

Product datasheet for **SC324210**

CLCA2 (NM_006536) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCA2 (NM_006536) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCA2
Synonyms:	CACC; CaCC-3; CACC3; CLCRG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006536.4
TGAAAACCTGACACAATGTATGCAGCAGGCTCAGTGTGAGTGAAGTGGAGGCTTCTCTAC
AACATGACCCAAAGGAGCATTGCAGGTCCTATTTGCAACCTGAAGTTTGTACTCTCCTG
GTTGCCTTAAGTTCAGAACTCCCATTCCTGGGAGCTGGAGTACAGCTTCAAGACAATGGG
TATAATGGATTGCTCATTGCAATTAATCCTCAGGTACCTGAGAATCAGAACCTCATCTCA
AACATTAAGGAAATGATAACTGAAGCTTCATTTTACCTATTTAATGCTACCAAGAGAAGA
GTATTTTTTCAGAAATATAAAGATTTTAATACCTGCCACATGGAAAGCTAATAATAACAGC
AAAATAAAACAAGAATCATATGAAAAGGCAAAATGCATAGTACTGACTGGTATGGGGCA
CATGGAGATGATCCATACACCCTACAATACAGAGGGTGTGGAAAAGAGGGAAAATACATT
CATTTACACCTAATTTCTACTGAATGATAACTTAACAGCTGGTACGGATCACGAGGC
CGAGTGTGTGTCATGAATGGGCCACCTCCGTTGGGGTGTGTTGATGAGTATAACAAT
GACAAACCTTTCTACATAAATGGGCAAAATCAAATTAAGTGACAAGGTGTTTCATCTGAC
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AAGCTTTTAAAGAAGGATGCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCA
ATAATGTTTCATGCAAAGTTTATCTTCTGTGGTTGAATTTTGAATGCAAGTACCCACAAC
CAAGAAGCACCAAACCTACAGAACCAGATGTGCAGCCTCAGAAGTGCATGGGATGTAATC
ACAGACTCTGCTGACTTTACCACAGCTTTCCCATGAATGGGACTGAGCTCCACCTCCT
CCCACATTTCTCGTTGTACAGGCTGGTGACAAAGTGGTCTGTTTAGTGCTGGATGTGTC
AGCAAGATGGCAGAGGCTGACAGACTCCTTCAACTACAACAAGCCGAGAAATTTATTTG
ATGCAGATTTGTTGAAATTCATACCTTCGTGGGCATTGCCAGTTTCGACAGCAAAGGAGAG
ATCAGAGCCCAGCTACACCAAATTAACAGCAATGATGATCGAAAGTTGCTGGTTTCATAT
CTGCCCACTGTATCAGCTAAAACAGACATCAGCATTGTTCAGGGCTTAAGAAAAGGA
TTTGAGGTGGTTGAAAAACTGAATGAAAAGCTTATGGCTCTGTGATGATATTAGTGACC
AGCGGAGATGATAAGCTTCTTGCAATTGCTTACCCACTGTGCTCAGCAGTGGTTCAACA
ATTCACCTCCATTGCCCTGGGTTTCATCTGCAGCCCCAAATCTGGAGGAATTATCACGTCTT
ACAGGAGGTTTAAAGTCTTTGTTCCAGATATATCAAATCCAATAGCATGATTGATGCT
TTCAGTAGAATTTCTCTGGAAGTGGAGACATTTCCAGCAACATATTCAGCTTGAAGT



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ACAGGTGAAAATGTCAAACCTCACCATCAATTGAAAAACACAGTGACTGTGGATAA
 TACTGTGGGCAACGACACTATGTTTCTAGTTACGTGGCAGGCCAGTGGTCTCCTGAGATTATA
 TTATTTGATCCTGATGGACGAAAATACTACACAAATAATTTTATCACCAATCTAACTTTT
 CGGACAGCTAGTCTTTGGATTCCAGGAACAGCTAAGCCTGGGCACTGGACTTACACCCTG
 AACAAATACCCATCATTCTCTGCAAGCCCTGAAAGTGACAGTGACCTCTCGCGCCTCCAAC
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 GGAGCAGGTGCTGATGTTATAAAAAATGATGGAATTTACTCGAGGTATTTTTTCTCCTTT
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 AATATTCAGATGAATGCTCCAAGGAAATCAGTAGGCAGAAATGAGGAGGAGCGAAAGTGG
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 CACAGAATTTATGTTGCAATACGAGCAATGGATAGGAACTCCTTACAGTCTGCTGTATCT
 AACATTGCCAGGCGCCTCTGTTTATCCCCCAATTCTGATCCTGTACCTGCCAGAGAT
 TATCTTATATTGAAAGGAGTTTTAACAGCAATGGGTTTGATAGGAATCATTTGCCTTATT
 ATAGTTGTGACACATCATACTTTAAGCAGGAAAAAGAGAGCAGACAAGAAAGAGAATGGA
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 CAGAACAGTTGCTTGTTTACAACCTGAAGATCATGCTATATTTTATATATGAAGCCCTA
 ATGCAAAGCTCTTTACCTCTTGCTATTTTGTATATATATTACAGATGAAATCTCACTGC
 TAATGCTCAGAGATCTTTTTTCACTGTAAGAGGTAACCTTTAACAATATGGGTATTACCT
 TTGTCTCTTCATACCGGTTTTATGACAAAGGTCTATTGAATTTATTTGTTTGAAGTTTC
 TACTCCCATCAAAGCAGCTTTCTAAGTTATTGCCTTGGTTATTATGGATGATAGTTATAG
 CCCTTATAATGCCTTAACTAAGGAAGAAAAGATGTTATTCTGAGTTTGTTTAATACATA
 TATGAACATATAGTTTTATTCAATTAACCAAAGAAGAGGTGAGCAGGGAGATACTAACC
 TTTGGAATGATTAGCTGGCTCTGTTTTTGGTTAAATAAGAGTCTTTAATCCTTTCTCC
 ATCAAGAGTACTTACCAAGGGCAGGGGAAGGGGATATAGAGGTCACAAGGAAATAAAA
 ATCATCTTTCATCTTTAATTTTACTCCTTCTCTTATTTTTTTAAAAGATTATCGAACAA
 TAAAATCATTTGCCTTTTTAATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAA

Restriction Sites:

ECORI-NOT

ACCN:

NM_006536

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_006536.4 , NP_006527.1
RefSeq Size:	4007 bp
RefSeq ORF:	2832 bp
Locus ID:	9635
UniProt ID:	Q9UQC9
Cytogenetics:	1p22.3
Domains:	VWA
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Protein Pathways:	Olfactory transduction
Gene Summary:	This gene encodes a member of the calcium-activated chloride channel regulator (CLCR) family of proteins. Members of this family regulate the transport of chloride across the plasma membrane. The encoded protein is autoproteolytically processed to generate N- and C- terminal fragments. Expression of this gene is upregulated by the tumor suppressor protein p53 in response to DNA damage. In breast cancer, expression of this gene is downregulated and the encoded protein may inhibit migration and invasion while promoting mesenchymal-to-epithelial transition in cancer cell lines. [provided by RefSeq, Sep 2016]