

Product datasheet for **RG214183**

CLCN3 (NM_173872) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN3 (NM_173872) 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:

>RG214183 representing NM_173872
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGCGCGCC

ATGGAGTCTGAGCAGCTGTTCCATAGAGGCTACTATAGAAACAGCTACAACAGTATAACAAGTGCAAGTA
 GTGATGAGGAACCTTTAGATGGAGCAGGTGTTATTATGGACTTTCAAACATCTGAAGATGACAATTTATT
 AGATGGTGACACTGCAGTTGGAACCTATTATACAATGACAAATGGAGGCAGCATTAAACAGTTCTACACAT
 TTAAGTGGATCTTTGGATGAACCAATCCAGGTGTTGGTACATATGATGATTTCCATACTATTGATTGGG
 TGCGAGAAAAATGTAAGACAGAGAAAGGCATAGACGGATCAACAGCAAAAAGAAAGAAATCAGCATGGGA
 AATGACAAAAAGTTGTATGATGCGTGGTCAGGATGGCTAGTAGTAACTAACAGGATTGGCATCAGGG
 GCACTGGCCGATTAATAGACATTGCTGCCGATTGGATGACTGACCTAAAGGAGGGCATTGCTTAGTG
 CGTTTGGTACAACCACGAACAGTGCTGTTGGGATCTAATGAAACAACATTTGAAGAGAGGGATAAATG
 TCCACAGTGGAAAACATGGGCAGAAATTAATCATAGGTCAAGCAGAGGGTCTGGTCTTATATCATGAAC
 TACATAATGTACATCTTCTGGGCCCTGAGTTTTGCCTTCTTGCAGTTTCCCTGGTAAAGGTATTGCTC
 CATATGCCTGTGGCTCTGGAATCCAGAGATAAAACATTTTTAAGTGGATTCATCATCAGAGGTTACTT
 GGGAAAATGGACTTTAATGATTAACCATCACATTAGTCTGGCTGTGGCATCAGGTTTGGATTTAGGA
 AAAGAAGTCCCCTGGTACATGTTGCCTGTTGCTGCGAAATATCTTTTCTACCTCTTCCAAAGTATA
 GCACAAACGAAGCTAAAAAAGGGAGGTGCTATCAGCTGCCTCAGCTGCAGGGGTTTCTGTAGCTTTTGG
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 AGATCACTTTTGTGCTGTTTAGTGGCTGCATTTGTTTGGAGTCCATCAATCCATTTGGTAACAGCCGTC
 TGGTCTTTTATGTTGAGATACACACCATGGTACCTTTTGAAGTGTTCCTTTTCTTTCTTTAGG
 GGTATTTGGAGGGCTTTGGGGAGCCTTTTTCATTAGGGCAAATATTGCCTGGTGTGCTGCGCAGCAAGTCC
 ACGAAATTTGAAAGTATCCCGTCTGGAAGTCATTATTGTTGCAGCCATTACTGCTGTGATAGCCTTCC
 CTAATCCATACACTAGGCTAAACACCAGTGAAGTATCAAAAGAGCTTTTACAGACTGTGGTCCCCTGGA
 ATCCTCTTCTTTGTGACTACAGAAATGACATGAATGCCAGTAAATTTGTCGATGACATTCCTGATCGT
 CCAGCAGGCATTGGAGTATATTCAGCTATATGGCAGTTATGCCTGGCACTCATATTTAAATCATAATGA
 CAGTATCACTTTTGGCATCAAGTTCCATCAGGCTTGTTCATCCCAGCATGGCCATTGGAGCGATCGC
 AGGAAGGATTGTGGGATTGCGGTGGAGCAGCTGCCTACTATCACCACGACTGGTTTATCTTTAAGGAG
 TGGTGTGAGGTCGGGCTGATTGCATTACACCTGGCCTTATGCCATGGTTGGTGTGCTGCATGCTTAG
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 CTGCTGACGTTATGAGACCTCGAAGGAATGATCCTCCCTAGCTGTCTGACACAGGACAATATGACAGT
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 AAGGTATCGTTGGCAGTTCTCGGGTGTGTTTGCACAGCACACCCCATCTTCCAGCAGAAAGTCCCTCG
 GCCATTGAAGCTTGAAGCATTCTGACATGAGCCCTTTACAGTGACAGACCACCCCAATGGAGATC
 GTGGTGGATATTTCCGAAAGCTGGGACTGAGGCAGTGCCTTGTAACTACAATGGGATGTTCTTGGGGA
 TCATCACAAGAAGAACATATTAGAGCATCTCGAGCAACTAAAGCAGCACGTGCAACCTTGGCGCTCC
 TTGGCATTATAACAAAAAAGATATCCTCCGGCATATGGCCAGACGGCAAAACCAAGACCCCGCTTCAAT
 AATGTTCAACTGAATCTCACAGATGAGGAGAGAGAAGAAACGGAAGAGGAAGTTATTTGTTGAATAGCA
 CAACTCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214183 representing NM_173872
 Red=Cloning site Green=Tags(s)

