

## Product datasheet for **MG204033**

### Msmo1 (NM\_025436) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Msmo1 (NM_025436) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Msmo1
Synonyms:	150001G16Rik; C78600; DESP4; ERG25; Sc4mol
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204033 representing NM_025436 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACAAACAAAAGTGTGGCGTGTTCAGCTCTGCATCCCTGGCTGTGGAGTATGTGGACTCACTGT  
TGCCGGAGAATCCTCTGCAGGAGCCCTTAAGAATGCTTGGGTCTACATGTTGGACAACATACAAAAGTT  
CCAGATCGCAACCTGGGGCTCCCTGATAGTTCACGAAGCCATCTATTTCTGTTCTTTACCTGGATTC  
CTATCCAGTTTATACCTTACATGAGAAAGTACAAGATCAAAGGATAAACAGAAACCTCGAAGGCC  
AGTGAAGTGTGGAAAAAATTCTATTTAATCATTTTTTATCCAGTTGCCTCTGATTTGTGGAACATA  
CTATTTTACAGAGTTTTTCAATATTCCTTATGATTGGGAAAGAATGCCAAGATGGTACTTAACTTTGGCA  
AGGTGTTTGGGCTGTGCAGTCATTGAGGACACCTGGCATTATTTCTGCACAGACTCCTTACCACAAGA  
GAATTTATAAATACATTCATAAAGTCCATCACGAGTTTCAGGCTCCATTTGGAATCGAAGCAGAATACGC  
ACATCCCTTGAAACCCTGATTCTTGGGACAGGATTTTCATCGGAATTGTGCTTTGTGTGATCACGTA  
ATTCTCCTGTGGCATGGGTGACCATACGTTTGTGTTGAAACCATCGATGTGCACAGCGGTTATGATATTC  
CTCTCAACCCGCTGAACCTGGTTCCTTTTTATACGGGCGCTCGGCACCATGATTTCCACCACATGAACCT  
CATTGGGAATTATGCCTCCACCTCACGTGGTGGGATAAACTCTTTGGGACAGATGCCAGTATCATGCC  
TACATTGAAAAATCGAAGAAGCTTGGAAAAAGTCTGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204033 representing NM\_025436  
 Red=Cloning site Green=Tags(s)

MATNKSVMGVFSSASLAVEYVDSLLENPLQEPFKNAWVYMLDNYTKFQIATWGSILVHEAIYFLFSLPGF  
 LFQFIPYMRKYKIQKDKPETFEQWKCLKKILFNHFFIQLPLICGTYYFEFFNIPYDWERMPRWYTLA  
 RCLGCAVIEDTWHYFLHRLHLLHKKRIYKYIHKVHHEFQAPFGIEAEYAHPLETLILGTGFFIGIVLLCDHV  
 ILLWAWVTIRLLETIDVHSGYDIPLNPLNLVPFYTGARHHDFFHMMNFIGNYASTFTWWDKLFGTDAQYHA  
 YIEKSKKLGKKS

TRTRPLE - GFP Tag - V

Restriction Sites:

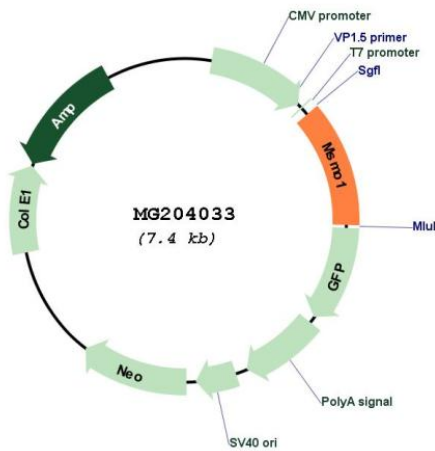
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_025436

ORF Size: 879 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_025436.3</a>
<b>RefSeq Size:</b>	1824 bp
<b>RefSeq ORF:</b>	882 bp
<b>Locus ID:</b>	66234
<b>UniProt ID:</b>	<a href="#">Q9CRA4</a>
<b>Cytogenetics:</b>	8 B3.1
<b>Gene Summary:</b>	Catalyzes the first step in the removal of the two C-4 methyl groups of 4,4-dimethylzymosterol.[UniProtKB/Swiss-Prot Function]