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Product datasheet for RC230551

CLCN2 (NM_001171089) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN2 (NM_001171089) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLCN2
Synonyms:	CIC-2; clC-2; CLC2; ECA2; ECA3; EGI3; EGI11; EGMA; EJM6; EJM8; HALD2; LKPAT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC230551 representing NM_001171089
Red=Cloning site Blue=ORF Green=Tags(s)

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GCCGCGATCGCC

ATGGCGGCCGCGGCGGCGGAGGAAGGGATGGAGCCACGGGCGCTGCAGTACGAGCAGACCCTGATGTATG
GCCGGTACACTCAGGACCTTGGGGCCTTTGCCAAAGAGGAAGCTGCTCGGATTCGCCTGGGAGGGCCTGA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC230551 representing NM_001171089
Red=Cloning site Green=Tags(s)

MAAAAAEEGMEPRALQYEQTLMYGRYTQDLGAFAKEEAARIRLGGPEPWKGPPSSRAAPELLEYGRSRCA
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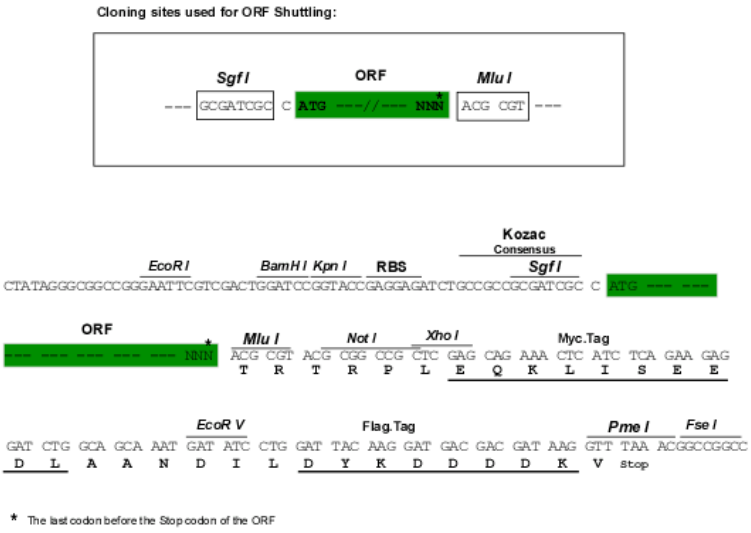
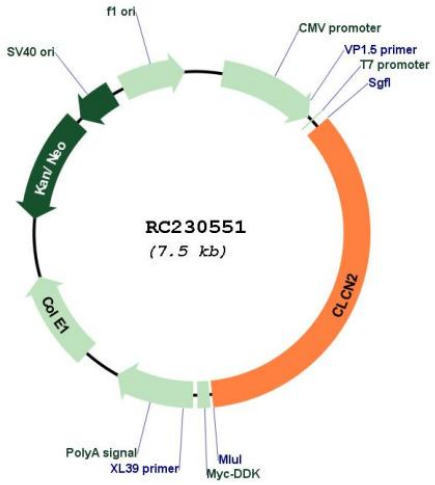
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001171089
ORF Size:	2607 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	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_001171089.3
RefSeq Size:	3212 bp
RefSeq ORF:	2610 bp
Locus ID:	1181
UniProt ID:	P51788
Cytogenetics:	3q27.1

Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
MW:	95.4 kDa
Gene Summary:	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]