

Product datasheet for **MR210240**

Clcn4 (BC005553) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn4 (BC005553) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clcn4
Synonyms:	Clc4-2; Clcn4-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210240 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTTCCTCGAGGAGCCCTTCCTGACGTGGGGACCTACGAGGACTCCACACCATAGACTGGCTGA
 GGGAAAAGTCCC GGATACCGACAGACATAGGAAGATCACCAGCAAAAGTAAGGAGTCTATTTGGGAGTT
 CATCAAGAGCCTGCTGGACGCGTGGTCGGGATGGGTGGTACTACTATTGGGCTGCTGGCAGGTACC
 TTGGCTGGAGTCATCGATCTCGCTGTGGATTGGATGACGGACCTCAAGGAGGGGGTCTGTCTGCCGAT
 TCTGGTACAGCCATGAACAGTGTGTTGGACCTCAACGAGACCCTTTTGGAGCAGGGACAAGTGTCC
 CCTGTGGCAGAAGTGGTCAGAGCTTCTTCTGAGCCAGTCAGAGGGCGCCAGCGTTACATTCTGAATTAC
 TTAATGTACATTCTATGGGCGTTGCTGTTTGCATTTCTGGCTGTCTCCCTGGTACGTGTGTTCCGACCGT
 ATGCCTGTGGCTCTGGCATAACCGAGATAAAGACTATTTTGGTGGCTTTATCATCAGGGGCTACTTGGG
 GAAATGGACTCTTCTAATCAAGACTGTCAACCTCGTGTGCTCGTATCCTCTGGCCTGAGCCTTGGCAA
 GAGGGCCCACTGGTGCATGTGGCATGTTGCTGTGGCAACTTCTTCAAGCAGCCTTTTCTCCAAGTATAGCA
 AGAATGAAGGCAAGAGGGCGTGAGGTGCTTTCAGCTGCAGCTGCTGCTGGTGTCTCTGTGGCCTTGGTGC
 TCCGATAGGAGGTGTGCTCTTCACTCTAGAGGAGGTGAGTTACTACTTTCCCTTGAAAACCTTGTGGAGG
 TCATTCTTTGACGCCCTGGTGGCTGCCTTCACTGCGCTCCAACAACCCCTTTGGAAAATAGCCGCTGG
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 GGAGGTATTGCGGTGACAGCCGTCACCGCCATCGTGGCCTACCCAATCCCTACACTCGCCAGAGCACC
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 CATGTGGCAGCTGGCCTTGGCACTGATCTTCAAAATAGTCATTACTATATTTACCTTTGGCATGAAGATT
 CCCTCAGGTCTTTCATCCCCAGTATGGCTGTCCGAGCCATGGCAGGCCGGATGGTGGGAATCGGTGTGG
 AGCAGCTGGCCTACCATCACCATGACTGGATCATCTTCAGGAAGTGGTGCAGGCCTGGAGCGGACTGTGT
 CACACCAGGGCTTATGCGATGGTGGGAGCTGCAGCCTGTCTAGGTGGGGTACTAGGATGACAGTGTCT
 CTAGTGGTCATTATGTTTGAAGTACTGGAGGTCTGGAGTATATTGTACCCCTGATGGCAGCTGCTGTCA
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 CCCATTTCTTGATGTGAAGGATGAGTTCACCCACCGTACGCTGGCCACTGATGTGATGCGGCCCGGAGG
 GGAGAACCGCCATTATCGGTACTAACCCAGGACAGCATGACTGTGGAGGACGTGGAGACTCTCATCAAGG
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 GCGGGAGCTAATCTTGGCTATAAAAAATGCCAGGCAAGAGGGCATTGTGAGCAATTCATCATG
 TACTTCACAGAGGAGCCTCCTGAGCTGCCTGCCAACAGCCACATCCACTGAAGCTGAGGCGCATTTTGA
 ACCTGAGCCCTTTCACGGTACAGATCACACCCCATGGAGACGGTGGTGGACATTTTCCGGAAACTGGG
 GCTCCGACAATGCCTGGTACACGGAGTGGGAGACTTCTTGGGATCATCACAAAAAGGATGTTCTGAGA
 CACATGGCCAGATGGCAAACAGGACCCTGAATCCATCATGTTAAT

