

Product datasheet for **MG224701**

Clcn6 (NM_011929) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn6 (NM_011929) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clcn6
Synonyms:	A1850629; Clc6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224701 representing NM_011929
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGGTGCAGGGGTCCGTGTGCTGCTGCCGGTGGTGTGCTGCTGCCGTGAACGGGAGAGCC
 GCACCCCGAGGAGCTGACCATCCTTGGGAGACACAGGAAGAAGAGGATGAGATTCTTCCAAGGAAAGA
 CTATGAGAGTCTGGACTATGACCCTGCATCAATGACCCTTACCTGGAGGTGTTGGAGACCATGGATAAT
 AAGAAAGGGCGAAGATACGAGGCGGTGAAGTGGATGGTGGTGTTCGCCATTGGCGTCTGTACGGGCTGG
 TGGGTCTCTTTGTGGACTTTCCGTGCGACTCTTACCCAACTGAAGTTCGGAGTGGTTCAAACGTCGGT
 GGAGGAATGCAGTCAGAAGGGCTGCCTGCCCTGTCCCTCCTGGAGCTCCTGGGCTTTAACTTGACCTTT
 GTCTTCTGGCAAGCCTTCTGTCTTGATAGAGCCAGTGGCAGCAGGTTCTGGAATCCCGAGATCAAGT
 GCTACCTGAATGGTGTGAAAGTCCAGGAATTGTCGGCTCCGGACCCTGCTCTGCAAAGCTTTGGGGT
 GCTGTTCAAGTGTCTGGAGGGCTCTTTGTGGGAAAGAAGGCCCATGATCCACAGTGGTGTGTGGTA
 GGAGCTGGCCTCCCTCAGTTCAGAGCATCTCCTTACGGAAGATCCAGTTAACTTCCCCTACTTCCGCA
 GCGACAGAGACAAGCGTGACTTTGTGTCAGCGGGGCGAGCTGCTGGCGTTGCTGCAGCTTTTGGGGCCC
 TATAGGGGGCACCTTGTTCAGTCTGGAGGAGGGTTCATCCTTCTGGAACCGGGCTCACGTGAAAAGTG
 CTCTTCTGTTCCATGTCCGCCACCTTACCCTCAACTTCTCCGCTCTGGGATTCAGTTTGGAAAGTTGGG
 GTTCTTCCAGCTGCCTGGATTGCTGAAGTTGGTGAATTAAGTGTCTGACTCTGATAAAAAATGTCA
 TCTCTGGACAGCTATGGATTTGGGTTTCTTCGTCGTGATGGGGTTCATTGGGGCCCTCTGGGAGCCACA
 TTCAACTGTCTGAACAAGAGGCTTGCAAAGTACCGTATGCGCAACGTGCACCCGAAACCTAAGCTGTCA
 GAGTCTTAGAGAGCCTCTTGGTGTCCCTGGTGACCCTGTGGTGGTGTGGTGGTGGTGGTGGTGGTGGT
 AGAATGCCGACAGATGTCTTCCAGGAGTCAAACCGGTAATGGCTCATTCCAGCTCCAGGTCACATCAGAA
 GATGTGAATCAACTATCAAGGCTTTTTTCTGTCCCAATGACACTTACAATGACATGGCCCACTCTTCT
 TCAACTCCAGGAGTCTGCCATCCTGCAGCTCTTCCATCAGGATGGGACTTTCAGCCCCGTACCCTGGC
 CTTATTCTTATCCTCTATTTCTGCTCGCATGCTGGACTTTTGGCACATCTGTCCCCAGTGGCCTCTTC
 GTGCCCTCCCTGCTGTGTGGAGCAGCTTTGGACGTTTAGTTGCCAATGCTCTGAAAAGCTACATTGGAC
 TGGGCCACCTCTATTCTGGGACCTTGCCTGATTGGTGGCAGCTTCTTGGTGGGGTTGTAAGGAT
 GACCATCAGCCTCACAGTCATCCTGATCGAGTCTACAAATGAGATCACCTATGGGCTCCGATCATGGTC
 ACTCTGATGGTGGCCAAGTGGACTGGAGACTTGTCAACAAGGGCATTATGACGTCCATATTGGGCTGA
 GAGGTGTGCCTCTTCTGGAGTGGGAGACAGACGTGGAATGGACAAGCTGAGAGCCAGTGACATCATGGA
 GCCAACCTGACGTACGTCTACCCGCACACTCGCATCCAGTCTCTGGTGGAGCATCCTGCGCACTACGGTC
 CACCATGCCTTCCAGTGGTACGGAGAACCAGGGCAACGAGAAGGAGTTCATGAAGGGCAACCAGCTCA
 TAAGCAACAACATCAAGTTCAAGAAATCCAGTATCCTGACCCGTGCTGGTGGAGCAGCGCAAGCGGGCCA
 GTCCATGAAGTCGTACCCTTCCAGCGAGCTGCGCAACGTGTGTGATGAGCATGTGGCTTCTGAGGAGCCG
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 ACCAGTCCCCGAGTGAAGACTGGACCATGGAGGAGCGTTTCCGTCCGCTGACCTTTCACGGCCTTGTCT
 CGCTCTCAGCTTGTACCCTGCTTGTCCGAGGAGTGTGCTATTGCGAAAGTCAGTCCAGTGGCAGCCAA
 CCACGTCTTTCTTACGCTGAGATGGCTGAGGACTACCCGCGATACCCGGACATACATGACCTGGACCTCA
 CACTGCTGAATCCCGAATGATTGTGGATGTACCCCATATATGAATCCTTACCATTACCCTGCTCCCC
 CAACACCCATGTTTCTCAAGTGTCAACCTGTTTCAAGACCATGGGCTGCGCCACTTGCCTGTGGTGAAT
 GCAGTAGGAGAGATCGTGGGGATCATTACAGGCACAACCTGACAATGAATTCCTGCAGGCCCGGCTGC
 GGCAGCATTACCAGACCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG224701 representing NM_011929
 Red=Cloning site Green=Tags(s)

