

# Recombinant Full Length Human CLCN1 Protein, GST-tagged

**Cat. No.** CLCN1-1965HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CLCN1 full-length ORF ( AAI11587.1, 1 a.a. - 988 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	988 amino acids
<b>Description</b>	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]
<b>Molecular Mass</b>	135.63 kDa
<b>AA Sequence</b>	MEQSRSQQRGGEQSWWGSDPQYQYMPFEHCTSYGLPSENGGLQHRLRKDAGPR HNVHPTQIYGHHKEQFSDREQDIGMPKKTGSSSTVDSKDEDHYSKCQDCIHRLGQV VRRKLGEDGIFLVLLGLLMALVSWSDYVSAKSLQAYKWSYAQMQLPLQFLVWV TFPLVLILFSALFCHLISPQAVGSGIPEMKTILRGVVLKEYLTMKAFVAKVVALTAGLG SGIPVGKEGPFVHIASICAAVLSKFMSVFCGVYEQPYYSIDILTVGCAVGVGCCFGT

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PLGGVLFSEVSTSTYFAVRNYWRGFFAATFSAFVFRVLAVWNKDAVTITALFRTNFR  
MDFPFDLKEPAAFAAIGICCGLLGAVFVYLHRQVMLGVRKHKALSQFLAKHRLLYPGI  
VTFVIASFTFPPGMGQFMAGELMPREAISTLFDNNTWVKHAGDPESLGQSASVWIHP  
RVNVVHIIFFVMKFWMSIVATTMPIPCGGFMPVFLGAAFGRLVGEIMAMLPDGL  
FDDIYKILPGGYAVIGAAALTGAVSHTVSTAVICFELTGQIAHILPMMVAVILANMVAQ  
SLQPSLYDSIIQVKKLPYLPDLGWNQLSKYTIFVEDIMVRDVKFVSASYTYGELRLLQ  
TTTVKTLPLVDSKDSMILLGSVERSELQALLQRHLCPERRLRAAQEMARKLSELPYD  
GKARLAGEGLPGAPPGRPESFAFVDEDEDEDLSGKSELPPSLALHPSTTAPLSPEE  
PNGPLPGHKQQPEAPEPAGQRPSIFQSLHCLLGRARPTKKKTTQDSTDLVDNMSP  
EEIEAWEQEQLSQPVCFDSCCIDQSPFQLVEQTTLHKHTLFSLLGLHLAYVTSMGK  
LRGVLALEELQKAIEGHTKSGVQLRPPLASFRNTTSTRKSTGAPPSSAENWNLPEDR  
PGATGTGDVIAASPETPVSPSPPEPPLSLAPGKVEGELEELVESPGLEEELADILQ  
GPSLRSTDEEDEDELIL

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	CLCN1 chloride channel, voltage-sensitive 1 [ Homo sapiens ]
<b>Official Symbol</b>	CLCN1



<b>Synonyms</b>	CLCN1; chloride channel, voltage-sensitive 1; chloride channel 1, skeletal muscle; chloride channel protein 1; CIC 1; CLC1; Thomsen disease; autosomal dominant; cIC-1; chloride channel protein, skeletal muscle; MGC138361; MGC142055
<b>Gene ID</b>	1180
<b>mRNA Refseq</b>	NM_000083
<b>Protein Refseq</b>	NP_000074
<b>MIM</b>	118425
<b>UniProt ID</b>	P35523

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