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# Product datasheet for RR200356

## Slc14a2 (NM_019347) Rat Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Slc14a2 (NM_019347) 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:**

>RR200356 representing NM_019347
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGACCATCCCCTGAAGGAGATGTCTGACAACAACCGCAGCCCCCTCTTGCCAGAGCCTCTTTCCA
GCAGATACAAGTTGTATGAGTCAGAGCTAAGCAGCCCTACCTGGCCTTCAAGCTCCCAGGATACACACCC
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AACAACCCCCTTAGTGGGCTCATCATCTTCATAGGGCTCCTGATCCAGAATCCCTGGTGGACGATTGCTG
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ACCTGGTCAGAGATTGAGATGCCTTTGCTGTTACAAACCATCCCCGTTGGGGTGGGCCAGGTCTACGGCT
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ACAAGGATGACGACGATAAGGTTTAA

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**Protein Sequence:**

>RR200356 representing NM_019347
Red=Cloning site Green=Tags(s)

MSDHPLKEMSDNNRSPLLPEPLSSRYKLYESELSSPTWPSSSQDTHPALPLLEMPEEKDLRSSDEDSHIV
KIEKPNERSKRRESELPRRASAGRGGFSLFQAVSYLTGDMKECKNWLKDKPLVLQFLDWVLRGAAQVMFV
NNPLSGLIIFIGLLIQNPWWTIAGALGTVVSTLAALALSQDRSAIASGLHGYNGMLVGLLVAVFSEKLDY
YWWLLFPVTFASMACPVISSALSTVFAKWDLPVFTLPFNIALTLYLAATGHYNLFFPTTLVKPASSAPNI
TWSEIEMPLLLQTIPVGVGQVYGCDNPWTGGVILVALFISSPLICLHAAIGSIVGLLAALTVATPFETIY
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TIMSTLTALILSQDKSAIAAGLHGYNGVLVGLLMAVFSDKGNYYWWLLLPVIVMSMTCPILSSALSTVFS
KWDLPVFTLPFNIAVTLYLAATGHYNLFFPTKLLQPAVTTPNITWSDVQVPLLLRAIPVGIGQVYGCDNP
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LLAIACALFAAYLGAALANMLSVFGLPPCTWPFCLSALTFLLLTTNNPGIYKLPLSKVTYPEANRIYFLS
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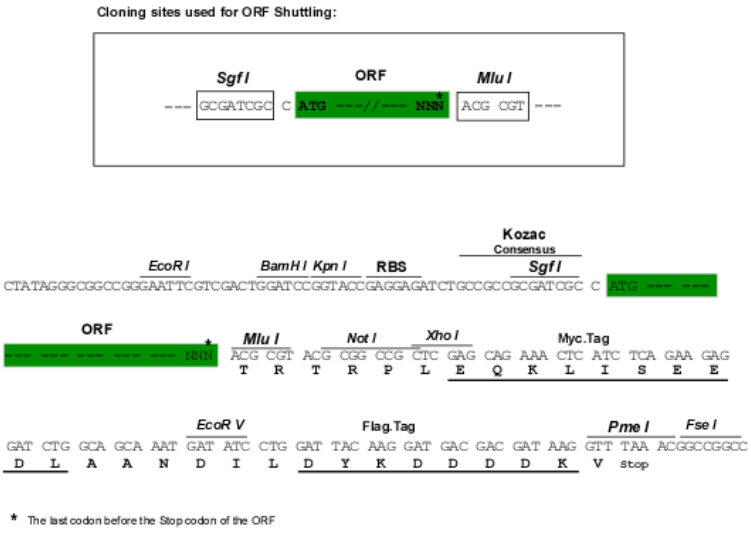
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

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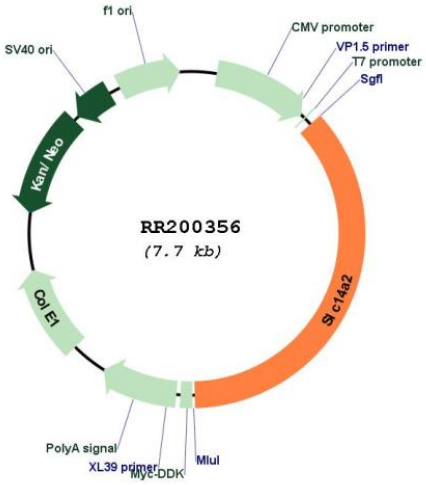
Plasmid Map:

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|---|---|
| **ACCN:** | NM_019347 |
| **ORF Size:** | 2787 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_019347.2, NP_062220.2 |
| **RefSeq Size:** | 3983 bp |
| **RefSeq ORF:** | 2790 bp |
| **Locus ID:** | 54302 |
| **UniProt ID:** | Q62668 |
| **Cytogenetics:** | 18q12.3 |

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| | |
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| **MW:** | 101.9 kDa |
| **Gene Summary:** | acts as an cAMP inducible urea transporter; may play a role in vasopressin regulated renal water absorption [RGD, Feb 2006] |

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