

Product datasheet for **MC202191**

Mcoln2 (NM_001005846) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcoln2 (NM_001005846) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mcoln2
Synonyms:	3300002C04Rik; AI549968; C86638; TRPML2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC029847 sequence for NM_001005846
 GAGATCAGAGCGCTGACTGGAAGGATCTGCGATGGCGTCTCTCGATTCTGAGGTGAGGGAAGAGTGTCTG
 AGGGAAGACCTGAAGTTCTACTTCATGAGTCCCTGTGAGAAGTACCGAGCCAGACGTCAGATCCCGTGG
 AACTGGGCTTGCAGATATTGAAGATAGTCATGGTAACACACAGCTTGTTCGGTTTGGCTTAAGTAACCA
 GTTGGTGGTGGCTTTCAAAGAAGATAACACTGTTGCTTTAAGCACTTGTTTTTGAAAGGATTTCTGGA
 GTTGATGAAGATGACTACAGCTGTAGCATATACACTCAGGAGAACACCTATGAGAGCATCTTTTTGCTA
 TAAAGCAGTATCGTCATCTGAAGAATATTTCCCTGGCAACCCTTGGTTATGGAGAAAGTGAAGACAATAG
 AACTGGCTTGAAGTCTGTAAGCAGCACTACAAGACAGGGGCCATGTTTTCTTCTAACGAGACCCTGAAC
 ATTGACAGTGACATTGAGACAGACTGCATTACCTGGACCTTCAGGTGCTCACCAGGAACCCGAGGACT
 GGGCACAGACATCTTTCTCAGGCTGGATTTTTATCGGCTCGTGCAAGTTGATATCTCCTTTGCCCTCAA
 AGGAATTGACCTACAGGCAGTTCATTCCCGAGAGATACCGGACTGTTACCTCTTTCAGAATACGATTACC
 TTCGACAACACAGCCACAGTGGGAAAATCAAAATCTATCTCAACAGCGAGGCCAACATCGAAGAGTGTA
 AAAACATGAACATATCTGGTCTACTCAGAGAAGCACTACTACCTCCTGGTGTGTGATGTTCGTCAT
 TATGATCTGCCTGGCATCCCTTATCCTGTGCACGAGATCCATTGTTCTTGTCTGAGGCTGAGGAAGAGA
 TTTCTAAACTTCTCCTGGAGAAGTACAACAGCGCGTGTGTGGCGCTGACCAGTGGGAATTCGTCACCG
 GATGGTACGTCCTGGTCACTATCAGCGACTCATGACAATAATTGGATCCATATTGAAGATGGAAATCAA
 AGCCAAGAAGCTCACAACATATGACGTGTGCAGCATCTTGCTCGGGACGTCGACGCTCTTTGTCTGGGT
 GGAGTCATCAGATATCTGGGTTACTTTCAGACGTACAACGTGCTCATTTTAAACATGCAAGCCTCACTGC
 CCAAAGTTCTCCGGTTCTGTGCTTGGCTGGCATGATCTACCTGGGGTACACCTTCTGCGCTGGATTGT
 CTTAGGACCGTACCACGAGAAGTTTGAACACCTGAACATAGTCGCTGAATGCCTGTTTTCTCTGGTCAAC
 GGCGATGACATGTTTGCCACGTTTCGCTCAGATCCAGCAGAAGAGCATTCTGGTGTGGCTGTTTCAGCCGC
 TCTACCTGTATTCTTTATCAGCCTATTCATTTACATGGTCTCAGCCTTTCATCGCGCTCATCACCGA
 CTCTTACCACACCATTAAGAAGTACCAGCAGCATGGGTTTCTGAAACAGATCTGCAGAAATTCCTGAAG
 GAGAGCGGAAGCAAAGATGGGTACCAGAAGCAGCCATCGCCTTGTGTCTGCCTCTGCTGTCTGAGGA
 GGAGAAGAAACAATGACCACTTGATTCTCATTGACTAAAACCTTTGGCTGATGTCAGTCAAGTCCAGATC
 CCTTTATGCTGAGGTCATTGAGAGACCCAGAGGTAGCAGCAGTCGGCTCAAAGATTGCTGCTGAA
 TTGTGGAACCAGAAGGAGGGGTGTCCATGAGCTGCTGATCAGACCTGACATTCCAAAGTTACTTTTCATA
 GACATGGAGTGTGAAGAGTAAGCCTCTTGTGAGGCCAGCGTGGCAATGAAATTCACCAGGAGTCTGGTGC
 TTTGTGACATCATAATGTTGAGATGTAAGAAAGAAATATCCCACTTCAGAGTGTGAAGCAATATTTAAA
 CCCAGATAAAGATGCATGCTTATTGAAAAACAAGATTTGTTTTCAAACGTGACACTTGGATTTGAAGA
 CATTTGTAAATTTATGGTCTGCACAGAAATAAATTTGCTTCAAACCAAATTAAGACTTGAAGCTAGAGA
 GTGGTAAGCCACTCAGTTCGTGACTGGTTGGACTGTGAGCTTGCTTCTCAGCAAGCACAACACCAGTGT
 CTGTTAGCACAGTCAGCGGGATGAAAGAGCACCTGGCTGTCCCCTCAGGTGAGCTCTCCCTGGACTGGAC
 ACATGATGAGTGAGTCACCCTAAGCTTGGAGTGGCCATCTGTTTCAAGTCAGCTCCATTGTGGTGGGG
 ATTTGCCCTTGTGATGGAAGGAAGTGTAGATTTTTTCAATAAATTTATTTTCACGAAAAAAAAAAAAA AAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_001005846

Insert Size: 1617 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:	<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:	BC029847 , AAH29847
RefSeq Size:	2390 bp
RefSeq ORF:	1617 bp
Locus ID:	68279
UniProt ID:	Q8K595
Cytogenetics:	3 H2
Gene Summary:	<p>Nonselective cation channel probably playing a role in the regulation of membrane trafficking events. Acts as Ca(2+)-permeable cation channel with inwardly rectifying activity (PubMed:19763610). May activate ARF6 and be involved in the trafficking of GPI-anchored cargo proteins to the cell surface via the ARF6-regulated recycling pathway (By similarity). May play a role in immune processes. In adaptive immunity, TRPML2 and TRPML1 may play redundant roles in the function of the specialized lysosomes of B cells (PubMed:17050035). In the innate immune response, may play a role in the regulation of chemokine secretion and macrophage migration (PubMed:26432893). Through a possible and probably tissue-specific heteromerization with MCOLN1 may be at least in part involved in many lysosome-dependent cellular events.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has an alternate 5' exon and uses a downstream AUG start codon, as compared to variant 1. The encoded isoform 2 has a shorter N-terminus, as compared to isoform 1.</p>