

Product datasheet for **SC318982**

CLC7 (CLCN7) (NM_001114331) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLC7 (CLCN7) (NM_001114331) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCN7
Synonyms:	CLC-7; CLC7; HOD; OPTA2; OPTB4; PPP1R63
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001114331, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAACGTCTCTAAGAAGGTGTCCTGGTCCGGCCGGGACCGGGACGACGAGGAGGCG
GCGCCGCTGCTGCGGAGGACGGCGCGGCCCGGGGGGACGCCGCTGCTGAACGGGGCT
GGGCTGGGGCTGCGCGCCAGGATATGGACCCTCCACATCCCTTCCCAAGGAGATCCCA
CACAAAGAGAAGCTCCTGTCCCTCAAGTATGAGAGCTTGGACTATGACAACAGTGAGAAC
CAGCTGTTCTGGAGGAGGAGCGCGGATCAATCACACGGCCTCCGGACGGTGGAGATC
AAGCGCTGGGTCACTGCGCCCTCATTGGGATCCTCACGGCCTCGTGGCCTGCTTCATT
GACATCGTGGTGGAAAACCTGGCTGGCCTCAAGTACAGGGTCATCAAGGGCAATATCGAC
AAGTTCACAGAGAAGGGCGGACTGTCCTTCTCCCTGTTGCTGTGGCCACGCTGAACGCC
GCCTTCGTGCTCGTGGGCTCTGTGATTGTGGCTTTCATAGAGCCGGTGGCTGCTGGCAGC
GGAATCCCCCAGATCAAGTGCTTCTCAACGGGGTGAAGATCCCCACGTGGTGGCGCTC
AAGACGTTGGTGATCAAAGTGCCGGTGTATCCTGTCCGTGGTGGGGGCTGGCCGTG
GAAAGGAAGGGCCGATGATCCACTCAGGTTCAAGTATTGCGCCGGGATCTCTCAGGGA
AGGTCAACGCTACTGAAACGAGATTTCAAGATCTTCGAGTACTCCGAGAGACACAGAG
AAGCGGGACTTCGTCTCCGACGGGGCTGCGGCCGAGTGTGAGCGGCTTGGAGCCCC
GTGGGTGGGGTCTGTTAGCTTGGAGGAGGGTGGCTCCTTCTGGAACCGTTCCTGACC
TGGAGGATCTTCTTGGTTCATGATCTCCACGTTACCCCTGAATTTTGTCTGAGCATT
TACCACGGGAACATGTGGGACCTGTCCAGCCAGGCCATCAACTTCGGAAGGTTTGAC
TCGGAGAAAATGGCCTACACGATCCACGAGATCCCGGTCTTCATCGCCATGGGCGTGGT
GGCGGTGTGCTTGGAGCAGTGTTCAATGCCTTGAACACTGGCTGACCATGTTTCGAATC
AGGTACATCCACGGCCCTGCCTGCAGGTGATTGAGCCGTGCTGGTGGCCGCGGTGACG
GCCACAGTTGCCTTCGTGCTGATCTACTCGCGGGATTGCCAGCCCCGCAGGGGGGG
TCCATGTCTACCCGCTGCAGCTCTTTTGTGAGATGGCGAGTACAACCTCATGGCTGCG
GCCTTCTTCAACACCCCGGAGAAGAGCGTGGTGGCCTCTTCCAGACCCGCCAGGCTCC
TACAACCCCTGACCCTCGCCTGTTACAGCTGGTCTACTTCTTCTGGCCTGCTGGACC
TACGGGCTCACGGTGTCTGCCGGGTCTTCATCCCGTCCCTGCTCATCGGGGCTGCCTGG
GGCCGGCTCTTTGGGATCTCCCTGTCTACCTCACGGGGCGGGATCTGGGCGGACCCC
GGCAAATACGCCCTGATGGGAGCTGCTGCCAGCTGGGCGGGATTGTGCGGATGACACTG
AGCCTGACCGTCATCATGATGGAGGCCACCAGCAACGTGACCTACGGCTTCCCCATCATG
CTGGTGTGCTGACCGCAAGATCGTGGGCGACGCTTTCATTGAGGGCCTGTACGACATG
CACATTCAGCTGCAGAGTGTGCCCTTCTGCACTGGGAGGCCCGGTACCTCACACTCA
CTCACTGCCAGGGAGGTGATGAGCACACCAAGTACCTGCCTGAGGCGGCGTGAGAAGGTC
GGCGTCATTGTGGACGTGCTGAGCGACACGGCGTCCAATCACAACGGCTTCCCCGTGGTG
GAGCATGCCGATGACACCCAGCCTGCCCGGCTCCAGGGCTGATCCTGCGCTCCCAGCTC
ATCGTTCTCCTAAAGCACAAAGGTGTTTGTGGAGCGGTCCAACCTGGGCTGGTACAGCGG
CGCCTGAGGCTGAAGGACTTCCGAGACGCTACCCGCGCTTCCCACCCATCCAGTCCATC
CACGTGTCCCAGGACGAGCGGGAGTGACCATGGACCTCTCCGAGTTCATGAACCCCTCC
CCCTACACGGTGGCCAGGAGGGCGTCCCTCCACGGGTGTTCAAGCTGTTCCGGGCCCTG
GGCCTGCGGCACCTGGTGGTGGTGGACAACCGCAATCAGGTTGTGGGTTGGTGACCAGG
AAGGACCTCGCCAGGTACCGCCTGGGAAAGAGAGGCTTGGAGGAGCTCTGCTGGCCAG
ACG

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Restriction Sites: Please inquire
ACCN: NM_001114331
Insert Size: 4164 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001114331.1</u> , <u>NP_001107803.1</u>
RefSeq Size:	4164 bp
RefSeq ORF:	4164 bp
Locus ID:	1186
UniProt ID:	<u>P51798</u>
Cytogenetics:	16p13.3
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	<p>The product of this gene belongs to the CLC chloride channel family of proteins. Chloride channels play important roles in the plasma membrane and in intracellular organelles. This gene encodes chloride channel 7. Defects in this gene are the cause of osteopetrosis autosomal recessive type 4 (OPTB4), also called infantile malignant osteopetrosis type 2 as well as the cause of autosomal dominant osteopetrosis type 2 (OPTA2), also called autosomal dominant Albers-Schonberg disease or marble disease autosomal dominant. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. OPTA2 is the most common form of osteopetrosis, occurring in adolescence or adulthood. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks an in-frame segment of the coding region, compared to variant 1. It encodes a shorter isoform (b), that is missing an internal segment 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.</p>