

## Product datasheet for **MC201673**

### **Mlc1 (NM\_133241) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mlc1 (NM_133241) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mlc1
Synonyms:	AW048630; BB074274; Kiaa0027-hp; LVM; mKIAA0027; MLC; VL; WKL1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC024719 sequence for NM\_133241  
 CAGAGGCCAGCTTTCCCAACCGCCGGACGACAGCAGAGCGCCATGACACGGGAGGGGAGTTTCAGGGAGG  
 AACTGGGCTATGACCCGGATGCCACACTGGAGAGGGGTCCGCAGGATGCAGGACGGCAGGACCCAGGCAG  
 CTACACCCTGACTCAAAGCCAAAGGACCTGCAGCTGTCGAAGAGGTTGCCCCCGTGCTTCAGCTACAAG  
 ACATGGGTGTTCTCTGTGTTAATGGGGAGCTGCCTTCTGTGACCTCTGGGTTTTCGCTCTACTTGGGGA  
 ACGTGTTCCTCCGAGATGGATTATTTGCGCTGTGCAGCAGGCTTTGCATCCCCTCAGCAATTTGTGAG  
 CTTCCGCTGTAGGGAGGAGAAATGTCAGTGCATTCCCAACTTTCCAGATATTGTTTTGTTCCACGTTCCGCT  
 GTGACTACTACGTGTTTGATCTGGTTGGGTGTAAGTATCCTGAATCCTTCAGCCATAAACATTAATT  
 TCAACCTCATCCTGCTCCTGCTGTTGGAGCTCCTCATGGCAGCCACGGTATCATTTCGGCCCGGTCCAG  
 TGAGGAGCCCTGCAAGAAGAAGAAGGGTCCATCTCCGATGGCTTAACATTCTGGATGAAGTGACGTTT  
 CCTGCTCGGGTCTAAAGTCTACTCTGTGGTAGAAGTAATTGCTGGTGTCTCCGCTGCTCCGTTGGG  
 TGATCGCTCTAAACGTAGAGGAAGCTGTCTCGGGTCCACATCTCTCGGTGACGTTCTTTGGATTTAGT  
 GGCTTGTTCAGTGCATTGCCAGCCATGTGACAGCGGAATGTCCAGCAAGTGTCTGGTTGAGGTG  
 CTGATAGCCATCAGCAGCCTCACATCCCCTGCTATTACTGCCTCTGGATATCTGTCTTCAGTGTGA  
 TGAGAGTCGTGGAGATTTTAAAGATTACCCGCCAGCCATCAAATCTTATGATGTTCTCCTGCTGCTCCT  
 GTTGCTGCTGCTGCTGCTCAGGGGGACTCAACACTGGCACCGCCATCCAGTGTGTGAGCTTCAAAGTC  
 AGCGCCCGGCTGCAGGCTGCATCCTGGGACCCAGTCCCTGTCCCCAGGAGCGGCCAGCAGGGGAGGTGG  
 TCCGAGGCCCCCTCAAGGAGTTTGACAAAGAGAAAGCCTGGAGAGCTGTGGTGGTACAAATGGCCAGTG  
 ACTACAGGATAAAGAGACTGAGTCTGGGTGTCTGCCCGGACCCAGCGTGTCCACCGTACGGACTCTAA  
 CCATTGCACGGCTACTGCTTTCTAACATACTATTTCCCTCCTGTGAGGGCAGCCAGGCTGCAAGGTGGC  
 TTTTCGGTTCTGTCGTAGTTAACTTTGAAACAGGAAATATTGAGTGTGGGCCCTATTAGGTCTCAG  
 TGTGTGCACCTCAGGTGACCCTGATGGCTGGGTGTTGCTTTTTTTCCAGCCCTCCTCACTTCTGGGT  
 TGACCTCATTACAGGACCTGGTGTCTGGCCTTAGGGCACTTCCATGCCTTTCATGCTTGCACAG  
 TGCAGGGATAGTTTGGCTGTGAGACTCACAGATAGTTTGTATATCACTCCCGAGGCCAGAGACAGC  
 TGGACTCTCCAGCTAACAGAGAATCAAGGAACCTATAGTAAGTTGGTCCCTTTGTGAAGCTGGGATC  
 ATTTTAGGAATTGCTTTCTGGGAGGGGAGCCTCTGTGCTTGGGAAGACAGCGAGCGTGCCTTTACTGAGC  
 TGGGGTATCAATGGGTTCCCTTCCAGGAAGAGGTATATTCTGTGCCTCAGAAGAGCTGCCAGGGTACGGG  
 AGAGAGTGAAAATCCTTCTAGGCAGTCACTTGTAGATACACAGACTGCCAGGATTGAGAAAAGCGTG  
 GCCATTTTCAAACAGAGGGATGCAAGGATGGCACCTGACAGGGATCATGTAGGAGCAAAGTGCCCGCC  
 TCCAGTGTGGGGACTTCCGGTCTGTCTCCATTTCTGACAGCCTGCCCTAAATGAGAGATCATTTTTGC  
 TTGCCTATGTGCGGAGCCCAATGGGCTTGGGTCTCTGCAGCTATATACCACAGCTATTGGGTGGG  
 AAGGGAGTGGTGGTCCACTGGGCTGACAAGCCATCCGCTTTCAGGACCTGGGCTTTCAGGACCAGAATG  
 AGCGGCAAGAGGATTGCTGCCAGCTTGCACCTTAATTTAGAGGGATGTTTTGTTTTTAACTGACTCA  
 TATAAGTGGGGTCTGAAAATCGTCTCTGTATACTTTGTCTGTTATAGATTAATATGCTTGAGCAATAA  
 ATGCTAACTCGCAATGTGAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_133241

**Insert Size:** 1149 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC024719](#), [AAH24719](#)

**RefSeq Size:** 2369 bp

**RefSeq ORF:** 1149 bp

**Locus ID:** 170790

**UniProt ID:** [Q8VHK5](#)

**Cytogenetics:** 15 E3

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