

Product datasheet for **RR206417**

Slc41a2 (NM_001108742) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc41a2 (NM_001108742) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc41a2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR206417 representing NM_001108742
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCACAGTAAAGGAAGACCTGCCACTTACAAGACAAGTCCAGTCCGGAGAGCGGAGGGGTTTTG
 TAGATTGGACTTTAAATTTAAATACAATTCATCTGACAAGTTTCTAACTTACTGTTAAGCATGGTGCC
 AGTCATTTACCAGAAAAACCAGGAAGACAGGCATAAAAAAGTCAACGGCATTGGCAGGACGGGCTGTCT
 GGTGCGGCACAACTTTAGCAAGAGATCGGAGCCACATCTGGACTACCATGAGTTCTCCGAGCAGGCCCT
 TCCACAGCGGGTGGCCATACCCAGCCAGCTGCAGCCCGAGTACGACGACTATGCCGGCTATAACTA
 CTGTGACGGAAGGGAGGCTCAGAAACCACGCCATGTTACAAGATGAAGATCCGTCCAGTCAGGGCGAT
 GACGTTATTGTGAAACAAGCCAGAGGCTCCCGAAGGAATCCAGTGGAGTCATGGCTCTGCAGATACTTG
 TGCCATCTTGTGGCCGGTTTTGGAAGTGTTCGCTGGCATGGTTTTGGACATAGTGCAGCACTGGGA
 GGTGTTCAAAAACGTGACAGAAGTCTTCATTTTGGTGCCCGCTTCTTGGTCTGAAAGGGAAGTGGAA
 ATGACATTGGCGTCTCGATTATCCACTGCAGTGAATGTCGGGAAGATGGACTCACCCATTGAGAAGTGGA
 ATCTAATCATAGGCAACTTGGCTTTGAAGCAGGTGCAGGCCACAGTAGTTGGTTTTCTGGCAGCTGTGGC
 AGCGATCATACTGGGCTGGATTCCGGAAGGGAATATTACCTCAGCCATTCCATACTCCTGTGCTCCAGC
 AGTGTGGCAACCGCTTCATTGCGTCTCTCCTGCAGGGAATAAATGGTTGGAGTTATCGTTGGCTCCA
 AGAAGACAGGCATAAACCCCGACAACGTGGCCACACCCATTGCTGCTAGTTTTGGTGATCTGATAACTCT
 GGCCATATTAGCTTGATAAGTCAGGGTTGTACTCCTGTCTTGTGCAAGCAGCCAGTACCAGGACA
 GTGCTCCACTCGGGCTGGGAGCCAGTCATAACAGCCATGGTTAAGCAGCATCGGGGCGCTTATCTGG
 ACACAACCGTATCTGACCAAACTTGGTTGGATTGTTGTTACACGCCAGTTATCAACGGGATCGGTGG
 CAATTTGGTGGCCATTCAGGCTAGCAGGATTTCTACCTACCTCCATTTACACAGCCTCCCGGAGAACTA
 CCTGAGGAGCCAAAGGCTGCTCCTACCCATTTAGGACGTTTTTTGGTTCAGGAGTGAACAATAAGTCTG
 CCCAGGTTCTCCTGCTCTCGTATTCCCGCCACCTGATCTTCTCTACACAATCCATCTGATGAAGAG
 CGGCCACACCTCTGACTGTAGTCTTTGTTGTTGTACCTGCTTGTGCTGTGCTCCAGGTGTTCCACC
 CTGCTGTGGATCGCTGACTGGATGGTCCATCGCTTCTGGAGGAAAGGAAAGGACCCAGATAGTTTCTCCA
 TCCCGTACCTGACGGCGCTAGGCGACCTGCTTGGGACCGCTCTGCTGGCCTTAAGCTTCCATTTCTCTG
 GCTTATCGGAGACCGAGATGGCGACGTTGGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206417 representing NM_001108742
 Red=Cloning site Green=Tags(s)

MTHSKGRPATYKTSASPESGGFVDWTLNLTIQSDKFLNLLL SMVPVIYQKNQEDRHKKVNGIWQDGLS
 GAAQTFSKRSEPHLDYHEFSEQAFHSGGHTPASCSPRYDDYAGYNYCDGREASETTAMLQDEDPSSQGD
 DIVIVETSQRPKESSGVMALQILVPFLLAGFGTVSAGMVLDIVQHWEVFNKNTVEFVILVPALLGLKGNLE
 MTLASRLSTAVNVGKMSPIEKWNLIIIGNLALKQVQATVVGFLAAVAAILGWIPGKYLLSHSILLCSS
 SVATAFIASLLQGIIMGVIVGSKKTGINPDNVATPIAASFGLITLAILAWISQGLYSCLAAKHPATRT
 VLHSGWEPVITAMVISSIGGLILDTTVSDPNLVGIVVYTPVINGIGGNLVAIQASRISTYLHLHSLPGEL
 PEEPKGCSYPFRFFGSGVNNKSAQVLLLFVIPGHLIFLYTIHLMKSGHTSLTVVFFVVVYLLAAVLQVFT
 LLWIADWMVHRFWRKGDPDPSFIPYL TALGDLLGTALLALSFHFLWLGDRDGDVGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

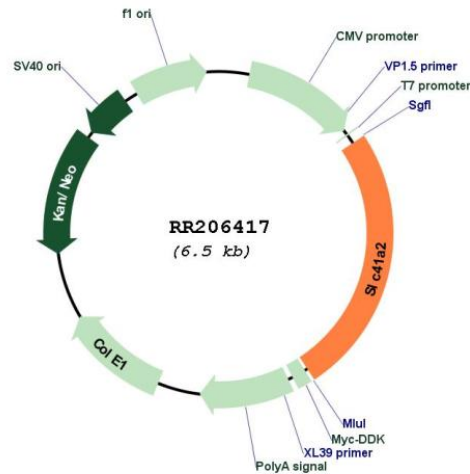
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001108742

ORF Size: 1644 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_001108742.1](#), [NP_001102212.1](#)

RefSeq Size: 4614 bp

RefSeq ORF: 1647 bp

Locus ID: 362861

Cytogenetics: 7q13

MW: 59.3 kDa