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Product datasheet for SC122070

CLCN1 (NM_000083) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN1 (NM_000083) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCN1
Synonyms:	CLC1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_000083 edited
AAGGACAGGGGCAAGCAGGCCAAGGCCTGGCCGGGGCTCGGGGGGAGGGAATATGGAGCA
ATCCCGGTCACAGCAGCGTGGGGGTGAACAAAGCTGGTGGGGTAGTGACCCCCAGTACCA
GTATATGCCCTTTGAACACTGCACCAGCTACGGACTGCCCTCTGAGAATGGGGGCCTCCA
GCACAGGCTCCGGAAGGATGCAGGCCCCCGCCACAACGTCCACCCCACACAGATTTATGG
CCATCACAAAGAACAATTCTCAGACAGGGAGCAGGACATAGGGATGCCCAAGAAGACAGG
CTCCAGTTCTACCGTGGACAGCAAGGATGAGGATCACTATTCTAAATGTCAAGATTGTAT
CCACCGCCTGGGACAGGTGGTGAGAAGAAAATTAGGGGAAGACTGGATCTTTCTGGTGCT
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TCAGGCCTACAAGTGGTCCTACGCGCAGATGCAGCCCAGCCTTCCTCTGCAGTTCCTGGT
CTGGGTCACCTTCCCACTAGTCCTCATCCTCTTCAGCGCCCTCTTCTGCCACCTCATCTC
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CAAGGATGCTGTCACCATCACTGCTCTGTTCAGAACCAATTTCCGAATGGATTTCCCCTT
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CCAGTTTCTTGCTAAGCACCGCCTGCTGTATCCTGGAATTGTTACCTTTGTCATTGCCTC
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CTTCATGCCTGTGTTTGTGCTAGGAGCTGCATTTGGAAGGCTGGTAGGAGAAATCATGGC
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CATGCTCTTTCCTGATGGTATTTTGTTTGATGACATCATCTACAAGATCCTACCTGGGGG
CTATGCAGTAATTGGAGCAGCAGCGCTGACTGGTGCCGTTTCCCACACAGTCTCCACAGC
TGTGATTTGCTTCGAATTAACGGGTCAGATTGCTCACATCCTGCCCATGATGGTGGCTGT
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GGTCAAGAAGCTACCCTACTTGCCTGACCTTGGCTGGAACCAGCTCAGCAAATATACCAT
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CCGGCCCGAGTCCTTCGCCTTTGTGGATGAGGATGAGGACGAAGATCTCTCTGGCAAGAG
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AAGACCCTCCATCTTCCAGTCCCTGCTTCACTGCTTGCTGGGCAGAGCTCGCCCCACAAA
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GGAGGAGCTACAGAAGGCCATTGAGGGGCACACCAAGTCTGGGGTGCAGCTCCGCCCTCC
CCTTGCCAGCTTCCGGAACACGACTTCAACTCGAAAGAGTACCGGGGCACCTCCATCTTC
TGCAGAGAACTGGAACCTGCCTGAGGACAGGCCTGGGGCCACTGGAACAGGGGATGTGAT
TGCTGCCTCCCCAGAGACCCCTGTGCCATCTCCTTCCCCAGAGCCCCCTCTCTCCCTGGC
CCCAGGCAAGGTAGAGGGCGAGTTGGAGGAGCTGGAGCTGGTGGAGAGTCCAGGGCTGGA
AGAGGAGCTGGCCGACATCTTGCAGGGCCCCAGCCTGCGATCCACAGACGAGGAGGATGA
GGATGAACTGATCCTTTGACCCCCTCCCACGACCTCCT

Restriction Sites: Please inquire

ACCN: NM_000083

Insert Size: 3000 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000083.1.

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_000083.1, NP_000074.1

RefSeq Size:	3093 bp
RefSeq ORF:	3093 bp
Locus ID:	1180
UniProt ID:	P35523
Cytogenetics:	7q34
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	The CLCN family of voltage-dependent chloride channel genes comprises nine members (CLCN1-7, Ka and Kb) which demonstrate quite diverse functional characteristics while sharing significant sequence homology. The protein encoded by this gene regulates the electric excitability of the skeletal muscle membrane. Mutations in this gene cause two forms of inherited human muscle disorders: recessive generalized myotonia congenita (Becker) and dominant myotonia (Thomsen). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2012] Transcript Variant: This variant (1) encodes the functional protein.