

Product datasheet for MR205999

Slc14a1 (NM_001171011) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc14a1 (NM_001171011) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc14a1
Synonyms: 2610507K20Rik; 3021401A05Rik; UT-B; Utb1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR205999 representing NM_001171011
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGATAGTCCCACCATGGTTAAAGTAGACCGGGGTGAAAACCAGATTTTATCATGCCGCGGGAGAA
 GGTGTGGCTTCAAAGTACTTGGCTACGTCACGGGTGACATGAAGGAATTCGCCAACTGGCTGAAAGACAA
 ACCCGTGGTGTCCAGTTCATGGACTGGATACTTCGTGGCATATCCAGGTGGTGTGGTGTGTCAGCAACCC
 ATCAGTGAATCCTGATCTGGTGGGACTTCTGGTCCAGAACCCTGGTGGGCTCTCTGTGGCTGTGTAG
 GAACTGTGGTCTCCACTCTGACAGCCCTCTTGCTTAGCCAAGACAGATCGGCGATAGCAGCGGGGCTCCA
 AGGTTACAATGCCACCCTGGTAGGCATCCTCATGGCTGTCTTCTCAAACAAGGGCGACTATTTCTGGTGG
 CTGATATTCCTGTATCTGCTATGTCTATGACTTGCCCGTTTTCTCGAGCGCGTTGAGCTCCGTGCTCA
 GCAAGTGGGACCTGCCCGTCTTCACTCTCCCTTCAACATGGCGTTGTCGATGTACCTGTGAGCCACAGG
 AACTACAATACGTTTTTCCCAAGTAACTCTTCAACCTGTGAGCTCCGTGCCCAACATCACGTGGTCT
 GAGCTCAGCGCCCTGGAGCTATTGAAGTCTTCCGGTGGGAGTCGGTCAGATATATGGCTGTGACAACC
 CGTGGACAGGCGGCATTTTCTATGTGCTATCCTGCTCTCTCCCACTCATGTGCTGCACGCTGCTAT
 TGGATCGTTGCTGGGTGTATCGCGGACTCAGTCTTGCAGCTCCATTTGAAGACATCTACTTTGGGCTC
 TGGGTTTTCAACAGCTCTGGCCTGCATTGCAATTGGAGGGATGTTTATGGCACTCACCTGGCAGACCC
 ACCTCTGGCTCTTGCCTGTGCCCTGTTCACTGCCTACTTCGGAGCCTGTATGGCACACCTGATGGCTGT
 GGTTCACCTGCCAGCTTGTACCTGGTCTTCTGTTGGCCACACTACTCTTTCTTGTGACCACGAAA
 AATCCCAACATCTACAGGATGCCCTCAGCAAAGTTACCTACTCTGAGGAGAACCGCATCTTCTACCTCC
 AAAACAAGAAAAGGATGGTTGAAAGCCCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205999 representing NM_001171011
 Red=Cloning site Green=Tags(s)

MEDSPTMVKVDRGENQILSCRGRRCGFKVLGYVTGDMKEFANWLKDKPVVLQFMDWILRGISQVVFVSNP
 ISGILILVGLLVQNPWWALCGCVGTVVSTLTALLLSQDRSAIAAGLQGYNATLVGILMAVFSNKGDFYFW
 LIFPVSAMSMTCPVFSSALSSVLSKWDLPVFTLFPNMLSMYLSATGHYNTFFPSKLFPTPVSSVPNITWS
 ELSALELLKSLPVGVGQIYGCNPNWTGGIFLCAILLSSPLMCLHAAIGSLLGVIAGLSLAAPFEDIYFGL
 WGFNSSLACIAIGGMFALTWQTHLLALACALFTAYFGACMAHLMAVVHLPACTWSFCLATLLFLLLTTK
 NPNIYRMPLSKVTYSEENRIFYLQNKRMVESPL

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_001171011

ORF Size: 1152 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_001171011.1](#), [NP_001164482.1](#)

RefSeq Size: 3615 bp

RefSeq ORF: 1155 bp

Locus ID: 108052

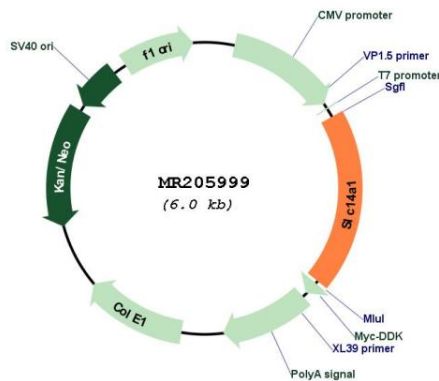
UniProt ID: [Q8VHL0](#)

Cytogenetics: 18 E3

MW: 42.1 kDa

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]

Product images:



Circular map for MR205999