

## Product datasheet for MR220414

### Clcn1 (NM\_013491) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Clcn1 (NM\_013491) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**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)  
**ORF Nucleotide Sequence:** >MR220414 representing NM\_013491  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCGGTCCCAGTCCCAGCGGCATGGAGGGGAACAGAGCTGGTGGGCAGTGCCCCCAGTACCAGT  
 ACATGCCCTTTGAACATTGTACCAGCTACGGACTGCCCTCAGAGAATGGGGCCTTCAGCACCGGCCCG  
 AAAGGACATGGGTCCCAGGCACAATGCCACCCAACACAGATATATGGCCATCAAAAAGAACAATATTCA  
 TATAAGGCACAGGACGGGGAATGCCAAGAAGATGGGCTCCAGTCTACCATGGACAGCTTGGATGAGG  
 ACCACTATTCTAAATGTCAAGACTGTGTCCATCGCCTGGGACGTGTGCTGAGAAGGAAGCTGGGGGAAGA  
 TTGGATCTTTCTGTGCTCCTGGCCTCCTGATGGCTCTAGTCAGCTGGTGCATGGACTATGTTAGTGCC  
 AAGAGCCTTCAGGCCTACAAGTGGACCTATGCCCAGATGAAGCCTAGCCTTCTCTGCACTACCTGGCCT  
 GGGTCACCTTCCCCTTATCCTGATCCTCTCAGCGCCCTCTTTTGCCAACCTCATCTCTCCCAGGCTGT  
 GGGCTCTGGAATCCCTGAGATGAAAACAATTCTTCGTGGTGTGTCTTGAAGGAATACCTCACACTCAAG  
 GCCTTTGTAGCCAAGGTGGTAGCTTTGACAGCTGGACTGGCAGTGCCATCCCTGTGGGAAAGAGGGTC  
 CCTTTGTTACATCGCCAGCATCTGTGCTGTCTCCTCAGCAAGTTTATGTCCATGTTCTCTGGTGTCTA  
 TGAGCAGCCATACTATTACACTGACATCCTGACAGTGGGCTGTGCCGTGGGGTCCGGTGTCTGTTTTGGA  
 ACACCATTGGAGGAGTCTATTTAGCATCGAGGTCACCTACCTACTTTGCTGTTCCGAAATTACTGCG  
 GAGGATCTTTGAGCCACATTCAGTGCCTTTGTGTTCCGTGTCCTGGCGTTTGAACAAGGATGCTGT  
 CACCATCACTGCTCTGTTGAGAACGAATTTCCGAATGGATTTCCCTTTGACCTGAAGGAACCTCCAGCT  
 TTTGCTGTCATTGGGATTTGCTGCGGGTCTTGGGAGCTGTTTTCGTTTTATCTGCATCGCCAAGTCATGC  
 TCGGTGTCGAAAGCACAAGTGTCTCAGCCAATTTCTTGCTAAGCACCCTGCTATATCCTGGAATTGT  
 TACCTTTGTCATCGCCTCGCTCACATTTCCACCAGGAATGGGTCAATTCATGGCTGGAGAGCTGATGCC  
 CGTGAAGTATCAGTACCCTCTTTGACAACAACACATGGGTAAGCACATAGGTGACCCCAAGCTTGG  
 GCCAGTCACTGTGTGGCTTACCCCAAGTCAACGTGATCATCATCTCTCTCTCTCTGTTATGAA  
 GTTTTGGATGTCATTGTAGCCACCACTATGCCATACCTGTGGAGGCTTCATGCTGTTTTGTGCTA



