

Product datasheet for **MG223499**

Clcn3 (NM_007711) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn3 (NM_007711) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clcn3
Synonyms:	Clc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223499 representing NM_007711
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGCTTCTTCTGATCCCTATTTGCCCTTATGACGGGGGAGGAGACAGTATCCCTTGAGAGAATTAC
 ATAAAAGAGGAACTCATTATACAATGACAAATGGAGGCAGCATTAAATAGCTCTACACACTTGCTGGATCT
 TTTGGATGAGCCTATCCCAGGTGTCGGTACCTACGATGATTTCCATACTATTGACTGGGTGCGAGAGAAG
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 GTCTGTATGACGCCTGGTCAGGATGGCTTGTGTACTGACGGGACTGGCATCAGGGGCACTAGCTGG
 ATTGATAGACATTGCTGCTGACTGGATGACTGACCTGAAGGAGGGCATCTGCCTCAGTGCATTGTGGTAC
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 GGCCTCTGGAATCCAGAGATTAATACTATTTTGGTGGATTTATCATCAGAGGATACTTGGGAAAATGGA
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 CCTGGTACATGTTGCCTGCTGTGTGAAACATCTTTTCTACCTCTTTCCAAAGTATAGCACCAATGAA
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 TGCTGCTTTGGTGGCAGCATTGTTTTGAGATCCATCAATCCATTTGGTAACAGCCGTCTGGTCTCTTT
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 GGCTTTGGGAGCTTTTTTATTAGGGCAATATTGCCTGGTGTGTCGACGCAAGTCCACCAATTTGG
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 CTTTCGAAAGCTTGGTCTGAGGCAGTGCCTTGTAACTCACAACGGACGCCTCCTTGGCATTATAACAAAA
 AAAGATATCCTCCGTATATGGCCAGACGGCAACCAAGACCCGCTTCAATAATGTTCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223499 representing NM_007711
 Red=Cloning site Green=Tags(s)

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MDASSDPYLPYDGGGDSIPLRELHKRGTHYMTNGGSINSSTHLLDLLDEPIPGVGTYYDFHTIDWVREK
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NHEQCCWGSNETTFEERDKCPQWKTWAEIIIGQAEGPGFYIMNYIMYIFWALSFAFLAVSLVKVAFPYAC
GSGIPEIKTILSGFIIRGYLGKWTLMIKTITLVLAVASGLSLGKEGPLVHVACCCGNIFSYLFPKYSTNE
AKKREVLSAASAAGVSVAFGAPIGGVLFSLLEEVSYFPLKTLWRSFFAALVAAFVLRINPFGNSRLVLF
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TRLNNTSELIKELFTDCGPLESSSLCDYRNDMNASKIVDDIPDRPAGVGVYSAIWQLCLALIFKIIMTVFT
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RMTVSLVVIVFELTGGLEYIVPLMAAVMTSKWVGDAFGREGIYEAHIRLNGYPFLDAKEEFTHHTLAADV
MRPRSDPPLAVLTQDNMTVDDIENMINETS YNGFPVIMSKESQRLVGFALRRDLTIAIESARKKQEGIV
GSSRVCF AQHTPSLPAESPRPLKLR SILDMPFTVTDHTPMEIVVDIFRKLGLRQCLVTHNGRLLGIITK
KDILRHMAQTANQDPASIMFN
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



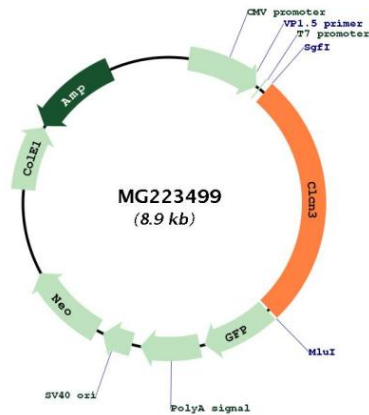
ACCN: NM_007711

ORF Size: 2280 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:	<ol style="list-style-type: none"> 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:	<u>NM_007711.3, NP_031737.1</u>
RefSeq Size:	5529 bp
RefSeq ORF:	2283 bp
Locus ID:	12725
UniProt ID:	<u>P51791</u>
Cytogenetics:	8 30.9 cM
Gene Summary:	Mediates the exchange of chloride ions against protons. Functions as antiporter and contributes to the acidification of the endosome and synaptic vesicle lumen, and may thereby affect vesicle trafficking and exocytosis. May play an important role in neuronal cell function through regulation of membrane excitability by protein kinase C. It could help neuronal cells to establish short-term memory.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MG223499