

Product datasheet for **MG210435**

Clcn5 (NM_016691) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn5 (NM_016691) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clcn5
Synonyms:	5430408K11Rik; Clc-5; Clc4-1; Clc5; Clcn4-1; D930009B12Rik; DXImx42e; Sfc13; T25545
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210435 representing NM_016691
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTTCTTGGAGGAGCCAATCCCTGGTGTAGGGACCTATGATGATTTCAACACAATTGATTGGGTGA
 GAGAGAAATCTCGAGACCGAGATAGGCACCGAGAGATTACCAATAAAAGCAAAGAGTCAACATGGGCCTT
 AATTACACAGTGTGAGCGATGCTTCTCTGGCTGGTTGTTAATGCTCCTTATTGGCCTTTTATCAGGTTCC
 TTAGCTGGCCTGATAGACATCTCTGCTCACTGGATGACAGACTTAAAAGAAGGGATATGTACAGGGGGT
 TCTGGTTAAACCATGAGCACTGTTGCTGGAATTCTGAGCATGTTACCTTTGAACACAGAGACAAATGTC
 AGAGTGAATACCTGGGCCAGCTCATCATCAATACAGATCAGGGAGCCTTGCCTACATAGTCAATTAC
 TTCATGTACGTCCTCTGGGCTTCTGTTTCTTCTGCTGTATCTCTGTCAAGGCATTTGCACCTT
 ATGCTGTGGTTCTGGAATCCCTGAGATCAAACCATCCTGAGTGGTTTCATTATTAGAGGCTATCTGGG
 TAAGTGGACCCTTGTCATCAAACATCACTTTGGTGTGGCGGTGCATCTGGCTTGGAGCTGGGCAAG
 GAGGGCCCCCTGGTGCAGTGGCTTGTGCTGTGGGAACATCTTGTGCCACTGCTCAACAAATACCGGA
 AGAATGAAGCAAAGCGGAGAGAGTCTTATCAGCTGCAGCGGCTGCCGGTGTATCTGTAGCCTTTGGGGC
 CCCTATTGGTGGAGTATTATTCAGCCTGGAAGAGGTGAGTACTACTTTCCCTCAAACACTATGGCGT
 TCTTTCTCGCTGCTCTGGTGGCAGCGTTCACACTCCGCTCCAATCCATTGGAAACAGCCGCTTAG
 TTCTGTTTTATGTAGAGTTCACACCCCGTGGCATCTCTTTGAGCTCGTGCCATTCATTGTACTAGGCAT
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 CTCGAAGCTCTGTGATTATGAGAACCCTTCAACACAAGCAAAGCGGTGAGTGCCTGACAGACCTGCT
 GGCGTGGGCGTCTACAGTGCCATGTGGCAGCTGGCTCTGACACTCATACTGAAAATAGTCACTACTAT
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 TCTTTTAGGAGTCGGAATGGAGCAACTGGCTTATTACCACCAGACTGGGGCATCTCAATAGCTGGTGT
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 TGACTCGGATGACTGTTTCTTGTGTCATAATGTTTGAAGTACTGGTGGCCTGGAATATATTGTGCC
 TCTGATGGCTGCAGCTATGACAAGCAAGTGGTGGCTGATGCTCTTGGGCGAGAGGGCATTATGATGCC
 CACATCCGTCTCAATGGATACCCCTTTCTGAAGCCAAAGAAGATTTGCTCATAAGACTCTGGCAATGG
 ATGTGATGAAGCCCGGAGAAATGACCCCTTGTGACTGTCTTACTCAGGACAGTATGACTGTGGAGGA
 TGTCGAGACCATAATCAGCGAAACCACGTACAGTGGCTTCCGGTGGTAGTGTCCCGAGAGTCGCAAGA
 CTTGTAGGCTTTGTTCTTCAAGAGATCTCATTATTTCAATTGAAAATGCTCGGAAGAAACAGGACGGGG
 TTGTGAGCACTTCCATCATTTATTTACGGAGCATTGCGCTCCAATGCCTCCATACACCCACCTACCT
 GAAGCTTCGGAACATCCTGGACCTCAGCCCTTCACTGTGACAGACCTTACGCCAATGGAGATCGTGGT
 GACATCTTCCGCAAGCTGGGCTGCGCCAGTGCCTGGTTACACACAACGGGCGCTTACTTGAATCATCA
 CAAAAAGGATGTGTTAAAGCATATAGCACAGATGGCAAACCAAGACCCTGATTCCATTCTTCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210435 representing NM_016691
Red=Cloning site Green=Tags(s)

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MDFLEELIPGVGTYYDDFNTIDWVREKSRDRDRHREITNKSKESTWALIHVSDAFSGWLLMLLIGLLSGS
LAGLIDISAHWMTDLKEGICTGGFWFNHEHCCWNEHVTFEHRDKCPEWNTWAQLIINTDQGAFAIYVNY
FMYVLWALLFAFLAVSLVKAFAPYACSGIPEIKTILSGFIIRGYLGKWTLVIKTITLVAVSSGLSLGK
EGPLVHVACCCGNILCHCFNKYRKNEAKRREVLAAAAAGVSVAFGAPIGGVLFSLSEEVSYFFPLKTLWR
SFFAALVAAFTLRSINPFGNSRLVLFYVEFHTPWHLFELVFPFIVLGI FGGLWGALFIRTNIAWCRKRKTT
QLGKYPVVEVLIVTAITAILAFPNEYTRMSTSELI SELFNDCGLLDSSKLCDYENHFNTSKGGELPDRPA
GVGVYSAMWQLALTLILKIVITIFTFGMKIPSGLFIPSMVAGAIAGRLLGVGMEQLAYYHHDWGFNSWC
SQGADCITPLYAMVGAACLGGVTRMTVSLVVIMFELTGGLEYIVPLMAAAMTSKWVADALGREGIYDA
HIRLNGYPFLEAKEEF AHKTLAMDVMKPRRNDPLLTVLTQDSMTVEDVETIISETTYSGFVVSRESQR
LVGFVLRDLIISIENARKKQDGVVSTSIYFTEHSPPMPYPPTLKLNRNILDSPFTVDTLTPMEIVV
DIFRKLGLRQCLVTHNGRLLGIITKKDVLKHIAQMANQDPDSILFN
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016691

ORF Size: 2238 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_016691.2](#), [NP_057900.2](#)

RefSeq Size: 2749 bp

RefSeq ORF: 2241 bp

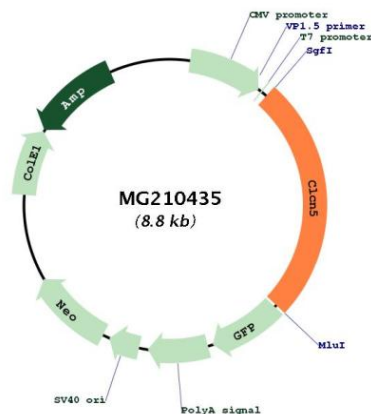
Locus ID: 12728

UniProt ID: [Q9WVD4](#)

Cytogenetics: X 3.21 cM

Gene Summary: Proton-coupled chloride transporter. Functions as antiport system and exchanges chloride ions against protons. Important for normal acidification of the endosome lumen. May play an important role in renal tubular function (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210435