

Product datasheet for **MG220414**

Clcn1 (NM_013491) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn1 (NM_013491) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clcn1
Synonyms:	adr; Clc-1; Clc1; mto; myotonia; nmf355; SMCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG220414 representing NM_013491
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCGGTCCCAGTCCCAGCGCATGGAGGGGAACAGAGCTGGTGGGCGAGTCCCCCAGTACCAGT
 ACATGCCCTTTGAACATTGTACAGCTACGGACTGCCCTCAGAGAATGGGGCCCTCAGCACCGGCCCG
 AAAGGACATGGGTCCCAGGCACAATGCCACCCAAACACAGATATATGGCCATCAAAAAGAACAATATTCA
 TATAAGGCACAGGACGGGGGAATGCCAAGAAGATGGGCTCCAGTTCTACCATGGACAGCTTGGATGAGG
 ACCACTATTCTAAATGTCAAGACTGTGTCCATCGCCTGGGACGTGTGCTGAGAAGGAAGCTGGGGGAAGA
 TTGGATCTTTCTGTGCTCCTGGGCCTCCTGATGGCTCTAGTCAGCTGGTGCATGGACTATGTTAGTGCC
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 GGGTCACCTTCCACTTATCCTGATCCTCTTCAGCGCCCTTTTTGCCAACTCATCTCTCCCGAGGCTGT
 GGGCTCTGGAATCCCTGAGATGAAAACAATTCTCGTGGTGTGCTTGAAGGAATACCTCACACTCAAG
 GCCTTTGTAGCCAAGGTGGTAGCTTTGACAGCTGGACTGGCAGTGGCATCCCTGTGGGGAAGAGGGTC
 CCTTTGTTACATCGCCAGCATCTGTGCTGTCTCCTCAGCAAGTTTATGTCATGTTCTCTGGTGTCTA
 TGAGCAGCCATACTATTACACTGACATCCTGACAGTGGGCTGTGCCGTGGGGTCCGGTGTCTTTTGA
 ACACCACTTGGAGGAGTGTATTTAGCATCGAGGTCACCTCTACCTACTTTGCTGTTCCGAACTACTGGC
 GAGGATCTTTGCAGCCACATTCAGTGCCTTTGTGTTCCGTGTCTGGCCGTTTGAACAAGGATGCTGT
 CACCATCACTGCTCTGTTCAGAACGAATTTCCGAATGGATTTCCCTTTGACCTGAAGGAAGTCCAGCT
 TTTGCTGTCATTGGGATTTGCTGCGGTTCTTGGGAGCTGTTTTCGTTTATCGCATGCCAAGTCATGC
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 TACCTTTGTATCGCCTCGCTCACATTTCCACCAGGAATGGGTCAATTCATGGCTGGAGAGCTGATGCC
 CGTGAAGCTATCAGTACCCTCTTTGACAACAACACATGGGTAAAGCACATAGGTGACCCCAAGGCTTGG
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 GTTTTGGATGTCCATTGTAGCCACCACTATGCCCATACCCTGTGGAGGCTTCATGCCTGTTTTTGTGCTA
 GGAGCTGCATTTGAAGGCTGGTAGGAGAGATCATGGCCATGCTATTCCTGAGGGTATCTTATTTGATG
 ATATCATCTATAAGATCTTACCTGGGGCTATGCAGTAATTGGAGCAGCAGCTTTGACAGGGGCTGTCTC
 CCACACAGTCTCCACAGCCGTCATTTGCTTCAATTAACCGGTCAGATTGCTCACATCCTGCCATGATG
 GTGGCTGTTATCTTGCCAACATGGTGGCTCAGAGTCTGCAGCCCTCCCTCTATGACAGCATCATCCAGG
 TCAAGAAGCTTCCCTATCTGCCAGACCTTGGTTGGAACAGCTCAGCAAATTTACAATTTTTGTTGAGGA
 CATCATGGTACGTGATGTGAAGTTCGTTTCAGTCTTGTACATATGGGGAAGTGAAGAACTACTCCAG
 GCCACCACAGTCAAGACTTTACCATTGGTTGACTCCAAAGATTCAATGATCCTGTGGGCTCTGTGGAAC
 GCTCAGAACTGCAGTCCCTCCTGCAGCGCCACCTGTGTGCAGAGCGAAGGTTGAAGGCTGCCAGGACAT
 GGCTCGAAAGTTATCAGAGTGCCTTATAATGGCAAGGCTCAGCTGGCTGGGGACTGGCATCCTGGTGGT
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 TGACTCCAGCTCCTCCCCCTCCTCCCCCTCCTCCACCTTCCAGTTTCCATTGCTCCATCAAACCC
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 AGGATTCAACAGATTTAGTGGATAACATGTACCTGAAGAGATTGAGGCCTGGGAGCGGGAGCAGCTGAG
 CCAGCCTGTGTGCTTTGATTGCTGCTGCATCGACCAGTCTCCCTTCCAGCTGGTGGAGCAGACAACCCTG
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 GAGGTGCTTGGCACTAGAAGAGCTACAGAAAGCTATTGAGGGCCACACCAAATCTGGGGTGCAGCTTCG
 CCCTCCACTTCCAGCTTCCGGAATACAACTTCAATCCGGAAGACTCCTGGGGGGCCACCCCTCCTGCA
 GAGGGCTGGAATGTACCTGAGGATGGAGATGGGCTCCTGGAAGAGAAGTATGTTCTACCATGCCAG
 AGACTCCTGTCCCACCACCATCTCCAGAGGCCCTTCTGCTGGCCCCAGCCAGAGCGGAGGGTGAAGCT
 GGAGGAACTGGAGATGGTGGGGAGCCTAGAGCCTGAGGAGGAGCTGGCTGACATCTGCATGGCCCCAGT
 CTGCGGTCCACTGATGAGGAAGATGAGGACGAGCTGATCTCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG220414 representing NM_013491
 Red=Cloning site Green=Tags(s)

