

Product datasheet for **MR210671**

Clcn3 (NM_173876) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn3 (NM_173876) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clcn3
Synonyms:	Clc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210671 representing NM_173876
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATGCTTCTTCTGATCCCTATTTGCCCTTATGACGGGGAGGAGACAGTATCCCTTGAGAGAATTAC
ATAAAAGAGGAACTCATTATACAATGACAAATGGAGGCAGCATTAAATAGCTCTACACACTTGCTGGATCT
TTTGGATGAGCCTATCCCAGGTGTCGGTACCTACGATGATTTCCATACTATTGACTGGGTGCGAGAGAAG
TGTAAGGACAGAGAAAGGCACAGACGGTCAACAGTAAAAAAAAAGAATCAGCATGGGAAATGACAAAA
GTCTGTATGACGCCTGGTCAGGATGGCTTGTGTACTGACGGGACTGGCATCAGGGGCACTAGCTGG
ATTGATAGACATTGCTGCTGACTGGATGACTGACCTGAAGGAGGGCATCTGCCTCAGTGCATTGTGGTAC
AACCATGAACAGTGTGTTGGGGCTCTAATGAGACAACGTTTGAAGAGAGGGATAAATGTCCACAGTGA
AAACATGGGCAGAGTTAATCATTGGCCAAGCAGAGGGCCCTGGATCTTATATCATGAACTACATCATGTA
CATCTTTTGGGCTTTGAGTTTGGCTTTCTTGCAGTTTCTTTGGTAAAGTATTTGCTCCATATGCCTGT
GGCTCTGGAATCCAGAGATTAATACTATTTGAGTGGATTTATCATCAGAGGATACTTGGGAAAATGGA
CTTAAATGATTAATACTATCACGTTAGTGTGGCTGTGGCATCAGGTTTGTAGTTTGGGAAAAGAAGTCC
CCTGGTACATGTTGCCTGCTGCTGTGGAACATCTTTTCTACCTCTTTCCAAAGTATAGCACCATGAA
GCTAAAAAGAGGGAGGTGCTGTGACGCCCTCAGCTGCTGGGTTTCTGTGGCTTTTGGTGCACCGATCG
GAGGAGTCTTTTTAGCTTGGAGAGGTTAGCTATTATTTTCTCTCAAACTTTATGGAGATCATTTTT
TGCTGCTTTGGTGGCAGCATTGTTTTGAGATCCATCAATCCATTTGGTAACAGCCGTCTGGTCTCTTT
TATGTGGAGTATCATACCATGGTACCTTTTTGAAGTGTTCCTTTTATCTCTAGGGGATTTGGAG
GGCTTTGGGAGCTTTTTTTATTAGGGCAATATTGCCTGGTGTGTCGACGCAAGTCCACCAATTTGG
AAAGTATCCTGTTCTCGAAGTCATTATTGTTGACGCCATTACTGCTGTGATAGCCTTCCCAACCCATAC
ACAAGGCTCAACACCAAGTGAAGTATTAAGAGCTGTTTACAGATTGTGGCCGTTGGAATCCTCTCTC
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TGGAGTATATTCAGTATCTGGCAGTTGTGCTAGCGCTCATATTTAAAAAATAAATGACAGTATTCCT
TTTGGTATCAAGGTCCCCTCAGGCTTGTATCCCCAGCATGGCCATTGGAGCCATTGCAGGGAGAATTG
TGGGGATCGCTGTGGAGCAGCTTGCTACTATCACCACGACTGGTTTATCTTCAAGGAGTGGTGTGAGGT
TGGGGCTGACTGCATCACTCCCGGCTGTATGCCATGGTTGGGGCTGCTGCGTGTAGGTGGTGTGACA
AGAAATGACTGTGCTCTGGTGGTTATTGTTTTGAAGTACTGGAGGCTTGAATATATTGTTCTCTTA
TGCTGCAGTAATGACCAGTAAATGGGTTGGTGTATGCCTTTGGTAGGGAAGGTATTTATGAAGCACACAT
CCGACTAAATGGGTACCCTTTCTTGGATGCAAAAGAAGAATTCATCATACAACCCTGGCTGCTGATGTT
ATGAGACCTCGAAGAAGTACCCTCCCTTAGCTGTTTTGACACAGGACAATATGACAGTAGATGACATAG
AAAACATGATTAATGAAACCAGCTATAATGGCTTTCCTGTTATAATGTCAAAAGAATCTCAGAGATTAGT
GGGATTTGCCCTCAGAAGAGACCTGACTATTGCAATAGAAAGTCCAGAAAAAACAAGAAGGGATTGTT
GGCAGTTCTCGGGTGTGTTTTGCACAGCATACTCCATCTTCCAGCAGAAAGTCCACGGCCATTAAC
TGAGAAGCATCCTTGACATGAGCCCTTTACAGTGACAGACCACCCCAATGGAGATTGGGTAGACAT
CTTTCGAAAGCTTGGTCTGAGGCAGTGCCTTGTAACTCACAACGGACGCCTCCTTGGCATTATAACAAAA
AAAGATATCCTCCGTATATGGCCAGACGGCAACCAAGACCCGCTTCAATAATGTTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210671 representing NM_173876
Red=Cloning site Green=Tags(s)

