

## Product datasheet for **RR203992**

### Clcn5 (NM\_017106) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn5 (NM_017106) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clcn5
Synonyms:	CLC5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RR203992 representing NM\_017106  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTTCTTGGAGGAGCCAATCCCCGGTGTAGGGACCTATGATGATTTCAACACAATTGATTGGGTGA  
 GAGAGAAATCTCGAGACCGAGATAGGCACCGAGAGATTACCAATAAAAGCAAAGAGTCAACATGGGCCTT  
 AATTCACAGTGTGAGCGATGCTTTTTCTGGTTGGTTGTTAATGCTCCTTATTGGCCTTTTATCAGGTTCC  
 TTAGCTGGCCTCATAGACATCTCTGCTCACTGGATGACAGACTTAAAAGAAGGGATATGCACAGGGGGCT  
 TCTGGTTAAACCATGAGCACTGCTGCTGGAATCCGAGCATGTCACCTTTGAAGACAGAGACAAATGTC  
 GGAGTGGAAATAGCTGGTCCAGCTTATCATCAGCACAGATCAGGGAGCCTTGCCTACATAGTCAATTAT  
 TTCATGTATGCTCTGGGCTCCTGTTGCTTTCCTCGCTGTCTCTTGTCAAGGCATTTGCACCTT  
 ACGCCTGTGGTTCTGGAATCCCTGAGATCAAACTATCCTGAGTGGTTTCATTATTAGGGGCTATTTGGG  
 TAAGTGGACCCTTGTCATCAAACTATTACTTTGGTGCTGGCCGTGTCATCTGGCTTGAGCCTGGGTA  
 GAGGGCCCCCTAGTGCAGTGGCTTGTGCTGTGGGAACATCCTGTGCCACTGCTCAACAAATACAGGA  
 AGAATGAAGCAAAGCGCAGAGAGTCTTATCAGCTGCAGCAGCTGCTGGTGTATCTGTAGCCTTTGGGGC  
 CCTATTGGTGGAGTATTGTTACGCCTGGAAGAGGTGAGCTACTACTTTCCCTCAAAACTGTGGCGT  
 TCCTTCTCGCTGCTCTCGTGGCAGCATTACGCCTCCGCTCCATCAATCCATTTGGAAACAGCCGTTAG  
 TTCTATTTTATGTGGAGTTCACACCCCATGGTATCTCTTTGAGCTCGTGCCATTCATTGTGCTAGGCAT  
 ATTCGGTGGCCTTTGGGGCGCTCTGTTTATCCGCACAAACATTGCCTGGTGTGCGAAGCGTAAAACCACA  
 CAGTTGGCAAGTATCCTGTTGTCGAGGTCCTCATTGTGACAGCCACTGCCATCTTGGCTTTCCCA  
 ATGAATATACCCGGATGAGCACAAGTGAAGTCAATTTCTGAATGTCAATGACTGCGGCCCTCTGGACT  
 CTCCAAGCTCTGTGATTATGAGAACCCTTCAACACTAGCAAAGCGGTGAGCTGCCTGACAGACCTGCT  
 GGCGTGGGAGTCTACAGTGCCATGTGGCAGCTGGCTTTGACACTCATACTGAAAATAGTCACTACTATAT  
 TCACCTTTGGCATGAAGATTCTTCTGGTCTCTTATCCCGCAGCATGGCTGTGCGTGTATAGCAGGCCG  
 CCTTTTAGGAGTCGGAATGGAGCAACTGGCTTATTACCACCAGACTGGGGCATCTTCAATAGCTGGTGT  
 AGCCAGGGAGCGGATTGCATCACGCTGGCCTTATGCCATGGTGGGGCTGCCGCTGCTTAGGCGGTG  
 TGACTCGGATGACTGTTTCTCTCGTTGTCATAATGTTTGAGCTCACTGGTGGCCTGGAATATATTGTACC  
 TCTGATGGCTGCAGCCATGACGAGCAAGTGGTGGCAGACGCTTGGGGAGAGGGCATTATGATGCC  
 CACATCCGTCTCAATGGATACCCCTTTCTCGAAGCCAAAGAAGATTTGCTCATAAGACTCTGGCAATGG  
 ATGTGATGAAGCCCCGGAGGAATGATCCCTTGCTGACTGTCTTACTCAGGACAGTATGACTGTGGAAGA  
 TGTAGAGACCATAATCAGTGAGACCAGTACAGCGGCTTCCGGTGGTGGTGTCCCGAGAGTCAACAAGA  
 CTTGTAGGCTTTGTTCTTCGGAGAGATCTCATTATTTCAATTGAAAATGCTCGGAAGAAACAGGACGGGG  
 TTGTGAGCACGTCCATCATTTATTTACGGAGCACTCACCCCAATGCCTCCATACAGCCCCCTACCT  
 GAAGCTTCGGAACATCCTGGATCTCAGCCCTTCACTGTGACAGACCTTACGCCAATGGAGATCGTAGTG  
 GATATCTCCGCAAGCTGGGACTGCGCCAGTGCCTGGTTACACACAATGGGCGCCTACTTGAATCATT  
 CAAAAAGGATGTGTTAAAGCACATAGCGCAGATGGCAAACCAAGACCCCGAGTCCATTTCTTCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203992 representing NM\_017106  
 Red=Cloning site Green=Tags(s)

