

Product datasheet for **RG222621**

CLCN2 (NM_004366) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN2 (NM_004366) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLCN2
Synonyms:	CIC-2; cIC-2; CLC2; ECA2; ECA3; EGI3; EGI11; EGMA; EJM6; EJM8; HALD2; LKPAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG222621 representing NM_004366
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGCCGCGCGCGCGGAGGAAGGGATGGAGCCACGGGCGCTGCAGTACGAGCAGACCCTGATGTATG
 GCCGGTACACTCAGGACCTTGGGGCCTTTGCCAAAGAGGAAGCTGCTCGATTTCGCTGGGAGGGCCTGA
 ACCCTGGAAAGGTCCCCCTTCTCTCGGGCTGCCCCAGAGCTCTTGAATATGGACGGAGCCGTTGCGCC
 CGATGCCGCGTCTGTTCTGTCCGCTGCCACAAGTTCTAGTATCCAGGGTTGGTGAAGATTGGATCTTCC
 TGGTCTGCTGGGGCTTCTCATGGCATTGGTCAGCTGGGTATAGACTATGCCATTGCTGCCTGTCTGCA
 AGCCCAGCAGTGGATGTCCCGGGCTTGAACACCAGCATCTTGTCCAGTACCTGGCCTGGGTACCTAC
 CCTGTTGTCTCATCACTTTCTCAGCCGGATTACACAGATCCTGGCCCTCAGGCTGTCGGCTCTGGCA
 TCCCTGAGATGAAGACCATCTTGCGGGAGTGGTGTGAAAGAATACCTCACACTCAAGACCTTTATAGC
 TAAGGTCAATGGGCTGACCTGCGCCCTAGGCAGCGGGATGCCGCTTGGCAAAGAGGGCCCTTTTGTGCAT
 ATCGCAAGCATGTGTGCTGCCCTTCTCAGCAAGTTCTCTCCCTCTTGGGGGTATCTATGAGAATGAAT
 CCCGGAACACAGAGATGCTGGCTGCCGCTGTGCCGTGGGGTGGGCTGTGCTTCGCGGCACCTATTGG
 AGGCGTCTCTTTCAGCATCGAGGTACCTCCACCTTCTTTCAGTGCAGGAACTACTGGCGGGCTTCTTC
 GCTGCCACCTTCAGTGCCTTCATCTTCCGGTCTTGGCAGTCTGGAACCGGGATGAAGAGACTATTACAG
 CCCTCTTCAAACCCGATTCCGGCTCGACTTCCCTTTGACCTGCAGGAGCTGCCAGCCTTTGCTGTCA
 TGGTATTGCTAGTGGCTTCGGTGGAGCCCTCTTGTCTACCTGAACCGGAAGATTGTCCAGGTGATGCGG
 AAGCAGAAAACCATCAATCGCTTCTCATGAGGAAACGCTGCTTCCCGGCTCTGGTGACCCTGCTCA
 TCTCCACGCTGACCTTCCCCCTGGCTTTGGACAGTTTCATGGCTGGACAGCTCTCACAGAAAGAGAGCCT
 GGTCAACCCTGTTTGAACAATCGGACGTGGGTCCGCCAGGGCTGGTGGAGGAGCTAGAACCACCCAGCACC
 TCACAGGCTGGAACCCACCACGTGCCAACGTCTTCTCACCTGGTCACTTCTCATGAAGTTCT
 GGATGTCTGCACTGGCCACCACCATCCCAGTTCCTGTGGGGCTTTCATGCCTGTCTTGTGATTGGAGC
 AGCATTGGGGCTCTGGTGGGTGAAAGCATGGCTGCCTGGTTCAGATGGAATTCATACGGACAGCAGC
 ACCTACCGGATTGTGCCTGGGGCTACGCTGTGGTTCGCTGCGCTGGCAGGAGCGGTGACACACAGTGT
 CCACGGCTGTGATCGTTCGAGCTCACAGGCCAGATTGCCACATCCTGCCTGTGATGATCGCCGTCAT
 CCTGGCCAACGCTGTGCGCCAGAGTCTGCAGCCCTCCCTCTATGACAGCATCATCGAATCAAGAACTG
 CCCTACCTGCCTGAGCTCGGCTGGGGCCGCCACCAGCAGTACCGGTGCGTGTGGAGGACATCATGGTGC
 GGGATGTTCCCATGTGGCCCTCAGCTGCACCTTCCGGGACCTGCGTTTGGCACTGCACAGGACCAAGGG
 CCGAATGTGGCCCTAGTGGAGTCCCCTGAGTCCATGATTCTGCTGGGCTCCATCGAGCGTTACAGGTG
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 AGAAGACTCAGCCTTCCAGCAGCCCGGGGGAGACCCACAAGCCCTAAAGCCTGCACTCAAGAGGGGG
 CCCAGTGTACCAGGAACCTCGGAGAGAGTCCACAGGGAGCGCAGAGTCGGCAGGCATCGCCCTCCGGA
 GCCTCTTCTGTGGCAGTCCACCCCTGAGGCTGCTTCGGAGAAGTTGGAATCCTGTGAGAAGCGCAAGCT
 GAAGCGTGTCCGAATCTCCCTGGCAAGTGACCGGACCTGGAAGCGGAGATGAGCCCTGAAGAGATTCTG
 GAGTGGGAGGAGCAGCAACTAGATGAACCTGTCAACTTCAGTGACTGCAAAATTGATCCTGCTCCCTTCC
 AGCTGGTGGAGCGGACCTCTTTCACAAGACTCACACTATCTTCTCACTGCTGGGAGTGGACCATGCTTA
 TGTACCAGTATTGGCAGACTCATTGGAATCGTTACTCTAAAGGAGCTCCGGAAGGCCATCGAGGGCTCT
 GTCACAGCACAGGGTGTGAAAGTCCGGCCGCCCTCGCCAGCTTCCGAGACAGTGCCACCAGCAGCAGTG
 ACACGGAGACCACTGAGGTGCATGCACTCTGGGGCCCCACTCCCGTCATGGCCTCCCCGGGAGGGCAG
 CCCTTCCGACAGCGACGACAAATGCCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >RG222621 representing NM_004366
 Red=Cloning site Green=Tags(s)

