

## Product datasheet for MC222986

### Clcn1 (NM\_013491) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn1 (NM_013491) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clcn1
Synonyms:	adr; Clc-1; Clc1; mto; myotonia; nmf355; SMCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC222986 representing NM_013491 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCGGTCCCAGTCCCAGCGGCATGGAGGGGAACAGAGCTGGTGGGCAGTGCCCCCAGTACCAGT  
ACATGCCCTTTGAACATTGTACCAGCTACGACTGCCCTCAGAGAATGGGGCCTTCAGCACCGGCCCG  
AAAGGACATGGGTCCCAGGCACAATGCCACCCAACACAGATATATGGCCATCAAAAAGAACAATATTCA  
TATAAGGCACAGGACGGGGGAATGCCAAGAAGATGGGCTCCAGTCTACCATGGACAGCTTGGATGAGG  
ACCACTATTCTAAATGTCAAGACTGTGTCCATCGCCTGGGACGTGTGCTGAGAAGGAAGCTGGGGGAAGA  
TTGGATCTTTCTGTGCTCCTGGCCTCCTGATGGCTCTAGTCAGCTGGTGCATGGACTATGTTAGTGCC  
AAGAGCCTTCAGGCCTACAAGTGGACCTATGCCAGATGAAGCCTAGCCTTCCTCTGCAGTACCTGGCCT  
GGGTACCTTCCCCTTATCCTGATCCTCTCAGCGCCCTCTTTTGCCAACCTCATCTCTCCCAGGCTGT  
GGGCTCTGGAATCCCTGAGATGAAAACAATTCTTCGTGGTGTGTCTTGAAGGAATACCTCACACTCAAG  
GCCTTTGTAGCCAAGGTGGTAGCTTTGACAGCTGGACTGGCAGTGCCATCCCTGTGGGAAAGAGGGTC  
CCTTTGTTACATCGCCAGCATCTGTGCTGTCTCCTCAGCAAGTTTATGTCCATGTTCTCTGGTGTCTA  
TGAGCAGCCATACTATTACACTGACATCCTGACAGTGGGCTGTGCCGTGGGGTCCGGTGTCTGTTTTGGA  
ACACCATTGGAGGAGTCTATTTAGCATCGAGGTCACCTACCTACTTTGCTGTTCCGAAATTACTGCG  
GAGGATTCCTTTGAGCCACATTCAGTGCCTTTGTGTTCCGTGTCCTGGCGTTTGAACAAGATGCTGT  
CACCATCACTGCTCTGTTGAGAACGAATTTCCGAATGGATTTCCCTTTGACCTGAAGGAACCTCCAGCT  
TTTGCTGTCATTGGGATTTGCTGCGGGTCTTGGGAGCTGTTTTCGTTTTATCTGCATCGCCAAGTCATGC  
TCGGTGTCCGAAAGCACAAAGTGTCTCAGCCAATTTCTTGCTAAGCACCGCCTGCTATATCCTGGAATTGT  
TACCTTTGTCATCGCCTCGCTCACATTTCCACCAGGAATGGGTCAATTCATGGCTGGAGAGCTGATGCC  
CGTGAAGTATCAGTACCCTCTTTGACAACAACACATGGGTAAAGCACATAGGTGACCCCAAGCTTGG  
GCCAGTCACTGTGTGGCTTACCCCAAGTCAACGTGATCATCATCCTTCTCTTCTCGTTATGAA  
GTTTTGGATGTCCATTGTAGCCACCACTATGCCATACCTGTGGAGGCTTCATGCTGTTTTGTGCTA



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GGAGCTGCATTTGGAAGGCTGGTAGGAGAGATCATGGCCATGCTATTCCTGAGGGTATCTTATTTGATG
ATATCATCTATAAGATCTTACCTGGGGGCTATGCAGTAATTGGAGCAGCAGCTTTGACAGGGGCTGTCTC
CCACACAGTCTCCACAGCCGTCATTTGCTTGAATTAACCGGTCAGATTGCTCACATCCTGCCCATGATG
GTGGCTGTTATCTTGGCCAACATGGTGGCTCAGAGTCTGCAGCCCTCCCTCTATGACAGCATCATCCAGG
TCAAGAAGCTTCCTATCTGCCAGACCTTGGTTGGAACCAGCTCAGCAAATTTACAATTTTTGTTGAGGA
CATCATGGTACGTGATGTGAAGTTCGTTTCAGCTTCTTGTACATATGGGAACTGAGAAACCTACTCCAG
GCCACCACAGTCAAGACTTTACCATTGGTTGACTCCAAAGATTCAATGATCCTGCTGGGCTCTGTGGAAC
GCTCAGAACTGCAGTCCCTCCTGCAGCGCCACCTGTGTGAGAGCGAAGGTTGAAGGCTGCCAGGACAT
GGCTCGAAAGTTATCAGAGCTGCCTTAAATGGCAAGGCTCAGCTGGCTGGGGACTGGCATCCTGTTGGT
CGACCTGAGTCCCTTGCCTTCGTAGATGAAGATGAAGATGAGGACCTCTCCAGGAAGATGGAGCTTCCAC
TGACTCCAGTCTCCCCCTCCTCCCTCCTCCACCTTCCAGTTTCTATTGCTCCATCAAACCC
TGAAGAACCTAATGGGCCACTGCCAGCCATAAACAGCCACCTGAAGCCTCAGACTCTGCAGATCAAAGA
TCATCCACCTTCCAACGCCTGCTGACTGCTTGTAGGAAAAGCTCACTCAAAAAGAAGAAAATAACAC
AGGATTCAACAGATTTAGTGGATAACATGTCACCTGAAGAGATTGAGGCCTGGGAGCGGGAGCAGCTGAG
CCAGCCTGTGTGCTTTGATTGCTGCTGCATCGACCAGTCTCCCTCCAGCTGGTGGAGCAGACAACCTG
CACAAGACTCATACACTTCTCACTTCTTGGCCTCCATCTTGCCTATGTGACCAGCATGGGGAAGCTCA
GAGGTGCTTGGCACTAGAAGAGCTACAGAAAGCTATTGAGGGCCACACCAAATCTGGGGTGACGCTTCG
CCCTCCACTTGCCAGTTCGGAATACAACCTTCAATCCGGAAGACTCCTGGGGGGCCACCCCTCCTGCA
GAGGGCTGGAATGTACCTGAGGATGGAGATGGGGCTCCTGGAAGAGAAGTCATGGTTCTACCATGCCAG
AGACTCCTGTCCCACCACCATCTCCAGAGGCCCTTCTGCTGGCCAGCCAGAGCGGAGGGTGAGCT
GGAGGAACTGGAGATGGTGGGGAGCCTAGAGCCTGAGGAGGAGCTGGCTGACATCTTGCATGGCCCCAGT
CTGCGGTCCACTGATGAGGAAGATGAGGACGAGCTGATCCTGTGA
```

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2375\\_d02.zip](https://cdn.origene.com/chromatograms/ja2375_d02.zip)

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_013491

**Insert Size:** 2985 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_013491.2](#), [NP\\_038519.1](#)

**RefSeq Size:** 3545 bp

**RefSeq ORF:** 2985 bp

**Locus ID:** 12723

**UniProt ID:** [Q64347](#)

**Cytogenetics:** 6 20.57 cM

**Gene Summary:** Voltage-gated chloride channel (By similarity). Plays an important role in membrane repolarization in skeletal muscle cells after muscle contraction (Probable) (PubMed:8119941). [UniProtKB/Swiss-Prot Function]