

## Product datasheet for **MC222507**

### **Clcn2 (NM\_009900) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Clcn2 (NM_009900) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clcn2
Synonyms:	AL118368; Clc-2; Clc2; nmf240
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222507 representing NM\_009900  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGTGCAACGGCTGCGGCGGCCGCGGCGGGGGAAGGGATGGAGCCTCGAGCGCTGC  
 AGTACGAGCAGACCTGATGTATGGCCGTACTCAGGAACCGGGCCTTTGCCAAAGAGGAAGCTGC  
 TCGTATTCGCTGGGAGGCCTGAGCCCTGGAAGGGTCCCCTTCTGCCCGGCTACCCAGAGCTCCTA  
 GAATATGGACAGAGCCGATGTGCCAGATGTCGATTTGTTCTGTACGCTGCCACAAGTTCCTGGTGTCCA  
 GGGTCGGTGAAGACTGGATCTTCTGGTCTGTTGGGGCTCCTCATGGCACTGGTCTGAGCTGGGCTATGGA  
 CTATGCCATCGTGTCTGTCTACAGGCTCAGCAATGGATGTCCCGGGCTTAAACACCAACATCTTACTC  
 CAGTACCTGGCTGGGTTACCTACCCCGTGGTCTCATCACTTTCTGTCTGGATTACCCAGATCTGG  
 CCCCACAGGCTGTGGGTCTGGCATCCCCGAAATGAAAACCATCCTTCGGGGAGTGGTGTGAAAGAATA  
 CCTCACCTCAAGACCTTTGTAGCTAAGGTCATTGGGCTAACCTGTGCCCTGGCAGTGGGATGCCCTT  
 GGCAAAGAGGGACCCCTTTGTGCACATTGCCAGCATGTGTGCCGCCCTTCTCAGCAAGTTCCTCTCCCTCT  
 TTGGGGTATCTATGAGCATGAGTCCCGGAACACGGAGATGCTAGCTGCTGCATGCGCAGTAGGAGTGGG  
 CTGCTGCTTTGCCGACCAATCGGAGGGTCTATTACGATTGAAGTACCTCCACCTTCTTCGCTGTT  
 AGGAACTACTGGCGGGCTTCTTTGCGGCCACCTTCAGTGCCTTCATCTTTCGGGTCTTGGCAGTGTGGA  
 ACCGTGATGAAGAAACATCACAGCTCTTTCAAACCTCGGTTCCGACTCGACTTCCCATTTGACCTGCA  
 AGAGCTGCCAGCCTTTGCTGTATTGGCATTGCTAGTGGCTTCGGGGAGCCCTTTTGTCTACCTGAAC  
 CGGAAGATTGTCCAGGTGATGCGGAAGCAAAAACCATCAACCGCTTCTCATGAGGAAACGGCTCTCT  
 TCCCGCACTGGTACTGTCTCATCTCACTCTGACTTCCCCCTGGCTTTGGACAGTTCATGGCCGG  
 ACAGCTCTCACAGAAGGAGACCCTAGTCACTCTGTTTGACAACCGGACGTGGGTCCGCCAGGGCCTGGTT  
 GAGGATCTAGAGTACCCAGCACTTACAGGCCTGGAGCCACCACGTGCCAATGTCTTCTTACTCTGG  
 TCATCTTCATCTCATGAAGTTCTGGATGTCTGCACTGGCTACCACTATCCAGTGCCTGTGGGCCTT  
 CATGCCTGCTTTGTCTATTGGAGCGCATTTGGGCGGCTGGTGGGCGAAAGCATGGCCGCTGGTTCCCA  
 GATGGGATTACACAGATAGCAGCACCTACCGAATTGTACCTGGAGGCTATGCTGTGGTGGGGCGGCTG  
 CACTCGCAGGAGCAGTGACACACAGTGTCCACAGCAGTATTGCTTTCGAGCTCACGGCCAGATCGC  
 TCACATCTGCCTGTATGATTGCTGTATCCTGGCTAATGCTGTGCCAGAGCCTGCAGCCATCGCTC  
 TATGACAGTATCATCCGCATCAAGAAGCTGCCCTACCTACCTGAGCTGGGCTGGGGCCGCCACCAGCAGT  
 ACCGGGTGCGAGTCGAGGACATCATGGTTCGGGATGTACCCATGTAGCCCTCAGCTGCATTTTCGGGA  
 CCTGCGGTTGGCACTGCACAGAACCAAGGGCCGTATGTTGGCCCTAGTGGAGTCTCTGAGTCCATGATC  
 TACTGGGATCCATCGAACGCTCACAGGTGGTAGCACTACTAGGAGCCAGCTGAGCCAGCGCGCAGGC  
 GGCAGCACATGCAAAAGCTAAGAAAAGCCAGCTGTCTCCACCGTCGGATCAGGAGAGCCCCCTAGCTC  
 CGAGACATCTATCCGCTTCCAGGTGAACACAGAGGACTCGGGCTTCTCTGGAGCCACGGGCAGACTCAC  
 AAGCCCCGAAGCCTGCTCTAAGAGAGGGCCAGCAACAGTACAAGCCTGCAGGAAGGTACCACAGGCA  
 ACATGGAGTCAGCAGGCATTGCCCTCAGAAGCCTCTTCTGTGGCAGTCCACCTCTGGAGGCAACATCAGA  
 ATTGAAAAGTCAGAATCCTGTGACAAGCGCAAGCTGAAGCGGGTCCGAATCTCCCTGGCAGTACTCA  
 GACCCGGAAGCCGAGATGAGTCTGAGGAGATCTTAGAGTGGGAAGAACAGCAGCTAGATGAGCCAGTCA  
 ACTTCAGTACTGCAAAAATCGACCCTGCCCTTCCAGCTGGTGGAGCGGACTTCTTTGCACAAGACCCA  
 CACCATCTTCTATTGCTGGGAGTGGACCATGCTTATGTCACCAGCATTGGCAGACTCATTGGGATTGTC  
 ACCCTAAAGGAGCTCCGGAAGGCCATTGAAGGCTCTGTACAGCACAGGGTGTAAAGTCAGGCCACCCC  
 TCGCCAGTTTCCGGGACAGTGCCACCAGCAGCAGTACACAGAGACCCTGAGGTGCATGCGCTCTGGGG  
 GCCAAGATCCCGCCACGGCCTCCACGAGAGGGTACCCCTCCGACAGTATGACAAGTCCAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_009900

<b>Insert Size:</b>	2727 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_009900.2</a> , <a href="#">NP_034030.2</a>
<b>RefSeq Size:</b>	3670 bp
<b>RefSeq ORF:</b>	2727 bp
<b>Locus ID:</b>	12724
<b>UniProt ID:</b>	<a href="#">Q9R0A1</a>
<b>Cytogenetics:</b>	16 12.5 cM
<b>Gene Summary:</b>	Voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume, membrane potential stabilization, signal transduction and transepithelial transport (By similarity). Involved in the regulation of aldosterone production. The opening of CLCN2 channels at hyperpolarized membrane potentials in the glomerulosa causes cell membrane depolarization, activation of voltage-gated Ca <sup>2+</sup> channels and increased expression of aldosterone synthase, the rate-limiting enzyme for aldosterone biosynthesis (By similarity).[UniProtKB/Swiss-Prot Function]