

Product datasheet for **MG218377**

Slc14a1 (NM_001171010) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc14a1 (NM_001171010) 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: >MG218377 representing NM_001171010
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAATGGACAATCTTTGACTGGTGGCACTGATGACGCCCATCACGGTCTCTTTGGATAGACCCTTTG
 GAAATAGAGGCGATAAGGCAGCGCCAGAAGGCTTCAGACGTCTAAGCTTGGCCCTGGCACAAAGGTGGC
 AGAACAGGAGCCAGAGGAAGAGATAGCCATGGAAGATAGTCCACCATGGTTAAAGTAGACCGGGTGAA
 AACCAGATTTTATCATGCCGCGGAGAAGGTGTGGCTTCAAAGTACTTGGCTACGTACGGGTGACATGA
 AGGAATTCGCCAACTGGCTGAAAGACAAACCCGTGGTGTCCAGTTCATGGACTGGATACTTCGTGGCAT
 ATCCCAGGTGGTGTGTGTCAGCAACCCATCAGTGAATCCTGATTCTGGTGGGACTTCTGGTCCAGAAC
 CCCTGGTGGGCTCTCTGTGGCTGTGTAGGAACTGTGGTCTCCACTCTGACAGCCCTCTTGCTTAGCCAAG
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 CGTTGTCGATGTACCTGTACCCACAGGACACTACAATACGTTTTTCCAAGTAACTCTTACACCTGT
 CAGCTCCGTGCCAACATCACGTGGTCTGAGCTCAGCGCCCTGGAGCTATTGAAGTCTCTCCGGTGGGA
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 GAGCCTGTATGGCACACCTGATGGCTGTGGTTCACCTGCCAGCTTGTACCTGGTCTTCTGTTTGGCCAC
 ACTACTCTTTCTTGTGACCACGAAAAATCCCAACATCTACAGGATGCCCTCAGCAAAGTTACCTAC
 TCTGAGGAGAACCGCATTTCTACTCCAAAACAAGAAAGGATGGTTGAAAGCCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218377 representing NM_001171010
Red=Cloning site Green=Tags(s)

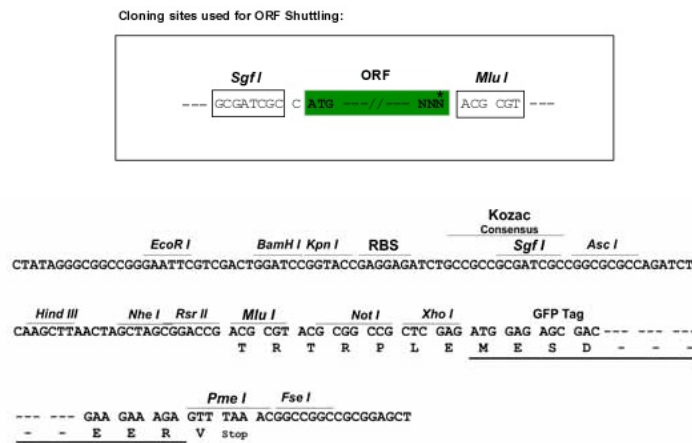
MNGQSLTGGTDDAHHGPLWIDPFGNRGDKAAPEGFRRLLSALAQRWREQEPEEEIAMEDSPTMVKVDRGE
 NQILSCRGRRCGFKVLGYVTGDMKEFANWLKDKPVVLQFMDWILRGISQVVFVSNPISGILILVGLLVQN
 PWWALCGCVGTVVSTLTALLSQDRSAIAAGLQGYNATLVGILMAVFSNKGDYFWWLIFVVSAMSMTCPV
 FSSALSSVLSKWDLPVFTLPFNMALSMYLSATGHYNTFFPSKLFTPVSSVPNITWSELSALELLKSLPVG
 VQIYIGCDNPWTGGIFLCAILLSSPLMCLHAAIGSLLGVIAGLSLAAPFEDIYFGLWGFNSSLACIAIGG
 MFMALTWQTHLLALACALFTAYFGACMAHLMAYVHLPACTWSFCLATLLFLLLTTPKNPIYRMPLSKVTY
 SEENRIFYLQNKRMVESPL

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1424_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001171010

ORF Size: 1320 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_001171010.1](#), [NP_001164481.1](#)

RefSeq Size: 3880 bp

RefSeq ORF: 1323 bp

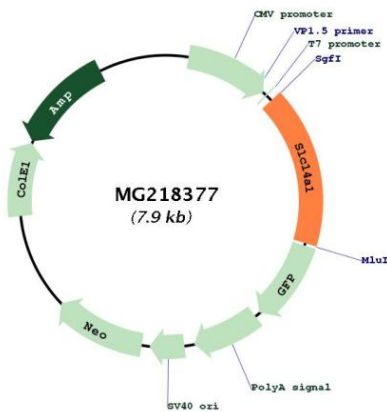
Locus ID: 108052

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]

Product images:



Circular map for MG218377