

Product datasheet for **MR204033**

Msmo1 (NM_025436) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Msmo1 (NM_025436) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Msmo1
Synonyms:	150001G16Rik; C78600; DESP4; ERG25; Sc4mol
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204033 representing NM_025436 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACAAACAAAAGTGTGGCGTGTTCAGCTCTGCATCCCTGGCTGTGGAGTATGTGGACTCACTGT
TGCCGGAGAATCCTCTGCAGGAGCCCTTAAGAATGCTTGGGTCTACATGTTGGACAACATACAAAAGTT
CCAGATCGCAACCTGGGGCTCCCTGATAGTTCACGAAGCCATCTATTTCTGTTCTTTACCTGGATTC
CTATCCAGTTTATACCTTACATGAGAAAGTACAAGATCAAAGGATAAACAGAAACCTCGAAGGCC
AGTGAAGTGTGGAAAAAATTCTATTTAATCATTTTTTATCCAGTTGCCTCTGATTTGTGGAACATA
CTATTTTACAGAGTTTTTCAATATTCCTTATGATTGGGAAAGAATGCCAAGATGGTACTTAACTTTGGCA
AGGTGTTTGGGCTGTGCAGTCATTGAGGACACCTGGCATTATTTCTGCACAGACTCCTTACCACAAGA
GAATTTATAAATACATTCATAAAGTCCATCACGAGTTTCAGGCTCCATTTGGAATCGAAGCAGAATACGC
ACATCCCTTGAAACCTGATTCTTGGGACAGGATTTTCATCGGAATTGTGCTTTGTGTGATCACGTA
ATTCTCTGTGGGCATGGGTGACCATACGTTTGTGTTGAAACCATCGATGTGCACAGCGGTTATGATATTC
CTCTCAACCCGCTGAACCTGGTTCCTTTTTATACGGGCGCTCGGCACCATGATTTCCACCACATGAACCT
CATTGGGAATTATGCCTCCACCTCACGTGGTGGGATAAACTCTTTGGGACAGATGCCAGTATCATGCC
TACATTGAAAAATCGAAGAAGCTTGGAAAAAGTCTGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204033 representing NM_025436
Red=Cloning site Green=Tags(s)

MATNKSVGVFSSASLAVEYVDSLLENPLQEPFKNAWVYMLDNYTKFQIATWGSLLIVHEAIYFLFSLPGF
 LFQFIPYMRKYKIQKDKPETFEQWQKCLKKILFNHFFIQLPLICGTYFTEFFNIPYDWERMPRWYTLA
 RCLGCAVIEDTWHYFLHRLHHKRIYKYIHKVHHEFQAPFGIEAEYAHPLETLILGTGFFIGIVLLCDHV
 ILLWAWVTIRLLETIDVHSGYDIPLNPLNLVPFYTGARHHDFHHMNFIGNYASTFTWWDKLFGTDAQYHA
 YIEKSKLGGKSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9023_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025436

ORF Size: 879 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_025436.3](#)

RefSeq Size: 1824 bp

RefSeq ORF: 882 bp

Locus ID: 66234

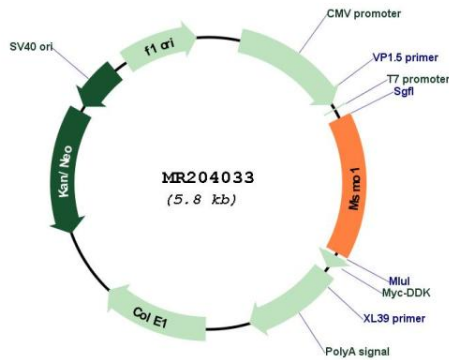
UniProt ID: [Q9CRA4](#)

Cytogenetics: 8 B3.1

MW: 35.2 kDa

Gene Summary: Catalyzes the first step in the removal of the two C-4 methyl groups of 4,4-dimethylzymosterol.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204033