

Product datasheet for **MG225113**

Clcn3 (NM_173874) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn3 (NM_173874) 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:

>MG225113 representing NM_173874
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTCTGAGCAGCTGTTCCATAGAGGCTACTATAGAAACAGCTACAACAGCATAACCCAGCGGAGTA
 GCGATGAGGAGCTCCTAGATGGAGCAGGTGCCATTATGGACTTTCAGACTTCTGAAGATGACAATTTGTT
 AGACGGGGACACAGCAGCTGGAACCTATTATACAATGACAAATGGAGGCAGCATTAAATAGCTCTACACAC
 TTGCTGGATCTTTTGGATGAGCCTATCCAGGTGTGGTACCTACGATGATTTCCATACTATTGACTGGG
 TGCGAGAGAAGTGAAGGACAGAGAAAGGCACAGACGGATCAACAGTAAAAAAAAAGAATCAGCATGGGA
 AATGACAAAAAGTCTGTATGACGCCTGGTCAAGATGGCTGTTGTTTACACTGACGGGACTGGCATCAGGG
 GCACTAGCTGGATTGATAGACATTGCTGCTGACTGGATGACTGACCTGAAGGAGGGCATCTGCCTCAGTG
 CATTGTGGTACAACCATGAACAGTGTGTTGGGGCTCTAATGAGACAACGTTTGAAGAGAGGGATAAATG
 TCCACAGTGGAAAACATGGGCAGAGTTAATCATTGGCCAAGCAGAGGGCCCTGGATCTTATATCATGAAC
 TACATCATGTACATCTTTTGGGCTTTGAGTTTTGCCTTCTTGCAGTTTCTTTGGTGAAAGTATTTGCTC
 CATATGCCTGTGGCTCTGGAATTCAGAGATTAATACTATTTTGGAGTGGATTTATCATCAGAGGATACTT
 GGGAAAATGGACTTTAATGATTAATACTATCACGTTAGTGTGGCTGTGGCATCAGGTTTGGATTTAGGA
 AAAGAAGTCCCCTGGTACATGTTGCCTGCTGTGGAAACATCTTTTCTACCTCTTCCAAAGTATA
 GCACCAATGAAGCTAAAAAGAGGGAGGTGCTGTGAGCCGCTCAGCTGCTGGGGTTTCTGTGGCTTTTGG
 TGCACCGATCGGAGGAGTCTTTTTAGCTTGGAGGAGTTAGCTATTATTTTCTCTCAAACTTTATGG
 AGATCATTTTTGCTGCTTTGGTGGCAGCATTGTTTTGAGATCCATCAATCCATTTGGTAACAGCCGTC
 TGGTCTCTTTTATGTGGAGTACATACACCATGGTACCTTTTTGAAGTGTTCCTTTTATCTCTCTAGG
 GGTATTTGGAGGGCTTTGGGGAGCTTTTTTATTAGGGCAAATATTGCCTGGTGTGTCGTCGACGCAAGTCC
 ACCAAATTTGAAAGTATCCTGTTCTCGAAGTCATTATTGTTGCAGCCATTACTGCTGTGATAGCCTTCC
 CCAACCCATACACAAGGCTCAACACCAGTGAAGTATTAAGAGCTGTTTACAGATTGTGGGCCGTTGGA
 ATCCTCTCTCTGTGACTACAGAAATGACATGAATGCCAGTAAAATTGTTGACGATATCCTGACCGT
 CCAGCAGGCGTTGGAGTATATTCAGCTATCTGGCAGTTGTGCCTAGCGCTCATATTTAAATAATAATGA
 CAGTATCACTTTTGGTATCAAGGTCCCCTCAGGCTTGTATCCCCAGCATGGCCATTGGAGCCATTGC
 AGGGAGAATTGTGGGGATCGCTGTGGAGCAGCTGCCTACTATCACCCAGACTGGTTTATCTTCAAGGAG
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 CTGCTGATGTTATGAGACCTCGAAGAAGTGACCCTCCCTTAGCTGTTTTGACACAGGACAATATGACAGT
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 GCCATTAACACTGAGAAGCATCCTTGACATGAGCCCTTTTACAGTGACAGACCACCCCAATGGAGATT
 GTGGTAGACATCTTTCGAAAGCTTGGTCTGAGGCAGTGCCTTGTAACTACAACGGGATTGTCTTGGGGA
 TCATCACAAGAAGAACATTTTAGAGCATCTCGAGCAACTAAAGCAGCACGTGGAGCCCTTGACGCCTCC
 TTGGCATTATAACAAAAAAGATATCCTCCGTCATATGGCCAGACGGCAAACCAAGACCCCGCTTCAAT
 AATGTTCAACTGAGTCTGTAGATGAGGACAGAGAGGAGACAGAAGGAAGTTCGTTTGTGAATAGCA
 CAATTCTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG225113 representing NM_173874
 Red=Cloning site Green=Tags(s)

