

## Product datasheet for **RC230544**

### **CLCN2 (NM\_001171088) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CLCN2 (NM_001171088) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLCN2
Synonyms:	CIC-2; cIC-2; CLC2; ECA2; ECA3; EGI3; EGI11; EGMA; EJM6; EJM8; HALD2; LKPAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC230544 representing NM\_001171088  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGCGCCGCGCGCGCGGAGGAAGGGATGGAGCCACGGGCGCTGCAGTACGAGCAGACCCTGATGTATG  
 GCCGGTACACTCAGGACCTTGGGGCCTTTGCCAAAGAGGAAGCTGCTCGGATTCGCCTGGGAGGGCCTGA  
 ACCCTGGAAAGGTCCCCCTTCTCTCGGGCTGCCCCAGAGCTCTTGAATATGGACGGAGCCGTTGCGCC  
 CGATGCCGCGCCAGCAGTGGATGTCCCGGGCTTGAACACCAGCATCTTCTCCAGTACCTGGCCTGGG  
 TCACCTACCCTGTTGTCCTCATCACTTTCTCAGCCGGATTCACACAGATCCTGGCCCTCAGGCTGTCGG  
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 GAAGTTCTGGATGTCTGCACTGGCCACCCATCCAGTTCCTGTGGGGCCTTCATGCCTGTCTTTGTC  
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**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230544 representing NM\_001171088  
 Red=Cloning site Green=Tags(s)

MAAAAAEEGMEPRALQYEQTLMYGRYTQDLGAFAKEEAARIRLGGPEPWKPPSSRAAPELLEYGRSRCA  
 RCRAQQWMSRGLNTSILLQYLAWVTYPVVLITFSAGFTQILAPQAVGSGIPEMKTILRGVVLKEYLTLKT  
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 PIGGVLFSEIVTSTFFAVRNYWRGFFAATFSAFIFRVLAVWNRDEETITALFKTRFRLDFPDLQELPAF  
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 FQVNTEDSAFPAARGETHKLPKALKRGPSVTRNLGESPTGSAESAGIALRSLFCGSPPEAAASEKLESC  
 EKRKLRVRIASLADADLEGEMSPREEILEWEEQQLDEPVNFSACKIDPAPFQLVERTSLHKHTHTIFSLG  
 VDHAYVTSIGRLIGIVTLKELRKAIEGSVTAQGVKVRPPLASFRDSATSSSDTETTEVHALWGPHSRHGL  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

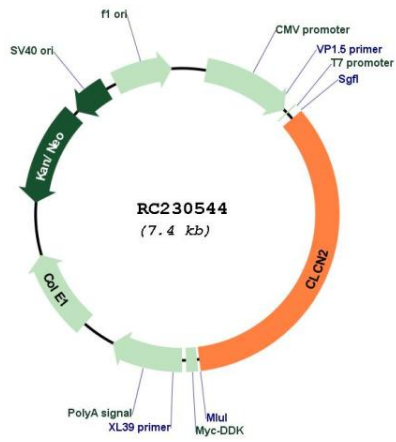
Sgfl-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_001171088
<b>ORF Size:</b>	2562 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001171088.3</a>
<b>RefSeq Size:</b>	3167 bp
<b>RefSeq ORF:</b>	2565 bp
<b>Locus ID:</b>	1181
<b>UniProt ID:</b>	<a href="#">P51788</a>
<b>Cytogenetics:</b>	3q27.1
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>MW:</b>	93.6 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC230544