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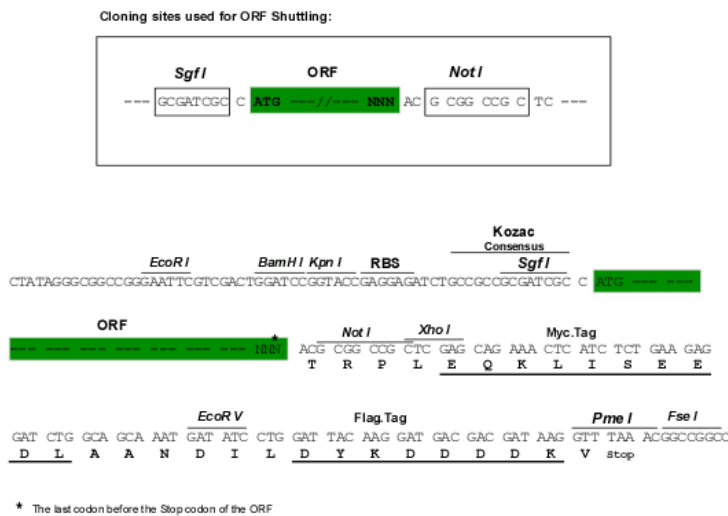
Protein Sequence: >MR210240 protein sequence
 Red=Cloning site Green=Tags(s)

MDFLEEFPPDVGTYEDFHTIDWLREKSRDTRHRKITSKSKESIWEFIKSLDDAWSGVWVMLLIGLLAGT
 LAGVIDLAVDWMIDLKEGVCLSAFWYSHEQCCWTSNETTFEDRDKCPLWQKWESELLLSQSEGASAYILNY
 LMYILWALLFAFLAVSLVRVFAPYACSGIPEIKTILSGFIIRGYLGKWTLLIKTVTLVLVSSGLSLGK
 EGPLVHVACCCGNFFSSLF SKYSKNEGKRREVL SAAAAAGVSVAFGAPIGGVLF SLEEVSYFFPLKTLWR
 SFFAALVAFTLRSINPFGNSRLVLFYVEYHTPWRRKTRTLGRYPVLEIAVTAVTAIVAYPNPYTRQST
 SELISELFNDCGALESSQLCDYINDPNMTRPVDDIPDRPAGVGVYTAMWQLALALIFKIVITIFTFGMKI
 PSLGFIPSMAVGAMAGRMVGIGVEQLAYHHHDWIIFRNWCRPGADCVTPGLYAMVGAACLGGVTRMTVS
 LVVIMFELTGGLEYIVPLMAAVTSKWVADAFGKEGIYEAHIHNGYPFLDVKDEFTHRTLATDVMRPRR
 GEPPLSVLTQDSMTVEDVETLIKETDYNGFPVLVSRDSERLIGFAQRRELILA IKNARQRQEGIVSNSIM
 YFTEPEL PANSPLKLRRI LNLSPFTVDHTPMETVVDIFRKLGLRQCLVTRSGRLLGIITKKDVL R
 HMAQMANQDPESIMFN

TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN: BC005553

ORF Size: 2148 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: [BC005553](#), [AAH05553](#)

RefSeq Size: 2447 bp

RefSeq ORF: 2150 bp

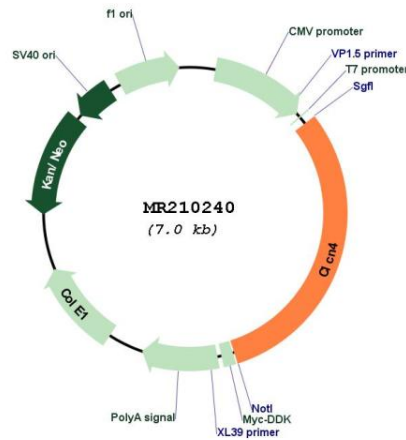
Locus ID: 12727

Cytogenetics: 7 4.23 cM

MW: 80.2 kDa

Gene Summary: Proton-coupled chloride transporter. Functions as antiport system and exchanges chloride ions against protons (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210240