

## Product datasheet for MC206174

### Slc8a2 (BC058704) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a2 (BC058704) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc8a2
Synonyms:	Ncx2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC058704

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CTCTCCTCCCTCCTCCCTGCTCTCCCTCAGTCCCCGGCTCCTCTCCCTCTTTCTCCCTTTTCTCCTCGGG
CGGAGGCGCCACCGCGGGGCCAGCGGGACCAGCCCGCCGCGCAAGGCAGGACCTCACCACCCCAAT
GGCTCCCTTGGCTTTGATGGGGTTGTTCTCCTTCTGGGGTACCCCACTGCTTGGGGGAAGCCACTCCG
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GCTGCCAACCAGGTGTGCTGCTGCTGTGTGGAAACCGAGGACCATCGCTGGGCGACAAGTTGCACG
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AGTGGACGGCACGGCCCGTGGCGGTGGTGTACATTACGAGGATGCTTGTGGAGAGCTGGAGTTCGGCGAT
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TGCCCCAAAAAAGACATCCTTGGGGAACGGGGAGTGCTGCCACTCCTTGCACCTTAGGTGACCTGC
CACCTCACAGCCTTCTGCTTCCCTAAGTTATTTTTGCATTTTCTGTCCATTTGTGCATCAGACC
CATTACCCACGGCCCTTCTACCCCTTGCTCATCAGCATCACTTGATGTCCCTTCTCTGTGGTTTCTGTA
AAAAACTGCCATAAACTTTGAAATTCTGCCTGAAAAAAAAAAAAAAAAAAAAA
    
```

**Restriction Sites:**

Ascl-NotI

**ACCN:**

BC058704

**Insert Size:**

2766 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:**

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:** [BC058704](#), [AAH58704](#)

**RefSeq Size:** 4252 bp

**RefSeq ORF:** 2766 bp

**Locus ID:** 110891

**Cytogenetics:** 7 8.75 cM

**Gene Summary:** Mediates the electrogenic exchange of Ca(2+) against Na(+) ions across the cell membrane, and thereby contributes to the regulation of cytoplasmic Ca(2+) levels and Ca(2+)-dependent cellular processes. Contributes to cellular Ca(2+) homeostasis in excitable cells. Contributes to the rapid decrease of cytoplasmic Ca(2+) levels back to baseline after neuronal activation, and thereby contributes to modulate synaptic plasticity, learning and memory (PubMed:12818181). Plays a role in regulating urinary Ca(2+) and Na(+) excretion (PubMed:25498502).[UniProtKB/Swiss-Prot Function]