

## Product datasheet for **RR214801**

### Slc25a4 (NM\_053515) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a4 (NM_053515) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a4
Synonyms:	Ant1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214801 representing NM_053515 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGGGATCAGGCTTTGAGCTTCCTTAAGGACTTCCTGGCAGGTGGCATCGCCGCCCGCTCCAAGA  
CCGCGGTCGCCCCGATCGAGAGGGTCAAAGTCTGCTGCAGGTCCAGCATGCCAGCAAACAGATCAGTGC  
AGAGAAACAGTACAAAGGCATCATTGATTGTGTCGTGAGAATCCCAAGGAGCAGGGCTTCTCTCCTTC  
TGGAGGGTAACCTGGCCAACGTGATCCGGTACTTCCCCACCAAGCTCTCAACTTCGCCTCAAGGACA  
AGTACAAGCAGATCTTCTGGGAGGTGTGGATCGTCATAAGCAGTTCTGGCGCTACTTCGCTGGTAACCT  
GGCCTCTGGTGGGGCAGCTGGGGCTACCTCCCTCTGCTTCGCTACCCACTGGACTTTGCTAGGACCAGG  
CTGGCTGCCGACGTGGGCAAGGGATCTTCCAGCGTGAGTTCAATGGGCTGGGTGACTGTCTACCAAGA  
TCTTCAAGTCTGATGGCCTGAAGGGTCTTACCAGGGTTTCAGTGTCTGTGCAGGGCATCATCATCTA  
CAGAGCTGCCTACTTCGGAGTCTATGACACTGCCAAGGGGATGCTGCCAGACCCCAAGAATGTGCACATT  
ATTGTGAGCTGGATGATTGCCAGAGTGTGACAGCCGTGGCGGGCTGGTGTCTATCCATTTGACACTG  
TCCGTCGTAGGATGATGATGCAGTCTGGCCGAAAGGGCTGATATTATGTACACGGGGACAGTTGACTG  
CTGGAGGAAGATTGCAAAAGATGAAGGACGCAAAGCTTTCTTCAAAGGTGCTTGGTCCAACGTAAGTGA  
GGCATGGGGGTGCTTTTGTATTGGTATTGTATGATGAGATCAAAAAATATGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RR214801 representing NM\_053515  
 Red=Cloning site Green=Tags(s)

MGDQALSFLKDFLAGGIAAAVSKTAVAPIERVKLLLQVQHASKQISAEKQYKGIIDCVVRIPKEQGFLSF  
 WRGNLANVIRYFPTQALNFAFKDKYKQIFLGGVDRHKQFWRYPFAGNLASGGAAGATSLCFVYPLDFARTR  
 LAADVKGSSQREFNGLGDCLTKIFKSDGLKGLYQGF SVSVQGI IYRAAYFGVYDTAKGMLPDPKNVHI  
 IVSWMIAQSVTAVAGLVSYPFDTVRRRMMMQSGRKGADIMYTGTVDCWRKIAKDEGRKAFFKGAWSNVLR  
 GMGGAFVLVLYDEIKKYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

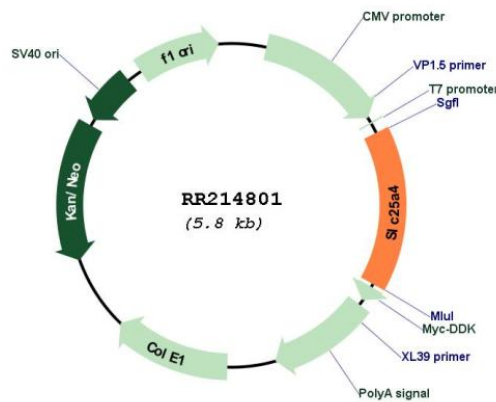
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_053515

**ORF Size:** 894 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_053515.1</a> , <a href="#">NP_445967.1</a>
<b>RefSeq Size:</b>	1289 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	85333
<b>UniProt ID:</b>	<a href="#">Q05962</a>
<b>Cytogenetics:</b>	16q11
<b>MW:</b>	33 kDa
<b>Gene Summary:</b>	catalyzes the exchange of ADP and ATP across the mitochondrial inner membrane [RGD, Feb 2006]