

Product datasheet for **MG205550**

Slc10a1 (BC021154) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc10a1 (BC021154) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc10a1
Synonyms:	Ntcp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205550 representing BC021154 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCGCACACGTATCAGCCCCCTCAATTTCTCCCTGCCGCTGGCTTTGGCCACCGGGCCACAG
ACACTGCGCTCAGCGTCATTCTGGTAGTTATGTTGCTGCTCATCATGCTCTCGCTTGGCTGCACCATGGA
GTTTCAGCAAGATCAAGGCTCACTTCTGGAAGCCAAAGGGGTGATCATCGCCATAGTGGCCAGTACGGT
ATCATGCCCTCAGTGTTCCTTCTGGCAAGGCTTTTCATCTGACCAGCATTGAGGCTCTGGCCATCC
TCATCTGCGGCTGCTCTCTGGGGGAACCTGTCTAACCTTTACCCTGGCCATGAAGGGGACATGAA
CCTCAGCATTGTGATGACCACCTGCTCCAGCTTCACTGCCTTGGGATGATGCCTCTCCTTTATACATC
TACAGCAAAGGAATCTACGACGGAGATCTTAAGGACAAGGTGCCCTACAAAGGCATTATGTTATCACTCG
TCATGGTTCTCATTCTTGCGCCATAGGGATCTTCTGAAAGTCCAAAAGGCCACACTATGTACCCTACGT
CCTCAAGGCAGGCATGATCATCACTTTCTCCCTCTCTGTGGTGTGACAGTCCTGTGTGATCAATGTG
GGCAACAGCATCATGTTGTCATGACACCACACTACTGGCTACCTCCTCCCTGATGCCTTTCACTGGCT
TCCTGATGGGCTACATTCTCTGCTCTTCCGACTAAATCCAAGCTGCAGACGCCACCATCAGCATGGA
AACAGGATTCAAAACGTCCAACCTGTCTACCATCCTCAATGTACCTTCCCCCTGAAGTCATTGGA
CCACTGTTCTTTCTCTCTCTTTATATGATTTTTTCAGCTTGCAGAAGGACTTCTTTTATTATCT
TCCGGTGCTATTTGAAAATCAAACCTCAGAAGGACCAAACAAAATTACCTACAAGGCTGCTGCAACAGA
AGATGCTACTCCAGCAGCTCTGGAAAAGGTACCCACAACGGGAATAATCCTCCTACACAACCTGGCCT
TCCCTAATGGCCTGAATCTGGTCAGATGGCAAAT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205550 representing BC021154
Red=Cloning site Green=Tags(s)

MEAHNVSAPFNFSLPPGFGHRATDTALSVILVVMILLIMLSLGGCTMEFSKIKAHFWKPKGVIIAIVAQYG
 IMPLSAFLLGKVFHLTSIEALAILICGCSPPGNLSNLF LAMKGMNLSIVMTTCSFTALGMPPLLLYI
 YSKGIYDGLKDKVPYKGIIMLSLVMVLIPCAIGIFLKSRRPHYVPYVLKAGMIITFSLSVAVTVLSVIN
 GNSIMFVMTPHLLATSSLMPPFTGFLMGYILSALFRLNPSRRITSMETGFQNVQLCSTILNVTFFPEVIG
 PLFFFPLLYMIFQLAEGLLFIIIFRCYLKIKPQKDKTKITYKAAATEDATPAALEKGTHTNGNPPPTQPGL
 SPNGLNSGQMAN

TRTRPLE - GFP Tag - V

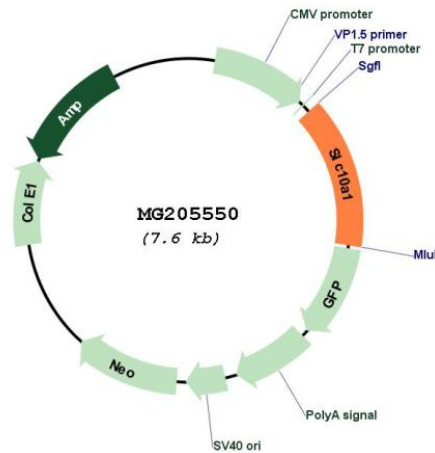
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC021154

ORF Size:	1088 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:	<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:	BC021154 , AAH21154
RefSeq Size:	1649 bp
RefSeq ORF:	1088 bp
Locus ID:	20493
Cytogenetics:	12 37.21 cM
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]