

## Product datasheet for **MR211188**

### Slc8a2 (NM\_148946) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a2 (NM_148946) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc8a2
Synonyms:	Ncx2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR211188 representing NM\_148946  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

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AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
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Protein Sequence: >MR211188 representing NM\_148946  
 Red=Cloning site Green=Tags(s)

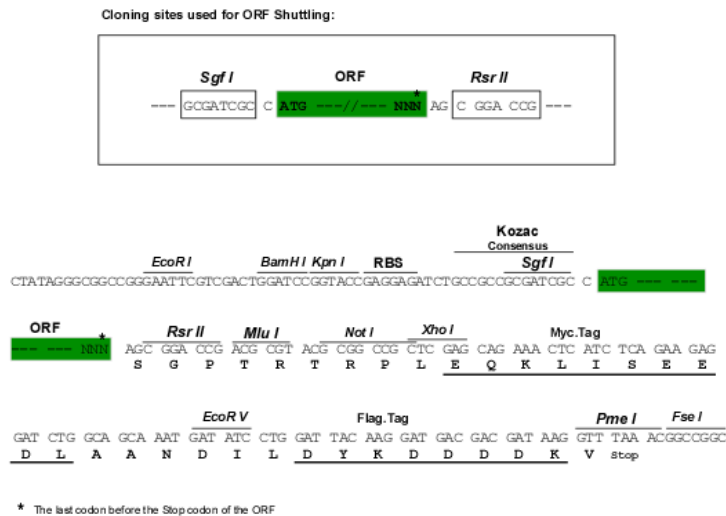
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 SLEAYCHIRGF

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9012\\_d11.zip](https://cdn.origene.com/chromatograms/mm9012_d11.zip)

Restriction Sites: SgfI-RsrII

Cloning Scheme:

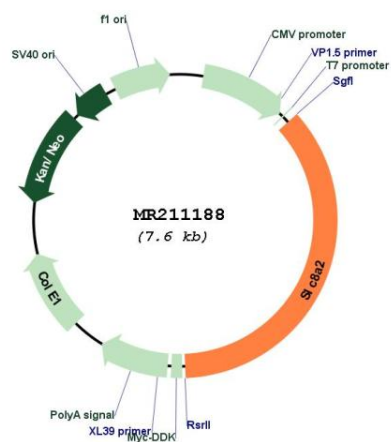


ACCN: NM\_148946

ORF Size: 2763 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_148946.3</a>
<b>RefSeq Size:</b>	4252 bp
<b>RefSeq ORF:</b>	2766 bp
<b>Locus ID:</b>	110891
<b>UniProt ID:</b>	<a href="#">Q8K596</a>
<b>Cytogenetics:</b>	7 8.75 cM
<b>MW:</b>	101.2 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211188