

Product datasheet for MR205550

Slc10a1 (NM_001177561) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc10a1 (NM_001177561) 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:	>MR205550 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCGCACACGTATCAGCCCCCTCAATTTCTCCCTGCCGCTGGCTTTGGCCACCGGGCCACAG
ACACTGCGCTCAGCGTCATTCTGGTAGTTATGTTGCTGCTCATCATGCTCTCGCTTGGCTGCACCATGGA
GTTTCAGCAAGATCAAGGCTCACTTCTGGAAGCCAAAGGGGTGATCATCGCCATAGTGGCCAGTACGGT
ATCATGCCCTCAGTGTTCCTTCTGGCAAGGCTTTTCATCTGACCAGCATTGAGGCTCTGGCCATCC
TCATCTGCGGCTGCTCTCTGGGGGAACCTGTCTAACCTCTTACCCTGGCCATGAAGGGGGACATGAA
CCTCAGCATTGTGATGACCACCTGCTCCAGCTTCACTGCCTTGGGATGATGCCTCTCCTTTATACATC
TACAGCAAAGGAATCTACGACGGAGATCTTAAGGACAAGGTGCCCTACAAAGGCATTATGTTATCACTCG
TCATGGTTCTCATTCTTGCGCCATAGGGATCTTCTGAAAGTCCAAAAGGCCACACTATGTACCCTACGT
CCTCAAGGCAGGCATGATCATCACTTTCTCCCTCTCTGTGGTGTGACAGTCTGTCTGTGATCAATGTG
GGCAACAGCATCATGTTGTCATGACACCACACTACTGGCTACCTCCTCCCTGATGCCTTTCACTGGCT
TCCTGATGGGCTACATTCTCTGCTCTTCCGACTAAATCCAAGCTGCAGACGCCACCATCAGCATGGA
AACAGGATTCAAAACGTCCAACCTGTCTACCATCCTCAATGTACCTTCCCCCTGAAGTCATTGGA
CCACTGTTCTTTCTCTCTCTTTATATGATTTTTTCAGCTTGCAGAAGGACTTCTTTCATTATATCT
TCCGGTGCTATTTGAAAATCAAACCTCAGAAGGACCAAACAAAATTACCTACAAGGCTGCTGCAACAGA
AGATGCTACTCCAGCAGCTCTGGAAAAGGTACCCACAACGGGAATAATCCTCCTACACAACCTGGCCT
TCCCTAATGGCCTGAATCTGGTCTGATGGCAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205550 protein sequence
Red=Cloning site Green=Tags(s)

MEAHNVSAPFNFSLPPGFGHRATDTALSVILVVMLLLIMLSLGCTMEFSKIKAHFWKPKGVIIAIVAQYG
 IMPLSAFLLGKVFHLTSIEALAILICGCSPPGNLSNLF~~TLAMKGMNLSIVMTTCSFTALGMP~~LLLYI
 YSKGIYDGLKDKVPYKGI~~MSLVMVLIPCAIGIFL~~SKSRPHYVPYVLKAGMIITFSLSAVTVLSVIN
 GNSIMFVMTPHLLATSSLMPTGFLMGYILSALFRLNPS~~CRRTISMETGFQNVQLCSTILNVTFP~~PEVIG
 PLFFFP~~LLYMIFQLAEGLLFIIIFRCYLKIKPQKDQTKITYKAAATEDATPAALEK~~GTHNGNPP~~TQ~~PGL
 SPNGLNSGQMAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001177561

ORF Size: 1089 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_001177561.1](#), [NP_001171032.1](#)

RefSeq Size: 1674 bp

RefSeq ORF: 1089 bp

Locus ID: 20493

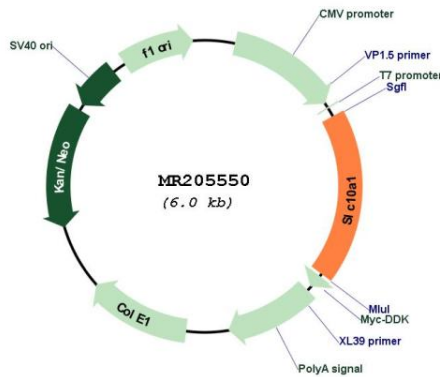
UniProt ID: [O08705](#)

Cytogenetics: 12 37.21 cM

MW: 39.4 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 MR205550