

Product datasheet for **MG210742**

Clcn7 (NM_011930) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn7 (NM_011930) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clcn7
Synonyms:	CIC-7; D17Wsu51e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210742 representing NM_011930
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAACGCTCTAAGAAAGTGTCTTGGTCCGGCCGAGATCGCGATGATGAGGAGGGGGCCCACTGC
 TTCGAAGGACAGGGCAGCCTGACGAGGAGACGCCGCTGCTGAACGGAGCTGGGCCGGGCGCGCCAGTC
 TCATTCTGCACTGTTCCGAATCGGACAGATGAACAACGTGGAGCTGGATGACGAGCTCCTGGACCCGGAA
 GTCGATCCTCCTCACACCTTCCCAAGGAGATTCCACACAACGAGAAGCTCCTCTCCCTCAAGTATGAGA
 GCCTGGACTATGACAACAGCGAGAATCAGCTCTTCTGGAGGAGGAAAGACGAATCAACCACACGGCTTT
 CCGGACAGTGGAGATCAAGCGTGGGTTATCTGTGCCCTCATTGGAATCCTCACAGGCCTAGTAGCCTGC
 TTCATTGACATTGATGGAGAACCTGGCAGGCCTCAAGTACCGCGTCATCAAGGACAACATTGACAAGT
 TCACAGAGAAGGGCGGCCTGTCTTCTCCCTCCTGCTGTGGGCCACGCTGAACTCTGCCTTCGTAAGTCT
 GGGGTCTGTGATCGTGGCCTTCATAGAGCCTGTTGCTGCTGGCAGCGGAATCCCTCAGATCAAGTCTTC
 CTAATGGGGTGAAGATCCCCACGTGGTGGCCTCAAGACGCTGGTGTATCAAGGTGTCCGGCGTATTC
 TGCTGTGGTAGGGGACTGGCTGTGGAAAGGAAGGGCCAATGATCCACTCAGGATCCGTGATAGCTGC
 AGGGATTTACAGGGAAGGTCAACATCACTCAAGCGAGATTTCAAGATCTTTGAATATTTCCGCAGAGAT
 ACAGAGAAGCGGGATTTTGTCTCAGCTGGAGCTGCAGCTGGTGTATCTGCTGCATTTGGAGCCCTGTGG
 GTGGGGTCTGTTTAGCTTGAAGAGGGGCGCCTCCTTCTGGAATCAGTTCCTGACTTGGAGAATTTTCTT
 TGCTTCCATGATTTCCACCTTACATTGAATTTGTTCTGAGCATCTACCATGGAATATGTGGGACCTG
 TCCAGCCCTGGCCTATAAATTTGGAAGATTTGACTCAGAGAAAATGGCCTACACCATCCATGAGATTC
 CAGCTTTCATCGCCATGGGTGTGGTGGGTCATTCTTGGAGTGTGTTCAATGCCTTGAATTAAGTGGCT
 AACCATGTTTTCGAATCAGGTACATCCACCGCCCTGCCTCCAAGTGATTGAGGCCATGCTGGTGGCTGCT
 GTCACAGCAACAGTTGCGTTTGTCTTACTCGTCTCGAGATTGCCAACCCCTGCAGGGGAGCTCCA
 TGTCTACCCACTCCAGCTCTTCTGTGCAGATGGCGAATAACAACCTCCATGGCCGCAGCCTTCTTTAACAC
 CCCTGAGAAGAGCGTTGTGAGCCTGTTCCATGACCCACCAGGCTCCTATAATCCCATGACTCTCGGCCTG
 TTTACCCTGGTCTACTTCTTCTGGCCTGCTGGACCTATGGCCTCACAGTATCTGCTGGTGTCTTCATCC
 CATCCCTGCTCATTGGGGTGCCTGGGGCCGACTCTTTGGCATCTCCCTGTCTACCTCACAGGGGCAGC
 GATCTGGGCAGATCCGGTAAATACGCCCTGATGGGAGCTGCTGCTCAGCTTGGTGGGATCGTGAGAATG
 ACCCTTAGCCTGACAGTCATCATGATGGAGGCCACCAGCAACGTGACCTACGGTTTCCCCATCATGTTGG
 TGCTGATGACTGCCAAGATTGTGGGTGATGTTTTATTGAGGGCCTCTATGACATGCACATCCAGCTGCA
 GAGTGTACCCCTTCTACTGGAAGCCCGGTACCTCACACTCGCTCACGGCCAGGGAAGTAATGAGC
 ACACCTGTGACCTGCCTGAGGAGGCGAGAGAAGGTTGGCATCATCGTGGATGTCCCTAAGCGACACAGCGT
 CTAATCACAACGGATTCCCTGTGGTGGAGGATGTAGGAGACCCAGCCAGCCAGGCTCCAAGGCTTGAT
 CCTGCGTTCCCAGCTTATCGTCTCTTGAAGCATAAAGGTGTTTGTGGAGAGGTCCAACATGGGTTTGGTG
 CAGCGGCGACTGAGGCTGAAGGACTTCCGAGATGCCTATCCACGCTTCCCCCAATCCAGTCCATTGATG
 TATCCCAGGATGAGCGTGAATGCACCATGGACCTTCTGAATTCATGAACCTTCTCCCTACACTGTGCC
 TCAGGAGGCATCTTCTCGAGTGTTCAGCTTCCGGGCTCTGGGCCTGAGGCACCTGGTAGTAGTA
 GACAACCACAATCAGGTGGTGGGCTGGTGACCAAGGAGACCTAGCAAGATACCGCCTAGGAAAGGGAG
 GCCTAGAAGAGCTTTCGCTGGCCAGACG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210742 representing NM_011930
Red=Cloning site Green=Tags(s)

