

## Product datasheet for **MG219334**

### Marcksl1 (NM\_010807) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Marcksl1 (NM\_010807) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Marcksl1  
**Synonyms:** AL022768; AW215397; AW536807; D4Bc1; F52; MacMARCKS; Macs2; Macs3; Mlp; Mrp  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG219334 representing NM\_010807  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCAGCCAGAGCTCTAAGGCTCCCCGGGGCGACGTGACCGCCGAGGAGGCAGCGGGCGCTTCCCCCG  
 CGAAGGCCAACGGACAGGAGAATGGCCACGTGAGAAGCAATGGAGACTTAACCCCAAGGGTGAAGGGGA  
 GTCACCACCCGTGAACGGAACAGATGAGGCAGCTGGGGCTACTGGTGATGCCATCGAGCCAGCGCCCT  
 AGCCAGGAAGCTGAGGCCAAGGGGAGGTCGCCCCAAGGAGACCCCAAGAAGAAGAATAATTCTCTT  
 TCAAGAAGCCTTCAAATTGAGTGGCCTGTCCTTCAAGAGAAATCGGAAGGAGGGTGGGGTGATTCTC  
 AGCCTCCTCGCCAACAGAGGAAGAGCAGGAGCAGGGCGAGATGAGCGCCAGCAGGCAGAGGGCACTGCC  
 CAAGAAGGGAAGGCCGCTGCCACCCCTGAGAGCCAAGAGCCCCAGGCCAAGGGGGCAGAGGCTAGTGCTG  
 CCTCCAAGGAAGGAGACACAGAAGAGGAGGCAGGGCCCCAGGCTGCAGAGCCATCCACTCCTCGGGCC  
 AGAGAGTGGCCCCACACCTGCCAGTGCTGAGCAGAATGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG219334 representing NM\_010807  
 Red=Cloning site Green=Tags(s)

MGSQSSKAPRGDVTAEAAAGASPAKANGQENGHVRSNGDLTPKGEGESPPVNGTDEAAGATGDAIEPAPP  
 SQEAEAKGEVAPKETPKKKKFSFKKPKLSGLSFKRNRKEGGDSSASSPTEEEQEQGEMASSSDEGTA  
 QEGKAAATPESQEPQAKGAEASAASKEGDTEEEAGPQAAEPSTPSGPESGPTPASAEQNE

**TRTRPLE** - GFP Tag - V

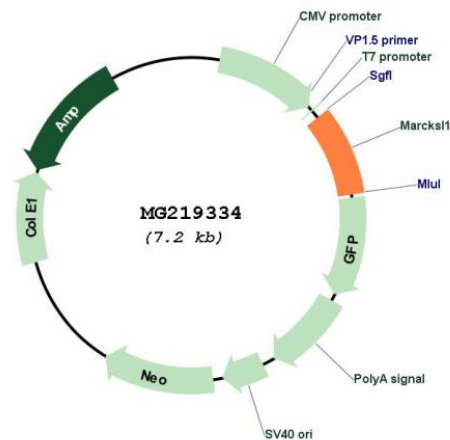
**Restriction Sites:** Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_010807

ORF Size: 600 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\\_010807.4](#), [NP\\_034937.1](#)

**RefSeq Size:** 1611 bp

**RefSeq ORF:** 603 bp

**Locus ID:** 17357

**UniProt ID:** [P28667](#)

**Cytogenetics:** 4 63.26 cM

**Gene Summary:** Involved in the control of cell movement by regulating actin cytoskeleton homeostasis and filopodium and lamellipodium formation (PubMed:22751924). When unphosphorylated, induces cell migration (PubMed:22751924). When phosphorylated by MAPK8, induces actin bundles formation and stabilization, thereby reducing actin plasticity, hence restricting cell movement, including neuronal migration (PubMed:22751924). May be involved in coupling the protein kinase C and calmodulin signal transduction systems (Probable).[UniProtKB/Swiss-Prot Function]