

Product datasheet for **RC221294**

CLCN6 (NM_001286) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN6 (NM_001286) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLCN6
Synonyms:	CLC-6; CONRIBA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC221294 representing NM_001286
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGGTGCAGGGGTCTCTGTGCTGCTGCTGCAGGTGGTGTGCTGCTGCGGTGAGCGTGAGACCC
 GCACCCCGAGGAGCTGACCATCCTTGGAGAAACACAGGAGGAGGAGGATGAGATTCTTCCAAGGAAAGA
 CTATGAGAGTTTGGATTATGATCGCTGTATCAATGACCCTTACCTGGAAGTTTTGGAGACCATGGATAAT
 AAGAAAGTGAAGATATGAGGCGGTGAAGTGGATGGTGGTGTGGCCATTGGAGTCTGCACTGGCCTGG
 TGGGTCTCTTTGTGGACTTTTTGTGCGACTCTTACCCAACCAAGTTCGGAGTGGTACAGACATCGGT
 GGAGGAGTGCAGCCAGAAAGGCTGCCTCGCTCTGTCTCTCCTTGAACCTCTGGGTTTTAACCTCACCTTT
 GTCTTCTGGCAAGCCTCCTTGTCTCATTGAGCCGGTGCAGCAGGTTCCGGGATACCCGAGGTCAAAT
 GCTATCTGAATGGCGTAAAGGTGCCAGGAATCGTCCGTCTCCGGACCCTGCTCTGCAAGGCTCTGGAGT
 GCTGTTCAAGTGTGGCTGGAGGGCTTTCGTGGGAAGGAAGGCCCATGATCCACAGTGGTTCGGTGGTG
 GGAGCTGGCCTCCCTCAGTTTCAGAGCATCTCCTTACGGAAGATCCAGTTAACTTCCCCTATTTCCGAA
 GCGACAGAGACAAGAGAGACTTTGTATCAGCAGGAGCGGCTGCTGGAGTTGCTGCAGCTTTCGGGGCCG
 AATCGGGGTACCTTGTTCAGTCTAGAGGAGGGTTCGCTTCTGGAACCAAGGGCTCACGTGAAAAGTG
 CTCTTTTGTTCATGTCTGCCACCTTACCCTCAACTTCTCCGTTCTGGGATTCAGTTTGAAGCTGGG
 GTTCTTCCAGCTCCCTGGATTGCTGAACCTTTGGCGAGTTAAGTGTCTGACTCTGATAAAAAATGTCA
 TCTCTGGACAGCTATGGATTTGGGTTTCTTCGTGTGATGGGGTTCATTGGGGCCTCCTGGGAGCCACA
 TCAACTGTCTGAACAAGAGGCTTCAAGTACCGTATGCGAAACGTGCACCCGAAACCTAAGCTCGTCA
 GAGTCTTAGAGAGCCTCCTTGTGTCTCTGTTAACCACCGTGGTGGTGTGGTGGTGGTGGTGGTGGTGGT
 AGAATGCCGACAGATGTCTCTTCGAGTCAAATCGGTAATGACTCATTCCAGCTCCAGGTCACAGAAGAT
 GTGAATCAAGTATCAAGACATTTTTTTGTCCCAATGATACCTACAATGACATGGCCACACTCTTCTTCA
 ACCCGCAGGAGTCTGCCATCCTCCAGCTTCCACCAGGATGGTACTTTCAGCCCGTCACTCTGCCTT
 GTTCTTCGTTCTCTATTTCTTGCTTGCATGTTGGACTTACGGCATTCTGTTCCAAGTGGCCTTTTTGTG
 CCTTCTGCTGTGTGGAGCTGCTTTTGGACGTTTGTGCAATGTCTAAAAAGCTACATTGGATTGG
 GCCACATCTATTCGGGGACCTTTGCCCTGATTGGTGCAGCGGCTTCTTGGGGGGGTGGTCCGCATGAC
 CATCAGCCTCACGGTATCCTGATCGAGTCCACCAATGAGATCACCTACGGGCTCCCATCATGGTCACA
 CTGATGGTGGCCAAATGGACAGGGGACTTTTTCAATAAGGGCATTATGATATCCAGTGGGCTGCGAG
 GCGTGCCGCTTCTGGAATGGGAGACAGAGTGGAAATGGACAAGCTGAGAGCCAGCGACATCATGGAGCC
 CAACCTGACCTACGTCTACCCGCACACCCGCATCCAGTCTCTGGTGGAGCATCTGCGCACACCGTCCAC
 CATGCCTTCCCGGTGGTACAGAGAACCAGGTAACGAGAAGGAGTTCATGAAGGGCAACCAGCTCATCA
 GCAACAACATCAAGTTCAAGAAATCCAGCATCCTCACCCGGGCTGGCGAGCAGCGCAAACGGAGCCAGTC
 CATGAAGTCTACCCATCCAGCGAGTACGGAACATGTGTGATGAGCACATCGCCTCTGAGGAGCCAGCC
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 GTCGCAGCTTGTACCCTGCTTGTCCGAGGAGTTTGTACTCTGAAAGCCAGTCGAGCGCCAGCCAGCCG
 CGCCTCTCTATGCCGAGATGGCCGAGGACTACCCGCGGTACCCGACATCCACGACCTGGACCTGACGC
 TGCTCAACCCGCGCATGATCGTGGATGTACCCCATACATGAACCCTTCGCCCTTACCCTCTCGCCCAA
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 AGCACTACCAGACCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221294 representing NM_001286
 Red=Cloning site Green=Tags(s)

