

Product datasheet for **MG217819**

Msm (NM_001099314) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Msm (NM_001099314) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Msm
Synonyms: OTTMUSG0000007017; Psm
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG217819 representing NM_001099314
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTAAGGATGCTCTGGGCTGGCCAAGCCAAGGGGATCCTCGGAGGCTGGAGGACCATCTGCTTGG
 TGGTGTCTCTGTTCTACAGCACCCGGGAGTTAGCAGCAAGTGTACTTCCAAGCTCAAGCTCCCTGCCA
 CTACGAGGGTAAATACTTCACTCTGGGTGAATCTGGCTCCGCAAGGACTGTTTCCATTGTACCTGTCTG
 CATCCTGTTGGTGTGGGCTGCTGTGACACGGCTCAGCATCCTATTGACTTCCCTGCTGAGTGTGAAGTGC
 TACAGGAGGCAGAACCTGTCAATTTCCCTGGTGCAGAAAGCTGACCCTCGGCTGCCCTGCAAAGGGGG
 AGGGCCCGACTTAGAATGGGGCTCGGCTAACACCCTGCTCCTGGGGCTTCTGCCCCCACTCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217819 representing NM_001099314
 Red=Cloning site Green=Tags(s)
 MALRMLWAGQAKGILGGWRTICLVVSLFLQHPGVSSKCYFQAQAPCHYEKGYFTLGESWLRKDCFHCTCL
 HPVGVGCCDTAQHPIDFPAECEVLQEAGTCQFSLVQKADPRLPCKGGPDLEWGSANTPAPGASAPHSS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

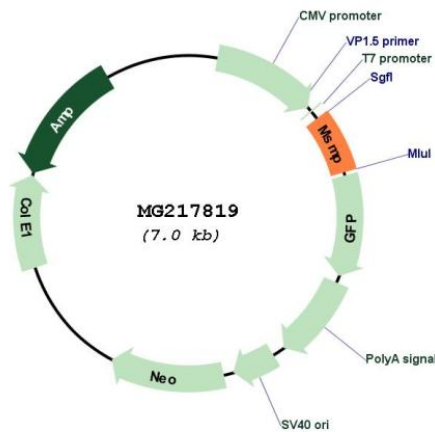


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001099314

ORF Size: 417 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:	<ol style="list-style-type: none">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:	<u>NM_001099314.1</u> , <u>NP_001092784.1</u>
RefSeq Size:	743 bp
RefSeq ORF:	420 bp
Locus ID:	100039672
UniProt ID:	<u>B1AWI6</u>
Cytogenetics:	4 A5
Gene Summary:	Acts as a ligand for C-C chemokine receptor CCR2 (By similarity). Signals through binding and activation of CCR2 and induces a strong chemotactic response and mobilization of intracellular calcium ions (By similarity). Exhibits a chemotactic activity for monocytes and lymphocytes but not neutrophils (By similarity).[UniProtKB/Swiss-Prot Function]