

## Product datasheet for **RG204727**

### CLIC2 (NM\_001289) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLIC2 (NM_001289) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLIC2
Synonyms:	CLCNL2; CLIC2b; MRXS32; XAP121
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204727 representing NM_001289 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAGGCTGCGGCCCGCACTCAAGTGGACCCTGAGATTGAGCTTTTGTAAAGCTGGAAGTGATG  
GAGAGATTGGAACTGTCCCTTTTGCCAACGCCTTTTCATGATCCTCTGGCTTAAAGGAGTTAAATT  
TAATGTGACAACTGTTGACATGACCAGAAAGCCTGAAGAACTAAAGGACTTAGCCCCAGGTACCAATCCT  
CCGTTCTGGTGTATAACAAGGAGTTGAAAACAGACTTCATTAATGAGGAGTTTTAGAACAAACCC  
TGGCTCCTCCAAGTACCCTCACCTGAGTCCCAAGTACAAGGAGTCTTTGATGTGGCTGTAACCTCTT  
TGCCAAGTTTTCTGCATACATTAAGAATACACAAAAGGAGGCAAATAAGAATTTGAAAAATCTCTGCTC  
AAAGAATCAAGCGTCTGGATGACTACTTAAACACCCACTTCTGGATGAAATTGATCCAGACAGTGCTG  
AGGAACCCCAAGTTCCAGAAGACTATTCTTGGATGGGGACCAGCTAACACTGGCTGATTGTAGCTTGT  
ACCCAAGCTGAACATTATAAAGTTGCTGCCAAGAAATATCGTGACTTTGACATTCCAGCAGAATTCTCA  
GGAGTCTGGCGTTATCTCCAAATGCCTATGCCCGTGAAGAATTTACCCACACGTGCTCTGAAGACAAAG  
AAATTGAAAATACTTACGCAAATGTGGCTAAACAGAAGAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG204727 representing NM\_001289  
 Red=Cloning site Green=Tags(s)

MSGLRPGTQVDPEIELFVKAGSDGESIGNCPFCQQLFMILWLKGVKFNVTVDMTRKPEELKDLAPGTPN  
 PFLVYNKELKDFIKIEEFLEQTLAPPRYPHLSPKYKESFDVGCNLFKAFSAYIKNTQKEANKNFEKSL  
 KEFKRLDDYLNTPLLDEIDPDSAEPPVSRRLFLDGQQLTLADCSLLPKLNIKVAKKYRDFDIPA  
 EFS  
 GWRYLHNAYAREEFTHTCPEDKEIENTYANVAKQKS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001289

**ORF Size:** 741 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\\_001289.6](#)

**RefSeq Size:** 2702 bp

**RefSeq ORF:** 744 bp

**Locus ID:** 1193

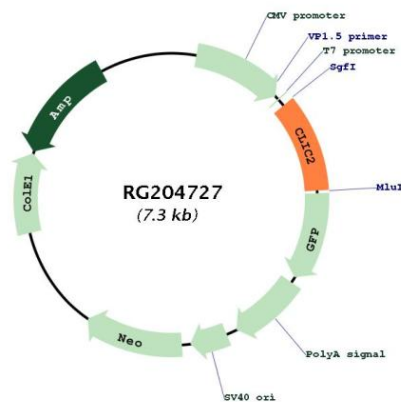
**UniProt ID:** [O15247](#)

**Cytogenetics:** Xq28

**Protein Families:** Druggable Genome, Ion Channels: Other

**Gene Summary:** This gene encodes a chloride intracellular channel protein. Chloride channels are a diverse group of proteins that regulate fundamental cellular processes including stabilization of cell membrane potential, transepithelial transport, maintenance of intracellular pH, and regulation of cell volume. This protein plays a role in inhibiting the function of ryanodine receptor 2. A mutation in this gene is the cause of an X-linked form of cognitive disability. [provided by RefSeq, Jul 2017]

### Product images:



Circular map for RG204727