

Recombinant Full Length Human CLCN5 Protein, GST-tagged

Cat. No. CLCN5-1995HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CLCN5 full-length ORF (NP_000075.1, 1 a.a. - 746 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	746 amino acids
Description	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]
Molecular Mass	109.5 kDa
AA Sequence	MDFLEELPIPGVGTYYDDFNTIDWVREKSRDRDRHREITNKSKESTWALIHVSDAFSG WLLMLLIGLLSGSLAGLIDISAHWMTDLKEGICTGGFWFNHEHCCWNSEHVTFEERD KCPEWNSWSQLIISTDEGAFAYIVNYFMYVLWALLFAFLAVSLVKVFAPYACGSGIPE IKTILSGFIIRGYLGKWTLVIKTITLVAVSSGLSLGKEGPLVHVACCCGNILCHCFNKY RKNEAKRREVLASAAAAAGVSVAFGAPIGGVLFSLEEVSYFFPLKTLWRSFFAALVAA FTLR SINPFGNSRLVLFYVEFHTPWHLFELVPFILLGIFGGLWGALFIRTNIAWCRKRK TTQLGKYPVIEVLVVTAILAFPNEYTRMSTSELISELFNDCGLLDSSKLCDYENRF

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NTSKGGELPDRPAGVGVYSAMWQLALTILKIVITIFTFGMKIPSGLFIPSMAGVAGIAG
 RLLGVGMEQLAYYHQEWTVFNSWCSQGADCITPGLYAMVGAAACLGGVTRMTVSL
 VVIMFELTGGLEYIVPLMAAAMTSKWVADALGREGIYDAHIRLNGYPFLEAKEEFAHK
 TLAMDVMKPRRNDPLLTVLTQDSMTVEDVETISETTYSGFVSVSRESQRLVGFVL
 RRDLIISIENARKKQDGVVSTSIIFYTEHSPPLPPYTPPTLKLRLNLDLSPFTVTDLTPM
 EIVVDIFRKLGLRQCLVTHNGRLLGIITKKDVLKHIAQMANQDPDSILFN

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CLCN5 chloride channel, voltage-sensitive 5 [Homo sapiens]

Official Symbol

CLCN5

Synonyms

CLCN5; chloride channel, voltage-sensitive 5; chloride channel 5 , nephrolithiasis 1 (X linked) , nephrolithiasis 2, X linked , NPHL1, NPHL2; H(+)/Cl(-) exchange transporter 5; ClC 5; CLC5; Dent disease; DENTS; hClC K2; hClC K2; XLRH; XRN; chloride channel 5; chloride channel protein 5; chloride transporter ClC-5; CLCK2; NPHL1; NPHL2; cIC-5; hClC-K2; hClC-K2

Gene ID

1184

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mRNA Refseq	NM_000084
Protein Refseq	NP_000075
MIM	300008
UniProt ID	P51795

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