

Product datasheet for **RR213347**

Slc24a3 (NM_053505) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc24a3 (NM_053505) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc24a3
Synonyms:	Nckx3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR213347 representing NM_053505
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCCGCCGGGCGACCAGGACCGCGCGCCGCCAGCCGCCCGCGGGAGGACCTTCTGCTGA
 GCCAGCTCTGCTTCTTGCTTCGGTGGCGCTGCTGCTCTGGTTCGCTGTCGAGCCTGCGAGAGCAGAAGGA
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 GTGTTACCTTTGTGAACCTGCCCATGTGTGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213347 representing NM_053505
 Red=Cloning site Green=Tags(s)

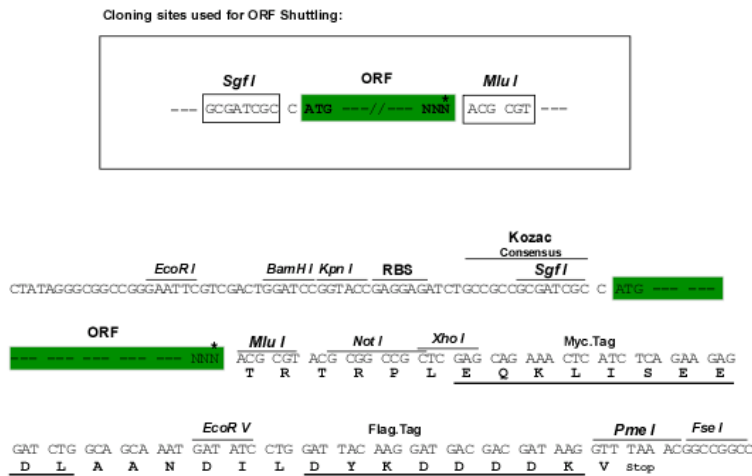
MPPPGDQDRARRRSRRRRRDL LLSQLCFLASVALLLWLSLSSLREQKELDLMDLIGEDRKWMVGRKLMQVN
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 RLHLSDEVAGATFMAAGSSAPELFTSVIGVFITKGDVGVGTIVGSVAVFNILCIIGVCGLFAGQVVALSSW
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 NAEIDSSNCDATVLLKKNFHRKASVIMVDELLSAYPHQLSFSEAGLRIMITSHFPKTRL SMASRML
 INERQRLINSRAYTNGESEVAIKIPIKHTVENGTGPSSAPDRGVNGTRRDDIVAEADNETENENEDENNE
 NDEEEDEDDDEGYPYTPFDPPSGKLETVKWAFTWPLSFVLVFTVPNCNKPHEKWFMTFASSTLWIAAFS
 YMMVWMVTIIGYTLGIPDVIMGITFLAAGTSVPDCMASLIVARQGMGDMAVSNSIGSNVFDILIGLGLPW
 ALQTLAVDYGSIIRLNSRGLIYSVGLLLASVFVTVFGVHLNKWQLDKKLGCGCLFLYGVFLCF SIMTEFN
 VFTFVNLP MCGD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

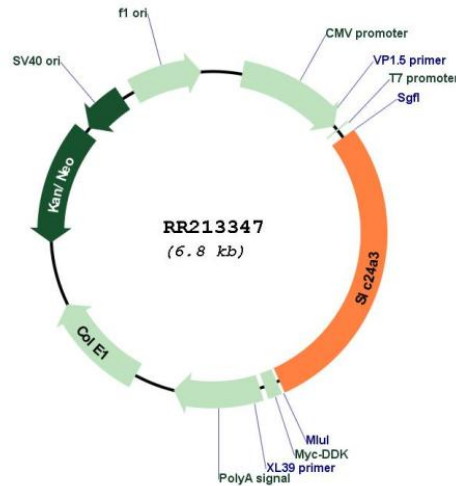
SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_053505

ORF Size: 1926 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_053505.2](#), [NP_445957.2](#)

RefSeq Size: 3748 bp

RefSeq ORF: 1929 bp

Locus ID: 85267

UniProt ID: [Q9EPQ0](#)

Cytogenetics: 3q41

MW: 71.6 kDa

Gene Summary: transmembrane ion transporter protein; functions as a potassium-dependent sodium/calcium exchanger (one calcium and one potassium in exchange for four sodium ions) [RGD, Feb 2006]