

Product datasheet for **MG205967**

Mlc1 (NM_133241) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mlc1 (NM_133241) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mlc1
Synonyms:	AW048630; BB074274; Kiaa0027-hp; LVM; mKIAA0027; MLC; VL; WKL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205967 representing NM_133241 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACACGGGAGGGGAGTTTCAGGGAGGAAGTGGGCTATGACCGGATGCCACACTGGAGAGGGTTCGGC
AGGATGCAGGACGGCAGGACCCAGGCAGCTACACCCCTGACTCAAAGCCCAAGGACCTGCAGCTGTCGAA
GAGGTTGCCCGCTGCTCAGCTACAAGACATGGGTGTTCTCTGTGTTAATGGGGAGCTGCCTTCTTG
ACCTCTGGGTTTTCGCTCTACTTGGGGAACGTGTTCCCTCCGAGATGGATTATTTGCGCTGTGCAGCAG
GCTCTTGATCCCCTCAGCAATTGTGAGCTTCGCTGTAGGGAGGAGAAATGTCAGTGCGATTCCCAACTT
TCAGATATTGTTGTTCCACGTTTCGCTGTGACTACTACGTGTTGATCTGGTTTGGGTGTAACACTGATC
CTGAATCCTTCAGCCATAAACATTAATTTCAACCTCATCTGCTCCTGCTGTTGGAGCTCCTCATGGCAG
CCACGGTGATCATTTTCGGCCCGTCCAGTGAGGAGCCCTGCAAGAAGAAGAGGGTTCCATCTCCGATGG
CTCTAACATTCTGGATGAAGTGACGTTTCCTGCTCGGGTCTAAAGTCTACTCTGTGGTAGAAGTAATT
GCTGGTGTCTCCGCTGTCTCGGTGGGTGATCGCTCTAAACGTAGAGGAAGCTGTCTCGGGTCCACATC
TCTCGGTGACGTTCTTTGGATTTAGTGGCTTGTTCCTCCAGTGCCATTGCCAGCCATGTGACAGCGGA
ATGTCCAGCAAGTGTCTGGTTGAGGTGCTGATAGCCATCAGCAGCCTCATCCCCACTGCTATTCATC
GCCTCTGGATATCTGCTTTCAGTGTGATGAGAGTCGTGGAGATTTTTAAAGATTACCCGCCAGCCATCA
AATCTTATGATGTTCTCCTGCTCCTGTTGCTGCTGCTGCTTCCAGGGGGACTCAACACTGGCAC
CGCCATCCAGTGTGTGAGCTTCAAAGTCAGCGCCCGGCTGCAGGCTGCATCCTGGACCCCCAGTCTGT
CCCCAGGAGCGGCCAGCAGGGGAGGTGGTCCGAGGCCCTCAAGGAGTTTGACAAAGAGAAAGCCTGGA
GAGCTGTGGTGTACAAATGGCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205967 representing NM_133241
 Red=Cloning site Green=Tags(s)

MTREGQFREELGYDRMPTLERGRQDAGRQDPGSYTPDSKPKDLQLSKRLPPCFSYKTWVFSVLMGSCLLV
 TSGFSLYLGNVFPSEMDYLRCAGSCIPSAIVSFAVGRNRVSAIPNFQILFVSTFAVTTTCLIWFGCKLI
 LNPSAININFNLILLLELLMAATVIIISARSSEEPCKKKKSGISDGSNILDEVTFPARVLKYSYSVVEVI
 AGVSAVLGGVIALNVEEAVSGPHLSVTFWILVACFPSAIAHVTAECPSKCLVEVLIAISSLTSPLLFT
 ASGYLSFSVMRVVEIFKDYPPAIAKSYDVLILLLLLLLLLLLQGLNTGTAIQCVSFKVSARLQAASWDPQSC
 PQERPAGEVVRGPLKEFDKEKAWRAVVVQMAQ

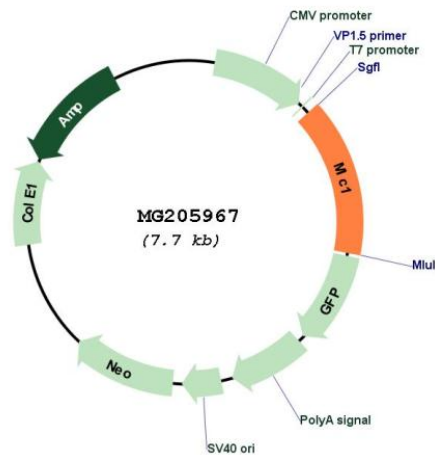
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_133241

ORF Size:	1146 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:	NM_133241.2 , NP_573504.1
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]