MAAAAAEEGMEPRALQYEQTLMYGRYTQDLGAFAKEEAARIRLGGPEPWKGPPSSRAAPELLEYGRSRCA
 RCRVCSVRCHKFLVSRVGEDWIFLVLLGLLMALVSWVIDYIAIAACLQAQQWMSRGLNTSILLQYLAWVTY
 PVVLIITFSAGFTQILAPQAVGSGIPEMKTILRGVVVKEYLTKTFIAKVIGLTCALGSGMPLGKEGPFVH
 IASMCALLSKFLSLFGGIYENESRNTMLAAACAVGVGCCFAAPIGGVLFSEIETSTFFAVRNYWRGFF
 AATFSAFIFRVLAVWNRDEETITALFKTRFRDLDFPDLQELPAFAVIGIASGFGGALFVYLNKIVQVMR
 KQKTINRFLMRKRLLPALVTLTLLISTLTFPPGFQFMAGQLSQKETLVTLFDNRTWVRQGLVEELEPPST
 SQAWNPPRANVFLTLVIFILMKFWMSALATTIPVPCGAFMPVFI GAAGFRLVGESMAAWFPDGIHTDSS
 TYRIVPGGYAVVAALAGAVTHTVSTAVIVFELTGQIAHILPVMIAVILANAVAQSLQPSLYDSIIRIKKL
 PYLPELWGRHQYRVRVEDIMVRDVPHVALSCTFRDLRLALHRTKGRMLALVESPEMILLGSIERSQV
 VALLGAQLSPARRRQHMQRERRATQTSPLSDQEGPPSPEASVCFQVNTEDSAFPAARGETHKLPKALKRG
 PSVTRNLGESPTGSAESAGIALRSLFCGSPPEAASEKLESCERKLRVRI SLASDADLEGEMSPPEIL
 EWEEQQLDEPVNFSACKIDPAPFQLVERTSLHKHTTIFSLLGVDHAYVTSIGRLIGIVTLKELRKAIEGS
 VTAQGVKVRPPLASFSDSATSSSDTETTEVHALWGPSRHLPREGSPSDSDDKCQ

TRTRPLE - GFP Tag - V

Restriction Sites:

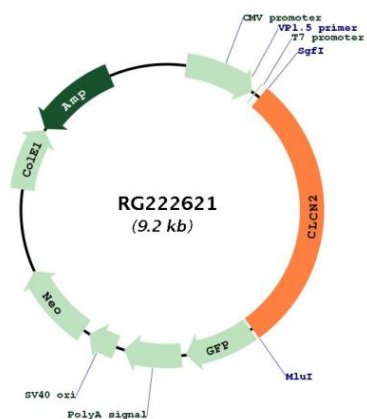
SgfI-MluI

Cloning Scheme:



ACCN:	NM_004366
ORF Size:	2688 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_004366.2 , NP_004357.2
RefSeq Size:	2697 bp
RefSeq ORF:	2697 bp
Locus ID:	1181
UniProt ID:	P51788
Cytogenetics:	3q27.1
Domains:	CBS, voltage_CLC
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	This gene encodes a voltage-gated chloride channel. The encoded protein is a transmembrane protein that maintains chloride ion homeostasis in various cells. Defects in this gene may be a cause of certain epilepsies. Four transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RG222621