

Product datasheet for **RG225641**

CLIC5 (NM_001114086) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CLIC5 (NM_001114086) 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: >RG225641 representing NM_001114086
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATGACGAAGACTACAGCACCATCTATGACACAATCCAAAATGAGAGGACGTATGAGGTTCCAGACC
 AGCCAGAAGAAAATGAAAGTCCCCATTATGATGATGTCCATGAGTACTTAAGGCCAGAAAATGATTTATA
 TGCCACTCAGCTGAATACCCATGAGTATGATTTGTGTCAGTCTATACCATTAAGGGTGAAGAGACCAGC
 TTGGCCTCTGTCCAGTCAGAAGACAGAGGCTACCTCCTGCCTGATGAGATATACTCTGAAGTCCAGGAGG
 CTCATCCAGGTGAGCCCCAGGAGGACAGGGGCATCTCAATGGAAGGGTTATATTCATCAACCCAGGACCA
 GCAACTCTGCGCAGCAGAACTCCAGGAGAATGGGAGTGTGATGAAGGAAGATCTGCCTTCTCCTCAAGC
 TTCACCATTACAGCACAGTAAGGCCTTCTCTACCAAGTATTCTGCTATTCTGATGCTGAAGGTTTGG
 AAGAAAAGGAGGGAGCTCACATGAACCTGAGATTTACCTCTTTGTGAAGGCTGGAATCGATGGAGAAAAG
 CATCGGCAACTGTCTTTCTCTCAGCGCCTCTTCATGATCCTCTGGCTGAAAGGAGTCGTGTTCAATGTC
 ACCACTGTGGATCTGAAAAGAAAGCCAGCTGACCTGCACAACCTAGCCCCGGCACGCACCCGCCCTTCC
 TGACCTTCAACGGGGACGTGAAGACAGACGTCAATAAGATCGAGGAGTTCCTGGAGGAGACCTTGACCCC
 TGAAAAGTACCCCAAACCTGGCTGCAAAACACCGGAATCCAACACAGCGGCATCGACATCTTTTCCAAG
 TTTTCTGCCTACATCAAAAATACCAAGCAGCAGAACAATGCTGCTTTGAAAGAGGCCTAACCAAGGCTC
 TAAAGAAATTGGATGACTACCTGAACACCCTCTACCAGAGGAGATTGACGCCAACACTTGTGGGGAAGA
 CAAGGGTCCCGCGCAAGTTCCTGGATGGGGATGAGCTGACCCTGGCTGACTGCAATCTGTTGCCCAAAG
 CTCCATGTGGTCAAGATTGTGGCCAAGAAATACCGCAACTATGATATCCCGGCTGAGATGACAGGCTGT
 GGCGGTACCTCAAGAACGCCTATGCCCGTGTGAGTTCACCAACACCTGTGCAGCTGACAGTGAATCGA
 GTTGGCTACGCTGATGTCGCCAACGCCTCAGCCGATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225641 representing NM_001114086
 Red=Cloning site Green=Tags(s)

MNDEDYSTIYDTIQNERTYEVDPQPEENESPHYDDVHEYLRPENDLYATQLNTHEYDFVSVYTIKGEETS
 LASVQSEDRGYLLPDEIYSELQEAHPGEPQEDRGISMEGLYSSTQDQQLCAAELQENGSMKEDLPSPSS
 FTIQHSAFSTTKYSCYSDAEGLEEKEGAHMNPEIYLFVKAGIDGESIGNCPFSQRLFMILWLKGVVFNV
 TTVDLKRKPADLHNLAPGTHPPFLTFNGDVKTDVKNKIEEFLEETLTPEKYPKLAAKHRESNTAGIDIFSK
 FSAYIKNTKQNNAAALERGLTKALKKLDLYLNTPLPEEIDANTCGEDKGSRRKFLDGDDELTLADCNLLPK
 LHVVKIVAKKYRNYDIPAEMTGLWRYLKNAYARDEFTNTCAADSEIELAYADVAKRLSRS

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3727_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001114086

ORF Size: 1230 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_001114086.2](#)

RefSeq Size: 5988 bp

RefSeq ORF: 1233 bp

Locus ID: 53405

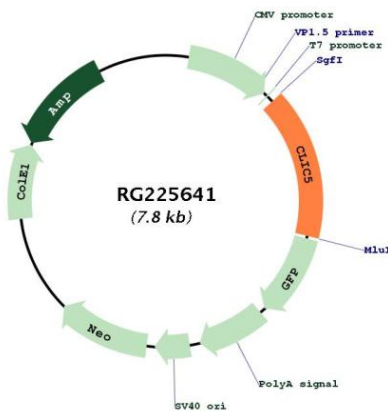
UniProt ID: [Q9NZA1](#)

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 RG225641