

Product datasheet for **MC222251**

Clcn3 (NM_173874) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcn3 (NM_173874) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clcn3
Synonyms:	Clc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222251 representing NM_173874
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGTCTGAGCAGCTGTTCCATAGAGGCTACTATAGAAACAGCTACAACAGCATAACCCAGCGGAGTA
 GCGATGAGGAGCTCTAGATGGAGCAGGTGCCATTATGGACTTTTCAGACTTCTGAAGATGACAATTTGTT
 AGACGGGGACACAGCAGCTGGAACCTATTATACAATGACAAATGGAGGCAGCATTAAATAGCTCTACACAC
 TTGCTGGATCTTTGGATGAGCCTATCCAGGTGTGGTACCTACGATGATTTCCATACTATTGACTGGG
 TGCGAGAGAAGTGAAGGACAGAGAAAGGCACAGACGGATCAACAGTAAAAAAAAAAGAAATCAGCATGGGA
 AATGACAAAAAGTCTGTATGACGCCTGGTCAGGATGGCTGTTGTTTACACTGACGGGACTGGCATCAGGG
 GCACTAGCTGGATTGATAGACATTGCTGCTGACTGGATGACTGACCTGAAGGAGGGCATCTGCCTCAGTG
 CATTGTGGTACAACCATGAACAGTGTGTTGGGGCTCTAATGAGACAACGTTTGAAGAGAGGGATAAATG
 TCCACAGTGGAAAACATGGGCAGAGTTAATCATTGGCCAAGCAGAGGGCCCTGGATCTTATATCATGAAC
 TACATCATGTACATCTTTGGGCTTTGAGTTTTGCCTTTCTTGCAGTTTCTTTGGTGAAAGTATTGCTC
 CATATGCCTGTGGCTCTGGAATTCAGAGATTAATACTATTTTGGAGTGGATTTATCATCAGAGGATACTT
 GGGAAAATGGACTTTAATGATTAATACTATCACGTTAGTGTGGCTGTGGCATCAGGTTTGGATTTAGGA
 AAAGAAGTCCCCTGGTACATGTTGCCTGCTGTGGAAACATCTTTTCTACCTCTTTCCAAAGTATA
 GCACCAATGAAGCTAAAAAGAGGGAGGTGCTGTGAGCCGCTCAGCTGCTGGGGTTTCTGTGGCTTTTGG
 TGCACCGATCGGAGGAGTCTTTTTAGCTTGGAGGAGTTAGCTATTATTTTCTCTCAAACTTTATGG
 AGATCATTTTTGCTGCTTTGGTGGCAGCATTGTTTTGAGATCCATCAATCCATTTGGTAACAGCCGTC
 TGGTCTCTTTTATGTGGAGTACATACACCATGGTACCTTTTTGAACTGTTTCTTTTATCTCTCTGAG
 GGATTTGGAGGGCTTTGGGGAGCTTTTTTATTAGGGCAAATATTGCCTGGTGTGTCGTCGACGCAAGTCC
 ACCAAATTTGAAAGTATCCTGTTCTCGAAGTCATTATTGTTGCAGCCATTACTGCTGTGATAGCCTTCC
 CCAACCCATACACAAGGCTCAACACCAGTGAAGTATTAAGAGCTGTTTACAGATTGTGGGCCGTTGGA
 ATCCTCTCTCTGTGACTACAGAAATGACATGAATGCCAGTAAAATTGTTGACGATATCCTGACCGT
 CCAGCAGGCGTTGGAGTATATTCAGCTATCTGGCAGTTGTGCCTAGCGCTCATATTTAAAATAAATGA
 CAGTATCACTTTTGGTATCAAGGTCCCCTCAGGCTTGTATCCCCAGCATGGCCATTGGAGCCATTGC
 AGGGAGAATTGTGGGATCGCTGTGGAGCAGTTGCCTACTATCACACGACTGGTTTATCTCAAGGAG
 TGGTGTGAGGTTGGGGCTGACTGCATCACTCCCGGCTGTATGCCATGGTTGGGGCTGCTGCGTGTAG
 GTGGTGTGACAAGAATGACTGTGTCTCTGGTGGTTATTGTTTTGAACTTACTGGAGGCTTGAATATAT
 TGTTCCTTATGGCTGCAGTAATGACCAGTAAATGGGTTGGTGTGATGCCTTTGGTAGGGAAGGTATTTAT
 GAAGCACACATCCGACTAAATGGGTACCCTTTCTTGGATGCAAAAAGAAGAAATCACTCATACAACCTGG
 CTGCTGATGTTATGAGACCTCGAAGAAGTGACCCTCCCTAGCTGTTTTGACACAGGACAATATGACAGT
 AGATGACATAGAAAACATGATTAATGAAACCAGCTATAATGGCTTTCTGTTATAATGTCAAAAAGATCT
 CAGAGATTAGTGGGATTTGCCCTCAGAAGAGACCTGACTATTGCAATAGAAAAGTCCAGAAAAAACAAG
 AAGGGATTGTTGGCAGTTCTCGGGTGTGTTTTGCACAGCATACTCCATCTCTTCCAGCAGAAAGTCCAGC
 GCCATTAACACTGAGAAGCATCCTTGACATGAGCCCTTTTACAGTGACAGACCACCCCAATGGAGATT
 GTGGTAGACATCTTTCGAAAGCTTGGTCTGAGGCAGTGCCTTGTAACTACAACGGGATTGCTTGGGGA
 TCATCACAAGAAGAACATTTTAGAGCATCTCGAGCAACTAAAGCAGCACGTGGAGCCCTTGACGCCCTC
 TTGGCATTATAACAAAAAAGATATCCTCCGTCATATGGCCCAGACGGCAAACCAAGACCCCGCTTCAAT
 AATGTTCAACTGAGTCTGTAGATGAGGACAGAGAGGAGACAGAAGGAAGTTCGTTTGTGAATAGCA
 CAATTCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_173874
Insert Size: 2601 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<p>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]</p> <p>Transcript Variant: This variant (e) includes an alternate exon in the 3' coding region that causes a frameshift, compared to variant b. It encodes isoform e which is longer and has a distinct C-terminus, compared to isoform b. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>