

Product datasheet for MR205967

Mlc1 (NM_133241) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Mlc1 (NM_133241) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Mlc1 |
| Synonyms: | AW048630; BB074274; Kiaa0027-hp; LVM; mKIAA0027; MLC; VL; WKL1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR205967 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACACGGGAGGGGAGTTTCAGGGAGGAAGTGGGCTATGACCGGATGCCACACTGGAGAGGGGTCCGC
AGGATGCAGGACGGCAGGACCCAGGCAGCTACACCCCTGACTCAAAGCCCAAGGACCTGCAGCTGTCGAA
GAGGTTGCCCGCTGCTCAGCTACAAGACATGGGTGTTCTCTGTGTTAATGGGGAGCTGCCTTCTGTG
ACCTCTGGGTTTTCGCTCTACTGGGGAACGTGTTCCCTCCGAGATGGATTATTTGCGCTGTGCAGCAG
GCTCTTGCATCCCTCAGCAATTGTGAGCTTCGCTGTAGGGAGGAGAAATGTCAGTGCATTCCCAACTT
TCAGATATTGTTGTTCCACGTTTCGCTGTGACTACTACGTGTTGATCTGGTTTGGGTGTTAAACTGATC
CTGAATCCTTCAGCCATAAACATTAATTTCAACCTCATCTGCTCCTGCTGTTGGAGCTCCTCATGGCAG
CCACGGTGATCATTTTCGGCCCGTCCAGTGAAGGAGCCCTGCAAGAAGAAGAAGGGTTCCATCTCCGATGG
CTCTAACATTCTGGATGAAGTGACGTTTCTGCTCGGGTCTAAAGTCTACTCTGTGGTAGAAGTAATT
GCTGGTGTCTCCGCTGTCTCGGTGGGTGATCGCTCTAAACGTAGAGGAAGCTGTCTCGGGTCCACATC
TCTCGGTGACGTTCTTTGGATTTAGTGGCTGTTTCCAGTGCCATTGCCAGCCATGTGACAGCGGA
ATGTCCAGCAAGTGTCTGGTTGAGGTGCTGATAGCCATCAGCAGCCTCATATCCCACTGCTATTCAT
GCCTCTGGATATCTGCTTTCAGTGTGATGAGAGTCGTGGAGATTTTTAAAGATTACCCGCCAGCCATCA
AATCTTATGATGTTCTCCTGCTCCTGTTGCTGCTGCTGCTTTCAGGGGGGACTCAACACTGGCAC
CGCCATCCAGTGTGTGAGCTTCAAAGTCAGCGCCCGGCTGCAGGCTGCATCCTGGACCCCCAGTCTGT
CCCCAGGAGCGGCCAGCAGGGGAGGTGGTCCGAGGCCCTCAAGGAGTTTGACAAAGAGAAAGCCTGGA
GAGCTGTGGTGTACAAATGGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205967 protein sequence
Red=Cloning site Green=Tags(s)

MTREGQFREELGYDRMPTLERGRQDAGRQDPGSYTPDSKPKDLQLSKRLPPCF SYKTWVFSVLMGSCLLV
 TSGFSLYLGNVFPSEMDYLRCAAGSCIPSAIVSFAVGRNVSIAIPNFQILFVSTFAVTTTCLIFGCKLI
 LNPSAININFNLILLLLELLMAATVIIISARSSEEPCKKKKGSISDGSNILDEVTFPARVLKSYSVVEVI
 AGVSAVLGGVIALNVEEAVSGPHLSVTFFWILVACFPSAIAHVTAECPSKCLVEVLIAISSLTSPLLFT
 ASGYLSFSVMRVVEIFKDYPPAIKSYDVLILLLLLLLLQGLNTGTAIQCVSFKVSARLQAASWDPQSC
 PQERPAGEVVRGPLKEFDKEKAWRAVVVQMAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133241

ORF Size: 1149 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_133241.2](#), [NP_573504.1](#)

RefSeq Size: 2369 bp

RefSeq ORF: 1149 bp

Locus ID: 170790

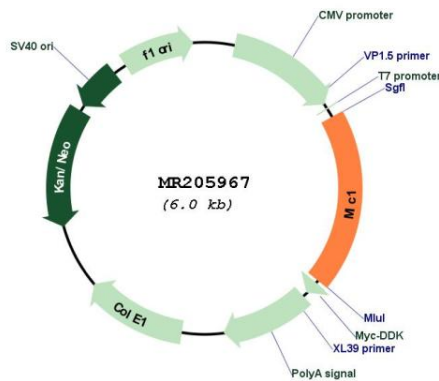
UniProt ID: [Q8VHK5](#)

Cytogenetics: 15 E3

MW: 41.6 kDa

Gene Summary: Regulates the response of astrocytes to hypo-osmosis by promoting calcium influx. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205967