MDASSDPYLPYDGGGDSIPLRELHKRGTHYMTNGGSINSSTHLLDLLDEPIPGVGTYYDDFHTIDWVREK
CKDRERHRRINSKKKESAWEMTKSLYDAWSGLVVTLTGLASGALAGLIDIAADWMTDLKEGICLSALWY
NHEQCCWGSNETTFEERDKCPQWKTWAEIIIGQAEGPGSYIMNYIMYIFWALSFAFLAVSLVKVAFAPYAC
GSGIPEIKTILSGFIIRGYLGKWTLMIKTITLVLAVASGLSLGKEGPLVHVACCCGNIFSYLFPKYSTNE
AKKREVLSAASAAGVSVAFGAPIGGVLFSLLEVSYYFPLKTLWRSFFAALVAAFVLRINPFGNSRLVLF
YVEYHTPWYLFELFPFILLGVFGGLWGFAFFIRANIAWCRRRKSTKFGKYPVLEVIIVAAITAVIAFPNPY
TRLNTSELIKELFTDCGPLESSSLCDYRNDMNASKIVDDIPDRPAGVGVYSAIWQLCLALIFKIIMTVFT
FGIKVPSGLFIPMAIGAIAGRIVGIAVEQLAYYHHDWFIFKEWCEVGADCITPGLYAMVGAAACLGGVT
RMTVSLVVIVFELTGGLEYIVPLMAAVMTSKWVGDAFGREGIYEAHIRLNGYPFLDAKEEFTHHTLAADV
MRPRSDPPLAVLTQDNMTVDDIENMINETS YNGFPVIMSKESQRLVGFALRRDLTIAIESARKKQEGIV
GSSRVCF AQHTPSLPAESPRPLKLR SILDMSPTVTDHTPMEIVVDIFRKLGLRQCLVTHNGRLLGIITK
KDILRHMAQTANQDPASIMFN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9027_g08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_173876

ORF Size: 2373 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_173876.3](#), [NP_776301.1](#)

RefSeq Size: 5250 bp

RefSeq ORF: 2376 bp

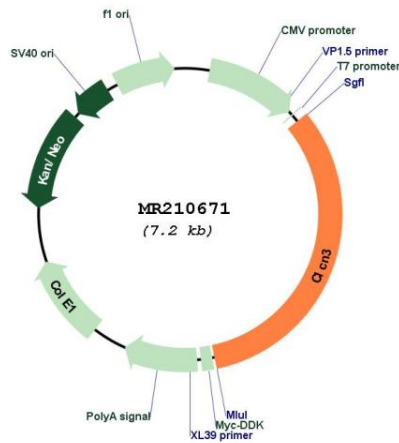
Locus ID: 12725

Cytogenetics: 8 30.9 cM

MW: 88.4 kDa

Gene Summary: Mediates the exchange of chloride ions against protons. Functions as antiporter and contributes to the acidification of the endosome and synaptic vesicle lumen, and may thereby affect vesicle trafficking and exocytosis. May play an important role in neuronal cell function through regulation of membrane excitability by protein kinase C. It could help neuronal cells to establish short-term memory.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210671