

Product datasheet for **RG232115**

CLIC5 (NM_001256023) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CLIC5 (NM_001256023) 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: >RG232115 representing NM_001256023
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGACTCGGCGACAGCTAACGGGGACGACAGGGACCCCGAGATCGAGCTCTTTGTGAAGGCTGGAA
TCGATGGAGAAAGCATCGGCAACTGTCTTTCTCTCAGCGCTCTTCATGATCCTCTGGTGAAAGGAGT
CGTGTTCATGTCACCACTGTGGATCTGAAAAGAAAGCCAGCTGACCTGCACAACCTAGCCCCGGCAGC
CACCCGCCCTTCTGACCTTCAACGGGGACGTGAAGACAGACGTCAATAAGATCGAGGAGTTCCTGGAGG
AGACCTTGACCCCTGAAAAGTACCCAAACTGGCTGAAAACACCGGGAATCCAACACAGCGGGCATCGA
CATCTTTTCCAAGTTTTCTGCCTACATCAAAAATACCAAGCAGCAGAACAATGCTGCTCTTGAAAGAGGC
CTAACCAAGGCTCTAAAGAAATTGGATGACTACCTGAACACCCCTCTACCAGAGGAGATTGACGCCAACA
CTTGTGGGAAGACAAGGGGTCCCGCGCAAGTTCCTGGATGGGGATGAGCTGACCTGGCTGACTGCAA
TCTGTTGCCAAGCTCCATGTGGTCAAGGAACAAGTACCACTGAAAGGGATGATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232115 representing NM_001256023
Red=Cloning site Green=Tags(s)

MTDSATANGDDRPEIELFVKAGIDGESIGNCPFSQRLFMILWLKGVVFNVTVDLKRKPADLHNLAPGT
HPPFLTFNGDVKTDVNKIEEFLEETLTPEKYPKLAAKHRESNTAGIDIFSKFSAYIKNTKQONNAALERG
LTKALKKLDLYLNTPLPEEIDANTCGEDKGSRRKFLDGDELTLADCNLLPKLHVVKEQVPLKGM

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

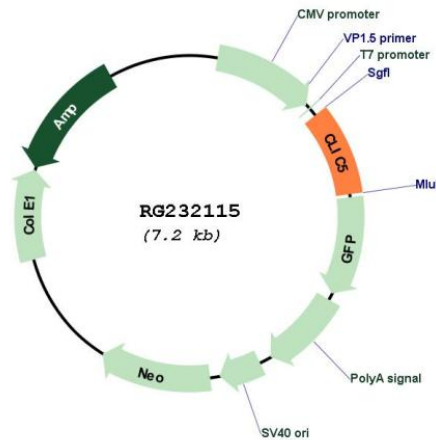


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256023

ORF Size: 615 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_001256023.2](#)

RefSeq Size: 2067 bp

RefSeq ORF: 618 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]