

## Product datasheet for **SC329189**

### CLCN2 (NM\_001171089) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN2 (NM_001171089) 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><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001171089, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCCGCGGCGGCGGAGGAAGGGATGGAGCCACGGGCGCTGCAGTACGAGCAGACC
CTGATGTATGGCCGGTACACTCAGGACCTTGGGGCCTTTGCCAAAGAGGAAGCTGCTCGG
ATTGCGCTGGGAGGGCCTGAACCCTGGAAAGTCCCCCTTCTCTCGGGCTGCCCCAGAG
CTCTTGGAAATATGGACGGAGCCGTTGCGCCCGATGCCCGGTCTGTTCTGTCCGCTGCCAC
AAGTTCCTAGTATCCAGGGTTGGTGAAGATTGGATCTTCTCTGGTCTGCTGGGGCTTCTC
ATGGCATTGGTCACTGGGTTCATGGACTATGCCATTGCTGCCTGTCTGCAAGCCAGCAG
TGGATGTCCCGGGCTTGAACACCAGCATCTTGCTCCAGTACCTGGCCTGGGTACCTAC
CCTGTTGTCTCATCACTTTCTCAGCCGGATTCACACAGATCCTGGCCCTCAGGCTGTC
GGCTCTGGCATCCCTGAGATGAAGACCATCTTGCGGGAGTGGTGTGAAAGAATACCTC
ACACTCAAGACCTTTATAGCTAAGGTCAATTGGGCTGACCTGCGCCCTAGGCAGCGGGATG
CCGCTTGGCAAAGAGGGCCCTTTGTGCATATCGCAAGCATGTGTGCTGCCCTTCTCAGC
AAGTTCCTCTCCCTTTGGGGTATCTATGAGAATGAATCCCGAACACAGAGATGCTG
GCTGCCGCTGTCCGTTGGGGTGGGCTGCTGCTTCCGGCACCTATTGGAGGCGTCTCTC
TTCAGCATCGAGTCACTCCACCTTCTTGCAGTGGGAACTACTGGCGGGCTTCTTC
GCTGCCACCTTCACTGCCTTCTCCGGTCTTGGCAGTCTGGAACCGGGATGAAGAG
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TCACAGGCTGGAACCCACAGCTGCCAACGTCTTCTCACCTGGTCACTTCTTATTCTC
ATGAAGTTCTGGATGTCTGCACTGGCCACCACCATCCCAGTTCCTGTGGGGCTTCATG
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GCCAACGCTGTGCCAGAGTCTGCAGCCCTCCCTCTATGACAGCATCATCCGAATCAAG
AAACTGCCCTACCTGCCTGAGCTCGGCTGGGGCCGCCACCAGCAGTACCGGGTGCCTGTG
GAGGACATCATGTGCGGGATGTTCCCATGTGGCCCTCAGCTGCACCTCCGGGACCTG
CGTTTGGCACTGCACAGGACCAAGGGCCGAATGCTGGCCCTAGTGGAGTCCCCTGAGTCC
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AGCCCAGCCCGCGGCGGAGCAGATGCAGGAGCGCAGAGCCACCCAGACCTCTCCACTA
TCTGATCAGGAGGGTCCCCTACCCCTGAGGCTTCTGTCTGCTCCAGGTGAACACAGAA
GACTCAGCCTTCCCAGCAGCCCGGGGGAGACCCACAAGCCCCTAAAGCCTGCACTCAAG
AGGGGGCCAGTGTACCAGGAACCTCGGAGAGAGTCCCACAGGGAGCGCAGAGTCGGCA
GGCATCGCCCTCCGGAGCCTCTTCTGTGGCAGTCCACCCCTGAGGCTGCTTCGGAGAAG
TTGGAATCCTGTGAGAAGCGCAAGCTGAAGCGTGTCCGAATCTCCCTGGCAAGTGACGCG
GACCTGGAAGGCGAGATGAGCCCTGAAGAGATTCTGGAGTGGGAGGAGCAACTAGAT
GAACCTGTCAACTTCACTGACTGCAAAATTGATCCTGCTCCCTTCCAGCTGGTGGAGCGG
ACCTCTTTGCACAAGCTCCGGAAGGCCATCGAGGGCTCTGTACAGCACAGGGTGTGAAA
GTCCGGCCGCCCTCGCCAGCTTCCGAGACAGTCCACCAGCAGCAGTGACACGGAGACC
ACTGAGGTGCATGCACTTGGGGCCCCACTCCCGTCATGGCCTCCCCGGGAGGGCAGC
CCTTCCGACAGCGACGACAAATGCCAATGA

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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001171089  
**Insert Size:** 3212 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001171089.1</a></u> , <u><a href="#">NP_001164560.1</a></u>
<b>RefSeq Size:</b>	3212 bp
<b>RefSeq ORF:</b>	2610 bp
<b>Locus ID:</b>	1181
<b>UniProt ID:</b>	<u><a href="#">P51788</a></u>
<b>Cytogenetics:</b>	3q27.1
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>Gene Summary:</b>	<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 (4) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (4) has the same N- and C-termini but is shorter compared to isoform 1.</p> <p>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>