

Product datasheet for **SC329197**

CLCN2 (NM_001171087) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN2 (NM_001171087) 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)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001171087, the custom clone sequence may differ by one or more nucleotides

```

ATGGCGGCCGCGGCGGGAGGAAGGGATGGAGCCACGGGCGCTGCAGTACGAGCAGACC
CTGATGTATGGCCGGTACACTCAGGACCTTGGGGCCTTTGCCAAAGAGGAAGCTGCTCGG
ATTCGCCTGGGAGGGCCTGAACCCTGGAAAGTCCCCCTTCTCTCGGGCTGCCCCAGAG
CTCTTGGAAATATGGACGGAGCCGTTGCGCCCGATGCCCGTCTGTTCTGTCCGCTGCCAC
AAGTTCCTAGTATCCAGGGTTGGTGAAGATTGGATCTTCTCTGGTCTGCTGGGGCTTCTC
ATGGCATTGGTACAGCTGGGTCATGGACTATGCCATTGCTGCCTGTCTGCAAGCCAGCAG
TGGATGTCCCGGGCTTGAACACCAGCATCTTGCTCCAGTACCTGGCCTGGGTACCTAC
CCTGTTGTCTCATCACTTTCTCAGCCGGATTACACAGATCCTGGCCCCCAGGCTGTC
GGCTCTGGCATCCCTGAGATGAAGACCATTGCGGGGAGTGGTGTGAAAGAATACCTC
ACACTCAAGACCTTTATAGCTAAGGTCAATTGGGCTGACCTGCGCCCTAGGCAGCGGGATG
CCGCTTGGCAAAGAGGGCCCTTTGTGCATATCGCAAGCATGTGTGCTGCCCTTCTCAGC
AAGTTCCTCTCCCTTTGGGGTATCTATGAGAATGAATCCCGGAACACAGAGATGCTG
GCTGCCGCTGTCCGTTGGGGTGGGCTGCTGCTCGCGGCACCTATTGGAGGCGTCTC
TTCAGCATCGAGTACCTCCACCTTCTTGCAGTGCAGAACTACTGGCGGGCTTCTTC
GCTGCCACCTTCACTGCCTTCTCCGGTCTTGGCAGTCTGGAACCGGGATGAAGAG
ACTATTACAGCCCTTTCAAACCCGATTCCGGCTCGACTTCCCCTTTGACCTGCAGGAG
CTGCCAGCCTTTGCTGTCAATTGGTATTGCTAGTGGCTTCCGGTGGAGCCCTTTTGTCTAC
CTGAACCGGAAGATTGTCCAGGTGATGCGGAAGCAGAAAACCATCAATCGCTTCTCATG
AGGAAACGCCTGCTTCCCGGCTCTGGTGACCCTGCTCATCTCCACGCTGACCTTCCCC
CTTGGCAATCGGACGTGGTCCGCCAGGGCTGGTGGAGGAGCTAGAACCACCCAGCACC
TCACAGGCTGGAACCCACACGTGCCAACGTCTTCTCACCTGGTCACTTCTTATTCTC
ATGAAGTTCTGGATGTCTGCACTGGCCACCACCATCCCAGTTCCTGTGGGGCTTCATG
CCTGTCTTTGTCAATTGATGGAATTCATACGGACAGCAGCACCTACCGATTGTGCCTGGG
GGCTACGCTGTGGTGGGGCAGCTGCGCTGGCAGGAGCGGTGACACACACAGTGTCCACG
GCTGTGATCGTGTTCGAGCTCACAGGCCAGATTGCCACATCCTGCCTGTATGATCGCC
GTCATCCTGGCCAACGCTGTGCCCCAGAGTCTGCAGCCCTCCCTCTATGACAGCATCATC
CGAATCAAGAAACTGCCCTACCTGCCTGAGCTCGGCTGGGGCCGCCACCAGCAGTACCGG
GTGCGTGTGGAGGACATCATGGTGGGGATGTTCCCCATGTGGCCCTCAGCTGCACCTTC
CGGGACCTGCGTTTGGCACTGCACAGGACCAAGGGCCGAATGCTGGCCCTAGTGGAGTCC
CCTGAGTCCATGATTCTGCTGGGCTCCATCGAGCGTTCACAGGTGGTGGCATTGTTGGGG
GCCCCAGCTGAGCCAGCCCGCGGGCGGCAGCACATGCAGGAGCGCAGAGCCACCCAGACC
TCTCCACTATCTGATCAGGAGGGTCCCCCTACCCCTGAGGCTTCTGTCTGCTTCCAGGTG
AACACAGAAGACTCAGCCTTCCCAGCAGCCCGGGGGGAGACCCACAAGCCCCTAAAGCCT
GCACTCAAGAGGGGGCCAGTGTACCAGGAACCTCGGAGAGAGTCCCACAGGGAGCGCA
GAGTCGGCAGGCATCGCCCTCCGGAGCCTTCTGTGGCAGTCCACCCCTGAGGCTGCT
TCGGAGAAGTTGGAATCCTGTGAGAAGCGCAAGCTGAAGCGTGTCCGAATCTCCCTGGCA
AGTGACGCGGACCTGGAAGCGGAGATGAGCCCTGAAGAGATTCTGGAGTGGGAGGAGCAG
CAACTAGATGAACCTGTCAACTTCAAGTACTGCAAAATTGATCCTGCTCCCTTCCAGCTG
GTGGAGCGGACCTTTTGCACAAGACTCACACTATCTTCTCACTGCTGGGAGTGGACCAT
GCTTATGTACCAGTATTGGCAGACTCATTGGAATCGTTACTCTAAAGGAGCTCCGGAAG
GCCATCGAGGGCTCTGTACAGCACAGGGTGTGAAAGTCCGGCCGCCCTCGCCAGCTTC
CGAGACAGTGCCACCAGCAGCAGTGACACGGAGACCACTGAGGTGCATGCACTCTGGGGG
CCCCACTCCCGTATGGCTCCCCCGGGAGGGCAGCCCTCCGACAGCGACGACAATGC
CAATGA

```

Restriction Sites: Please inquire
ACCN: NM_001171087
Insert Size: 3248 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001171087.1, NP_001164558.1</u>
RefSeq Size:	3248 bp
RefSeq ORF:	2646 bp
Locus ID:	1181
UniProt ID:	<u>P51788</u>
Cytogenetics:	3q27.1
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 (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to 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>