

## Product datasheet for **MR210435**

### Clcn5 (NM\_016691) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn5 (NM_016691) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clcn5
Synonyms:	5430408K11Rik; Clc-5; Clc4-1; Clc5; Clcn4-1; D930009B12Rik; DXImx42e; Sfc13; T25545
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR210435 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACTTCTTGGAGGAGCCAATCCCTGGTGTAGGGACCTATGATGATTTCAACACAATTGATTGGGTGA  
GAGAGAAATCTCGAGACCGAGATAGGCACCGAGAGATTACCAATAAAAGCAAAGAGTCAACATGGGCCTT  
AATTACACAGTGTGAGCGATGCTTCTCTGGCTGGTTGTTAATGCTCCTTATTGGCCTTTTATCAGGTTCC  
TTAGCTGGCCTGATAGACATCTCTGCTCACTGGATGACAGACTTAAAAGAAGGGATATGTACAGGGGGT  
TCTGGTTAAACCATGAGCACTGTTGCTGGAATTCTGAGCATGTTACCTTTGAACACAGAGACAAATGTCC  
AGAGTGAATACTGGGCCAGCTCATCATCAATACAGATCAGGGAGCCTTGCCTACATAGTCAATTAC  
TTCATGTACGCTCTGGGCTTCTGTTTCTTCTGCTGTATCTCTGTCAAGGCATTTGCACCTT  
ATGCTGTGGTTCTGGAATCCCTGAGATCAAACCATCCTGAGTGGTTTCATTATTAGAGGCTATCTGGG  
TAAGTGGACCCTTGTATCAAACTATCACTTTGGTGTGGCGGTGCATCTGGCTTGGAGCTGGGCAAG  
GAGGGCCCCCTGGTGCAGTGGCTTGTCTGTGGGAACATCTTGTGCCACTGCTCAACAAATACCGGA  
AGAATGAAGCAAAGCGGAGAGAGTCTTATCAGCTGCAGCGGCTGCCGGTGTATCTGTAGCCTTTGGGGC  
CCCTATTGGTGGAGTATTATTCAGCCTGGAAGAGGTGAGTACTACTTTCCCTCAAACACTATGGCGT  
TCTTTCTCGCTGCTCTGGTGGCAGCGTTCACACTCCGCTCCAATCCATTTGGAAACAGCCGCTTAG  
TTCTGTTTTATGTAGAGTTCACACCCCGTGGCATCTCTTTGAGCTCGTGCCATTCATTGTACTAGGCAT  
ATTCGGTGGCCTTTGGGGAGCTCTGTTTATCCGCACAAACATTGCCTGGTGTGGGAGCGTAAAACCACA  
CAGTTGGGCAAGTATCCTGTGTCGAGGTAATCTGAGCTGTTCAATGACTGCGGCCCTCTGGACT  
ATGAATATACCCGGATGAGCACAAGTGAAGTCACTTTCTGAGCTGTTCAATGACTGCGGCCCTCTGGACT  
CTCCAAGCTCTGTGATTATGAGAACCCTTCAACACAAGCAAAGCGGTGAGCTGCCTGACAGACCTGCT  
GGCGTGGGCGTCTACAGTGCCATGTGGCAGCTGGCTCTGACACTCATACTGAAAATAGTCACTACTATAT  
TCACCTTTGGCATGAAGATTCCTTCTGGTCTCTTTATCCCGCATGGCTGTGGTGTCTATAGCAGGCCG  
TCTTTTAGGAGTCGGAATGGAGCAACTGGCTTATTACCACCAGACTGGGCATCTTCAATAGCTGGTGT  
AGTCAGGGAGCTGATTGTATCACCCCTGGCCTTTATGCCATGGTGGGGCTGCTGCCTGCTTAGGTGGG  
TGACTCGGATGACTGTTTCTCTGTTGTCATAATGTTTGAAGTACTGGTGGCCTGGAATATATTGTGCC  
TCTGATGGCTGCAGCTATGACAAGCAAGTGGTGGCTGATGCTCTTGGGCGAGAGGGCATTATGATGCC  
CACATCCGTCTCAATGGATACCCCTTTCTGAAGCCAAAGAAGATTTGCTCATAAGACTCTGGCAATGG  
ATGTGATGAAGCCCGGAGAAATGACCCCTTGTGACTGTCTTACTCAGGACAGTATGACTGTGGAGGA  
TGTCGAGACCATAATCAGCGAAACCACGTACAGTGGCTTCCGGTGGTAGTGTCCCGAGAGTCGCAAGA  
CTTGATAGGCTTTGTTCTTCAAGAGATCTCATTATTTCAATTGAAAATGCTCGGAAGAAACAGGACGGGG  
TTGTGAGCACTTCCATCATTTATTTACGGAGCATTTCGCTCCAATGCCTCCATACACCCACCTACCT  
GAAGCTTCGGAACATCCTGGACCTCAGCCCTTCACTGTGACAGACCTTACGCCAATGGAGATCGTGGT  
GACATCTTCCGCAAGCTGGGCTGCGCCAGTGCCTGGTTACACACAACGGGCGCTTACTTGAATCATCA  
CCAAAAAGGATGTGTTAAAGCATATAGCACAGATGGCAAACCAAGACCCTGATTCCATTCTTTCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210435 protein sequence  
 Red=Cloning site Green=Tags(s)

