

Product datasheet for **RG217449**

CLCN6 (NM_021737) Human Tagged ORF Clone

Product data:

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|---------------------------|-----------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | CLCN6 (NM_021737) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CLCN6 |
| Synonyms: | CLC-6; KIAA0046 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG217449 representing NM_021737 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGGTGCAGGGGGTCTCTGTGCTGCTGCTGCAGGTGGTGTGCTGCTGCGGTGAGCGTGAGACCC
GCACCCCGAGGAGCTGACCATCCTTGGAGAAACACAGGAGGAGGAGGATGAGATTCTTCCAAGGAAAGA
CTATGAGAGTTTGGATTATGATCGCTGTATCAATGACCCTTACCTGGAAGTTTTGGAGACCATGGATAAT
AAGAAAGGTCAAGATATGAGGCGGTGAAGTGGATGGTGGTGTGTCATTGGAGTCTGCACTGGCCTGG
TGGGTCTCTTTGTGGACTTTTTGTGCGACTCTTACCCAACTCAAGTTCGGAGTGGTACAGACATCGGT
GGAGGAGTGCAGCCAGAAAGGCTGCCTCGCTCTGTCTCTCTTGAACCTCCTGGGTTTTAACCTCACCTT
GTCTTCTGGCAAGCCTCCTTGTCTCATTGAGCCGGTGGCAGCAGGTTCCGGGATACCCGAGGTCAAAT
GCTATCTGAATGGCGTAAAGGTGCCAGGAATCGTCCGTCTCCGGACCCTGCTCTGCAAGGTCTTGGAGT
GCTGTTCAGTGTGGCTGGAGGGCTCTTCTGTTGGGAAGGAAGGCCCATGATCCACAGTGGTTCGGTGGT
GGAGCTGGCCTCCCTCAGTTTCAGAGCATCTCCTACGGAAGATCCAGTTAACTTCCCCTATTTCCGAA
GCGACAGGAGCGGCTGCTGGAGTTGCTGCAGCTTTCGGGGCGCCAATCGGGGTACCTTGTTCAGTCTAG
AGGAGGGTTCGTCTTCTGGAACCAAGGGCTCACGTGGAAGTGTCTTTTGTCCATGTCTGCCACCTT
CACCTCAACTTCTTCCGTTCTGGATTTCAGTTTGAAGCTGGGGTTCCTCCAGCTCCCTGGATTGCTG
AACTTTGCGGAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217449 representing NM_021737
Red=Cloning site Green=Tags(s)

MAGCRGSLCCCCRWCCCCGERETRTPEELTILGETQEEDEILPRKDYESLDYDRcindpyLEVLETMDN
 KKGRRYEAVKMMVVFAIGVCTGLVGLFVDFVRLFTQLKFGVVQTSVEECSQKGLALSLELLGFNLTF
 VFLASLLVLI EPVAAGSGIPEVKCYLNGVKVPGIVRLRTLCKVLGVLFVAGGLFVGKEGPMIHSGSVV
 GAGLPQFQISLTKIQFNFPYFRSDRSGCWSSCSFRGANRGYLVQSRGGFVLEPRAHVESALLFHVCHL
 HPQLLPFWDVWKLGFLLPAPWIAELWRV

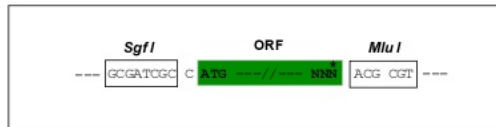
TRTRPLE - GFP Tag - V

Restriction Sites:

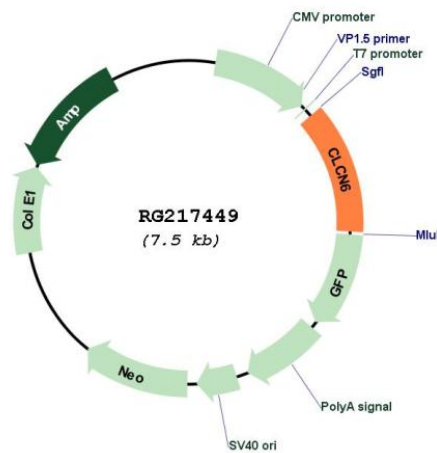
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_021737

ORF Size: 924 bp

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| 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_021737.2 |
| RefSeq Size: | 3858 bp |
| RefSeq ORF: | 926 bp |
| Locus ID: | 1185 |
| Cytogenetics: | 1p36.22 |
| Domains: | voltage_CLC |
| Protein Families: | Druggable Genome, Ion Channels: Other, Transmembrane |
| Gene Summary: | This gene encodes a member of the voltage-dependent chloride channel protein family. Members of this family can function as either chloride channels or antiporters. This protein is primarily localized to late endosomes and functions as a chloride/proton antiporter. Alternate splicing results in both coding and non-coding variants. Additional alternately spliced variants have been described but their full-length structure is unknown. [provided by RefSeq, Mar 2012] |