

Product datasheet for **RR208244**

Slc46a3 (NM_001024968) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc46a3 (NM_001024968) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc46a3
Synonyms:	RGD1307594
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208244 representing NM_001024968
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGATCTCATTTCATCGAGCCCGCCATTCTCCTTTACGCCTTTGCTATGACGCTGACCATCCCGCTGA
 CAGCGCAGTATGTGTACCGGAGGATATGGGAAGAAACCGGTAACACACCTTTACCTCCAGTAGCAATGT
 CTCTGAATGCGAGCAAAAACAAAGCAGTTCCACCTTTGCATTCCAGGAGGAAGTTCAGAAAAAGGCATCT
 CTCTTCAGCCTGCAGGTGAAATAAGTGGGTTAATTCCTGGTCTAGTGTCTACCTTCATGCTTTTATCGA
 GTAGCGACAACCACGGACGGAACCTCCCATGGTCTGTCATCTTTGGCTCTCTGGGAACCAACCTTTG
 GCTGTGTGCGATGCTCTACTTTGACCTTCCCTCCAGCTTCTGGTAGCATCCACCTTTATTGGCGCCCTC
 TTTGGGAATTACACCAGTTCTGGGAGCTTGCTTCGCCTACATTGTGGATCAGGAGAAAGAATAACAAGC
 ACAGAATCATCCGCATAGCCGCTCGATTTTATGCTGGGAGTCGTTACTGGGCTAACAGGCTGTCGTC
 TGGCTATTTTCATCCGAGAGCTGGGTTTTGCGTGGTCTATTTTCATTATTGCCGTAGTTGTTCTAGTCAAC
 CTGGCCTACATTTCTATTTTCTCAGTGATCCCATAAAGGAGTCTTCATCTCAGATAGTCACTATGTCCT
 GTAGTGAAGCCCTCAAGGACCTATTTTACCGGACTTACATGCTGTTTAAAAATGGTTCCTGTAAGCGGCG
 TTCTTTGCTCTGTCTGCTGATTTTACCCTTGTGCTATTTTTTTGTGGTCTTCGGCATCACCCGGTT
 TTCACACTCTATGAGCTGGGCTCCGCTCTGCTGGAATGAGGTCTACATAGGCTATGGCTCAGCTTTGG
 GCAGCCTCCTCCTGAGTAGTTTCTGGGCATCTGGCTGTTCTTACTGTTGAAGGATATTCACAT
 CGCCTATGTCGGCATTTTTACCAGATGGTGGGAATGATGCTCACCGCCTCACCAAGGACTCTGATG
 ATGTTTTTAGTCCGAATATCGTTCTTTTACCATCATGCCACTTCCATTCTGAGGTCCATGCTGTCAA
 AGGTGTTCCACTCAACGGAACAAGGTGTGCTGTTTCTGCTAGCTTTCTTAGAAACGCTTGGCGGCGT
 CACTTCGACCTCGCGTATAATGGGATTTATTCAGCCACTGTTGCCTGGTACCCTGGGTTGCTCTCCTG
 CTGTCCGCTGGCCTCCTGGTCTCCAGCCGTCAGTCTCTGCATGGTCAAATGCATTGGCTGGGAAGAGG
 GAAGCTATACACTGCTCATCCATGACGAGCCAGTGAGCACACATCAGACTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208244 representing NM_001024968
 Red=Cloning site Green=Tags(s)

MKISFIEPAILLYAFAMTLIPLTAQYVYRRIWEETGNYFTSSSNVSECEQNKSSSTFAFQEEVQKKAS
 LFSLQVEISGLIPGLVSTFMLLSSSDNHGRKLPMLVSSLGSLGTNLWLCAMSYFDLPLQLLVASTFIGAL
 FGNYTTFWGAFCAYIVDQEKEYKHRIIRIAVLDFMLGVVTGLTGLSSGYFIRELGFAWSYFIIAVVVLVN
 LAYILFFLSDPIKESSQIVTMSCESELKDLFYRTYMLFKNGSCKRRSLCLLIFTLVVYFFVVFGITPV
 FTLYELGPPLCWNEVYIGYSALGSLSFLSSFLGIWLFYCLKDIHIAYVGIFTTMVGMMLTAFTRTTLM
 MFLVRIISFFFTIMPLSILRSMLSKVVHSTEQVLFACIAFLETGGVTST SAYNGIYSATVAWYPGFVFL
 LSAGLLVLPVAVSLCMVKICIGWEEGSYTLIIHDEPSEHTSDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

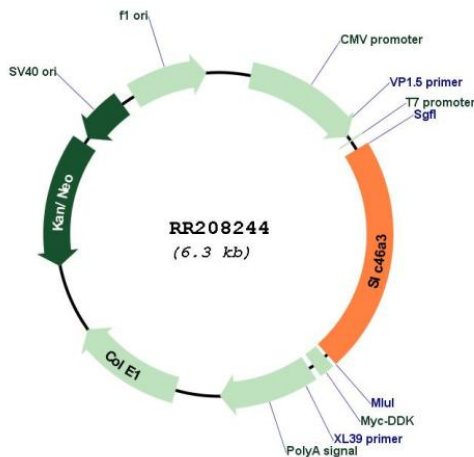
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024968

ORF Size: 1383 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_001024968.1](#), [NP_001020139.1](#)

RefSeq Size: 2564 bp

RefSeq ORF: 1386 bp

Locus ID: 288454

UniProt ID: [Q5BK75](#)

Cytogenetics: 12p11

MW: 51.5 kDa