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GGAGCTGCATTTGGAAGGCTGGTAGGAGAGATCATGGCCATGCTATTCCTGAGGGTATCTTATTTGATG  
 ATATCATCTATAAGATCTTACCTGGGGGCTATGCAGTAATTGGAGCAGCAGCTTTGACAGGGGCTGTCTC  
 CCACACAGTCTCCACAGCCGTCATTTGCTTCAATTAAACCGGTGAGATTGCTCACATCCTGCCCATGATG  
 GTGGCTGTATCTTGGCCAACATGGTGGCTCAGAGTCTGCAGCCCTCCCTCTATGACAGCATCATCCAGG  
 TCAAGAAGCTTCCTATCTGCCAGACCTGGTTGGAACCAGCTCAGCAAATTTACAATTTTTGTTGAGGA  
 CATCATGGTACGTGATGTGAAGTTCGTTTCAGCTTCTTGTACATATGGGAACTGAGAACTACTCCAG  
 GCCACCACAGTCAAGACTTTACCATTGGTTGACTCCAAAGATTCAATGATCCTGCTGGGCTCTGTGGAAC  
 GCTCAGAACTGCAGTCCCTCCTGCAGCGCCACCTGTGTGACAGCGAAGGTTGAAGGCTGCCAGGACAT  
 GGCTCGAAAGTTATCAGAGCTGCCTTAAATGGCAAGGCTCAGCTGGCTGGGGACTGGCATCCTGGTGGT  
 CGACCTGAGTCCCTTGCCTTCGTAGATGAAGATGAAGATGAGGACCTCTCCAGGAAGATGGAGCTCCAC  
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 TCATCCACCTTCCAACGCCTGCTGACTGCTTGTAGGAAAAGCTCACTCAAAAAGAAGAAAATAACAC  
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 GAGGTGCTTGGCACTAGAAGAGCTACAGAAAGCTATTGAGGGCCACACCAAATCTGGGGTGCAGCTTCG  
 CCCTCCACTTGCCAGCTCCGGAATACAATCCGGAAGACTCCTGGGGGGCCACCCCTCCTGCA  
 GAGGGCTGGAATGTACCTGAGGATGGAGATGGGGCTCCTGGAAGAGAAGTATGGTTCTACCATGCCAG  
 AGACTCCTGTCCCACCACCTCTCCAGAGGCCCTTCTGCTGGCCCCAGCCAGAGCGGAGGGTGTAGCT  
 GGAGGAAGTGGAGATGGTGGGGAGCCTAGAGCCTGAGGAGGAGCTGGCTGACATCTTGCATGGCCCCAGT  
 CTGCGGTCCACTGATGAGGAAGATGAGGACGAGCTGATCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220414 representing NM\_013491  
 Red=Cloning site Green=Tags(s)

MERSQSQRHGGEQSWWSAPQYQYMPFEHCTSYGLPSENGGLQHRPRKDMGPRHNAHTQIYGHQKEQYS  
 YKAQDGGMPKMGSSSTMDSLDEDHYSKCQDCVHRLGRVLRRLKEDWIFLVLLGLLMALVSWCMDYVSA  
 KSLQAYKWTYAQMKPSLPLQYLAWVTFPLILILFSALFCQLISPAVGSIGPEMKTILRGVVLKEYLTLK  
 AFVAKVVALTAGLGSIPVGKEGPFVHIASICAAVLSKFMMSFSGVYEQPYYYTDILTVGCAVGVGCCFG  
 TPLGGVLFSEIVTSTYFAVRNYWRGFFAATFSAFVFRVLAWNKDAVTITALFRTNFRMDFPDLKELPA  
 FAVIGICCGFLGAVFVYLHRQVMLGVRKHKLSQFLAKHRLLYPGIVTFVIAASLTFPPGMGQFMAGELMP  
 REAISTLFDNNTWVKHIGDPQSLGQSAVWLHPQVNVIIILLFFVMKFWMSIVATTMPICGGFMPVFL  
 GAAFGRVLVEIMAMLFPEGILFDDIYKILPGGYAVIGAAALTGAVSHTVSTAVICFELTGQIAHILPMM  
 VAVILANMVAQSLQPSLYDSIIQVKKLPYLPDLGWNQLSKFTIFVEDIMVRDVKFVSASCTYGELRNLLQ  
 ATTVKTLPLVDSKDSMILLGVERSELQSLQRHLCAERLKAQDMARKLSELPYNGKAQLAGDWHPGG  
 RPESFAFVDEDEDEDLSRKMELPLTPAPPPSPPPPSQFPIAPSNPEEPNGPLPSHKQPPEASDSADQR  
 SSTFQRLHLHLLGKAHKKKKITQDSTDLVDNMSPEEIEAWEREQLSQPVCFDCCCIDQSPFQLVEQTTL  
 HKHTLFLSLLGLHLAYVTSMGKLRGVLAEELQKAIIEGHTKSGVQLRPPLASFRNTTSIRKTPGGPPPPA  
 EGWNVPEDGDGAPGREVMVPTMPETPVPPPSPEAPSCLAPARAEGELEEELEMVGSLEPEEELADILHGPS  
 LRSTDEEDEDELIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9012\\_b10.zip](https://cdn.origene.com/chromatograms/mm9012_b10.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_013491

ORF Size: 2982 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](#)

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\\_013491.3](#)

**RefSeq Size:** 3545 bp

**RefSeq ORF:** 2985 bp

**Locus ID:** 12723

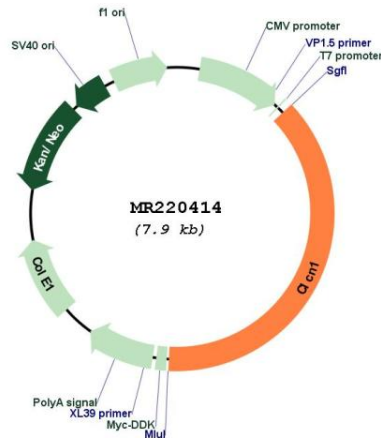
**UniProt ID:** [Q64347](#)

**Cytogenetics:** 6 20.57 cM

**MW:** 110.2 kDa

**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]

### Product images:



Circular map for MR220414