MDFLEELPIPGVGTYYDDFNTIDWVREKSRDRDRHREITNKSKESTWALIHVSDAFSGWLLMLLIGLLSGS  
 LAGLIDISAHWMTDLKEGICTGGFWFNHEHCCWNSEHVTFEDRDKCPEWNSWSQLIISTDQGAFAIYVNY  
 FMYVLWALLFAFLAVSLVKAFAPYACSGIPEIKTILSGFIIRGYLGKWLVIKTTITLVLAVSSGLSLGK  
 EGPLVHVACCCGNILCHCFNKYRKNEAKRREVLAAAAAGVSVAFGAPIGGVLFSLLEESYYPFLKTLWR  
 SFFAALVAATLRSINPFGNSRLVLFYVEFHTPWYLFELVFFIVLGI FGGLWGALFIRTNIAWCRKRKTT  
 QLGKYPVVEVLIVTAITAILAFPNEYTRMSTSELI SELFNDCGLLDSSKLCDYENHFNTSKGGELPDRPA  
 GVGVYSAMWQLALTLILKIVITIFTFGMKIPSGLFIPSMVAGAIAGRLLGVGMEQLAYYHHDWGFNSWC  
 SQGADCITPGLYAMVAAAACGGVTRMTVSLVVIMFELTGGLEYIVPLMAAAMTSKWVADALGREGIYDA  
 HIRLNGYPFLEAKEEF AHKTLAMDVMKPRRNDPLLTVLTQDSMTVEDVETIISETTYSGFVVVSRESQR  
 LVGFVLRDLIISIENARKKQDGVVSTSIYFTEHSPPMPYPPTLKLRLNLDLSPFTVDTLTPMEIVV  
 DIFRKLGLRQCLVTHNGRLLGIITKKDVLKHIAQMANQDPESILFN

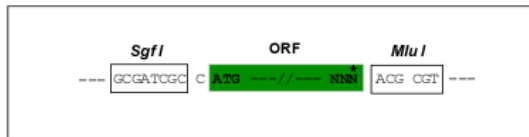
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

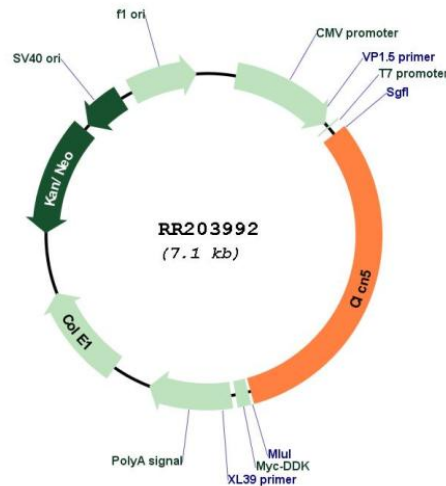
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

**Plasmid Map:**


**ACCN:** NM\_017106

**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\\_017106.1](#), [NP\\_058802.1](#)

**RefSeq Size:** 2550 bp

**RefSeq ORF:** 2241 bp

**Locus ID:** 25749

UniProt ID: [P51796](#)

Cytogenetics: Xq12

MW: 83.1 kDa

Gene Summary: acts as an outwardly rectifying chloride channel; plays a role in chloride transport [RGD, Feb 2006]