

Product datasheet for SC117417

CLCN2 (NM_004366) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN2 (NM_004366) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCN2
Synonyms:	CIC-2; cIC-2; CLC2; ECA2; ECA3; EGI3; EGI11; EGMA; EJM6; EJM8; HALD2; LKPAT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_004366 edited
 CGGCACGAGGGGGACGGGACGGCTGCCGGCGCGACTTTGCCGGCCGGGAGCCGAGTCC
 AGGACAGAGCCGGAACCGCCGAGGGAGGGCGAGAGGGCAGTGC CGCGGAGATGGCGGCCGCG
 GCGGCGGAGGAAGGGATGGAGCCACGGGCGCTGCAGTACGAGCAGACCCTGATGTATGGC
 CGGTACACTCAGGACCTTGGGGCCTTTGCCAAAGAGGAAGCTGCTCGGATTTCGCCTGGGA
 GGGCCTGAACCCTGAAAAGGTCCCCCTTCTCTCGGGCTGCCCCAGAGCTTGGAAATAT
 GGACGGAGCCGTTGCGCCCGATGCCGCGTCTGTTCTGTCCGCTGCCACAAGTTCCAGTA
 TCCAGGGTTGGTGAAGATTGGATCTTCTGGTCTGCTGGGGCTTCTCATGGCATTGGTC
 AGCTGGGTCATAGACTATGCCATTGCTGCCTGTCTGCAAGCCCAGCAGTGGATGTCCCGG
 GGCTTGAACACCAGCATTTGCTCCAGTACCTGGCCTGGGTACCTACCCTGTTGTCTCT
 ATCACTTTCTCAGCCGGATTACACAGATCCTGGCCCTCAGGCTGTCCGCTCTGGCATC
 CCTGAGATGAAGACCATCTTGC GGGGAGTGGTGTGAAAGAATACCTCACACTCAAGACC
 TTTATAGCTAAGGTCAATTGGGCTGACCTGCGCCCTAGGCAGCGGGATGCCGCTTGCCAAA
 GAGGGCCCTTTTGTGCATATCGCAAGCATGTGTGCTGCCCTTCTCAGCAAGTTCTCTCC
 CTCTTTGGGGGTATCTATGAGAAATGAATCCCGGAACACAGAGATGCTGGCTGCCGCTGT
 GCCGTGGGGTGGGCTGCTGCTTCCGCGCACCTATTGGAGGCGTCTCTCAGCATCGAG
 GTCACCTCCACCTTCTTGCAGTGC GGA ACTACTGGCGGGGCTTCTTCCGCTGCCACCTTC
 AGTGCCTTCATCTCCGGGCTTGGCAGTCTGGAACCGGGATGAAGAGACTATTACAGCC
 CTCTTCAAACCCGATTCCGGCTCGACTTCCCCTTTGACCTGCAGGAGCTGCCAGCCTTT
 GCTGTCAATTGGTATTGCTAGTGGCTTCGGTGGAGCCCTCTTGTCTACCTGAACCGGAAG
 ATTGTCCAGTGATGCGGAAGCAGAAAACCATCAATCGCTTCTCATGAGGAAACGCCTG
 CTCTTCCCGGCTCTGGTGACCCTGCTCATCTCCACGCTGACCTTCCCCCTGGCTTTGGA
 CAGTTCATGGCTGGACAGCTCTCACAGAAAGAGACGCTGGTACCCTGTTTGACAATCGG
 ACGTGGGTCGCCAGGGCCTGGTGGAGGAGCTAGAACCACCCAGCACCTCACAGGCTGG
 AACCCACCAGTGCCAACGTCTTCTCACCTGGTTCATCTTATTCTCATGAAGTTCTGG
 ATGTCTGCACTGGCCACCACCATCCAGTTCCTGTGGGGCTTTCATGCCTGTCTTTGTCT
 ATTGGAGCAGCATTTGGGCTGCTGGTGGTGAAGCATGGCTGCCTGTTCCAGATGGA



