

Product datasheet for **MG205999**

Slc14a1 (NM_028122) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc14a1 (NM_028122) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc14a1
Synonyms:	2610507K20Rik; 3021401A05Rik; UT-B; Utb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205999 representing NM_028122 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGATAGTCCCACCATGGTTAAAGTAGACCGGGGTGAAAACCAGATTTTATCATGCCGCGGGAGAA
GGTGTGGCTTCAAAGTACTTGGCTACGTACGGGTGACATGAAGGAATTCGCCAACTGGCTGAAAGACAA
ACCCGTGGTGTCCAGTTCATGGACTGGATACTTCGTGGCATATCCAGGTGGTGTGGTGTGTCAGCAACCCC
ATCAGTGAATCCTGATTCTGGTGGGACTTCTGGTCCAGAACCCTGGTGGGCTCTCTGTGGCTGTGTAG
GAACTGTGGTCTCCACTCTGACAGCCCTCTTGCTTAGCCAAGACAGATCGGCGATAGCAGCGGGGCTCCA
AGGTTACAATGCCACCCTGGTAGGCATCCTCATGGCTGTCTTCTCAAACAAGGGCGACTATTTCTGGTGG
CTGATATTCCTGTATCTGCTATGTCTATGACTTGCCCGTTTTCTCGAGCGCGTTGAGCTCCGTGCTCA
GCAAGTGGGACCTGCCCGTCTTCACTCTCCCTTCAACATGGCGTTGTCGATGTACCTGTGAGCCACAGG
ACACTACAATACGTTTTTCCCAAGTAACTCTTCAACCTGTGAGCTCCGTGCCCAACATCACGTGGTCT
GAGCTCAGCGCCCTGGAGCTATTGAAGTCTTCCGGTGGGAGTCGGTACAGATATATGGCTGTGACAACC
CGTGGACAGGCGGCATTTTCTATGTGCTATCCTGCTCTCTCCCACTCATGTGCTGCACGCTGCTAT
TGGATCGTTGCTGGGTGTATCGCGGACTCAGTCTTGCAGCTCCATTTGAAGACATCTACTTTGGGCTC
TGGGTTTTCAACAGCTCTCTGGCCTGCATTGCAATTGGAGGGATGTTTCATGGCACTCACCTGGCAGACCC
ACCTCTGGCTCTTGCCTGTGCCCTGTTCACTGCCTACTTCGGAGCCTGTATGGCACACCTGATGGCTGT
GGTTCACCTGCCAGCTTGTACCTGGTCTTCTGTTGGCCACACTACTCTTTCTTGTGACCACGAAA
AATCCCAACATCTACAGGATGCCCTCAGCAAAGTTACCTACTCTGAGGAGAACCGCATCTTCTACCTCC
AAAACAAGAAAAGGATGGTTGAAAGCCCTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205999 representing NM_028122
 Red=Cloning site Green=Tags(s)

MEDSPTMVKVDRGENQILSCRGRRCGFKVLGYVTGDMKEFANWLKDKPVVLQFMDWILRGISQVVFVSNP
 ISGILILVGLLVQNPWWALCGCVGTVVSTLTALLLSQDRSAIAAGLQGYNATLVGILMAVFSNKGDFYFW
 LIFPVSAMSMTPVFSSALSSVLSKWDLPVFTLFPNMLSMYLSATGHYNTFFPSKLFPTVSSVPNITWS
 ELSALELLKSLPVGVGQIYGCDNPWTGGIFLCAILLSSPLMCLHAAIGSLLGVIAGLSLAAPFEDIYFGL
 WGFNSSLACIAIGGMFALTWQTHLLALACALFTAYFGACMAHLMVAVHLPACTWSFCLATLLFLLLTTK
 NPNIYRMPLSKVTYSEENRIFYLQNKRMVESPL

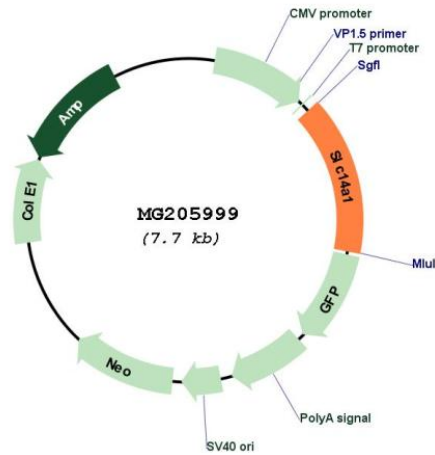
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_028122

ORF Size:	3672 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:	NM_028122.4 , NP_082398.1
RefSeq Size:	3580 bp
RefSeq ORF:	1155 bp
Locus ID:	108052
UniProt ID:	Q8VHL0
Cytogenetics:	18 E3
Gene Summary:	Urea channel that facilitates transmembrane urea transport down a concentration gradient. A constriction of the transmembrane channel functions as selectivity filter through which urea is expected to pass in dehydrated form. The rate of urea conduction is increased by hypotonic stress. Plays an important role in the kidney medulla collecting ducts, where it allows rapid equilibration between the lumen of the collecting ducts and the interstitium, and thereby prevents water loss driven by the high concentration of urea in the urine. Facilitates urea transport across erythrocyte membranes. May also play a role in transmembrane water transport, possibly by indirect means.[UniProtKB/Swiss-Prot Function]