

## Product datasheet for **RG205906**

### CLIC5 (NM\_016929) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CLIC5 (NM\_016929) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CLIC5  
**Synonyms:** DFNB102; DFNB103; MST130; MSTP130  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205906 representing NM\_016929  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGACTCGGCGACAGCTAACGGGGACGACAGGGACCCCGAGATCGAGCTCTTTGTGAAGGCTGGAA  
TCGATGGAGAAAGCATCGGCAACTGTCTTTCTCTCAGCGCTCTTCATGATCCTCTGGCTGAAAGGAGT  
CGTGTTCATGTCACCACTGTGGATCTGAAAAGAAAGCCAGCTGACCTGCACAACCTAGCCCCGGCAGC  
CACCCGCCCTTCTGACCTTCAACGGGGACGTGAAGACAGACGTCAATAAGATCGAGGAGTTCCTGGAGG  
AGACCTTGACCCCTGAAAAGTACCCAACTGGCTGCAAAACACCGGGAATCCAACACAGCGGGCATCGA  
CATCTTTTCCAAGTTTTCTGCCTACATCAAAAATACCAAGCAGCAGAACAATGCTGCTCTTGAAAGAGGC  
CTAACCAAGGCTCTAAAGAAATTGGATGACTACCTGAACACCCCTCTACCAGAGGAGATTGACGCCAACA  
CTTGTGGGAAGACAAGGGTCCCGCGCAAGTTCCTGGATGGGGATGAGCTGACCTGGCTGACTGCAA  
TCTGTTGCCAAGCTCCATGTGGTCAAGATTGTGGCAAGAAATACCGCAACTATGATATCCCGGCTGAG  
ATGACAGGCTGTGGCGGTACCTCAAGAAGCCTATGCCCGTGATGAGTTCACCAACACCTGTGCAGCTG  
ACAGTGAGATCGAGTTGGCTACGCTGATGTCGCCAACGCCTCAGCCGATCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205906 representing NM\_016929  
Red=Cloning site Green=Tags(s)

MTDSATANGDDRPEIELFVKAGIDGESIGNCPFSQRLFMILWLKGVVFNVTVDLKRKPADLHNLAPGT  
 HPPFLTFNGDVKTDVNKIEEFLEETLTPEKYPKLAAKHRESNTAGIDIFSKFSAYIKNTKQQNNAALERG  
 LTKALKKLLDDYLNTPLEPIDANTCGEDKGSRRKFLDGDELTLADCNLLPKLHVVKIVAKKYRNYDIPAE  
 MTGLWRYLKNAYARDEFTNTCAADSEIELAYADVAKRLSRS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016929

**ORF Size:** 753 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\\_016929.5](#)

**RefSeq Size:** 5703 bp

**RefSeq ORF:** 756 bp

**Locus ID:** 53405

**UniProt ID:** [Q9NZA1](#)

**Cytogenetics:** 6p21.1

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

**Gene Summary:** This gene encodes a member of the chloride intracellular channel (CLIC) family of chloride ion channels. The encoded protein associates with actin-based cytoskeletal structures and may play a role in multiple processes including hair cell stereocilia formation, myoblast proliferation and glomerular podocyte and endothelial cell maintenance. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

## Product images:



Circular map for RG205906