MAGCRGSVCCCRWCCCGERESRTPEELTILGETQEEDEILPRKDYESLDYDRCINDPYLEVTMDN
 KKGRRYEAVKWMVFAIGVCTGLVGLFVDFSVRLFQLKFGVVQTSVEECSQKGLALSLELLGFNLTF
 VFLASLLVLIIEPVAAGSGIPEIKCYLNGVKVPGIVRLRLLCKVFGVLFVSGGLFVKGEGPMIHS
 GAVV GAGLPQFQSI SLRKI QFNFPYFRSDRDKRDFVSAGAAAGVAAAFGAPIGGTLFSL
 EEGSSFWNQGLTWKV LFCMSATFTLNFFRSGIQFGSWGSQLPGLLNFGGEFKCSDSDKKCHLWT
 AMDLGFVVMGVIGLLGAT FNCLNKRLAKYMRNVHPKPLVRVLESLLVSLVTTVVVVFVASMVL
 GECRQMSSTSQTGNGSFQLQVTSE DVNSTIKAFFCPNDTYNDMATLFFNSQESAILQLFHQD
 GTFSPVTLALFFILYFLLACWTFGTSVPSGLF VPSLLCGAAFGRLVANVLKSYIGLGHLYS
 GTFALIGAAAFGGVVRMTISLTVIL IESTNEITYGLPIMV TLMVAKWTGDLFNKGIYDVH
 IGLRGVPLLEWETDVEMDKL RASDIMEPNLTYYVPHTRIQSLVSI LRTTV HHAFFVVTEN
 RGNKEF MKGNQLISNNIKFKKSSIL TRAGEQRKRQSMKSYPSSEL RNVCEHVA SEEP
 AEKEDLLQMLERRYTPPNLYPDQSPSEDWTMEERFRPLTFHGLVLRSQLVTLVLRGVCYSES
 QSASQ PRLSYAEMAEDYPRYPDIDLDLTLNPRMIVDVTYPMNPSPTVSPNTHVSQVFNLFRT
 MGLRHLPVVN AVGEIVGIITRHNLTFELQARLRQHYQTL

TRTRPLE - GFP Tag - V

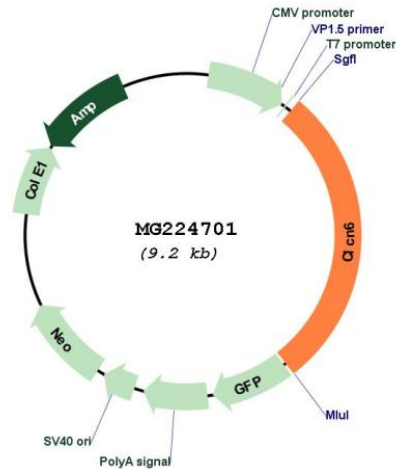
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011929

ORF Size: 2610 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_011929.3](#), [NP_036059.1](#)

RefSeq Size: 2910 bp

RefSeq ORF: 2613 bp

Locus ID: 26372

UniProt ID: [O35454](#)

Cytogenetics: 4 78.67 cM

Gene Summary: This gene encodes a member of the ClC chloride channel and transporter family of proteins. The encoded protein may function as a vesicular Cl⁻/H⁺ antiporter. Homozygous knockout mice exhibit decreased pain sensitivity, behavioral abnormalities and features of lysosomal storage disease. [provided by RefSeq, Aug 2015]