

Product datasheet for RR211936

Slc10a1 (NM_017047) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc10a1 (NM_017047) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc10a1
Synonyms:	Ntcp; Ntcp1; SBACT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR211936 representing NM_017047 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGTGCACAACGTATCAGCCCTTTCAATTTCTCCCTGCCGCTGGCTTTGGCCACCGGGCCACAG
ACAAGGCGCTTAGCATCATCCTGGTGTTAATGTTGCTGCTTATCATGCTCTCACTGGGCTGCACCATGGA
ATTCAGCAAGATCAAGGCTCACTTGTGGAAGCCAAAGGGGTGATCGTTGCCTTGGTGGCCAGTTTGGC
ATCATGCCCTCGCTGCTTTTCTTCTCGGAAGATCTTTCACCTGAGCAACATTGAAGCTCTGGCCATCC
TCATCTGTGGCTGCTCTCCGGGGGAACCTGTCCAACCTTTCACCCTGGCCATGAAGGGGACATGAA
CCTCAGCATCGTGATGACCACCTGCTCCAGCTTCAAGTGCCTTGGGATGATGCCACTCCTCTTATACGTC
TACAGCAAAGGCATCTACGATGGAGACCTAAGGACAAGGTGCCCTACAAAGGCATTATGATATCACTAG
TCATAGTTCTCATTCTTGCACCATAGGGATCGTCCCTCAAGTCCAAAAGGCCACACTATGTACCCTACAT
CCTCAAGGGAGGCATGATCATCACCTTCTCCTCTCTGTGGCTGTACAGCCCTCTGTGATCAATGTG
GGCAACAGCATCATGTTGTCATGACACCACACTACTGGCTACCTCCTCCCTGATGCCCTTCTCTGGCT
TTCTGATGGGTTACATTCTCTGCTCTTCCAACCTCAATCCAAGCTGCAGACGCCACCATCAGCATGGA
AACAGGATCCAAAACATTCAACTCTGTTCTACCATCCTCAATGTGACCTTCCCCCTGAAGTCATTGGG
CCAATTTCTTTCTTCTCCTCTACATGATTTTCCAGCTTGCGAAGGACTTCTCATCATCATTATCT
TCCGGTGCTATGAGAAAATCAAGCTCCAAGGACCAAAACAAAATTACCTACAAAGCTGCTGCAACTGA
GGATGCTACTCCAGCAGCTCTGAAAAAGGTACCCACAATGGGAATATTCTCCTCTCCAACCTGGTCT
TCCCTAATGGCCTGAATTCTGGTCAGATGGCAAAT

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR211936 representing NM_017047
Red=Cloning site Green=Tags(s)

MEVHNVSAPFNFSLPPGFGHRATDKALSIIILVLMILLIMLSLGGCTMEFSKIKAHLWPKGVIVALVAQFG
 IMPLAFLGKIFHLSNIEALAILICGCSPPGNLSNLFTLAMKGMNLSIVMTTCSSFSALGMMPLLLYV
 YSKGIYDGLDKDVPYKIGIMISLVIVLIPCTIGIVLKSkrPHYVPYILKGGMIITFLLSVAVTALSVINV
 GNSIMFVMTPHLLATSSLMPFSGFLMGYILSALFQLNPSRRITSMETGFQNIQLCSTILNVTFPPEVIG
 PLFFFPLLYMIFQLAEGLLIIIFRCYEKIKPPKDQTKITYKAAATEDATPAALEKGTNGNIPPLQPGP
 SPNGLNSGQMAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2795_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017047

ORF Size: 1086 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_017047.1](#), [NP_058743.1](#)

RefSeq Size: 1663 bp

RefSeq ORF: 1089 bp

Locus ID: 24777

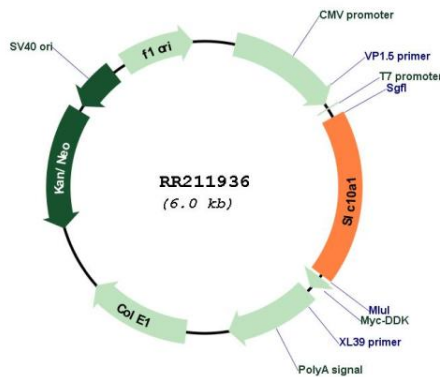
UniProt ID: [P26435](#)

Cytogenetics: 6q24

MW: 39.3 kDa

Gene Summary: mediates sodium dependent bile acid transport [RGD, Feb 2006]

Product images:



Circular map for RR211936