

Product datasheet for **RR211439**

Slc22a6 (NM_017224) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a6 (NM_017224) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc22a6
Synonyms:	Oat1; Orctl1; Paht; Roat1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR211439 representing NM_017224
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTCAATGACCTCCTGAAACAGGTGGGGGCGTCCGACGCTTCCAGTTGATCCAGGTACCATTGG
 TGGTTGCTCCCTACTGCTGATGGCTTCCACAAACACCTTGCAGAACTTCACTGCCGCTATCCCCCTCA
 TCACTGCCGCCACCTGCCAATGCCAATCTCAGCAAAGATGGAGGTCTGGAGCCTGGCTGCCCTGGAC
 AAGCAAGGACAACCCGAATCTTGCTCCGCTTTACTTCCCCCAGTGGGACCACCTTTTACAATGGCA
 CAGAAGCCAATGGCACCAGAGTCACAGAGCCCTGCATTGATGGCTGGGTCTATGACAACAGCACCTTCCC
 TTCAACCATCGTGACTGAGTGAACCTTGTGTCTCTCATCGGGCTTCCGCCAGCTGGCCAGTCCCTG
 TACATGGTGGGAGTGTCTGGGAGCCATGGTGTGGTACCTGGCGGACAGGTGGGCCCGCGGAAGG
 TGCTGATCTTGAACACCTGCAGACAGCTGTGTGGGAACCTGTGCAGCCTATGCACCAACTATACTGT
 CTACTGCGTTTTCCGGCTCCTCTCGGGCATGTCTTTGGCTAGCATTGCAATCAACTGCATGACACTAAAT
 GTGGAATGGATGCCTATCCACACCCGTCCTATGTGGGCACCTTGATTGGCTATGTCTACAGCCTGGCC
 AGTTCTCCTGGCTGGCATCGCCTATGCTGTGCCCACTGGCGCCACCTGCAGCTTGTGGTCTCTGTGCC
 TTTTTTCATTGCCTTCACTACTCTTGGTCTTTCATTGAGTCAGCCCGCTGGTACTCCTCCTCAGGAAGG
 CTGGACCTCACCTCCGAGCCCTGCAGAGAGTGGCCCGGATCAATGGGAAACAAGAAGAAGGGGCTAAGC
 TAAGTATAGAGGTGCTCCGACCAGCCTGCAGAAGGAAGTACTAAGCAAAGGCCAAGCCTCAGCCAT
 GGAGCTGCTGCGCTGCCCAACCTTGCACACCTTCTCCTGTCTCTCCATGCTGTGGTTTGGCCTAGC
 TTTGCCTACTACGGGCTGGTCAATGGACCTGCAGGGCTTGGGGTCAAGTGTACCTTATCCAGGTGATT
 TCGGTGCCGTGGACCTGCCTGCCAAGTTGTATGCTTCTAGTCATCAACTCCATGGGGCCGCCCTGC
 ACAGATGGCCTCCCTGCTGCTGGCAGGCATCTGCATCCTGGTGAATGGCATAATACCGAAGAGCCATACG
 ATCATTGCACCTCCCTGGCTGTGCTAGGGAAGGGCTGCCTGGCTTCTCTTTCAACTGCATCTTCTGT
 ACACCGGAGAGCTGTACCCACAGTGATTGGCAGACAGGCCTGGGCATGGGCAGCACCATGGCCCGGT
 GGGCAGCATTGTGAGCCCGCTGGTGAATGACTGCAGAGTTCTACCCCTCCATGCCTCTTTCATCTTC
 GGGCCTGTCCCTGTGGTCCGAGTGTCTACTGCCCTGTGCCAGAGACCTGGGCCAGCCGCTGCCAG
 ATACAGTGCAGGACCTGAAGAGCAGGAGCAGAGGAAAGCAGAATCAACAGCAGCAGGAACAGCAGAAGCA
 GATGATGCCGCTCCAGGCTCAACACAAGAGAAGAATGGACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR211439 representing NM_017224
 Red=Cloning site Green=Tags(s)

MAFNDDLKQVGGVGRFQLIQVTMVVAPLLLMAHNTLQNFATAIPPHCRPPANANLSKDGGLEAWLPLD
 KQGQPESCLRFTSPQWPPFYNGTEANGTRVTEPCIDGWVYDNSTFPSTIVTEWNLVCSHRAFRQLAQSL
 YMVGVLLGAMVFGYLADRLGRRKVLILNYLQTAVSGTCAAYAPNYTVYCVFRLSGMSLASIAINCMTLN
 VEWMPIHTRAYVGTLLIGYVYSLGQFLLAGIAYAVPHWRHLQLVSVPPFFIAFIYSWFFIESARWYSSGR
 LDLTLRALQRVARINGKQEEGAKLSIEVLRSLQKELTLKQASAMELLRCPTLRHLFLCLSMWFATS
 FAYYGLVMDLQGFVSMYLIQVIFGAVDLPAKFVCFVINSMGRRPAQMASLLLAGICILVNGIIPKSH
 IIRTSLAVLKGKCLASSFNCFIYTGELYPTVIRQTGLGMGSTMARVGSIVSPLVSMTAEFYPSMPLFIF
 GAVPVVASAVTALLPETLGQPLPDTVQDLKSRSGKQKQKQKQKQMMPLQASTQEKNGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

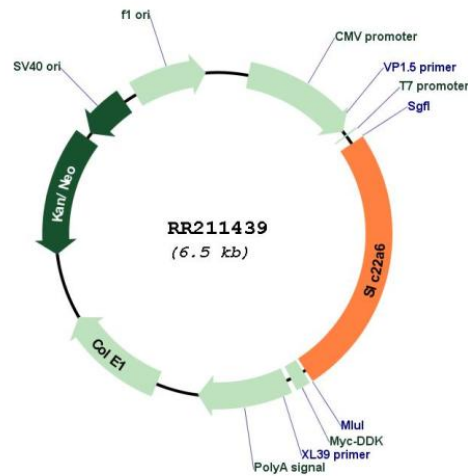
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_017224
ORF Size:	1653 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_017224.2 , NP_058920.1
RefSeq Size:	2025 bp
RefSeq ORF:	1656 bp
Locus ID:	29509
UniProt ID:	O35956
Cytogenetics:	1q43
MW:	60.8 kDa
Gene Summary:	multispecific organic anion transporter; involved in anion transport in a proximal tubule in the kidney [RGD, Feb 2006]