

Product datasheet for **SC337419**

Chloride Channel 5 (CLCN5) (NM_001282163) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chloride Channel 5 (CLCN5) (NM_001282163) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCN5
Synonyms:	CIC-5; CLC5; CLCK2; DENTS; hCIC-K2; NPHL1; NPHL2; XLRH; XRN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001282163, the custom clone sequence may differ by one or more nucleotides

```

ATGTTCTACCAGAGACAAGTCGTAACATGGTGGAGGAATAGGTTCTTCAAATAGGATCATGGACTTCT
TGGAGGAGCCAATCCCTGGTGTAGGGACCTATGATGATTTCAATACAATTGATTGGGTGAGAGAGAAGTC
TCGAGACCGGATAGGCACCGAGAGATTACCAATAAAAGCAAAGAGTCAACATGGGCCTTAATTCACAGT
GTGAGTGATGCTTTTCCGGCTGGTTGTTGATGCTCCTTATTGGGCTTTTATCAGGTTCTGTAGCTGGTT
TGATAGACATCTCTGCTCATTGGATGACAGACTTAAAAGAAGGTATATGCACAGGGGATTCTGGTTTAA
CCATGAACATTGTTGCTGGAACCTGAGCATGTCACCTTTGAAGAGAGAGACAAATGCCAGAGTGGAAAT
AGTTGGTCCCAGCTTATCATCAGCACAGATGAGGGAGCCTTTGCCTACATAGTCAATTATTTTCATGTACG
TCCTCTGGGCTCTCTATTTGCCTTCTTGCCGTATCTTGTCAAGGTGTTTGCCTTATGCCTGTGG
CTCTGGAATCCCTGAGATAAAAATCTTGTAGTGGTTTTCATTATTAGGGGCTATTTGGTAAGTGGACT
CTGGTTATCAAACCATCACCTTGGTGTGGCAGTGTCTGCTGGCTTGGCCTGGGCAAAGAGGGCCCTC
TAGTGCACGTGGCTTGTGCTGTGGGAACATCCTGTGCCACTGCTCAACAAATACAGGAAGAATGAAGC
CAAGCGCAGAGAGGTCTTGTCCGGCTGCAGCAGCAGCTGGTGTATCTGTAGCCTTTGGAGCACCTATAGGT
GGAGTATTATTCAGCCTTGAAGAGGTGACGCTACTATTTTCCCCTCAAACATTGTGGCGTTCATTCTTTG
CTGCCTTGGTGGCAGCATTCACTCTACGCTCCATCAATCCATTTGGGAACAGCCGCTGGTACTATTTTA
TGTGGAGTTTACACCCCATGGCATCTCTTTGAGCTCGTGCCATTCATTCTGCTGGGCATATTTGGTGGT
CTGTGGGAGCACTGTTTATCCGCACAAACATTGCCTGGTGTCCGGAAGCGAAAGACCACCCAGTTGGGCA
AGTATCCTGTTATAGAGTACTCGTCGTGACAGCCATCACTGCCATCCTGGCTTTCCCAATGAATACAC
TCGGATGAGCACAAGTGAGCTCATTCTGAGCTGTTAATGACTGTGGCCTTCTGGACTCCTCCAAGCTC
TGTGATTATGAGAACCCTTCAACACAAGCAAAGGGGTGAACTGCCTGACAGACCGGCTGGCCTGGGAG
TCTACAGTGCAATGTGGCAGCTGGCTTTAACACTCATACTGAAAATTGTCATTACTATATTCACCTTTGG
CATGAAGATCCCTTCTGGCCTTTTATCCCTAGCATGGCTGTTGGTGTATAGCAGGTCGACTTCTAGGA
GTAGGAATGGAACAGCTGGCTTATTACCACCAGGAATGGACCGTCTTCAATAGCTGGTGTAGTCAGGGAG
CTGATTGCATCACCCCGGCTTTATGCAATGTTGGGGCTGCAGCCTGCTTAGGTGGGGTACTCGGAT
GACTGTTTCTTGTGTGATAATGTTTGAAGTACTGGTGGCTTAGAATACATCGTGCCTCTGATGGCT
GCAGCCATGACAAGCAAGTGGTGGCAGATGCTCTTGGGCGGAGGGCATCTATGATGCCACATCCGTC
TCAATGGATACCCCTTTCTTGAAGCAAAGAAGAGTTTGTCTATAAGACCCTGGCAATGGATGTGATGAA
ACCCCGGAGAAATGATCCTTTGTTGACTGTCCTTACTCAGGACAGTATGACTGTGGAAGATGTAGAGACC
ATAATCAGTGAAACCACTTACAGTGGCTTCCCAGTGGTGGTATCCCGGGAGTCCCAAGACTTGTGGGCT
TTGTCTCCGAAGAGATCTCATTATTTCAATTGAAAATGCTCGAAAGAAACAGGATGGGGTGTAGCAC
TTCCATCATTTATTTACGGAGCATTCTCTCCATTGCCACCATACACTCCACCCACTCTAAAGCTTCGG
AACATCTCGATCTCAGCCCTTCACTGTGACTGACCTTACACCCATGGAGATCGTAGTGGATATTTTCC
GAAAGCTGGGACTGCGGCAGTGCCTGGTTACACACAACGGGCGATTGCTTGAATCATTACCAAAAAGGA
TGTGTTAAAGCATATAGCACAGATGGCGAACCAAGATCCTGATTCCATTCTTTCAACTAG
    
```

Restriction Sites: SgfI-MluI

ACCN: NM_001282163

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_001282163.1](#), [NP_001269092.1](#)

RefSeq Size: 9558 bp

RefSeq ORF: 2301 bp

Locus ID: 1184

UniProt ID: [P51795](#)

Cytogenetics: Xp11.23

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

Gene Summary: This gene encodes a member of the CIC family of chloride ion channels and ion transporters. The encoded protein is primarily localized to endosomal membranes and may function to facilitate albumin uptake by the renal proximal tubule. Mutations in this gene have been found in Dent disease and renal tubular disorders complicated by nephrolithiasis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (4, also known as type 4) lacks several 5' exons but has an alternate 5' exon, and it thus differs in the 5' UTR and uses an alternate start codon, compared to variant 1. The resulting isoform (d) has a shorter and 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.