

Product datasheet for **RR214390**

Slc12a2 (NM_031798) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc12a2 (NM_031798) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc12a2
Synonyms: Bsc2; Nkcc1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214390 representing NM_031798
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCCGGGCCCGCGGCCCTCGTCTGGCGCCCCGCGGCCCGCCGGGATGGGACGCGCCGCTGA
 CTGCCCGCGGGTGGACCTGCCCGCACGGCCGTACTCTCCGGTCGAGAGGATGTACCGCTGGGAGCCA
 GGCCGGCGGGGGTGC CGGAGAGGGAACCCCGCCGCTGGCGATGGGCTGGGCAAACCTCTGGGCCCC
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TCTTAGCCATTTTGATTACGACAGTGGTTACATAGGAATCGCAGTGTCTGTAGTTCTTGTGTTGTCCG
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ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >RR214390 representing NM_031798
 Red=Cloning site Green=Tags(s)

MEPGPAAPSSGAPRPARDGDAPLTAAGVDLPGTAVLSGREDATAGSQAGGGVREGGTPAAGDGLGKPLGP
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 ASSSADDSLSDAAGVGGDGNVSSQNGGDTVLSEGSSLHSGGGSGHHQQYYYYDTHNTYYLRTFGHNTMD
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 LGPEFGGAIGLIFAFPNAVAVAMYVVGFAETVVELLKEHSILMIDEINDIRIIGAITVVVLLGISVAGME
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 GKINRIDHRRAMATLLSKFRIDFSDIMVLGDINTKPKKENIVAFDDMIEPYRLHEDDKEQDIADKMKED
 EPWRITDNELELYKTKTYRQIRLNELLKEHSSTANIIVMSLPVARKGAVSSALYMAWLEALSKDLLPILL
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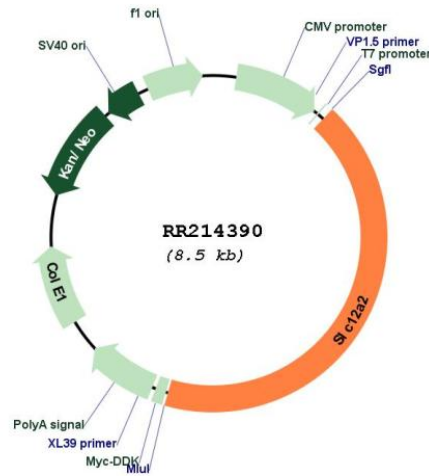
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031798

ORF Size: 3609 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_031798.1](#), [NP_113986.1](#)

RefSeq Size: 6402 bp

RefSeq ORF: 3612 bp

Locus ID: 83629

Cytogenetics: 18q12.1

MW: 130.4 kDa

Gene Summary: Na/K/2Cl cotransporter involved in maintenance of intracellular Cl(-) levels [RGD, Feb 2006]