

Product Information

MemDX™ Membrane Protein Human CLCN1 (Chloride voltage-gated channel 1) Full Length

Cat. No.: **MPC0480K**

This product is for research use only and is not intended for diagnostic use.

This product is a 108.6 kDa Human CLCN1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CLCN1

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

108.6 kDa

TMD

14

Sequence

MEQSRSQQRGGESWWGSDPQYQYMPFEHCTSYGLPSENGGLQHRLRKDA
GPRHNVHPTQIYGHHKEQFSDREQDIGMPKKTGSSSTVDSKDEDHYSKCQ
DCIHRLGQVVRRLKGEDGIFLVLLGLLMALVSWMDYVSAKSLQAYKWSY
AQMQLPSLPLQLVWVTFPLVLILFSALFCHLISPQAVGSGIPEMKTILRG
VVLKEYLTMKAFVAKVVALTAGLGSGIPVGKEGPFVHIASICAAVLSKFM
SVFCGVYEQPYYSIDILTVGCAVVGCCFGTPLGGVLFSEVTSTYFAVR
NYWRGFFAATFSAFVFRVLAVWNKDAVTITALFRTNFRMDFPDLKELPA
FAAIGICCGLLGAVFVYLHRQVMLGVRKHKALSQFLAKHRLLYPGIVTFV
IASFTFPPGMGQFMAGELMPREAI STLFDNNTWVKHAGDPESLGQSAVWI
HPRVNVVHIFLFFVMKFWMSIVATTMPIPCGGFMPVFLGAAGFRLVGE
IMAMLFDPDILFDDIYKILPGGYAVIGAAALTGAVSHTVSTAVICFELT
GQIAHILPMMVAVILANMVAQSLQPSLYDSIIQVKKLPYLPDLGWNQLSK
YTIFVEDIMVRDVKFVSASYTYGELRTLQT TTVKTLPLVDSKDSMILLG
SVERSELQALLQRHLCPPERLRAAQEMARKLSELPYDGKARLAGEGLPGA
PPGRPESFAFVDEDEDEDLSGKSELPPSLALHPSTTAPLSPEEPNGPLPG
HKQQPEAPEPAGQRPSIFQSLLHCLLGRARPTKKKTTQDSTDLDVNMSPE
EIEAWEQEQLSQPVCFDSCCIDQSPFQLVEQTTLHKHTLFSLLGLHLAY
VTSMGKLRGVLAL EELQKAI EGH TKSGVQLRPPLASFRNTTSTRKSTGAP
PSSAENWNLPEDRPGATGTGDVIAASPETPVSPSPSEPPLSLAPGKVEGE
LEEL ELVESPGLEELADILQGPSLRSTDEEDEDELIL

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CLCN1

Full Name

Chloride voltage-gated channel 1

Introduction

The CLCN family of voltage-dependent chloride channel genes comprises nine members (CLCN1-7, Ka and Kb) which demonstrate quite diverse functional characteristics while sharing significant sequence homology. The protein encoded by this gene regulates the electric excitability of the skeletal muscle membrane. Mutations in this gene cause two forms of inherited human muscle disorders: recessive generalized myotonia congenita (Becker) and dominant myotonia (Thomsen). Alternative splicing results in multiple transcript variants.

Alternative Names

CLC1; chloride channel protein 1; chloride channel 1, skeletal muscle; chloride channel protein, skeletal muscle; chloride channel, voltage-sensitive 1; cLC-1; CLCN1; Chloride voltage-gated channel 1

Gene ID

[1180](#)

UniProt ID

[P35523](#)