

Product datasheet for **MR219334**

Marcksl1 (NM_010807) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Marcksl1 (NM_010807) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Marcksl1
Synonyms: AL022768; AW215397; AW536807; D4Bc1; F52; MacMARCKS; Macs2; Macs3; Mlp; Mrp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR219334 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAGCCAGAGCTCTAAGGCTCCCCGGGGCGACGTGACCGCCGAGGAGGCAGCGGGCGCTTCCCCCG
CGAAGGCCAACGGACAGGAGAATGGCCACGTGAGAAGCAATGGAGACTTAACCCCAAGGGTGAAGGGGA
GTCACCACCCGTGAACGGAACAGATGAGGCAGCTGGGGCTACTGGTGATGCCATCGAGCCAGCGCCCCCT
AGCCAGGAAGCTGAGGCCAAGGGGAGGTCGCCCAAGGAGACCCCAAGAAGAAGAAGAAATTCTCTT
TCAAGAAGCCTTCAAATTGAGTGGCCTGTCTTCAAGAGAAATCGGAAGGAGGGTGGGGTGATTCTCTC
AGCCTCTCGCCAACAGAGGAAGAGCAGGAGCAGGGCGAGATGAGCGCCAGCAGGCAGGAGGACTGCC
CAAGAAGGGAAGGCCGCTGCCACCCCTGAGAGCCAAGAGCCCCAGGCCAAGGGGGCAGAGGCTAGTGCTG
CCTCCAAGGAAGGAGACACAGAAGAGGAGGCAGGGCCCCAGGCTGCAGAGCCATCCACTCCCTCGGGCC
AGAGAGTGGCCCCACACCTGCCAGTGCTGAGCAGAATGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219334 protein sequence
Red=Cloning site Green=Tags(s)

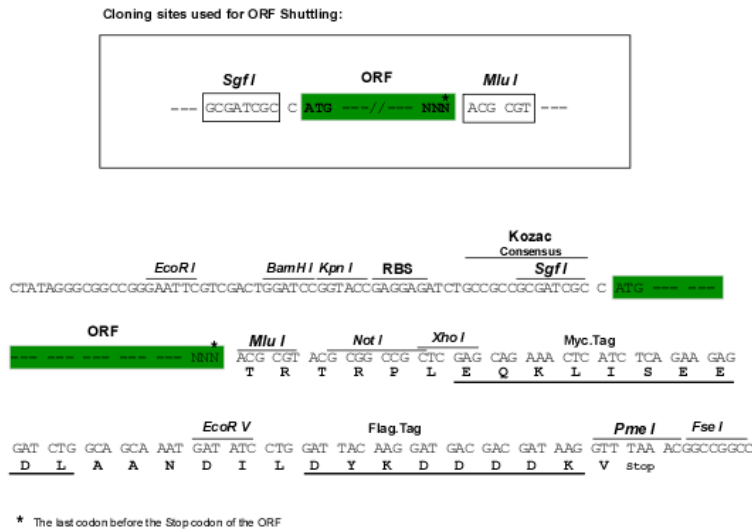
MGSQSSKAPRGDVTAEAAAGASPAKANGQENGHVRSNGDLTPKGEGESPPVNGTDEAAGATGDAIEPAPP
SQEAEAKGEVAPKETPKKKKFSFKKPKL SGLSFKRNRKEGGDSSASSPTEEEQEQGEMSSASDEGTA
QEGKAAATPESQEPQAKGAEASAASKEGDTEEEAGPQAAEPSTPSGPESGPTPASAEQNE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010807

ORF Size: 603 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_010807.1](#), [NM_010807.2](#), [NM_010807.3](#), [NM_010807.4](#), [NP_034937.1](#)

RefSeq Size: 1611 bp

RefSeq ORF: 603 bp

Locus ID: 17357

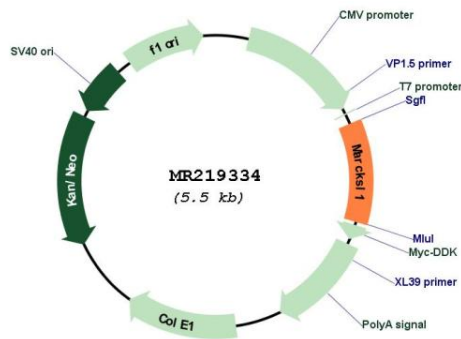
UniProt ID: [P28667](#)

Cytogenetics: 4 63.26 cM

MW: 20.1 kDa

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]

Product images:



Circular map for MR219334