MAGCRGSLCCCCRWCCCCGERETRTPEELTILGETQEEDEILPRKDYESLDYDRcindpyLEVTMDN
 KKGRRYEAVKWMVYFAIGVCTGLVGLFVDFVRLFTQLKFGVVQTSVEECSQKGCLALSLELLGFNLTF
 VFLASLLVLIIEPVAAGSGIPEVKCYLNGVKVPGIVRLRLLCKVLGVLFVAGGLFVKGEGPMIHSGSVV
 GAGLPQFQSI SLRKIQFNFPYFRSDRDKRDFVSAGAAAGVAAAFGAPIGGTLFSLEEGSSFWNQGLTWKV
 LFCMSATFTLNFFRSGIQFGSWGSQLPGLLNFGFEKCSDSKKCHLWTAMD LGFFVVMGVIIGLLGAT
 FNCLNKRLAKYMRNVHPKPLVRVLESLLVSLVTTVVVVFVASMVLGECRQMSSSSQIGNDSFQLQVTE
 VNSSIKTFFCPNDTYNDMATLFFNPQESAILQLFHQDGTFSVTLALFFVLYFLLACWTYGISVPSGLFV
 PSLLCGAAFGRLLVANLKS YIGLGHISYGTALIGAAAFGGVVRMTISLTVIL IESTNEITYGLPIMVT
 LMAKWTGDFFNKGIYDIHVGLRGVPLEWETEVEMDKLRASDIMEPNLYVYPHTRIQLSVILRTTVH
 HAFPVVTENRGNEKEFMKGNQLISNNIKFKSSILTRAGEQRKRSQSMKSYPSSELNMCDEHIASEEPA
 EKEDLLQMLERRYPYPNLYPDQSPSEDWTMEERFRPLTFHGLILRSQVLTLLVRGVCYSESQSSASQP
 RLSYAEMAEDYPRYPDIHDLTLLNPRMIVDVPYMNPSPTVSPNTHVSQVFNLFRMTGLRHLPPVNA
 VGEIVGIITRHNLTYEFLQARLRQHYQTI

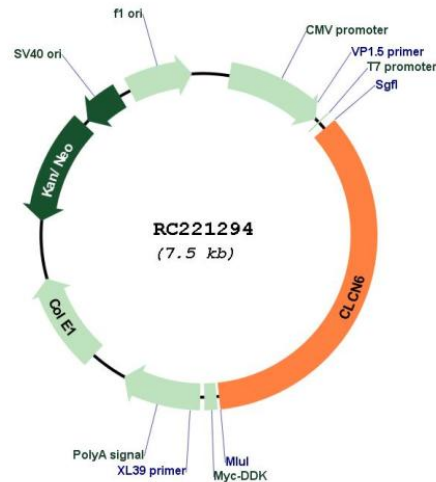
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001286

ORF Size: 2607 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_001286.4](#)

RefSeq Size: 5713 bp

RefSeq ORF: 2610 bp

Locus ID: 1185

UniProt ID: [P51797](#)

Cytogenetics: 1p36.22

Domains:	CBS, voltage_CLC
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
MW:	97.2 kDa
Gene Summary:	<p>This gene encodes a member of the voltage-dependent chloride channel protein family. Members of this family can function as either chloride channels or antiporters. This protein is primarily localized to late endosomes and functions as a chloride/proton antiporter. Alternate splicing results in both coding and non-coding variants. Additional alternately spliced variants have been described but their full-length structure is unknown. [provided by RefSeq, Mar 2012]</p>