

Product datasheet for **SC114142**

CLIC5 (NM_016929) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLIC5 (NM_016929) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLIC5
Synonyms:	DFNB102; DFNB103; MST130; MSTP130
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114142 sequence for NM_016929 edited (data generated by NextGen Sequencing)

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ATGACAGACTCGGCGACAGCTAACGGGGACGACAGGGACCCCGAGATCGAGCTCTTTGTG
AAGGCTGGAATCGATGGAGAAAGCATCGGCAACTGTCCTTTCTCTCAGCGCCTCTTCATG
ATCCTCTGGCTGAAAGGAGTCGTGTTCAATGTCACCACTGTGGATCTGAAAAGAAAGCCA
GCTGACCTGCACAACCTAGCCCCGGCACGACCCGCCCTTCTGACCTTCAACGGGGAC
GTGAAGACAGACGTCAATAAGATCGAGGAGTTCCTGGAGGAGACCTTGACCCCTGAAAAG
TACCCCAAACCTGGCTGAAAACACCGGGAATCCAACACAGCGGGCATCGACATCTTTTC
AAGTTTTCTGCCTACATCAAAAATACCAAGCAGCAGAACAATGCTGCTCTTGAAAGAGGC
CTAACCAAGGCTCTAAAGAAATTGGATGACTACCTGAACACCCCTCTACCAGAGGAGATT
GACGCCAACACTTGTGGGAAGACAAGGGGTCCCGGCGCAAGTTCCTGGATGGGGATGAG
CTGACCCCTGGCTGACTGCAATCTGTTGCCAAGCTCCATGTGGTCAAGATTGTGGCCAAG
AAATACCGCAACTATGATATCCCGGCTGAGATGACAGGCCTGTGGCGGTACCTCAAGAAC
GCCTATGCCCGTGATGAGTTCACCAACACCTGTGCAGCTGACAGTGAGATCGAGTTGGCC
TACGCTGATGTCGCCAAACGCCTCAGCCGATCCTGA
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Clone variation with respect to NM_016929.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016929 unedited GTATTTTGTACATACGACTCACTATAGGGCGGCCGGCGATTTCGGCACGAGGGTCGCGGATC CTGTGACACCNTCCGGCAGCCCGGCACTTGTGCTCCCACGACCTGTTGTCATTCCCTTA ACCCGGCTTTCCCGTGGCCCCCGCCTCCTCCCGGCTTCGCTCCTTTTCATGTGAGCAT CTGGGACACTGATCTCTCAGACCCCGTCTCGGGCTGGAGAATAGATGGTTTTGTGAAA AATTAACACCCGCCCTGAAGAGGAGCCCCGCTGGGCAGCGGCAGGAGCGCAGAGTGCTGG CCCAGGTGCTGCAGAGGTGGCGCTCCCCGGCCCGGGACGGTAGCCCCGGGCGCCAACGG CATGCAGACTCGGCAGACTAACGGGACGACAGGGACCCCGAGATCGAGCTCTTTGT GAAGGCTGGAATCGATGGAGAAAGCATCGCAACTGTCCTTTCTCTCAGCGCCTTCTCAT GATCCTCTGGCTGAAAGGAGTCGTGTTCAATGTCACCACTGTGGATCTGAAAAGAAAGCC AGCTGACCTGCACAACCTAGCCCCGGCACGCACCCGCCCTTCTGACCTTCACGGGGGA CGTGAAGACAGACGTCATAAGATCGGAGGAGTTCCTGGAGGAGACCTTGACCCCTGA AAGTACCCCAAACCTGGCTGCAAAACACCCGGAATCCAACACAGCGGGCATCGACATCTTT TCCCAAGTCTTCTGCCTACATCAAAAATACCAAGCCGACACCAATGCTGGTATTCTGCC AGGGGGTGGGGAGCCTGCCAGTGAATGAAGGGGACCGGATTTCTAAATGAGCTACTC CCTCTGAAGA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016929 unedited CGCAATCTAGTGTGAGTTTTTTTTTTTTTTTTTTTTCACCTGGCAGTTGAGTCAGATTGTA GGAAAATTAACCCAGATGGGTCTACATTTTTTCTCAAGTTCAAACCACATGGTCTTCTTA GTCAGAAAGTCTCATGGACTTTCTTCTAAGGTGTTCTATGATCAGACCACCTCCTAAAT GTGGCTTTTACCATTACAGGCTACAGTTGAATCAGGCAGGAGCAGCTGCTGGAGAGCAC CCAGCCGACAGACCTGCATTCCAGAAGCAGCTTGAGAAACTGGGAAGACATTTTGGACC CATTCTTGGGTTTTACTGTAAGTTAGCAGTTACATGATGCCACCAGTCCAAGACTTAT ATCATGAGAGAAGGCCTTTTTAAAAGTTTACCAGGGAACATCGAGGCTCATAAAGAACTC TTTTGTCTTACCCTACTCTCCTCCTCCCACTCCCATCCACTTTCTCATAGCTCAAAAAC CACTCATTGGTAAGCACAGTCAAACCCAGGCCTGTAATCACCTCTGAAACAACTACTCCT AAGCAAGCAAACCCATGGCTGGTAGACCCCGTGGGTATTTTGGCATCAACACTGCTCCC CCTCCCCTCCATCCAGTCACTGCAGTTTAGAATTGCATGCCAATTTCTTTTCTGGCAG GGCCTGGACAGCATGGAAGCCAGGGACAGCATGTGCCAGGTGCGCAGCAGCAGCAGCGCA GCATTCCTGGCACTGCAACAACTGAATTGTGTCTCAAGTGACTTTCCAGTCTGGCCCT TATTGCCCAATACCAGAGTGCCAAAGTAGTGAGACTGAAGCTGTGTNGCCAGACCCCAAG TCCTAGCCAGCTCGGACTCCTCATTCACTCTCTGCTCCCTATGGGAATTATACCCC TTCTAAAAGATGATAAGCCGTTGTCCTGCCCTTGAGTATGACCGGAAGAAGGTNAAA AGATTTGTGTTTCATGTTCTAAGCTCTGAGAGGATTTGAATTGC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_016929
Insert Size:	2550 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_016929.1](#), [NP_058625.1](#)

RefSeq Size: 2380 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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (b, also known as CLIC5A) is shorter and has a distinct N-terminus, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.