

## Product datasheet for **MC221359**

### **Clcn3 (NM\_007711) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Clcn3 (NM_007711) 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:** >MC221359 representing NM\_007711  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACAAATGGAGGCAGCATTAAATAGCTCTACACACTTGTGGATCTTTGGATGAGCCTATCCCAGGTG  
 TCGGTACCTACGATGATTCCATACTATTGACTGGGTGCCGAGAGAAGTGTAAAGGACAGAGAAAGGCACAG  
 ACGGATCAACAGTAAAAAAAAAGAAATCAGCATGGGAAATGACAAAAAGTCTGTATGACGCCTGGTCAGGA  
 TGGCTTGTGTTACACTGACGGGACTGGCATCAGGGGCACTAGCTGGATTGATAGACATTGCTGCTGACT  
 GGATGACTGACCTGAAGGAGGGCATCTGCCTCAGTGCATTGTGGTACAACCATGAACAGTGTGTTGGGG  
 CTCTAATGAGACAACGTTTGAAGAGAGGGATAAATGTCCACAGTGGAAAACATGGGCAGAGTTAATCATT  
 GGCCAAGCAGAGGGCCCTGGATCTTATCATGAACTACATCATGTACATCTTTGGGCTTTGAGTTTTG  
 CCTTTCTGCAGTTTCTTTGGTAAAAGTATTTGCTCCATATGCCTGTGGCTCTGGAAATCCAGAGATTAA  
 AACTATTTGAGTGGATTATCATCAGAGGATACTTGGGAAAATGGACTTAAATGATTAACACTATCAGC  
 TTAGTGCCTGGCTGTGGCATCAGGTTTGTAGTTTAGGAAAAGAAAGTCCCCTGGTACATGTTGCCTGCCTGCT  
 GTGGAAAACATCTTTTCTACCTCTTTCCAAAGTATAGCACAATGAAGCTAAAAAGAGGGAGGTGCTGTC  
 AGCCGCCCTCAGCTGCTGGGGTTTCTGTGGCTTTTGGTGCACCGATCGGAGGAGTTCTTTTACGTTGGAG  
 GAGGTTAGCTATTATTTTCTCTCAAACTTTATGGAGATCATTTTTTGTGCTTTGGTGGCAGCATTG  
 TTTTGAGATCCATCAATCCATTTGGTAACAGCCGCTCTGGTCTCTTTTATGTGGAGTATCATACACCATG  
 GTACCTTTTTGAACTGTTTCTTTTATTCTCTAGGGGATTTGGAGGGCTTTGGGGAGCTTTTTTTATT  
 AGGGCAAATATTGCCTGGTGTGTCGACGCAAGTCCACCAAATTTGAAAAGTATCCTGTTCTCGAAGTCA  
 TTATTGTTGCAGCCATTACTGCTGTGATAGCCTTCCCCAACCCATACACAAGGCTCAACACCAGTGAAT  
 GATTAAGAGCTGTTTACAGATTGTGGCCGTTGGAATCCTCTCTCTGTGACTACAGAAATGACATG  
 AATGCCAGTAAAATTGTTGACGATATTCCTGACCGTCCAGCAGCGTTGGAGTATATTCAGCTATCTGGC  
 AGTTGTGCCTAGCGCTCATATTTAAAAAATAATGACAGTATTCATTTTGGTATCAAGTCCCCTCAGG  
 CTTGTTTATCCCCAGCATGGCCATTGGAGCCATTGCAGGGAGAATTGTGGGGATCGCTGTGGAGCAGCTT  
 GCCTACTATCACCAGACTGGTTTATCTTCAAGGAGTGGTGTGAGGTTGGGGCTGACTGCATCACTCCC  
 GGCTGTATGCCATGGTTGGGGCTGCTGCGTGCTTAGGTGGTGTGACAAGAATGACTGTGTCTCTGGTGGT  
 TATTGTTTTGAACTTACTGGAGGCTTGAATATATTGTTCTCTATGGCTGCAGTAATGACCAGTAAA  
 TGGGTTGGTGTGCTTTGGTAGGGAAGGTATTTATGAAGCACACATCCGACTAAATGGGTACCCTTTCT  
 TGGATGAAAAGAAGAATTCACCTATACAACCCTGGCTGCTGATGTTATGAGACCTCGAAGAAGTGACCC  
 TCCTTAGCTGTTTTGACACAGGACAATATGACAGTAGATGACATAGAAAACATGATTAATGAAACCAGC  
 TATAATGGCTTTCTGTTATAATGTCAAAAAGTCTCAGAGATTAGTGGGATTTGCCCTCAGAAGAGACC  
 TGACTATTGCAATAGAAAGTGCCAGAAAAAACAAGAAGGGATTGTTGGCAGTTCCTGGGTGTGTTTTGC  
 ACAGCATACTCCATCTCTCCAGCAGAAAGTCCACGGCCATTAACACTGAGAAGCATCCTTGACATGAGC  
 CCTTTTACAGTGACAGACCACACCCCAATGGAGATTGTGGTAGACATCTTCGAAAGCTTGGTCTGAGGC  
 AGTGCCTTGTAACTCACAAACGGACGCCTCCTTGGCATTATAACAAAAAAGATATCCTCCGTCATATGCC  
 CCAGACGGCAAACCAAGACCCCGCTTCAATAATGTTCAACT**GTA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_007711  
**Insert Size:** 2283 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007711.3</a> , <a href="#">NP_031737.1</a>
<b>RefSeq Size:</b>	5529 bp
<b>RefSeq ORF:</b>	2283 bp
<b>Locus ID:</b>	12725
<b>UniProt ID:</b>	<a href="#">P51791</a>
<b>Cytogenetics:</b>	8 30.9 cM
<b>Gene Summary:</b>	<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 (a) has multiple differences in the coding region and uses a downstream start codon, compared to variant b. It encodes isoform a, which is shorter than 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>