MESEQLFHRGYRNSYNSITSASSDEELLDGAGAIMDFQTSDDNLLDGDTAAGTHYMTNGGSINSSTH
 LLDLLDEPIPGVGTYYDFHTIDWVREKCKDRERHRRINSKKKESAWEMTKSLYDAWSGLVVTLTGLASG
 ALAGLIDIAADWMTDLKEGICLSALWYNHEQCCWGSNETTFEERDKCPQWKTWAEIIGQAEGPGSYIMN
 YIMYIFWALSFAFLAVSLVKVFAPYACGSGIPEIKTILSGFIIRGYLGKWTLMIKTITLVLAVASGLSLG
 KEGPLVHVACCCGNIFSYLFPKYSTNEAKKREVLSAASAAGVSVAFGAPIGGVLFLEEVSYYFPLKTLW
 RSFFAALVAAFVLRINPFGNSRLVLFYVEYHTPWYLFELFPFILLGVFGGLWGAFFIRANIAWCRRRKS
 TKFGKYPVLEVIIVAAITAVIAFPNPYTRLNLTSELIKELFTDCGPLESSSLCDYRNDMNASKIVDDIPDR
 PAGVGVYSAIWQLCLALIFKIIIMTVFTFGIKVPSGLFIPSAIGAIAGRIVGIAVEQLAYYHDDWFIFKE
 WCEVGADCITPGLYAMVGAACLGGVTRMTVSLVVIVFELTGGLEYIVPLMAAVMTSKWVGDAFGREGIY
 EAHIRLNGYPFLLDAKEEFTHHTLAADVMPRRSDPPLAVLTQDNMTVDDIENMINETSUNGFPVIMSKES
 QRLVGFALRRDLTIAIESARKKQEGIVGSSRVCF AQHTPSLPAESPRPLKLR SILDMSPTVTDHTPMEI
 VVDIFRKLGLRQCLVTHNGIVLGIITKKNILEHLEQLKQHV EPLTPPWHYNNKKRYPPSYGPDGKPRPRFN
 NVQLSPVDEEDREETEEVRLNSTIL

TRTRPLE - GFP Tag - V

Restriction Sites:

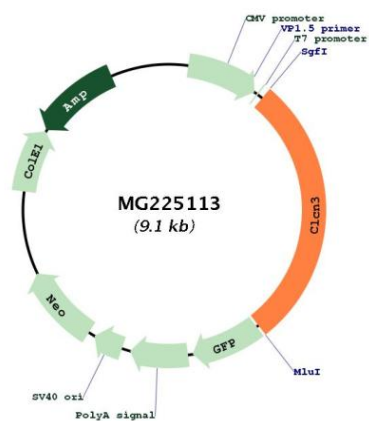
SgfI-MluI

Cloning Scheme:



ACCN:	NM_173874
ORF Size:	2598 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:	NM_173874.1 , NP_776299.1
RefSeq Size:	5781 bp
RefSeq ORF:	2601 bp
Locus ID:	12725
UniProt ID:	P51791
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 MG225113