

## Product datasheet for **MG216943**

### 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:** >MG216943 representing NM\_028122  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAAGATAGTCCCACCATGGTTAAAGTAGACCGGGGTGAAAACCAGATTTTATCATGCCGCGGGAGAA  
 GGTGTGGCTTCAAAGTACTTGGCTACGTACGGGTGACATGAAGGAATTCGCCAACTGGCTGAAAGACAA  
 ACCCGTGGTGTCCAGTTCATGGACTGGATACTTCGTGGCATATCCAGGTGGTGTGGTGTGTCAGCAACCCC  
 ATCAGTGAATCCTGATTCTGGTGGGACTTCTGGTCCAGAACCCTGGTGGGCTCTCTGTGGCTGTGTAG  
 GAACTGTGGTCTCCACTCTGACAGCCCTCTTGCTTAGCCAAGACAGATCGGCGATAGCAGCGGGGCTCCA  
 AGGTTACAATGCCACCCTGGTAGGCATCCTCATGGCTGTCTTCTCAAACAAGGGCGACTATTTCTGGTGG  
 CTGATATTCCTGTATCTGCTATGTCTATGACTTGCCCGTTTTCTCGAGCGCGTTGAGCTCCGTGCTCA  
 GCAAGTGGGACCTGCCCGTCTTCACTCTCCCTTCAACATGGCGTTGTCGATGTACCTGTGAGCCACAGG  
 AACTACAATACGTTTTTCCCAAGTAACTCTTCAACCTGTGAGCTCCGTGCCCAACATCACGTGGTCT  
 GAGCTCAGCGCCCTGGAGCTATTGAAGTCTTCCGGTGGGAGTCGGTACAGATATATGGCTGTGACAACC  
 CGTGGACAGGCGGCATTTTCTATGTGCTATCCTGCTCTCTCCCACTCATGTGCTGCACGCTGCTAT  
 TGGATCGTTGCTGGGTGTATCGCGGACTCAGTCTTGCAGCTCCATTTGAAGACATCTACTTTGGGCTC  
 TGGGTTTCAACAGCTCTCTGGCCTGCATTGCAATTGGAGGGATGTTTATGGCACTCACCTGGCAGACCC  
 ACCTCTGGCTCTTGCCTGTGCCCTGTTCACTGCCTACTTCGGAGCCTGTATGGCACACCTGATGGCTGT  
 GTTTACCTGCCAGCTTGTACCTGGTCTTCTGTTGGCCACACTACTCTTTCTTGTGACCACGAAA  
 AATCCCAACATCTACAGGATGCCCTCAGCAAAGTTACCTACTCTGAGGAGAACCGCATCTTCTACCTCC  
 AAAACAAGAAAAGGATGGTTGAAAGCCCTG

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG216943 representing NM\_028122  
 Red=Cloning site Green=Tags(s)

MEDSPTMVKVDRGENQILSCRGRRCGFKVLGYVTGDMKEFANWLKDKPVVLQFMDWILRGISQVVFVSNP  
 ISGILILVGLLVQNPWWALCGCVGTVVSTLTALLLSQDRSAIAAGLQGYNATLVGILMAVFSNKGDFYFWW  
 LIFPVSAMSMTPVFSSALSSVLSKWDLPVFTLFPNMLSMYLSATGHYNTFFPSKLFPTVSSVPNITWS  
 ELSALELLKSLPVGVGQIYGCDNPWTGGIFLCAILLSSPLMCLHAAIGSLLGVIAGLSLAAPFEDIYFGL  
 WGFNSSLACIAIGGMFALTWQTHLLALACALFTAYFGACMAHLMVAVHLPACTWSFCLATLLFLLLTTK  
 NPNIYRMPLSKVTYSEENRIFYLQNKRMVESPL

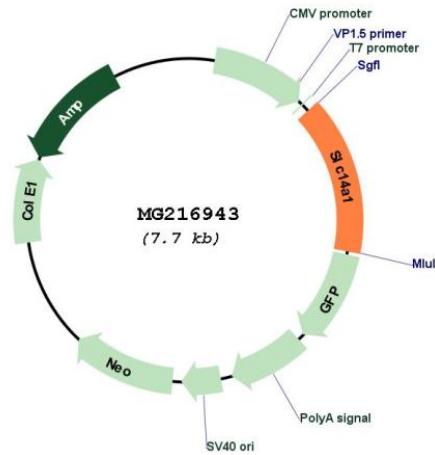
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_028122

<b>ORF Size:</b>	1152 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_028122.4</a> , <a href="#">NP_082398.1</a>
<b>RefSeq Size:</b>	3675 bp
<b>RefSeq ORF:</b>	1155 bp
<b>Locus ID:</b>	108052
<b>UniProt ID:</b>	<a href="#">Q8VHL0</a>
<b>Cytogenetics:</b>	18 E3
<b>Gene Summary:</b>	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]