

Product datasheet for **RR214433**

Clic2 (NM_001009651) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Clic2 (NM_001009651) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Clic2
Synonyms: MGC108828
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214433 representing NM_001009651
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAGCTTAGCGCTCAACACCCAAGCAGACCCTGAAATTGAGCTCTTTGTGAAGGCTGGAAGTGACG
GAGAAAGTATTGAAACTGTCTTTCTGCCAACGCCTTTTATGATACTCTGGCTTAAGGGAGTTAAATT
TAATGTGACTACTATTGATACAGCCAGAAAACCTGAAGAAGTGAAGGACTTAGCCCCAGGTACCAACCCA
CCATTCTTGATATATAACAAAGAGTTGAAAACAGACTTCATTAATAATTGAGGAGTTTCTAGAGAAGACAC
TCGCTCCTCCAAGGTATCCTCATCTGAGTCCCAAGTACAAGGAATCTTTCGATGTGGGCTGTAATCTCTT
TGCCAAATTTTCTGCGTACATTAAGAATACACAAAAGGAAGCAAATAAGAATTTTGAAAAATCTCTGCTT
AGAGAAATTTAAACGTTTGGATGACTACTTAAATACCCCACTTCTGGATGAAATTGATCCTGACAGCACCG
AGGAACGTACACTTTCCAGAAGACTGTTCTTGGATGGGGATCAACTAACACTGGCTGACTGTAGTTTGT
GCCAAACTGAACATTATTAAGTTGCTGCGAAGAAGTACCGTACTTTGACATTCCAGCAGAATTCTCA
GGAGCTGGCGCTATCTCCACAATGCCTACGCCCGTGAAGAATTTGCCACACATGTCCTGAAGACAAAG
AAATTGAAAATACCTATGCAAGTGTGGCTAAACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

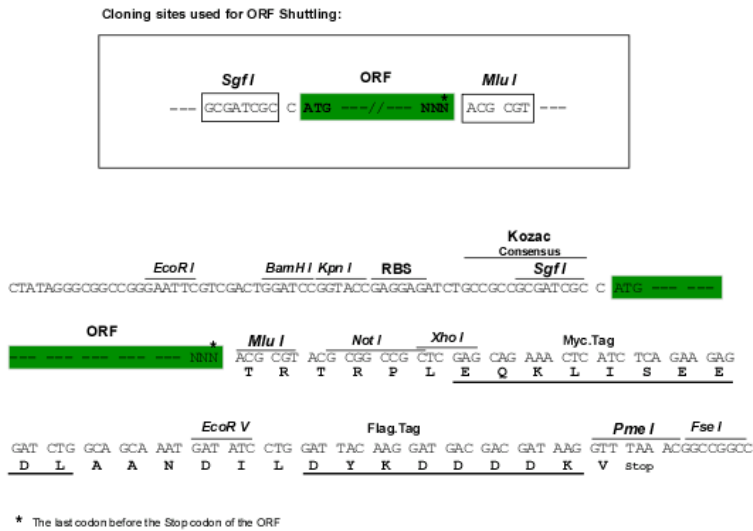
Protein Sequence: >RR214433 representing NM_001009651
 Red=Cloning site Green=Tags(s)

MASLALNTQADPEIELFVKAGSDGESIGNCPFCQQLFMILWLKGVKFNVTITDARKPEELKDLAPGTPN
 PFLIYNKELKTDFFIKIEEFLEKTLAPPRYPHLSPKYKESFDVGCNLFKAFSAYIKNTQKEANKNFEKSL
 REFKRLDDYLNTPLLDEIDPDSTEERTLSRRLFLDGDQLTLADCSLLPKLNIKVAKKYRDFDIPA EFS
 GVVRYLHNAYAREEF AHTCPEDKEIENTYASVAKQ

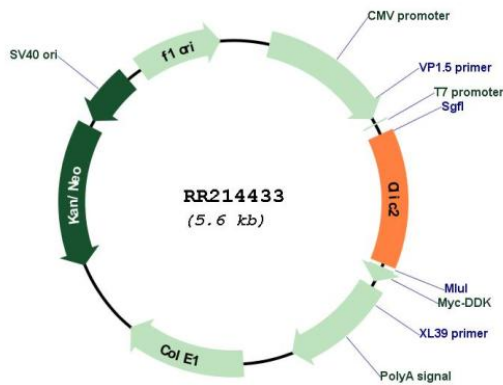
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009651
ORF Size: 735 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:	<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:	NM_001009651.1 , NP_001009651.1
RefSeq Size:	1219 bp
RefSeq ORF:	738 bp
Locus ID:	294141
UniProt ID:	Q5M883
Cytogenetics:	20p12
MW:	28.2 kDa
Gene Summary:	Can insert into membranes and form chloride ion channels. Channel activity depends on the pH. Membrane insertion seems to be redox-regulated and may occur only under oxydizing conditions. Modulates the activity of RYR2 and inhibits calcium influx (By similarity). [UniProtKB/Swiss-Prot Function]