

Product datasheet for **RR200354**

Slc14a2 (NM_001110270) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc14a2 (NM_001110270) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc14a2
Synonyms: Slc14a2T; Slc14a2_v4; testSymbol; UrT1-C; UrT1-D
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200354 representing NM_001110270
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGAGAGCTCTGAGATAAAGGTAGAAACCAACACAACCAGGACTACCTGGATCCAGAGCTCCATGA
 TCGCTGGGGGAAGAGAGTCAAGCAAGCCCTCAGCTACATCACAGGAGAGATGAAGGAGTCCGGCGAGGG
 ACTTAAAGACAAATCTCCAGTGTCCAGTTTCTTGACTGGGTGCTCCGAGGCACGCTCTCAGTGATGTTT
 GTGAACAACCCTCTCAGTGGCATCCTCATCGTTCTTGGCCTCTTCGTGCAGAATCCCTGGTGGGCCATCT
 CCGTTGCTTGGGCACCATCATGTCCACCTTGACTGCCCTCATCCTGAGCCAGGACAAGTCGGCCATTGC
 AGCAGGACTCCATGGCTACAATGGGGTGTCTGTGGGGCTCCTGATGGCCGTGTTCTCAGACAAGGGCAAT
 TACTACTGGTGGCTGCTGCTCCCGGTACATCGTCATGTCCATGACTTGCCCATCCTCTCCAGTGTCTGA
 GCACCGTCTTCAGCAATGGGACCTCCAGTCTTCACACTGCCCTTCAACATCGCCGTGACCCTGTACCT
 GGCAGCCACGGGCCACTACAATCTTCTTCCACGAAGCTGCTGCAGCCTGCAGTTACCACACCCAAC
 ATCACCTGGTCAAGTGTCCAAGTGCCTTGTCTTCTGAGAGCCATCCCCGTTGGAATCGGCCAAGTGTATG
 GCTGTGACAATCCCTGGACTGGAGGCATCTTCTCGTTGCTGTCTCCTTCACTCTCATCTGCTT
 GCACGCTGCCATCGGATCCACGATAGGGATGTTAGCAGCACTCAGCATTGCCACACCAATTTGACTCCATC
 TACTTTGGCCTGTGTGGCTTCAATAGCACTCTGGCCTGTATCGCTATTGGTGGCATGTTCTACGTATCA
 CCTGGCAGACGCACCTGCTCGCCATTGCCTGTGCCCTGTTTGCAGCCTACCTGGGTGCTGCCCTGGCCAA
 CATGCTGTCTGTGTTGGATTACCACCCTGCACCTGGCCCTTCTGCCTCTCAGCGCTCACCTTCTCCTC
 CTCACAACCAACAACCCTGGCATCTACAAGCTCCCGCTCAGCAAAGTCACCTACCCAGAGGCCAACCCGA
 TCTACTTCTGTCCAGGAGAAAAACAGAAGGGCATCGATGATAACAAAGTACCAGGCCTACGACGTCTC
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200354 representing NM_001110270
 Red=Cloning site Green=Tags(s)

MEESEIKVETNTRTTTWIQSSMIAGGKRVSKALS YITGEMKECGEGLKDKSPVFQFLDWVLRGTSQVMF
 VNNPLSGILIVLGLFVQNPWWAISGCLGTIMSTLTALILSQDKSAIAAGLHGYNGVLVGLLMAVFSKGN
 YYWLLLPVIVMSMTCPISSALSTVFSKWDLPVFTLPFNIAVTLYLAATGHYNLFFPTKLLQPAVTTPN
 ITWSDVQVPLLLRAIPVIGIQVYGCDNPWTGGIFLVALFVSSPLICLHAAIGSTIGMLAALSIAATPFDSI
 YFGLCGFNSTLACIAIGGMFYVITWQTHLLAIACALFAAYLGAALANMLS VFG LPPCTWPFCL SALTFL L
 LTTNNGIYKLP LSKVTYPEANRIYFLSQEKNRRASMITKYQAYDVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

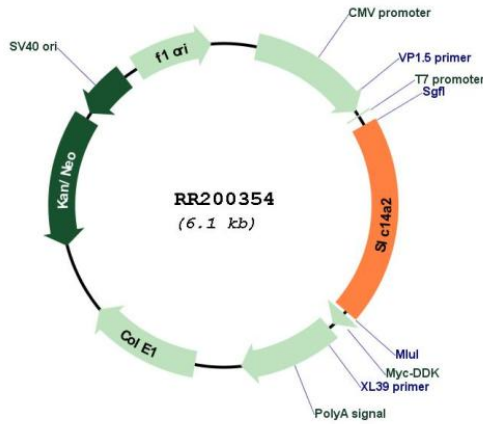
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001110270

ORF Size:	1191 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_001110270.1 , NP_001103740.1
RefSeq Size:	2939 bp
RefSeq ORF:	1194 bp
Locus ID:	54302
UniProt ID:	Q62668
Cytogenetics:	18q12.3
MW:	43.2 kDa
Gene Summary:	acts as an cAMP inducible urea transporter; may play a role in vasopressin regulated renal water absorption [RGD, Feb 2006]