

Product datasheet for MC215854

Slc14a1 (NM_001171010) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc14a1 (NM_001171010) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc14a1
Synonyms: 2610507K20Rik; 3021401A05Rik; UT-B; Utb1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC215854 representing NM_001171010
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGAATGGACAATCTTTGACTGGTGGCACTGATGACGCCATCACGGTCTCTTTGGATAGACCCTTTCCG
 GAAATAGAGGCGATAAAGCAGCGCCAGAAGGCTTCAGACGTCTAAGCTTGGCCCTGGCACAAAGGTGGCG
 AGAACAGGAGCCAGAGGAAGAGATAGCCATGGAAGATAGTCCCACCATGGTTAAAGTAGACCGGGGTGAA
 AACCAGATTTTATCATGCCGCGGGAAGGTGTGGCTTCAAAGTACTTGGCTACGTACCGGTGACATGA
 AGGAATTCGCCAACTGGCTGAAAGACAAACCCGTGGTGTCCAGTTCATGGACTGGATACTTCGTGGCAT
 ATCCCAGGTGGTGTGTGTCAGCAACCCATCAGTGAATCCTGATTCTGGTGGGACTTCTGGTCCAGAAC
 CCCTGGTGGGCTCTCTGTGGCTGTGTAGGAAGTGGTCTCCACTCTGACAGCCCTCTTGCTTAGCCAAG
 ACAGATCGGCGATAGCAGCGGGCTCCAAGTTACAATGCCACCCTGGTAGGCATCCTCATGGCTGTCTT
 CTCAAACAAGGGCGACTATTTCTGGTGGCTGATATCCCTGTATCTGCTATGTCTATGACTTGCCCGGTT
 TTCTCGAGCGGTTGAGCTCCGTGCTCAGCAAGTGGGACCTGCCGCTCTCACTCTCCCTTCAACATGG
 CGTTGTCGATGTACCTGTACGCCACAGGACACTACAATACGTTTTTCCCAAGTAAACTCTCACACCTGT
 CAGCTCCGTGCCAACATCACGTGGTCTGAGCTCAGCGCCCTGGAGCTATTGAAGTCTCTCCGGTGGGA
 GTCGGTACAGATATATGGCTGTGACAACCCGTGGACAGGCGGCATTTTCCTATGTGCTATCCTGCTCTCT
 CCCCACATGTGCCTGCACGCTGCTATTGGATCGTTGCTGGGTGTCATCGCGGGACTCAGTCTTGACGC
 TCCATTTGAAGACATCTACTTTGGGCTCTGGGTTTCAACAGCTCTTGCCCTGCATTGCAATTGGAGGG
 ATGTTTCATGGCACTCACCTGGCAGACCCACCTCCTGGCTCTTGCCCTGTGCCCTGTCACTGCCTACTTCG
 GAGCCTGTATGGCACACCTGATGGCTGTGGTTCACCTGCCAGCTGTACCTGGTCTCTGTTTGGCCAC
 ACTACTCTTCTCTTGCTGACCACGAAAAATCCCAACATCTACAGGATGCCCTCAGCAAAGTTACCTAC
 TCTGAGGAGAACGCATCTTCTACTCCAAAACAAGAAAGGATGTTGAAAGCCCTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001171010
Insert Size:	1323 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001171010.1</u> , <u>NP_001164481.1</u>
RefSeq Size:	3880 bp
RefSeq ORF:	1323 bp
Locus ID:	108052
UniProt ID:	<u>Q8VHL0</u>
Cytogenetics:	18 E3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>