

Product datasheet for **RR207318**

Slc7a5 (NM_017353) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a5 (NM_017353) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc7a5
Synonyms:	E16; TA1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR207318 representing NM_017353
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGTGCGGGCGCAAAGCGGCGCGGTTGCGGCCCGCGACGACGGCGGGAGGAGAGCGGC
 AGGCGCGGAGAAGATGCTGGAGGCGCGCGGGACGCGCGGACCCGAGGGCGAAGCGGTGACCCCT
 GCAGCGCAATATCACACTGATCAATGGTGTGGCCATCATAGTGGGACCATCATCGGTTCCGGCATCTTC
 GTGACGCCACCGCGTCTCAAGGAAGCCGGCTCGCCCGGACTGTCGCTTGTGGTGTGGCTGTGTGCG
 GCGTCTTCTCCATCGTGGGCGCACTGTGCTACGCGGAGCTGGGCACTACCATCTCAAAGTCAGGCGGCGA
 CTATGCCTACATGCTAGAGGTCTACGGCTCGTGCCTCCGCTTCTCAAGCTCTGGATCGAGCTGCTCATC
 ATTCGGCCCTCTCACAGTACATCGTGGCGCTGGTCTTCGCCACATACCTGCTCAAGCCGGTCTTCCCCA
 CTTGTCCCGTCCCGAGGAGGCTGCCAAGCTCGTGGCCTGCCTCTGCGTGTACTACTCACGGCTGTGAA
 CTGCTACAGTGTGAAGGCTGCTACCCGTGTGCAGGATGCCTTTGCGGCTGCCAACTGCTGGCCCTGGCC
 CTATCATCCTGCTCGGCTTCATCCAGATGGGAAAGGACATAGGACAAGGGGATGCATCCAACTGCACC
 AGAAGTTGTCCTTTGAAGGCACCAATCTGGACGTGGGGAACATTGTGTTGGCATTGTACAGTGGCCTCTT
 CGCCTACGGAGGATGGAATATCTGAATTTTGTACGGAGGAGATGATCAACCCCTACAGGAACCTCCCC
 CTGGCCATCATCATCTCCTTGCCATTGTACCCTGGTCTATGTGCTGACGAACCTGGCCTACTTCACTA
 CCCTGTCTACCAACCAGATGCTGACATCTGAAGCCGTGGCTGTGGATTTTGGGAACCTACCACCTGGGAGT
 CATGCTCGGATCATTCTGTCTTCGTGGGCTTGTCTGCTTCCGCTCTGCAATGGGTCTCTGTTCAGC
 TCCTCAAGACTGTTCTTCGTGGGATCCAGGGAGGGCCACCTGCCTCCATCCTCTCCATGATCCACCCAC
 AGCTTTGACACCGGTGCCATCACTGGTGTTCACGTGTGTCATGACCCTGATGTACGCTTCTCCAGGAT
 CATCTTCTCCATCACTCACTTCTTCAGCTTCTTCAACTGGCTGTGTGGCCCTGGCCATCATCGGCATG
 ATGTGGCTCCGCTTTAAGAAGCCTGAGCTGGAGCGTCCCATCAAGGTGAATCTGGCCCTCCAGTGTCTT
 TTATCCTGGCCTGCCTTCTCCTCATCGCCGTGTCTTCTGGAAGACCCCTGGAGTGGCGCATTGGCTT
 CGCCATCATCCTCAGCGGGCTGCCTGTCTACTTCTTTGGTGTGTGGTGGAAAAACAAGCCCAATGGATC
 CTGCAGGTCTCTCCGTGACCGTGTCTGCCAGAAGCTGATGCAGGTGGTCTCAGGAGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207318 representing NM_017353
 Red=Cloning site Green=Tags(s)

MAVAGAKRRAVAAPATTAEEERQAREKMLEARRGDGADPEGEGVTLQRNITLINGVAIIIVGTIIGSGIF
 VTPTGVLKEAGSPGLSLVWAVCGVFSIVGALCYAELGTTISKSGGDYAYMLEVYGSPLPAFLKLWIELLI
 IRPSSQYIVALVFATYLLKPVFPTCPVPEEAAKLVAQLCVLLL TAVNCYSVKAATRVQDAFAAKLLALA
 LIILLGF IQMGKDIGQGDASNLHQKLSFEGTNLDVGNIVLALYSGLFAYGGWNYLNFVTEEMINPYRNL
 LAIIISLPIVTLVYVLTNLAYFTTLSTNQMLTSEAVAVDFGNHYHLGVMSWIIPVFVGLSCFSGVNGSLFT
 SSRLFFVGSREGHLPSILSMIHPQLLTPVPSLVFTCVMTLMYAFSRDIFSIINFFSFFNWLCVALAIIGM
 MWLRFKKPELERPIKVNLAALPVFFILACLFLIAVSFWKTPLECGIGFAIILSGLPVYFFGVWKNKPKWI
 LQVIFSVTVLCQKLMQVVPQET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

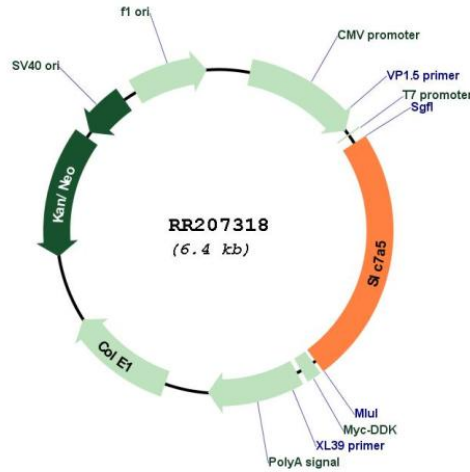
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_017353

ORF Size: 1536 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_017353.1](#), [NP_059049.1](#)

RefSeq Size: 3455 bp

RefSeq ORF: 1539 bp

Locus ID: 50719

UniProt ID: [Q63016](#)

Cytogenetics: 19q12

MW: 55.9 kDa

Gene Summary: integral membrane proteininvolved in liver development, carcinogenesis, and cell activation [RGD, Feb 2006]