

Product datasheet for **RG234881**

CLCN3 (NM_001243372) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN3 (NM_001243372) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLCN3
Synonyms:	CIC-3; CLC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234881 representing NM_001243372
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
 GCC

ATGGAGTCTGAGCAGCTGTTCCATAGAGGCTACTATAGAAACAGCTACAACAGTATAACAAGTCAAGTA
 GTGATGAGGAACTTTTAGATGGAGCAGGTGTTATTATGGACTTTCAAACATCTGAAGATGACAATTTATT
 AGATGGTGACACTGCAGTTGGAACCTATTATACAATGACAAATGGAGGCAGCATTAAACAGTTCTACACAT
 TTAAGTGGATCTTTGGATGAACCAATCCAGGTGTTGGTACATATGATGATTTCCATACTATTGATTGGG
 TGCGAGAAAAATGTAAAGACAGAGAAAGGCATAGACGGATCAACAGCAAAAAGAAAGAAATCAGCATGGGA
 AATGACAAAAAGTTTGTATGATGCGTGGTCAAGATGGCTAGTAGTAACTAACAGGATTGGCATCAGGG
 GCACTGGCCGGATTAATAGACATTGCTGCCGATTGGATGACTGACCTAAAGGAGGGCATTGCTTAGTGT
 CGTTTGGTACAACCACGAACAGTGTCTGGGGATCTAATGAAACAACATTTGAAGAGAGGGATAAATG
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 CATATGCCTGTGGCTCTGGAATCCAGAGATTAATACTATTTAAGTGGATTATCATCAGAGGTTACTT
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 AAAGAAGTCCCCTGGTACATGTTGCTGTTGCTGCGGAAATATCTTTTCTACCTTTTCAAAGTATA
 GCACAAACGAAGCTAAAAAAGGGAGGTTAGCTATTATTTTCTCTCAAACTTTATGGAGATCATTTTT
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 TATGTGGAGTATCATACCCATGGTACCTTTTGAAGTGTTCCTTTTATCTTAGGGGATTTGGAG
 GGCTTTGGGGAGCCTTTTTTATTAGGGCAATATTGCTGGTGTGCTGACGCAAGTCCAGAAATTTGG
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 TTTGTGACTACAGAAATGACATGAATGCCAGTAAATGTCGATGACATTCTGATCGTCCAGCAGGCAT
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 CGGGGCTGATTGCATTACACCTGGCCTTATGCCATGGTGGTGTGCTGCATGCTTAGGTGGTGTGACA
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 GGCAGTTCTCGGGTGTGTTTTGCACAGCACACCCCATCTCTTCCAGCAGAAAGTCTCGGCCATTGAAGC
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 TTTCCGAAAGCTGGGACTGAGGCAGTGCCTTGTAACTACAATGGGCGCCTCCTTGGCATTATAACAAAA
 AAAGATATCCTCCGGCATATGGCCAGACGGCAACCAAGACCCCGCTTCAATAATGTTCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234881 representing NM_001243372
Red=Cloning site Green=Tags(s)

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MESEQLFHRGYRNSYNSITSASSDEELLDGAGVIMDFQTSDDNLLDGDТАVGTHYMTNGGSINSSTH
LLDLLLDEPIPGVGTYYDFHTIDWVREKCKDRERHRRINSKKKESAWEMTKSLYDAWSGWL VVTL TGLASG
ALAGLIDIAADWMTDLKEGICLSALWYNHEQCCWGSNETTFEERDKCPQWKTWAEIIGQAEGPGSYIMN
YIMYIFWALSFAFLAVSLVKVFAPYACSGGIPEIKTILSGFIIRGYLGKWTLMIKTITLVLAVASGLSLG
KEGPLVHVACCCGNIFSYLFPKYSTNEAKKREVSYYFPLKTLWRSFFAALVAAFVLR SINPFGNSRLVLF
YYEYHTPWYLFELFPFILLGVFGGLWGAF FIRANIAWCRRRKSTKFGKYPVLEVIIVAAITAVIAFPNPY
TRLNTSELIKELFTDCGPLESSSLCDYRNDMNASKIVDDIPDRPAGIGVYS AIWQLCLALIFKIIMTVFT
FGIKVPSGLFIP SMAIGA IAGRI VGI AVEQLAYYHHDWFIFKEWCEVGADCITPGLYAMVAAAACLGVT
RMTVSLVVIVFELTGGLEYIVPLMAAVMTSKWVGDAFGREGIYEAHIRLNGYPFLDAKEEFTHHTLAADV
MRPRRNDPPLAVLTQDNMTVDDIENMINETS YNGFPVIMS KESQRLVGFALRRDLTIAIESARKKQEGIV
GSSRVCF AQHTPSLPAESPRPLKLR SILDMPFTVTDHTPMEIVVDIFRKLGLRQCLVTHNGRLLGIITK
KDILRHMAQTANQDPASIMFN
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TRTRPLE - GFP Tag - V

Restriction Sites: AscI-MluI

Cloning Scheme:



ACCN: NM_001243372

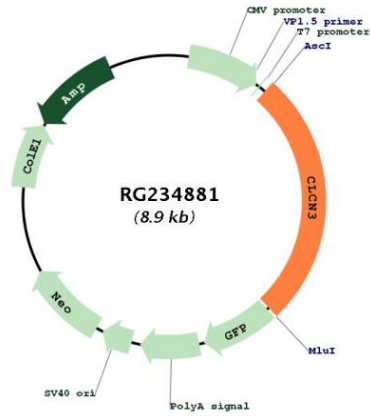
ORF Size: 2373 bp

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:	<ol style="list-style-type: none">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_001243372.2
RefSeq Size:	6142 bp
RefSeq ORF:	2376 bp
Locus ID:	1182
UniProt ID:	P51790
Cytogenetics:	4q33
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG234881