

Product datasheet for **RR200355**

Slc14a2 (NM_177962) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc14a2 (NM_177962) 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



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ORF Nucleotide Sequence:

>RR200355 representing NM_177962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGACCATCCCCTGAAGGAGATGTCTGACAACAACCGCAGCCCCCTTTGCCAGAGCCTTTTCCA
 GCAGATACAAGTTGTATGAGTCAGAGCTAAGCAGCCCTACCTGGCCTTCAAGCTCCAGGATACACACCC
 AGCCCTTCCCCTGCTGGAATGCCTGAAGAAAAGGATCTCCGATCATCGGATGAAGACAGCCACATAGTG
 AAGATTGAAAAGCCCAACGAGCGGAGTAAACGGAGAGAAAAGCGAGTTGCCCGCAGGGCTTCTGCAGGCC
 GGGGAGGCTTACGCTCTTCCAAGCTGTGAGCTACCTACTGGTGACATGAAGGAATGCAAGAACTGGCT
 GAAAGATAAGCCCTGGTCTTCACTTCTAGACTGGGTCTGCGGGGAGCAGCTCAGGTGATGTTTGT
 AACACCCCTTAGTGGGCTCATCATCTTCATAGGGCTCTGATCCAGAATCCCTGGTGGACGATTGCTG
 GGGCAGTGGGACAGTGGTCTAACCTTGGCTGCCCTTGCCTTGAGCCAGGACAGGTGAGCCATCGCCTC
 TGGACTCCATGGGTACAACGGGATGCTGGTGGGACTCCTGGTGGTGTCTTCTCAGAGAAGTTAGACTAC
 TACTGGTGGCTTCTGTTTCTGTGACCTTCGCATCCATGGCTGCCAGTTATTTCTAGTGCCTTGAGCA
 CCGTCTTCGCAAGTGGGACCTGCCAGTCTTACACTGCCCTTCAACATCGCCTTAACACTGTACCTGGC
 AGCTACGGGCCACTACAACCTTTTCTTCCCACGACGCTTGTGAAGCCTGCGTCTTACAGCGCCAACATC
 ACCTGGTCAGAGATTGAGATGCCTTGTGTTTACAACCATCCCCGTTGGGGTGGGCCAGGTCTACGGCT
 GTGACAACCCCTGGACAGGCGCGGTGATCCTGGTGGCTCTGTTTATCTCCTCTCCCCTCATCTGTTTGA
 CGCAGCCATAGGATCCATTGTGGGGTCTGTCGACACTGACGGTGGCCACTCCCTTCGAGACGATCTAC
 ACGGGCCTTTGGAGCTACAACCTGTCTCTCTGTGTGCCATTGGAGGCATGTTCTACGTACTCACT
 GGCAGACACACCTGTTGGCACTGTCTGTGCCCTGTTCTGTGCGTACACGGGAGCGGCCCTCCAATAT
 GATGGCAGTGGTTGGTGTGCCACCGGGCACCTGGGCCCTTCTGTCTCCACCCTCACCTTCTTCTCCTC
 ACAAGCAACAACCTGGCATCCACAAGCTCCCACTCAGCAAAGTCACTACCCAGAGGCCAACCGCATCT
 ACTTCTGACAGCGAAACGAGTACGAGCAGAAGCCCCCAATGGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200355 representing NM_177962
 Red=Cloning site Green=Tags(s)

MSDHPLKEMSDNRSPLPEPLSSRYKLYESELSSPTWPSSSQDTHPALPLEMPEEKDLRSSDEDSHIV
 KIEKPNERSKRRESELPRRASAGRGGFSLFQAVSYLTGDMKECKNWLKDKPLVLQFLDWLVRGAAQVMFV
 NNPLSGLIIFIGLLIQNPWWTIAGALGTVVSTLAAALASQDRSAIASGLHGYNGMLVGLLVAVFSEKLDY
 YWLLFPVTFASMACPVISSALSTVFAKWDLPVFTLPFNIALTLYLAATGHYNLFFPTTLVKPASSAPNI
 TWSEIEMPLLLQTIIPVGVGVYGCNDPWTGGVILVALFISSPLICLHAAIGSIVGLLAALTVATPFETIY
 TGLWSYNCVLSVAIGGMFYVLTWQTHLLALVCALFCAYTGAALSNMMAVVGVPPTWAFCLSTLTFLLL
 TSNPPIHKLPLSKVTYPEANRIYFLTAKRSDEQKPPNGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

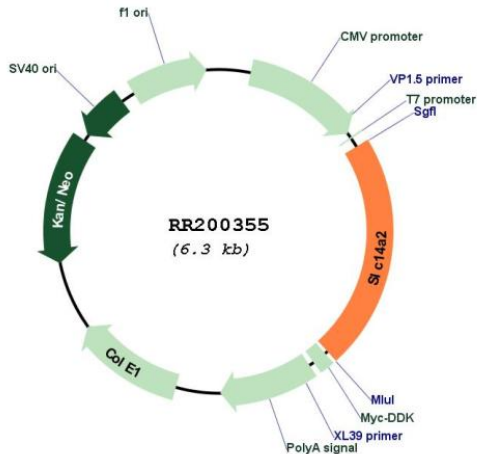
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177962

ORF Size: 1380 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_177962.3](#), [NP_808877.2](#)

RefSeq Size: 1989 bp

RefSeq ORF: 1383 bp

Locus ID: 54302

UniProt ID: [Q62668](#)

Cytogenetics: 18q12.3

MW: 50.4 kDa

Gene Summary: acts as an cAMP inducible urea transporter; may play a role in vasopressin regulated renal water absorption [RGD, Feb 2006]