MDFLEEPIPGVGTYYDDFNTIDWVREKSRDRDRHREITNKSKESTWALIHVSDAFSGWLLMLLIGLLSGS  
 LAGLIDISAHWMTDLKEGICTGGFWFNHEHCCWNSEHVTFEHRDKCPEWNTWAQLIINTDQAFAYIVNY  
 FMYVLWALLFAFLAVSLVKAFAPYACSGIPEIKTILSGFIIRGYLGKWLVIKTIITLVLAVSSGLSLGK  
 EGPLVHVACCCGNILCHCFNKYRKNEAKRREVLAAAAAGVSVAFGAPIGGVLFSLLEVSYYFPLKTLWR  
 SFFAALVAAFRLRSINPFGNSRLVLFYVEFHTPWHLFELVFFIVLGI FGGLWGALFIRTNIAWCRKRKTT  
 QLGKYPVVEVLIVTAITAILAFPNEYTRMSTSELI SELFNDCGLLDSSKLCDYENHFNTSKGGELPDRPA  
 GVGVYSAMWQLALTLILKIVITIFTFGMKIPSGLFIPSMVAGAIAGRLLGVGMEQLAYYHHDWGFNSWC  
 SQGADCITPGLYAMVAAAACGGVTRMTVSLVVIMFELTGGLEYIVPLMAAAMTSKWVADALGREGIYDA  
 HIRLNGYPFLEAKEEF AHKTLAMDVMKPRRNDPLLTVLTQDSMTVEDVETIISETTYSGFVVSRESQR  
 LVGFVLRDLIISIENARKKQDGVVSTSIYFTEHSPPMPYPPTLKLRLNILDLSPTVTDLTPMEIVV  
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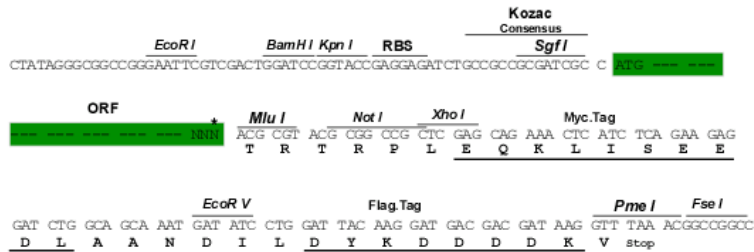
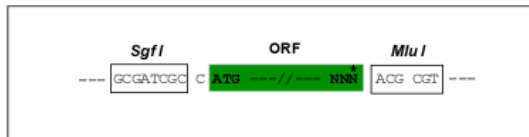
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

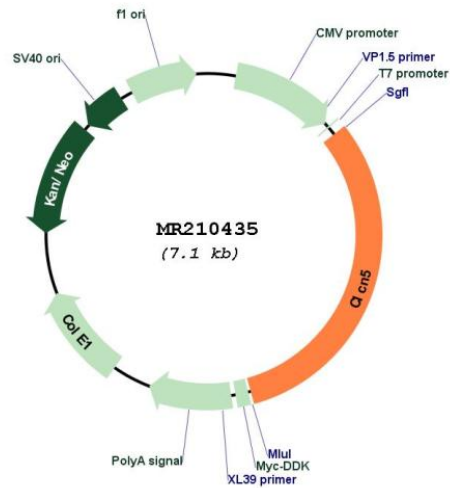
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_016691

**ORF Size:** 2241 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:** 3788 bp

**RefSeq ORF:** 2241 bp

**Locus ID:** 12728

UniProt ID: [Q9WVD4](#)

Cytogenetics: X 3.21 cM

MW: 83.1 kDa

**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]