

Product datasheet for **SC332498**

CLCN4 (NM_001256944) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN4 (NM_001256944) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCN4
Synonyms:	CIC-4; CIC-4A; CLC4; MRX15; MRX49; MRXSRC
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

Fully Sequenced ORF: >SC332498 representing NM_001256944.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGACGGACCTGAAGGAGGGGTCTGCCTGTCTGCCTTCTGGTATAGCCATGAGCAGTGTGCTGGACT
TCTAACGAGACCACTTTTGAGGACAGAGACAAGTGTCCCTGTGGCAGAAATGGTCGGAGCTGCTGGTG
AATCAGTCAGAGGGTGCCAGTGTACATTCTGAATTACTTAATGTACATCCTATGGGCGCTGCTGTTT
GCATTTTTGGCTGTCTCCCTGGTGCCTGATTTGCACCATATGCCTGTGGCTCTGGCATAACAGAGATA
AAGACCATTTTGAGCGGCTTTATCATCAGGGGCTACTTGGGAAGTGACCCTGCTAATCAAGACAGTC
ACGCTGGTGTGCTAGTGTCTCCGGTCTGAGCCTTGGGAAGGAAGGGCCGCTAGTGCACGTGGCTTGT
TGCTGTGGCAACTTCTTCAGCAGCCTTTTCTCCAAGTACAGCAAGAATGAGGGCAAGAGCGGGAGGTG
CTTTCAGCTGCAGCGGCTGCTGGAGTCTCTGTTGCCTTTGGTGCACCAATTGGAGCGTGTCTTTCAGT
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GCCTTACGCTGAGATCCATCAATCCCTTTGGGAATAGCCGTCTCGTCTCTTTATGTGGAATACCAC
ACGCCCTGGTACATGGCTGAACCTTCCCTTCATCCTGCTTGGGTCTTCGGGGCTTGTGGGAAACC
CTTTCATCCGCTGCAACATCGCCTGGTGCAGGAGGCGCAAGACCACCAGGCTGGGAAGTACCCGGTG
CTGGAGGTCATTGTGGTACTGCCATCACTGCCATCATTGCCATACCCCAATCCCTACACACGCCAGAGC
ACCAGCGAGCTCAATTTCTGAGCTGTTCAATGACTGTGGAGCCCTTGGTCTTCCAGCTCTGTGACTAC
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TTAAATGGGTACCCTTCTTCTGACGTGAAGGACGAGTTTACTCACCGCACACTGGCCACCAGCTCATG
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CTGCGGCGCATCCTGAACCTCAGCCGTTTACAGTGACAGACCACACTCCGATGGAACGGTGGTGGAT
ATCTTCCGAAACTGGGCTTCCGCACTGCTGGTACCGGAGCGGGAGACTTCTTGGCATCATCACA
AAAAGGATGTTCTGAGACATATGGCCAGATGGCAAACAGGACCCGAATCCATCATGTTAATAG
  
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001256944

Insert Size: 2001 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_001256944.1](#)

RefSeq Size: 6534 bp

RefSeq ORF: 2001 bp

Locus ID: 1183

UniProt ID: [P51793](#)

Cytogenetics: Xp22.2

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

MW: 74.3 kDa

Gene Summary: The CLCN family of voltage-dependent chloride channel genes comprises nine members (CLCN1-7, Ka and Kb) which demonstrate quite diverse functional characteristics while sharing significant sequence homology. Chloride channel 4 has an evolutionary conserved CpG island and is conserved in both mouse and hamster. This gene is mapped in close proximity to APXL (Apical protein *Xenopus laevis*-like) and OA1 (Ocular albinism type I), which are both located on the human X chromosome at band p22.3. The physiological role of chloride channel 4 remains unknown but may contribute to the pathogenesis of neuronal disorders. Alternate splicing results in two transcript variants that encode different proteins. [provided by RefSeq, Mar 2012]

Transcript Variant: This variant (2) differs in the 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.