MANVSKKVSWSGRDRDDEEGAPLLRRTGQPDEETPLLNAGAGPGARQSHSALFRIGQMNNVELDDELLDPE
VDPPTHFPKEIPHNEKLLSLKYESLDYDENSEQLFLEEERRINHTAFRTVEIKRWVICALIGILTGLVAC
FIDIVVENLAGLKYRVIKDNIDKFTEKGLSFSLLLWATLNSAFVLVGSVIVAFIEPVAAGSGIPQIKCF
LNGVKIPHVRLKTLVIKVSIVL SVVGGGLAVGKEGPMIHSGSVIAAGISQGRSTSLKRDFKIFEYFRRD
TEKRDFVSAGAAAGVSAAFGAPVGGVLFLEEGASFVNQFLTWRIFFA SMISTFTLNFVLSIYHGNMWDL
SSPGLINFRFDSEKMAYTIHEIPVFIAMGVVGGILGAVFNALNYWLT MFRIRYIHRPCLQVIEAMLVAA
VTATVAFVLIYSSRDCQPLQGSSMSYPLQLFCADGEYNSMAAAFFNTPEKSVVSLFHDPPGSYNPMTLGL
FTLVYFFLACWYGLTVSAGVFI PSLLIGAAWGRLFGISLSYLTGAAIWADPGKYALMGAAAQLGGIVRM
TSLTVMMEATSNVTYGFPIMLVMTAKIVGDVFI EGLYDMHIQLQSVPLHWEAPVTSLSLTAREVMS
TPVTCLRRREKVGIIVDVLSDTASNHNHGFVVEDVGDTPARLQGLILRSQLIVLLKHKVVERS NMGLV
QRRRLRLKDFRDAYPRFPIQSIHVSQDERECTMDLSEFMNPSPTYVPQEASLPRVFKLFRALGLRHLVVV
DNHNQVVGLVTRKDLARYRLGKGGLEELSLAQT

TRTRPLE - GFP Tag - V

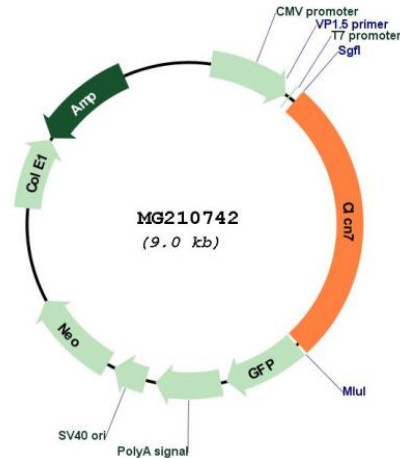
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_011930

ORF Size: 2409 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_011930.4](#), [NP_036060.1](#)

RefSeq Size: 4063 bp

RefSeq ORF: 2412 bp

Locus ID: 26373

UniProt ID: [O70496](#)

Cytogenetics: 17 12.53 cM

Gene Summary:

Slowly voltage-gated channel mediating the exchange of chloride ions against protons. Functions as antiporter and contributes to the acidification of the lysosome lumen. [UniProtKB/Swiss-Prot Function]