MESEQLFHRGYRNSYNSITSASSDEELLDGAGVIMDFQTSDDNLLDGDТАVGTHYMTNGGSINSSTH
 LLDLLDEPIPGVGTYYDFHTIDWVREKCKDRERHRRINSKKKESAWEMTKSLYDAWSGWL VVTLTGLASG
 ALAGLIDIAADWMTDLKEGICLSALWYNHEQCCWGSNETTFEERDKCPQWKTWAEIIIGQAEGPSYIMN
 YIMYIFWALSFAFLAVSLVKVFAPYACGSGIPEIKTILSGFIIRGYLGKWTLMIKTITLVLAVASGLSLG
 KEGPLVHVACCCGNIFSYLFPKYSTNEAKKREVLSAASAAGVSVAFGAPIGGVLFSLLEEVSYFFPLKTLW
 RSFFAALVAAFVLRINPFGNSRLVLFYVEYHTPWYLFELFPFILLGVFGGLWGAFIFIRANIAWCRRRKS
 TKFGKYPVLEVIIVAAITAVIAFPNPYTRLNSELIKELFTDCGPLESSSLCDYRNDMNASKIVDDIPDR
 PAGIGVYSAIWQLCLALIFKIIIMTVFTFGIKVPSGLFIPSMAGIAGRIVGI AVEQLAYYHHDWFIFKE
 WCEVGADCITPGLYAMVGAACLGGVTRMTVSLVVIVFELTGLEYIVPLMAAVMTSKWVGDAFGREGIY
 EAHIRLNGYFFLDAKEEFTHHTLAADVMPRRNDPPLAVLTQDNMTVDDIENMINETSUNGFPVIMSKES
 QRLVGFALRRDLTIAIESARKKQEGIVGSSRVCF AQHTPSLPAESPRPLKLSILDMSPTVTDHTPMEI
 VVDIFRKLGLRQCLVTHNGIVLGIITKKNILEHLEQLKQHV EPLAPPWHYNNKKRYPPAYGPDGKPRPRFN
 NVQLNLDEEREETE EEEVYLLNSTTL

TRTRPLE - GFP Tag - V

Restriction Sites:

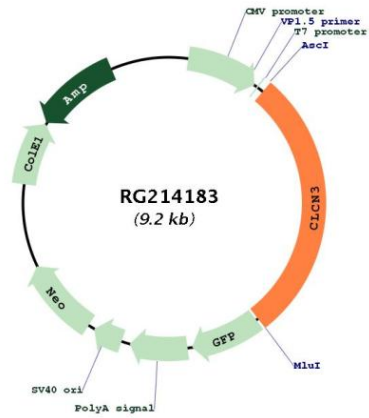
AscI-MluI

Cloning Scheme:



ACCN:	NM_173872
ORF Size:	2598 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_173872.4
RefSeq Size:	4058 bp
RefSeq ORF:	2601 bp
Locus ID:	1182
UniProt ID:	P51790
Cytogenetics:	4q33
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
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 Ca ²⁺ /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 RG214183