

Product datasheet for **SC329182**

CLCN2 (NM_001171088) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN2 (NM_001171088) 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)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001171088, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCCGCGGCGGCGGAGGAAGGGATGGAGCCACGGGCGCTGCAGTACGAGCAGACC
CTGATGTATGGCCGGTACACTCAGGACCTTGGGCGCTTTGCCAAAGAGGAAGCTGCTCGG
ATTCGCCTGGGAGGGCCTGAACCCTGAAAGGTCCCCCTTCTCTCGGGCTGCCCCAGAG
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GGCTTGAACACCAGCATTTGCTCCAGTACCTGGCCTGGGTACCTACCCTGTTGTCTCCT
ATCACTTTCTCAGCCGGATTACACAGATCCTGGCCCTCAGGCTGTCCGCTCTGGCATC
CCTGAGATGAAGACCATCTTGCAGGGAGTGGTGTGAAAGAATACCTCACACTCAAGACC
TTTATAGTAAGGTCATTGGGCTGACCTGCGCCCTAGGCAGCGGGATGCCGCTTGGCAA
GAGGGCCCTTTTGTGCATATCGCAAGCATGTGTGCTGCCCTTCTCAGCAAGTTCTCTCC
CTCTTTGGGGGTATCTATGAGAATGAATCCCGAAACACAGAGATGCTGGTGCCGCTGT
GCCGTGGGGTGGGCTGCTGCTTCGCGCACCTATTGGAGGCGTCTCTCAGCATCGAG
GTCACCTCCACCTTCTTTCAGTGCAGGAACTACTGGCGGGGCTTCTTCGCTGCCACCTC
AGTGCCTTCATCTCCGGGTCTTGGCAGTCTGGAACCGGGATGAAGAGACTATTACAGCC
CTCTTCAAACCCGATTCCGGCTCGACTTCCCCTTTGACCTGCAGGAGCTGCCAGCCTTT
GCTGTCAATTGGTATTGCTAGTGGCTTCGGTGGAGCCCTTTTGTCTACCTGAACCGGAAG
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AACCCACCACGTGCCAACGTCTTCTCACCTGGTTCATCTTATTCTCATGAAGTCTGG
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ACAGGCCAGATTGCCACATCCTGCCTGTATGATCGCCGTATCCTGGCCAACGCTGTC
GCCCAGAGTCTGCAGCCCTCCCTCTATGACAGCATCATCCGAATCAAGAAACTGCCCTAC
CTGCTGAGCTCGGCTGGGGCCGCCACCAGCAGTACCGGGTGCCTGTGGAGGACATCATG
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CACAGGACCAAGGGCCGAATGCTGGCCCTAGTGGAGTCCCCTGAGTCCATGATTCTGCTG
GGCTCCATCGAGCGTTCACAGGTGGTGGCATTGTTGGGGGCCAGCTGAGCCAGCCCGC
CGCGGGCAGCACATGCAGGAGCGCAGAGCCACCCAGACCTCTCCACTATCTGATCAGGAG
GGTCCCCCTACCCCTGAGGCTTCTGTCTGCTTCCAGGTGAACACAGAAGACTCAGCCTTC
CCAGCAGCCCGGGGGGAGACCCACAAGCCCTAAAGCCTGCACTCAAGAGGGGGCCAGT
GTCACCAGGAACCTCGGAGAGAGTCCCACAGGGAGCGCAGAGTCCGCGAGGCATCGCCCTC
CGGAGCCTCTTGTGGCAGTCCACCCCTGAGGCTGCTTCGGAGAAGTTGGAATCCTGT
GAGAAGCGCAAGCTGAAGCGTGTCCGAATCTCCCTGGCAAGTACGCGGACCTGGAAGGC
GAGATGAGCCCTGAAGAGATTCTGGAGTGGGAGGAGCAGCAACTAGATGAACCTGTCAAC
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GCACAGGGTGTGAAAGTCCGGCCGCCCTCGCCAGCTTCCGAGACAGTGCACCAGCAGC
AGTGACACGGAGACCACTGAGGTGCATGCACTCTGGGGGCCCACTCCCCTCATGGCCTC
CCCCGGGAGGGCAGCCCTTCCGACAGCGACGACAAATGCCAATGA

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Restriction Sites: Please inquire
ACCN: NM_001171088
Insert Size: 3167 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_001171088.1</u> , <u>NP_001164559.1</u>
RefSeq Size:	3167 bp
RefSeq ORF:	2565 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 (3) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (3) 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>