MERSQSQRHGGEQSWWGSAPQYQYMPFEHCTSYGLPSENGGLQHRPRKDMGPRHNAHTQIYGHQKEQYS
 YKAQDGGMPKKMGSSSTMDSLDEHDHYSKCQDCVHRLGRVLRRLKEDWIFLVLLGLLMALVSWCMDYVSA
 KSLQAYKWYTAQMKPSLPLQYLAWVTFPLILILFSAFCQLISPQAVGSGIPEMKTILRGVVLTKEYLTLK
 AFVAKVVALTAGLGGIPVKGEGPFVHIASICA AVL SKFMSMFSGVYEQPYYYTDILTVCAGAVGVCFCFG
 TPLGGVLF SIEVTSTYFAVRNYWRGFFAATFSAFVFRVLAVWNKDAVTITALFRTNFRMDFPDLKELPA
 FAVIGICCGLGAVFVYLHRQVMLGVRKHKCLSQFLAKHRLLYPGIVTFVIASLTFPPGMQGMAGELMP
 REAISTLFDNNTWVKHIGDPQSLGQSAVWLHPQVNVIIIIILLFFVMKFWMSIVATTMPICGGFMPVFVL
 GAAFGRLVGEIMAMLFPEGILFDDIIYKILPGGYAVIGAAAALTGAVSHTVSTAVICFELTGQIAHILPMM
 VAVILANMVAQSLQPSLYDSIIQVKKLPYLPDLGWNQLSKFTIFVEDIMVRDVKFVSASCTYGELRNLQ
 ATTVKTLPLVDSKDSMILLGSVERSELQSLQRHLCAERRLAAQDMARKLSELPYNGKAQLAGDWHPPGG
 RPE SFAFVDEDEDEDL SRKMELPLTPAPPPSPPPSPQFPIAPSNPEEPNGPLPSHKQPPEASDSADQR
 SSTFQRLHLCLLGAHSHKKKKITQDSTDLVDNMSPEEIEAWEREQLSQPVCFDCCCIDQSPFQLVEQTTL
 HKTHTLFSLLGLHLAYVTSMGKLRGVLAEELQKAIEGHTKSGVQLRPPLASFRNTTSIRKTPGGPPPPA
 EGWNVPE DGDGAPGREVMVPTMPETVPPPSPEAPSCLAPARAEGELEEELEMVGSLEPEEELADILHGPS
 LRSTDEEDEDELIL

TRTRPLE - GFP Tag - V

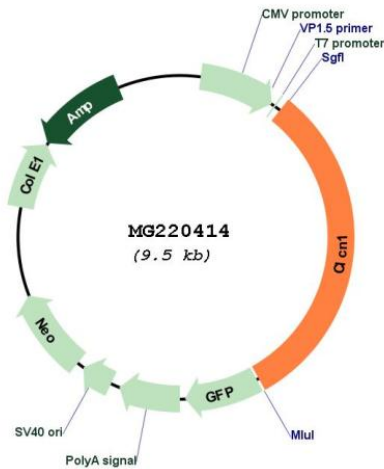
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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 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:	<u>NM_013491.3</u>
RefSeq Size:	3545 bp
RefSeq ORF:	2985 bp
Locus ID:	12723
UniProt ID:	<u>Q64347</u>
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]