

Recombinant Human CLCN1 Protein, GST-tagged

Cat. No. CLCN1-1414H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CLCN1 full-length ORF (AA111587.1, 1 a.a. - 988 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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. [provided by RefSeq, Mar 2012]
Molecular Mass	135.63 kDa
AA Sequence	MEQSRSQQRGGEQSWWGSDPQYQYMPFEHCTSYGLPSENGGLQHRLRKDAGPR HNHPTQIYGGHHKEQFSDREQDIGMPKKTGSSSTVDSKDEHDHYSKCQDCIHRLGQV VRRKLGEDGIFLVLLGLLMALVSWMDYVSAKSLQAYKWSYAQMQLPLQFLVWV TFPLVLILFSALFCHLISPQAVGSGIPEMKTILRGVVLKEYLTMKAFVAKVVALTAGLG SGIPVGKEGPFVHIASICA AVL SKFMSVFCGVYEQPYYYSDILTVGCAVGVGCCFGT PLGGVLFSIEVTSTYFAVRNYWRGFFAATFSAFVFRVLAVWNKDAVTITALFRTNFR

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MDFFPDLKELPAFAAIGICCGLLGAVFVYLHRQVMLGVRKHKALSQFLAKHRLLYPGI
VTFVIASFTFPPGMGQFMAGELMPREAISTLFDNNTWVKHAGDPESLGQSAVWIHP
RVNVVIIIFFVMKFWMSIVATTMPIPCGGFMPVFLGAAFGRLVGEIMAMLPDGL
FDDIYKILPGGYAVIGAAALTGAVSHTVSTAVICFELTGQIAHILPMMVAVILANMVAQ
SLQPSLYDSIIQVKKLPYLPDLGWNQLSKYTIFVEDIMVRDVKFVSASYTYGELRTLQ
TTTVKTLPLVDSKDSMILLGSVERSELQALLQRHLCPERRLRAAQEMARKLSELPYD
GKARLAGEGLPGAPPGRPESFAFVDEDEDEDLSGKSELPPSLALHPSTTAPLSPEE
PNGPLPGHKQQPEAPEPAGQRPSIFQSLLHCLLGRARPTKKKTTQDSTDLVDNMSP
EEIEAWEQEQLSQPVCFDSCCIDQSPFQLVEQTTLHKHTLFSLLGLHLAYVTSMGK
LRGVLAEELQKAIEGHTKSGVQLRPPLASFRNTTSTRKSTGAPPSSAENWNLPEDR
PGATGTGDVIAASPETVPSPSPPEPPLSLAPGKVEGELEELVESPGLEEEELADILQ
GPSLRSTDEEDEDELIL

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**

CLCN1 chloride channel, voltage-sensitive 1 [Homo sapiens]

Official Symbol

CLCN1

Synonyms

CLCN1; chloride channel, voltage-sensitive 1; chloride channel 1, skeletal muscle;

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chloride channel protein 1; CLC 1; CLC1; Thomsen disease; autosomal dominant; cLC-1; chloride channel protein, skeletal muscle; MGC138361; MGC142055;

Gene ID 1180

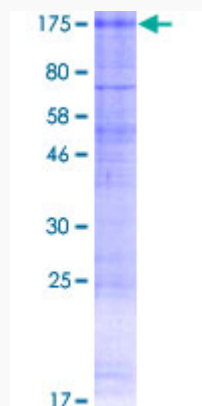
mRNA Refseq NM_000083

Protein Refseq NP_000074

MIM 118425

UniProt ID P35523

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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