

Product datasheet for **MC228988**

Clcn5 (NM_001243762) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn5 (NM_001243762) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clcn5
Synonyms:	5430408K11Rik; Clc-5; Clc4-1; Clc5; Clcn4-1; D930009B12Rik; DXImx42e; Sfc13; T25545
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228988 representing NM_001243762
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCATGTGGCAGGGAGCCATGGATAACAGAGGCTTTTCATCAGGGGAGTTTTAGTAGCTTCCAGAGCA
GCTCTAGTGATGAAGACTTGATGGACATCCCAGGGACTGCTATGGACTTCTCTATGAGAGATGACGTGCC
GCCTTTAGATCGAGAAATAGAAGGGAACAAGTCATACAATGGTGGTGAATAGGCTCTTCAAATAGAGTC
ATGGACTTCTGGAGGAGCCAATCCCTGGTGTAGGGACCTATGATGATTTCAACACAATTGATTGGGTGA
GAGAGAAATCTCGAGACCGAGATAGGCACCGAGAGATTACCAATAAAAGCAAAGAGTCAACATGGGCCTT
AATTCACAGTGTGAGCGATGCTTCTCTGGTTGGTTGTTAATGCTCCTTATTGGCCTTTTATCAGTTCC
TTAGCTGGCCTGATAGACATCTCTGCTCACTGGATGACAGACTTAAAAGAAGGGATGTACAGGGGGGT
TCTGGTTAAACCATGAGCACTGTTGCTGGAATTCTGAGCATGTTACCTTTGAACACAGAGACAAATGTC
AGAGTGGAAATAGCTGGGCCAGCTCATCATCAATACAGATCAGGGAGCCTTGCCTACATAGTCAATTAC
TTCATGTACGTCCTCTGGGCTCTCTGTTTGTCTTCTTCTGCTGTATCTCTGTCAAGGCATTTGCACCTT
ATGCCTGTGGTTCTGGAATCCCTGAGATCAAACCATCCTGAGTGGTTTCATTATTAGAGGCTATCTGGG
TAAGTGGACCCTTGTATCAAACTATCACTTTGGTGTGGCGGTGCATCTGGCTTGAGCCTGGGCAAG
GAGGGCCCCCTGGTGCACGTGGCTTGTCTGTGGGAACATCTTGTGCCACTGCTTCAACAAATACCGGA
AGAATGAAGCCAAGCGGAGAGAGTCTTATCAGCTGCAGCGGCTGCCGGTGTATCTGTAGCCTTTGGGGC
CCCTATTGGTGGAGTATTATTCAGCCTGGAAGAGGTGAGTACTACTTTCCCTCAAACACTATGGCGT
TCTTTCTCGCTGCTCTGGTGGCAGCGTTCACACTCCGCTCCATCAATCCATTGGAACAGCCGCTTAG
TTCTGTTTTATGTGGAGTCCACACCCCGTGGCATCTCTTTGAGCTCGTGCCATTCACTGACTAGGCAT
ATTCGGTGGCCTCTGGGAGCTCTGTTTATCCGCACAAACATTTGCCTGGTGTGGAAGCGTAAAACACA
CAGTTGGCAAGTATCCTGTCGTCGAGGTAATCTGAGCTGTTCAATGACTGCGGCCTCCTGGACTC
ATGAATATACCCGGATGAGCACAAGTGAAGTCACTTTCTGAGCTGTTCAATGACTGCGGCCTCCTGGACTC
CTCCAAGCTCTGTGATTATGAGAACCCTTCAACACAAGCAAAGGCGGTGAGCTGCCTGACAGACCTGCT
GGCGTGGGCATCTACAGTGCCATGTGGCAGCTGGCTCTGACACTCATACTGAAAATAGTCACTACTATAT
TCACCTTTGGCATGAAGATTCCTTCTGGTCTCTTATCCCAGCATGGCTGTGCGTGTATAGCAGGCCG
TCTTTTAGGAGTCGGAATGGAGCAACTGGCTTATTACCACCAGACTGGGCATCTTCAATAGCTGGTGT
AGTCAGGGAGCTGATTGTATCACCCCTGGCCTTTATGCCATGGTTGGGGCTGCTGCCTGCTTAGGTGGG
TGAAGTCCGATGACTGTTTCTTGTGTGATAATGTTTGAAGTACTGGTGGCCTGGAATATATTGTGCC
TCTGATGGCTGCAGTATGACAAGCAAGTGGGTGGCCGATGCTCTTGGGCGAGAGGGCATTATGATGCC
CACATCCGTCTCAATGGATACCCCTTCTTGAAGCCAAAGAAGAAATTTGCTCATAAGACTCTGGCAATGG
ATGTGATGAAGCCCCGGAGAAATGACCCCTTGTGACTGTCTTACTCAGGACAGTATGACTGTGGAGGA
TGTCGAGACCATAATCAGCGAAACCAGTACAGTGGCTTCCGGTGGTAGTGTCCCGAGAGTCGCAAGA
CTTGTAGGCTTTGTTCTTGAAGAGATCTCATTATTTCAATTGAAATGCTCGGAAGAAACAGGACGGGG
TTGTGAGCACTTCCATCATTTATTTACGGAGCATTGCTTCCATGCTCCATACACCCACCTACCT
GAAGCTTCGGAACATCCTGGACCTCAGCCCTTCACTGTGACAGACCTTACGCCAATGGAGATCGTGGTG
GACATCTCCGCAAGCTGGGCTGCGCCAGTGCCTGGTTACACACAACGGGCGCTTACTTGAATCATCA
CCAAAAAGGATGTGTTAAGCATATAGCACAGATGGCAAACCAAGACCCTGATTCCATTCTTCAACTA
G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001243762
Insert Size: 2451 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001243762.1, NP_001230691.1</u>
RefSeq Size:	4170 bp
RefSeq ORF:	2451 bp
Locus ID:	12728
UniProt ID:	<u>Q9WVD4</u>
Cytogenetics:	X 3.21 cM
Gene Summary:	<p>Proton-coupled chloride transporter. Functions as antiport system and exchanges chloride ions against protons. Important for normal acidification of the endosome lumen. May play an important role in renal tubular function (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) includes two alternate exons in the 5' UTR and 5' CDS, compared to variant 1. It encodes isoform 2, which is longer and has a distinct N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. The exon combination is inferred based on available transcript data and further supported by similar exon-intron structure of the related human gene, GeneID 1184.</p>