

Product datasheet for SC116023

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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116023 sequence for NM_006536 edited (data generated by NextGen Sequencing)

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ATGACCCAAAGGAGCATTGCAGGTCCTATTTGCAACCTGAAGTTTGTGACTCTCCTGGTT
GCCTTAAGTTCAGAACTCCCATTCTGGGAGCTGGAGTACAGCTTCAAGACAATGGGTAT
AATGGATTGCTCATTGCAATTAATCCTCAGGTACCTGAGAATCAGAACCTCATCTCAAAC
ATTAAGGAAATGATAACTGAAGCTTCATTTTACCTATTTAATGCTACCAAGAGAAGAGTA
TTTTTCAGAAATATAAGATTTTAAACCTGCCACATGGAAAGCTAATAAACAGCAAA
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TTCACACCTAATTTCTACTGAATGATAACTTAAACAGCTGGCTACGGATCAGGAGCCGA
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ACAGGCATTTTTGTGTGTGAAAAAGTCTTGCCCCAAGAAAACGTATTATTAGTAAG
CTTTTTAAAGAAGGATGCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCAATA
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GAAGCACCAAACCTACAGAACAGATGTGCAGCCTCAGAAGTGCATGGGATGTAATCACA
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GGAGATGATAAGCTTCTGGCAATTGCTTACCACTGTGCTCAGCAGTGGTTCAACAATT
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GGAGGTTTAAAGTTCTTTGTTCCAGATATATCAAACCTCAATAGCATGATTGATGCTTTT
AGTAGAATTTCTCTGGAAGTGGAGACATTTTCCAGCAACATATTCAGCTTGAAAGTACA

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GGTAAAAATGTCAAACCTCACCATCAATTGAAAAACACAGTGACTGTGGATAAATACTGTG
 GGCAACGACACTATGTTTCTAGTTACGTGGCAGGCCAGTGGTCCCTCTGAGATTATATTA
 TTTGATCTGTGACGAAAAATACTACACAAATAATTTTATACCAATCTAACTTTTCGG
 ACAGCTAGTCTTTGGATTCCAGGAACAGCTAAGCCTGGGCACTGGACTTACACCCCTGAAC
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 GCTGTGCCCCAGCCACTGTGGAAGCCTTTGTGGAAGAGACAGCCTCCATTTTCCTCAT
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 CTTATATTGAAAGGAGTTTTAACAGCAATGGGTTTGATAGGAATCATTTCCTTATTATA
 GTTGTGACACATCATACTTTAAGCAGGAAAAAGAGAGCAGACAAGAAAGAGAATGGAACA
 AAATTATTATAA

Clone variation with respect to NM_006536.5

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006536 unedited
 NNGGGTCGAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACCANAAACCTGA
 CACAATGTATGCAGCAGGCTCAGTGTGAGTGAAGTGGAGGCTTCTCTACAACATGACCCA
 AAGGAGCATTGCAGGTCCTATTTGCAACCTGAAGTTTGTGACTCTCCTGGTTGCCTTAAG
 TTCAGAACTCCCATTTCTGGGAGCTGGAGTACAGCTTCAAGACAATGGGTATAATGGATT
 GCTCATTGCAATTAATCCTCAGGTACCTGAGAATCAGAACCTCATCTCAAACATTAAGGA
 AATGATAACTGAAGCTTCATTTTACCTATTTAATGCTACCAAGAGAAGAGTATTTTTTCAG
 AAATATAAAGATTTTAATACCTGCCACATGGAAAGCTAATAATAACAGCAAAATAAAACA
 AGAATCATATGAAAAGGCAAAATGCATAGTGACTGACTGGTATGGGGCACATGGAGATGA
 TCCATACACCCTACAATACAGAGGGTGTGGAAGAGGGAAAATACATTCATTTACACC
 TAATTTCTACTGAATGATAACTTAACAGCTGGCTACGGATCACGAGGCCGAGTGTGTTGT
 CCATGAATGGGCCACCTCCGTTGGGGTGTGTTTCGATGAGTATAACAATGACAAACCTTT
 CTACATAAATGGGCAAAATCAAATTAAGTGACAAGGTGTTTCATCTGACATCACAGGCAT
 TTTTGTGTGTGAAAAAGTCTTGGCCCCAAGAAAAGTATTATTAGTAAGCTTTTTTAA
 AGAAGGATGCACCTTTATCTACAATAGCACCCAAATGCAACTGCATCAATAATGTTTCATG
 CANAGTTNNACTCTGTGGGTGAATTTTGTAAATGCAGTACCCACACCAAAAGCACCAA
 ACCTACAGAACCAGA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006536 unedited CTGTAAATCGCGGCACGCAATTCTAGTGATCGAGTTTTTTTTTTTTTTTTTTTTAAAAA TAATTTTTATTATTATGTTTCATAGCCAAAGTGAAGGAGTTTTCTAATCTACCCCAAAA AGAATTTGTTGATCTACCATGTAAAAATCTTATCTGTATTGTACAAAACTCAATGCATT TTAATACAGTTCTTGATGTTAATTTGACTTTGTTAGTATGTTTTGTAGTCGAAGGCCAT GGTCTTATATCTAAGAAGGAAGACACTTTGGATATTTATTTATAATAATCTTTGCTCCA TTCTCTTTCTTGCTGCTCTCTTTTTCTGCTCAAAGTCTGATGTGTCACTATATTA AGGCAATTTGATTCTATCAAACCCATTGCTGCTCAATCCCCTCCGATTTAATATACTTT TTTTTTAAACCCGGATCTTACCTCTGGCGCCAATACCAAACCTCCTGACTCCTCCCCT CCCATCTTTCCCGTTTGTATTTTATCCCTTACTTTCTCTCCCATATTACACCTTCTATT TTCACTACCTTTTTCTCCCCCCCCCTCTTATTCCCCTCCGAGTTAGTTATCT CACTATCCACTTTCTTTCAATTCCTCCCCCACCAGCCTAATATATGATTTTTACAG TCGTCCCCGCTCTTAGTTCTTACCTATTTTTTTTCCATCACCCCTTCCCTCCCCCCC TCTATCCCCCTTCTCCACCTCACTCACTTCCACTTTTACACTCTCCCCCTTCCCTCT CCCCCCCCCTCTCCTCCTCTCGCGCCACCCTCCTCCCCACCCTTCTCCCTCCTC TTCCCCCTTATCCTATCCCCCTCCTCTTTCTTACACTTCTACATTTACCCCTACCT CTACCATATTTCTCACCCCATCTTACTTACCTCCCATCCACTTCTCCTCTCTAA CTTTACTATTCTTACGCCCTTCACT
Restriction Sites:	ECoRI-NOT
ACCN:	NM_006536
Insert Size:	3160 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:	<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:	<u>NM_006536.4</u> , <u>NP_006527.1</u>
RefSeq Size:	4007 bp
RefSeq ORF:	2832 bp
Locus ID:	9635
UniProt ID:	<u>Q9UQC9</u>
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]