

Product datasheet for **SC119325**

CLIC2 (NM_001289) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLIC2 (NM_001289) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLIC2
Synonyms:	CLCNL2; CLIC2b; MRXS32; XAP121
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119325 sequence for NM_001289 edited (data generated by NextGen Sequencing)

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ATGTCAGGCCTGCGGCCCGCACTCAAGTGGACCCTGAGATTGAGCTTTTGTAAAGGCT
GGAAGTGATGGAGAGAGTATTGGAACTGTCCCTTTTGCCAACGCCTTTTCATGATCCTC
TGGCTTAAAGGAGTTAAATTTAATGTGACAACCTGTTGACATGACCAGAAAGCCTGAAGAA
CTAAAGGACTTAGCCCCAGGTACCAATCCTCCGTTCTGGTGTATAACAAGGAGTTGAAA
ACAGACTTCATTAATAAATTGAGGAGTTTTAGAACAAACCCTGGCTCCTCCAAGTACCCT
CACCTGAGTCCAAGTACAAGGAGTCTTTTGTGTGGGCTGTAACTCTTTGCCAAGTTT
TCTGCATACATTAAGAATACACAAAAGGAGGCAAATAAGAATTTGAAAAATCTCTGCTC
AAAGAATTCAAGCGTCTGGATGACTACTTAAACACCCCACTTCTGGATGAAATTGATCCA
GACAGTGCTGAGGAACCCCAAGTTTCCAGAAGACTATTCTGGATGGGGACCAGCTAACA
CTGGCTGATTGTAGCTTGTACCCAAGCTGAACATTATTAAGTTGCTGCCAAGAAATAT
CGTGACTTTGACATTCAGCAGAATTCTCAGGAGTCTGGCGTTATCTCCCAATGCCTAT
GCCCGTGAAGAATTTACCCACACGTGCTCCTGAAGACAAAGAAATTGAAAACTTACGCA
AATGTGGCTAAACAGAAGAGTTAG
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Clone variation with respect to NM_001289.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001289 unedited
 GGGTCAGAATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGGGATTTCAA
 GAGCTGCACTTAAGCATCTAGAATTTTCTGCGTCACACCTTTGAGAGAAGAGACTGGCT
 CCAGGTCTGACTCAGTCCACTACAAGCTAGACGGTCTTCTTAAAGCACCAACATTACTTG
 AGTCTTTGGATAAAAATTGAGAAAAGAGTCTACAAGTATTGTGGACTCTACAGGAGGCAGG
 AGGCTGACAACTGGCAGTAAAGACAAAGATGTCAGGCCTGCGGCCCGGCACTCAAGTGA
 CCCTGAGATTGAGCTTTTTGTAAAGGCTGGAAGTGATGGAGAGAGTATTGAAACTGTCC
 CTTTTGCCAACGCCTTTTCATGATCCTCTGGCTTAAAGGAGTTAAATTTAATGTGACAAC
 TGTTGACATGACCAGAAAAGCCTGAAGAATAAAGGACTTAGCCCCAGGTACCAATCCTCC
 GTTCTGGTGTATAACAAGGAGTTGAAAACAGACTTCATTAATAATTGAGGAGTTTTTAGA
 ACAAACCTGGCTCCTCCAAGGTACCCTCACCTGAGTCCCAAGTACAAGGAGTCTTTTGA
 TGTGGGCTGTAACTCTTTGCCAAGTTTTCTGCATACATTAAGAATACACAAAAGGAGGC
 AAATAAGAATTTGAAAAATCTCTGCTCAAAGAATCAAGCGTCTGGATGACTACTTAA
 CACCCACTTCTGGATGAAATTGATCCAGACAGTCTGAGGGAACCCAGTTTCCAGAAG
 ACTATTCTGGATGGNGACCAGCTAACACTGGCTGATTGTAGCTTGTACCCAAGCTGAA
 CATTATTAAGTTGCTGCCAAGAAATATCGTGACTTTGACATTCCAGCAGAANTCTCAGG
 AGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001289 unedited
 TGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGAAGGTTTTTAAAT
 TTATTTTTTAAATGTATAATGGGCACATAATTGTACATATATATGGGATACAATGGGTG
 TTTCAATGCATGTACACACAGTATAATGATCAAATAGGCGTAATTACCATATCCACCACT
 ATAAACATTTGTTATTTCTTTGGTGACATTTAAAAACCTGCTTTTCTAGCTATCTTGA
 AATACATGCTACATTATTTGCTATAGTCACCCACTGTGGTGAATACAAAATTTAT
 TCTTCCTAGGTGTAACCTTATACCCATTGACCAACATCTTTCAGTGCCTCTGCCTCTTT
 CTCTCCCTAGCCCTGGTAACCACGATTCTACCCTCTACTTGTGTGAGATCAACTTTTTA
 AAATCCACATATGAGTGAGATCAACTTTTTAAATCCACATATGAGTGAGATCATGTG
 GTGTTTGTCTTTCTGTGCTGGCTTATTTCAATTTAACATTTCAAATGTATTCTATCAATT
 GTAACCTGCTAGTGCATTGCATGATTCTGAAATATACTGATGACAGGATGTATCTCAA
 GATTATCAACATGATTGCATTTCTGCCACCTAACCATACACTATACATTTATCTTGAC
 TCTATGGTTTTCAAGGACAGTACTTTGAGTTTGCTCATTGCCTTACTTTTTTTTTGAACT
 ATTAAGACGCTACTTCATTTCAATTTTATCTAACTCCACCTTCCCAAGCCTAANAT
 ATTTTCCCTTTTTGAAGCTGCACTTAATGCTGGGTTTCTCCTTTGAGGAACCAAGAATA
 AGTTCACCTTCTGTTCCAGATTGGATGATTTAAGAGAACTTTACAAGTGATTGAAACC
 CATAGAATGAACCTTTACCTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_001289

Insert Size:

2800 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).

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_001289.4](#), [NP_001280.3](#)

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]