

Product datasheet for **RC226186**

Chloride Channel 5 (CLCN5) (NM_001127898) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chloride Channel 5 (CLCN5) (NM_001127898) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chloride Channel 5
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 »](#)

ORF Nucleotide Sequence:

>RC226186 representing NM_001127898
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCATGTGGCAGGGTCCATGGATAACAGAGGCTTTTCAGCAGGGGAGTTTTAGTAGCTTCCAGAACA
 GCTCCAGTGATGAAGACCTGATGGACATTCCAGCAACCGCTATGGATTTCTCCATGAGAGATGATGTTCC
 TCCCTTAGACCGAGAAGTAGGAGAGGACAAGTCGTACAATGGTGGAGGAATAGGTTCTTCAAATAGGATC
 ATGGACTTCTGGAGGAGCCAATCCCTGGTGTAGGGACCTATGATGATTTCAATACAATTGATTGGGTGA
 GAGAGAAGTCTCGAGACCGGGATAGGCACCGAGAGATTACCAATAAAAGCAAAGAGTCAACATGGGCCTT
 AATTCACAGTGTGAGTATGCTTTTCCGGCTGGTTGTTGATGCTCCTTATTGGGCTTTTATCAGGTTCCG
 TTAGCTGGTTTGTAGACATCTCTGCTCATTGGATGACAGACTTAAAAGAAGGTATATGCACAGGGGGAT
 TCTGGTTAAACCATGAACATTGTTGCTGGAACCTGAGCATGTCACCTTTGAAGAGAGAGACAAATGTC
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 TAAGTGGACTCTGGTTATCAAACCATCACCTTGGTGTGGCAGTGTCTGCTGGCTTGGCCTGGGCAAA
 GAGGGCCCTCTAGTGCACGTGGCTTGTCTGTGGGAACATCCTGTGCCACTGCTTCAACAAATACAGGA
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 ACCTATAGGTGGAGTATTATTCAGCCTTGAAGAGGTGAGTACTATTTTCCCCTCAAACATTGTGGCGT
 TCATTTTGTCTGCTTGGTGGCAGCATCACTCTACGCTCCATCAATCCATTGGGAACAGCCCGCTGG
 TACTATTTATGTGGAGTTTACACCCCCATGGCATCTCTTTGAGCTCGTGCCATTCATTCTGTGGCAT
 ATTTGGTGGTCTGTGGGAGCACTGTTTATCCGCACAAACATTGCCTGGTGTGGGAAGCGAAAGACCACC
 CAGTTGGCAAGTATCCTGTTATAGAGGTACTCGTGTGACAGCCATCACTGCCATCCTGGCTTTCCCCA
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 CTCCAAGCTCTGTGATTATGAGAACCGTTTCAACACAAGCAAAGGGGGTGAAGTGCCTGACAGACCGGCT
 GGCGTGGGAGTCTACAGTGAATGTGGCAGCTGGCTTAACTACTACTGAAAATTGTCATTACTATAT
 TCACCTTTGGCATGAAGATCCCTTCTGGCCTTTTATCCCTAGCATGGCTGTTGGTGTATAGCAGGTCCG
 ACTTCTAGGAGTAGGAATGGAACAGCTGGCTTATTACCACCAGGAATGGACCGTCTTCAATAGCTGGTGT
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 CACATCCGTCTCAATGGATACCCCTTTCTTGAAGCCAAAGAAGAGTTTGTCTATAAGACCCTGGCAATGG
 ATGTGATGAAACCCCGGAGAAATGATCCTTTGTTGACTGTCTTACTCAGGACAGTATGACTGTGGGAAGA
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 CTTGTGGGCTTTGTCTCCGAAGAGATCTATTATTTCAATTGAAAATGCTCGAAAGAAACAGGATGGGG
 TTGTTAGCACTTCCATCATTTATTTACGGAGCATTCTCTCCATTGCCACCATACTCCACCCACTCT
 AAAGCTTCGGAACATCCTCGATCTCAGCCCTTCACTGTGACTGACCTTACACCCATGGAGATCGTAGTG
 GATATTTTCCGAAAGCTGGGACTGCGGCAGTGCCTGGTTACACACAACGGGCGATTGCTTGAATCATT
 CCAAAAAGGATGTGTTAAAGCATATAGCACAGATGGCGAACCAAGATCCTGATTCCATTCTCTTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226186 representing NM_001127898
Red=Cloning site Green=Tags(s)

MAMWQGAMDNRGFQQGSFSSFNSSSDELDMDIPATAMDFSMRDDVPPLDREVGEDKSYNGGGIGSSNRI
MDFLEEPVPGVGTYYDFNTIDWVREKSRDRDRHREITNKSKESTWALIHSVSDAFSGWLLMLLIGLLSGS
LAGLIDISAHWMTDLKEGICTGGFWFNHEHCCWNSEHVTFEERDKCEWNSWSQLIISTDEGAFAYIVNY
FMYVLWALLFAFLAVSLVKVFAPYACGSGIPEIKTILSGFIIRGYLGKWTLVIKTITLVAVSSGLSLGK
EGPLVHVACCCGNILCHCFNKYRKNEAKRREVLAAAAAGVSVAFGAPIGGVLFSLSEVSYFPLKTLWR
SFFAALVAAFTLRSINPFGNSRLVLFYVEFHWPWHLFELVPFILLGIFGGLWGALFIRTNIAWCRKRKTT
QLGKYPVIEVLVVTAITAILAFPNEYTRMSTSELISELFNDCGLLDSSKLCDYENRFNTSKGGELPDRPA
GVGVYSAMWQLALTLILKIVITIFTFGMKIPSGLFIPSMVAGAIAGRLLGVGMEQLAYYHQEWTVFNSWC
SQGADCITPGLYAMVGAACLGGVTRMTVSLVVIMFELTGGLEYIVPLMAAAMTSKWVADALGREGIYDA
HIRLNGYPFLEAKEEFAHKTAMDVMKPRRNDPLLTVLTQDSMTVEDVETISETTYSGFVVVSRESQR
LVGFVLRRLIISIENARKKQDGVVSTSIYFTEHSPPLPPYTPPTLKLNRNILDLSPTVTDLTPMEIVV
DIFRKLGLRQCLVTHNGRLLGIITKKDVLKHIAQMANQDPDSILFN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001127898

ORF Size: 2448 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_001127898.2](#)

RefSeq ORF: 2451 bp

Locus ID: 1184

UniProt ID: [P51795](#)

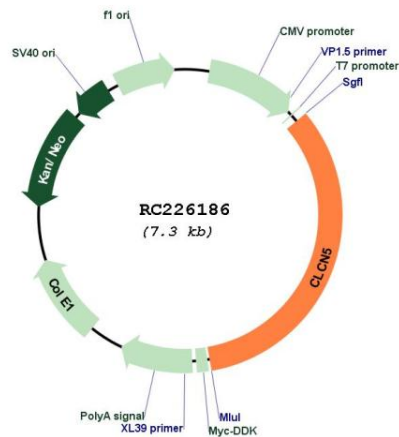
Cytogenetics: Xp11.23

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

MW: 90.6 kDa

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]

Product images:



Circular map for RC226186