

Product datasheet for **RC234882**

CLCN3 (NM_001243374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN3 (NM_001243374) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLCN3
Synonyms:	CIC-3; CLC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234882 representing NM_001243374
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
 GCC

ATGGATGCTTCTCCGACCTTATTTGCCCTTATGACGGGGAGGAGACAATATCCCTGAGGGAATTAC
 ATAAAAGAGGAACTCATTATACAATGACAAATGGAGGCAGCATTAAACAGTTCTACACATTTACTGGATCT
 TTTGGATGAACCAATTCAGGTGTTGGTACATATGATGATTTCCATACTATTGATTGGGTGCGAGAAAA
 TGTAAAGACAGAGAAAGGCATAGACGGTCAACAGCAAAAAGAAAGAAATCAGCATGGGAAATGACAAAA
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 TTTCCGAAAGCTGGGACTGAGGCAGTGCCTTGTAACTACAATGGGCGCCTCCTTGGCATTATAACAAAA
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Protein Sequence:

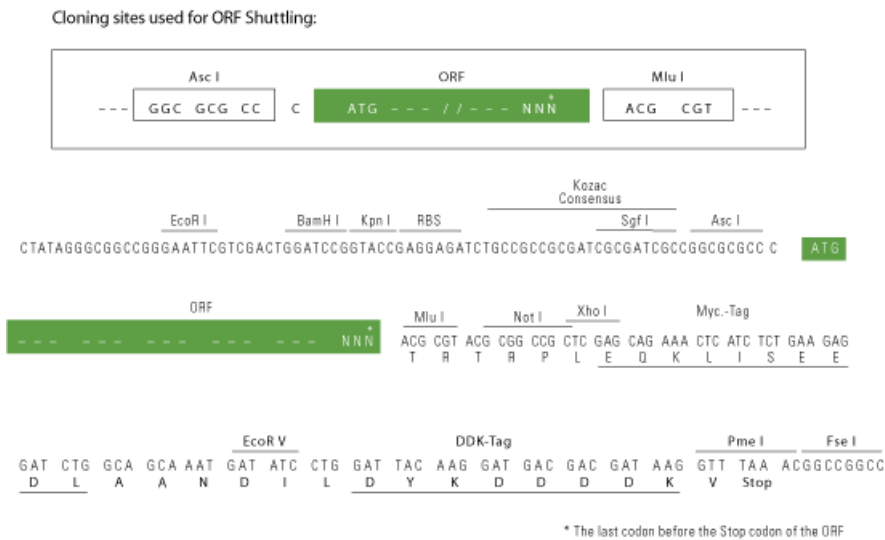
>RC234882 representing NM_001243374
 Red=Cloning site Green=Tags(s)

MDASSDPYLPYDGGGDNIPRELHHRGTHYMTNGGSINSSTHLLDLLDEPIPGVGTYYDDFHTIDWVREK
 CKDRERHRRINSKKKESAWEMTKSLYDAWSGLVVTLTGLASGALAGLIDIAADWMTDLKEGICLSALWY
 NHEQCCWGSNETTFEERDKCPQWKTWAEIIGQAEGPGSYIMNYIMYIFWALSFAFLAVSLVKVAFAPYAC
 GSGIPEIKTILSGFIIRGYLGKWTLMIKTITLVLAVASGLSLGKEGPLVHVACCCGNIFSYPKYSTNE
 AKKREVLSAASAAGVSVAFGAPIGGVLFSLSEVSYFPLKTLWRSFFAALVAAFVLRINPFGNSRLVLF
 YVEYHTPWYLFELFPFILLGVFGGLWGAFFIRANIAWCRRRKSTKFGKYPVLEVIIVAAITAVIAFPNPY
 TRLNTSELIKELFTDCGPLESSSLCDYRNDMNASKIVDDIPDRPAGIGVYSAIWQLCLALIFKIIMTVFT
 FGIKVPSGLFIPMAIGAIAGRIVGIAVEQLAYYHHDWFIFKEWCEVGADCITPGLYAMVGAAACLGGVT
 RMTVSLVVIVFELTGGLEYIVPLMAAVMTSKWVGDAFGREGIYEAHIRLNGYPFLDAKEEFTHHTLAADV
 MRPRRNDPPLAVLTQDNMTVDDIENMINETS YNGFPVIMSKESQRLVGFALRRDLTIAIESARKKQEGIV
 GSSRVCF AQHTPSLPAESPRPLKLR SILDMSPTVTDHTPMEIVVDIFRKLGLRQCLVTHNGRLLGIITK
 KDILRHMAQTANQDPASIMFN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

AscI-MluI

Cloning Scheme:


ACCN: NM_001243374

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_001243374.1](#), [NP_001230303.1](#)

RefSeq Size: 5891 bp

RefSeq ORF: 2376 bp

Locus ID: 1182

UniProt ID: [P51790](#)

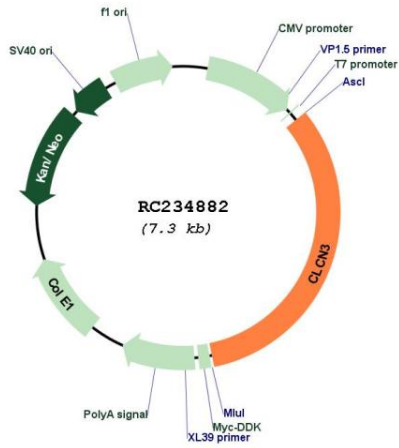
Cytogenetics: 4q33

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

MW: 88.4 kDa

Gene Summary: This gene encodes a member of the voltage-gated chloride channel (ClC) family. The encoded protein is present in all cell types and localized in plasma membranes and in intracellular vesicles. It is a multi-pass membrane protein which contains a ClC domain and two additional C-terminal CBS (cystathionine beta-synthase) domains. The ClC domain catalyzes the selective flow of Cl⁻ ions across cell membranes, and the CBS domain may have a regulatory function. This protein plays a role in both acidification and transmitter loading of GABAergic synaptic vesicles, and in smooth muscle cell activation and neointima formation. This protein is required for lysophosphatidic acid (LPA)-activated Cl⁻ current activity and fibroblast-to-myofibroblast differentiation. The protein activity is regulated by Ca²⁺/calmodulin-dependent protein kinase II (CaMKII) in glioma cells. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC234882