

Product datasheet for **RC234675**

CLCN4 (NM_001256944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN4 (NM_001256944) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLCN4
Synonyms:	CIC-4; CIC-4A; CLC4; MRX15; MRX49; MRXSRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC234675 representing NM_001256944
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACGGACCTGAAGGAGGGGTCTGCCTGTCTGCCTTCTGGTATAGCCATGAGCAGTGTGCTGGACTT
CTAACGAGACCACTTTTGAGGACAGAGACAAGTGTCCCCTGTGGCAGAAAATGGTCGGAGCTGCTGGTGAA
TCAGTCAGAGGGTGCCAGTGCTTACATTCTGAATTAATGTACATCCTATGGGCGCTGCTGTTTGCA
TTTTTGGCTGTCTCCCTGGTGCCTGATTTGCACCATATGCCTGTGGCTCTGGCATAACCAGAGATAAAGA
CCATTTTGAGCGGCTTTATCATCAGGGGCTACTTGGGGAAGTGGACCCTGCTAATCAAGACAGTCACGCT
GGTGTGGTAGTGTCTCCGGTCTGAGCCTTGGGAAGGAAGGGCCGCTAGTGCACGTGGCTTGTGCTGT
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TCTTCATCCCCAGCATGGCTGTGGGCGCGATAGCGGGCAGGATGGTGGGAATTGGCGTGGAGCAGTGGC
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GTTTACAGTGACAGACCACACTCCGATGAAAACGGTGGTGGATATCTTCCGAAACTGGGCTTCGGCAG
TGCTTGGTGTGACGCGGAGCGGGAGACTTCTTGGCATCATCAAAAAAGGATGTTCTGAGACATATGGCC
AGATGGCAAACAGGACCCGAATCCATCATGTTTAAAT

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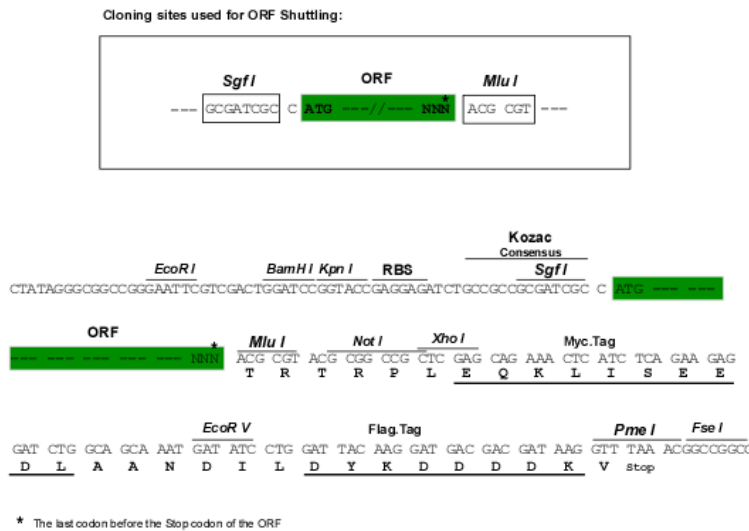
Protein Sequence: >RC234675 representing NM_001256944
Red=Cloning site Green=Tags(s)

MTDLKEGVCLSAFWYSHEQCCWTSNETTFEDRDKCPLWQKWESELLVNQSEGASAYILNYLMYILWALLFA
 FLAVSLVRVAFYACGSGIPEIKTILSGFIIRGYLGKWTLLIKTVTLVLVVSSGLSLGKEGPLVHVACCC
 GNFFSSSLFSKYSKNEGKRREVLAAAAAGVSVAFGAPIGGVLFSLLEEVSYFPLKTLWRSFFAALVAAFT
 LRSINPFGNSRLVLFYVEYHTPWYMAELFPFILLGVFGGLWGTLFIRCNIAWCRRRRTTRLGKYPVLEVI
 VVTAITAIAYPNPYTRQSTSELISELFNDCGALESSQLCDYINDPNMTRPVDDIPDRPAGVGVYTAMWQ
 LALALIFKIVVTIFTFGMKIPSGLFIPSMVGAIAGRMVGIGVEQLAYHHHDWIIIFRNWCRPGADCVTPG
 LYAMVGAACLGGVTRMTVSLVVIMFELTGGLEYIVPLMAAAVTSKWVADAFGKEGIYEAHIHNGYPFL
 DVKDEFTHRTLATDVMRPRRGEPLSVLTQDSMTVEDVETLIKEDYNGFPVVVSRDSERLIGFAQRREL
 ILAIKNARQRQEGIVSNSIMYFTEEPPELPANSPHPLKLRRLNLSPFTVTDHTPMETVVDIFRKLGLRQ
 CLVTRSGRLLGIITKKDVLRHMAQMANQDPESIMFN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256944

ORF Size: 1998 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_001256944.1](#), [NP_001243873.1](#)

RefSeq Size: 6534 bp

RefSeq ORF: 2001 bp

Locus ID: 1183

UniProt ID: [P51793](#)

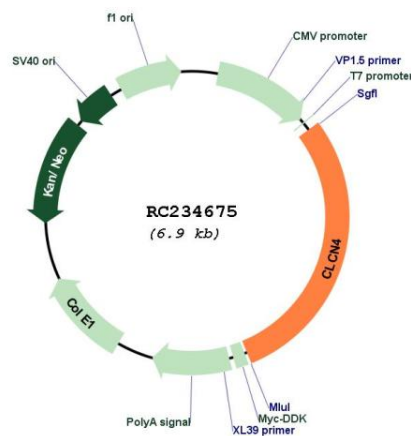
Cytogenetics: Xp22.2

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

MW: 74.8 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]

Product images:



Circular map for RC234675