product datasheet for **MR226045**

Msx3 (NM_010836) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Msx3 (NM_010836) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Msx3
Synonyms: AI323377
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226045 representing NM_010836
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCGGGCGACATTCGACATGAACGCGGGGGCTCGAAGCTCGCGGGGGGCCACACAGAGCAGC
 GACCACTCCCCTCAGCGTCGAGTCTCTGCTGGAGGCTGAGCGCGTACCGGGCTCCGAGTCTGGGGAGCT
 GGGGGTGGAGAGGCCGCTCGGCGCCTCGAAGCCTGGAGCCTGGCCCCCTCCAGTCGCGCACTCTTGTC
 CCACGTGCCCGAGCCCTCCACCCTGCACCCTCCGAAACACAAAACCAATCGAAACCACGGACGCCAT
 TCACCACCGCGCAGCTGCTGGCGCTTGGCGCAAGTTTACCAGAAGCAATACTTATCCATTGCGGAGCG
 CGCGGAGTTCTCCAGCAGCTTGGCCTCACTGAGACTCAGGTCAAGATCTGGTTTCAGAACCGCCGAGCC
 AAAGCCAAGCGGCTGCAGGAAGCTGAGCTGGAGAAGCTGAAGCTGGCAGCGAAGCCACTACTGCCGCGG
 CGTTTGCCTGCCCTTCCCGCTGGGCACCCAGCTGCACAGCTCCGCGGCCACTTTCGCGGCAACGCGGT
 TCCTGGGATCCTCGCGGGCCTGTGCGGCCTATGGCATGTACTACTTGTCT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226045 representing NM_010836
 Red=Cloning site Green=Tags(s)

MARATFDMNAAGLEARGGGHTEHGPLPFSVESLLEAERVPGSESGELGVERPLGASKPGAWPPPVAHSCP
 PRAPSPPPCTLRKHKTNRKPRTPFTTAQLLALERKFHQKQYLSIAERAFFSSLSLTETQVKIWFQNRRA
 KAKRLQEALEKLLKLAAPLLPAALPFPLGTQLHSSAATFGGNAVPGILAGPVAAYGMYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mm9075_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010836

ORF Size: 612 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_010836.3](#), [NP_034966.1](#)

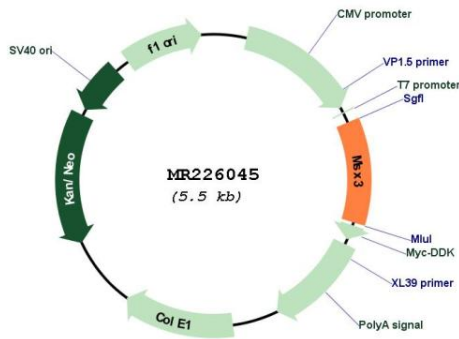
RefSeq Size: 2287 bp

RefSeq ORF: 615 bp

Locus ID: 17703

UniProt ID: [P70354](#)
 Cytogenetics: 7 85.04 cM
 MW: 22 kDa
 Gene Summary: Acts as a potent transcriptional repressor of MSX1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226045