

Product datasheet for **RR209606**

Slc1a7 (NM_001108973) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a7 (NM_001108973) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc1a7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR209606 representing NM_001108973
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATGGTGCCAACAGGCTGGGCTCAGCATGGTGTCTGGGCGCCTTTCTGGCTCGAGGGCGGGCAGTGT
 GTAGACACAACGGGCTCCTCATCCTGTCTGTGCTGTGTCATCGTGGGCTGCCTCCTTGGCTTCTTCTCT
 CAGGACCCAGCGCCTCTACCACAGGAGATTAGCTACTTCCAGTTCCTGGAGAACTCTTGATGAGGATG
 CTGAAGATGCTGATCCTACCACTGGTGGTCTCCAGCTTGTGCTGGCCTTGCCTCCCTGGATGCCAAGA
 CCTCCAGCCGCTTGGGCATCCTCACCGTGGCATAATTACCTGTGGACCACCTTTCTGGCTGTCGTCTGGG
 CATCATCATGGTCTCCATCATCCACCCTGGTGGTGCAGCACAGAAGGAGACCACCGAACAGAGTGGAAAG
 CCAGTCATGAGCTCAGCCGATGCCCTCCTGGACCTTGTCCGGAACATGTTCCAGCCAACCTGGTAGAAG
 CCACATCAAACAGTACCGCACAAAACCACCCAGTTATCAAGTCTCCCAAAGGGGCTGCGGAGGAGGC
 CCCTCCCGGGGGATCGTCATCTACGGGGTCCAGGAAGACAACGGCTCACGTGTGAGAACTTTGCCCTG
 GACCTGACGCCCCCGCTGAGATTGTCTATAAGTCAGAGCCTGGTACGAGTGACGGCATGAACGTGCTAG
 GCATCGTCATCTTCTCGGCCACTATGGGCATCATGCTGGGCCGATGGGTGACAGCGGGACCCCCCTGGT
 CAGCTTCTGTGAGTGCCTTAATGAGTCCGTGATGAAGATCGTGGCAGTGGCAGGGTGGTACTTCCCTTC
 GGCATTGTCTTCTGATCGCTGGCAAGATCCTGGAGATGGATGACCCCAAGGCTGTGGGGAAGAAGCTGG
 GCTTCTATGCCGTGACCGTGGTTTGTGGGCTGGTGGTCCACGGTCTCCTAATCCTGCCCTGCTGTATTT
 CCTCATACCAGGAAGAACCCATCGTCTTCCATCCGTGGCGTCTCCAAGCTCTGCTCATTGCACTGGCC
 ACCTCCTCAGCTCAGCCACCCGCCCACCTCAACCTCAAGTGTCTGCTGGAGAACAACCACATCGACCGAC
 GCATCGCTCGCTTGTGCTGCCCCGGGCGCCACCATCAACATGGACGGCACTGCGCTCTACGAGGCTGT
 GGCTGCCATCTTTATTGCCAGGTCAACAACACTACGAGCTAGACTTTGGCCAGATCATCACTATCAGCATT
 ACAGCCACTGCAGCCAGCATTGGGGCGGCTGGCATCCCGCAGGCAGGGCTCGTCACCATGGTCATTGTGC
 TCACCTCTGTGGGACTGCCGACCGATGACATCAACCTCATCATCGCTGTAGACTGGGCACTGGATCGCTT
 CCGAACCATGATTAACGTGCTGGGCGATGCGCTGGCAGCAGGGATCATGGCCACATCTGCCGGAAGGAT
 TTTGCTCAGGACATGGGCACTGAGAAATTGCTGCCCTGTGAAACCAAGCCAGTGACACTGCAGGAGATCG
 TGGCTGCCAGCAGAACGGCTGTGTGAAGAGTGTGGCTGAGGCCTCAGAGCTAACCTGGGCCCAAGTG
 TCCACACCACATCCCGTCCAGGTAGAGCAGGATGAAGAGCTGGCCACTGCCAGCCTAGACCCTGCACT
 ATCGAGATCAATGAGCTGGAGACCAATGTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209606 representing NM_001108973
 Red=Cloning site Green=Tags(s)

MEWCQQAGLSMVLGAFLARGRAVCRHNGLLILSVLSVIVGCLLGFLLRTQRLSPQEISYFQFPGELLMRM
 LKMLILPLVVSSLSMGLASLDAKTSSRLGILTVAYYLWTTFLAVVVGIIIMVSIHPPGAAQKETTEQSGK
 PVMSSADALLDLVRNMFANLVEATFKQYRTKTPVIKSPKGAAEEAPPRGIVIVGVQEDNGSRVQNFAL
 DLTPPPEIVYKSEPGTSDGMNVLGIVIFSATMGIMLGRMGDSGTPLVSFCQCLNESVMKIVAVAGWYFPF
 GIVFLIAGKILEMDDPKAVGKKLGFYAVTVVCGLVVHGLLILPLLYFLITRKNPIVIFIRGLVQALLIALA
 TSSSSATLPITFKLLENNHIDRRIARFVLPVGATINMDGTALYEAVAAIFIAQVNNYELDFGQIITISI
 TATAASIGAAGIPQAGLVTMIVILTSVGLPTDDINLIIAVDWALDRFRMTINVLGDALAAGIMAHICRKG
 FAQDMGTEKLLPCETKPVTLQEIVAAQQNGCVKSVAEASELTLGPKCPHHIPVQVEQDEELATASLDHCT
 IEINELETNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ORF Size:	1710 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_001108973.1 , NP_001102443.1
RefSeq Size:	2786 bp
RefSeq ORF:	1713 bp
Locus ID:	366432
Cytogenetics:	5q34
MW:	61.3 kDa