

Product datasheet for MR225032

Slc10a1 (NM_011387) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc10a1 (NM_011387) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc10a1
Synonyms:	Ntcp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225032 representing NM_011387 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGCGCACACGTATCAGCCCCCTCAATTTCTCCCTGCCGCTGGCTTTGGCCACCGGGCCACAG
ACACTGCGCTCAGCGTCATTCTGGTAGTTATGTTGCTGCTCATCATGCTCTCGCTTGGCTGCACCATGGA
GTTTCAGCAAGATCAAGGCTCACTTCTGGAAGCCAAAGGGGTGATCATCGCCATAGTGGCCAGTACGGT
ATCATGCCCTCAGTCTTCTCTGGCAAGGTCTTTCATCTGACCAGCATTGAGGCTCTGGCCATCC
TCATCTGCGGCTGCTCTCTGGGGGAACCTGTCTAACCTCTTACCCTGGCCATGAAGGGGACATGAA
CCTCAGCATTGTGATGACCACCTGCTCCAGCTTCACTGCCTTGGGATGATGCCTCTCCTTTATACATC
TACAGCAAAGGAATCTACGACGGAGATCTTAAGGACAAGGTGCCCTACAAAGGCATTATGTTATCACTCG
TCATGGTTCTCATTCTTGCGCCATAGGGATCTTCTGAAAGTCCAAAAGGCCACACTATGTACCCTACGT
CCTCAAGGCAGGCATGATCATCACTTTCTCCCTCTCTGTGGCTGTACAGTCCTGTCTGTATCAATGTG
GGCAACAGCATCATGTTTCGTCATGACACCACACTACTGGCTACCTCCTCCCTGATGCCTTTCACTGGCT
TCCTGATGGGCTACATTCTCTGCTCTTCCGACTAAATCCAAGCTGCAGACGCCACCATCAGCATGGA
AACAGGATCCAAAACGTCCAACCTGTCTTACCATCCTCAATGTACCTTCCCCCTGAAGTCATTGGA
CCACTGTTCTTTCTCTCTCTTTATATGATTTTTTCAGCTTGCAGAAGGACTTCTTTCATTATTATCT
TCCGGTCTATTTGAAAATCAAACCTCAGAAGGGTAAGTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225032 representing NM_011387
Red=Cloning site Green=Tags(s)

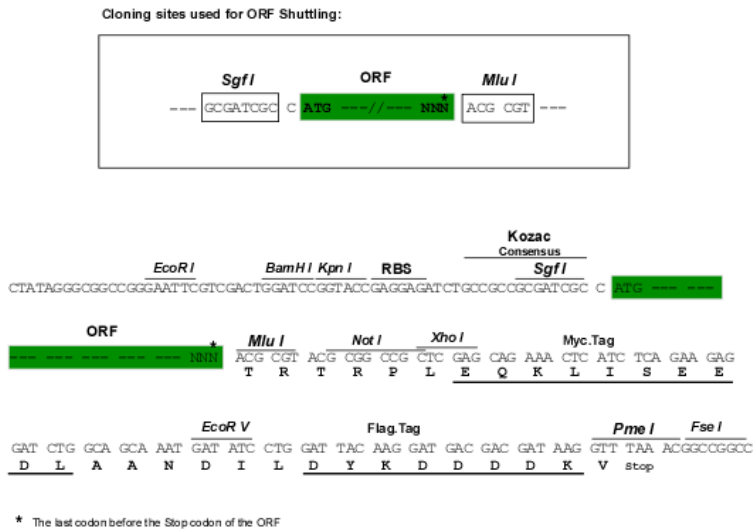
MEAHNVSAPFNFSLPPGFGHRATDTALSVILVVMLLLIMLSLGCTMEFSKIKAHFWKPKGVIIAIVAQYG
 IMPLSAFLLGKVFHLTSIEALAILICGCSPPGNLSNLF~~TLAMK~~GMNLSIVMTTCSSFTALGMP~~LLLYI~~
 YSKGIYDGLDKDKVPYKGI~~MSL~~VMLIPCAIGIFL~~SKSR~~PHYVPYVLKAGMIITFSL~~SAV~~TVLSVIN
 GNSIMFVMTPHLLATSSLM~~PFTG~~FLMGYILSALFRLN~~PS~~CRRTISMETGFQNVQLCSTILNVTFPPEVIG
 PLFFF~~PLLYMIF~~QLAEGLLFIIIFRCYLKIKPQKGKY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1838_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011387

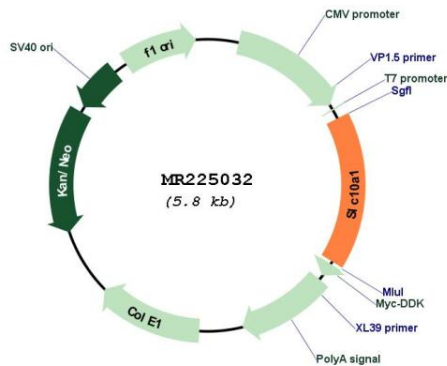
ORF Size: 951 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_011387.2</u> , <u>NP_035517.1</u>
RefSeq Size:	1506 bp
RefSeq ORF:	954 bp
Locus ID:	20493
Cytogenetics:	12 37.21 cM
MW:	35.3 kDa
Gene Summary:	The hepatic sodium/bile acid uptake system exhibits broad substrate specificity and transports various non-bile acid organic compounds as well. It is strictly dependent on the extracellular presence of sodium.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225032