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ATTCATACGGACAGCAGCACCTACCGATTGTGCCTGGGGCTACGCTGTGGTCGCTGCC
 CTGGCAGGAGCGGTGACACACACAGTGTCCACGGCTGTGATCGTGTTCGAGCTCACAGGC
 CAGATTGCCACATCCTGCCTGTATGATCGCCGTATCCTGGCCAACGCTGTGCCCCAG
 AGTCTGCAGCCCTCCCTCTATGACAGCATATCCGAATCAAGAACTGCCTACCTGCCT
 GAGCTCGGCTGGGGCCGCCACCAGCAGTACCGGTGCGTGTGGAGGACATCATGGTGCGG
 GATGTTCCCATGTGGCCCTCAGCTGCACCTCCGGGACCTGCGTTTGGCACTGCACAGG
 ACCAAGGGCCGAATGCTGGCCCTAGTGGAGTCCCCTGAGTCCATGATTCTGCTGGGCTCC
 ATCGAGCGTTTACAGGTGGTGGCATTGTTGGGGGCCAGCTGAGCCCAGCCCGCCGGCGG
 CAGCACATGCAGGAGCGCAGAGCCACCCAGACCTCTCCACTATCTGATCAGGAGGGTCCC
 CCTAGCCCTGAGGCTTCTGTCTGCTTCCAGGTGAACACAGAAGACTCAGCCTTCCCAGCA
 GCCCGGGGGGAGACCCACAAGCCCTAAAGCCTGCACTCAAGAGGGGGCCAGTGTACC
 AGGAACCTCGGAGAGAGTCCCACAGGGAGCGCAGAGTCCGAGGCATCGCCCTCCGGAGC
 CTCTTCTGTGGCAGTCCACCCCTGAGGCTGCTTCGGAGAAGTTGGAATCCTGTGAGAAG
 CGCAAGCTGAAGCGTGTCCGAATCTCCCTGGCAAGTGACGCGGACCTGGAAGGCGAGATG
 AGCCCTGAAGAGATTCTGGAGTGGGAGGAGCAGCAACTAGATGAACCTGTCAACTTCAGT
 GACTGCAAAAATTGATCCTGCTCCCTTCCAGCTGGTGGAGCGGACCTCTTTCACAAAGACT
 CACACTATCTTCTCACTGCTGGGAGTGGACCATGCTTATGTCACCAAGTATTGGCAGACTC
 ATTGGAATCGTACTCTAAAGGAGCTCCGGAAGGCCATCGAGGGCTCTGTACAGCACAG
 GGTGTGAAAGTCCGGCCGCCCTCGCCAGCTTCCGAGACAGTCCACCAGCAGCAGTGC
 ACGGAGACCACTGAGGTGCATGCACTCTGGGGGCCCACTCCCGTCATGGCCTCCCCCGG
 GAGGGCAGCCCTCCGACAGCGACGACAAATGCCAATGAGCCCTCGTGGGTGGCCTAGG
 ATGGTGTAGCCATGCCCGTCAGCCAGAATGTGCATCTTTCATTCTTCTGCCTTCGGA
 AGGCAGGAGGCAGCTACAGCTGGAGGCTGCACCCAGCCCTCCAGACCTGGGGTGCCA
 GCTTCTCCAGTTTACCTACCTGGAATCTGACCCACTACCCACCTGCAACAAGTCTTCC
 AGAGGCAGGAAGATAGGCCCTGCCTGGCAGGATGGGTTGGGGTCA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004366 unedited
 GACTCGNGATTTGTTATACGACTTTATATAGGCGGCCGACGAATTCGCACGAGGGGGACG
 GGACGGCTGCCGGCCGGACTTTGCGGGCCGGGAGCCGAGTCCAGGACAGAGCCGGAACC
 GCCGAGGAGGCAGAGGGCAGTGCAGGAGATGGCGGCCGGCGGAGGAAGGGAT
 GGAGCCAGGGCCGCTGCAGTACGAGCAGACCCTGTTGTATGGCCGGTACACTCAGGACCT
 TGGGGCCTTTGCCAAAGAGGAAGCTGCTCGGATTCGCCTGGGAGGGCCTGAACCTTGAA
 AGGTCCCCCTTCTCTCGGGCTGCCCCAGAGCTTGGAAATATGGACGGAGCCGTTGCGC
 CCGATGCCCGCTGTTCTGTCCGCTGCCACAAGTTCTAGTATCCAGGGTTGGTGAAGA
 TTGGATCTTCTGGTCTGCTGGGGCTTCTCATGGCATTGGTCAGCTGGGTGATAGACTA
 TGCCATTGCTGCCTGTCTGCAAGCCAGCAGTGGATGTCCGGGGCTTGAACACCAGCAT
 CTTGCTCCAGTACCTGGCCTGGGTACCTACCCTGTTGCCTCATCACTTCTCAGCCGG
 ATTCACACAGATCCTGGCCCTCAGGCTGTCCGCTCTGGCATCCCTGAGATGAAGACCAT
 CTTGCGGGGAGTGGTGTGAAAGAATACCTCACACTCAAGACCTTTATAGCTAAAGTCAT
 TGGGCTGACCTGCGCCCTAAGCAGCGGGGATGCCGCTTGGCAAAGAGGGCCCTTTTGTGC
 ATATCGCAAGCATGTGTGCTGCCCTTCTCAGCAGTTCTCTCCCTCTTGGGGGTATCTAA
 GGGNATGTATCCCGGNACACANAATGCTGGGTGCCCCCTGTGCCGTGGGGGTGGGCTGC
 TGCTTCCGGCC

Restriction Sites:

NotI-NotI

ACCN:

NM_004366

Insert Size:

3100 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:	NM_004366.2 , NP_004357.2
RefSeq Size:	2697 bp
RefSeq ORF:	2697 bp
Locus ID:	1181
UniProt ID:	P51788
Cytogenetics:	3q27.1
Domains:	CBS, voltage_CLC
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	<p>This gene encodes a voltage-gated chloride channel. The encoded protein is a transmembrane protein that maintains chloride ion homeostasis in various cells. Defects in this gene may be a cause of certain epilepsies. Four transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2012]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>