

Product datasheet for **RR206449**

Slc7a8 (NM_053442) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a8 (NM_053442) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc7a8
Synonyms:	Lat2; Lat4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR206449 representing NM_053442
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAAAGGAACCCGACAGCGAAACAACACCCGGAAGAACCACCCGGACCCGGATCTGACACCAGCC
 CTGAGGCCGAGGCTAGCTCGGGAGGGGGCGGAGTAGCCCTGAAGAAAGAGATCGATTGGTCAGCGCCTG
 TGGTATCATTGTAGGGAACATCATTGGCTCCGGAATCTTCGTCTACCAAAGGGTGTGCTGGAGAACGCT
 GGCTCGGTGGCCTTGCTCTCATTGTCTGGATCGTGACGGGTGTCATCACGGCTGTGGGAGCTCTGCT
 ATGCTGAACTAGGTGTCACCATCCCTAAATCTGGAGGTGATTACTCTATGTCAAGGACATCTTCGGAGG
 ACTGGCTGGGTTCTGCGGCTATGGATTGCTGTGCTGGTATCTACCCACCAACCAAGCTGTCATCGCC
 CTCACCTTCTCCAATATGTGCTGCAGCCACTTCCCTACCTGCTTCCCCCTGAGTCCGGCTGCGAC
 TCCTGGCTGCCATCTGCCTGTTGCTGCTCACATGGTCAACTGCTCCAGTGTCCGATGGGCCACCCGGT
 TCAAGATATCTCACGGCTGGGAAGCTCCTGGCCCTGGCTCTGATCATCATCATGGTGTGTGTCAGATA
 TGCAAAGGAGAATTCTTTGGCTGGAGCCAAGAATGCATTTGAGAATTTCCAAGAACCAGACATCGGCC
 TCGTCGCTCTGGCTTTCCTCCAGGGCTCCTTGGCTACGGAGGCTGGAATTCCTTAATTACGTGACGGA
 GGAACCTTGATGCTTACAAGAACCTTCTAGAGCCATCTTCAATTTCCATCCCCTGGTACATTTGTG
 TACGTCTTTGCTAATATCGCCTATGCTACTGCAATGTCCCCCAGGAGCTGCTGGCCTCAAATGCAGTGC
 CTGTGACTTTTGGAGAGAAGCTCCTAGGGGTGATGGCCTGGATCATGCCATTTCCGTCCGCTGTCCAC
 ATTTGGTGGAGTCAACGGTTCCTCTTCCCTCCTCCCGCTGTCTTTGCTGGAGCCAGAGAAGGCCAC
 CTTCCCAGCGTGTAGCCATGATCCACGTGAAGCGTGCACCCCAATCCCAGCACTGCTCTTACATGCC
 TCTCCACCTGCTGATGCTGGTACCAGTACATGTATACACTCATCAACTACGTGGGCTTCACTCAACTA
 CCTCTTCTACGGGTTACAGTTGCAGGACAGATAGTCCTTCGCTGGAAGAAGCCTGACATCCCCGCCCC
 ATCAAGATCAGCCTGCTGTTTCCATCATCTACTTGTGTTCTGGGCCTTCTGCTGATTTTCAGCCTGT
 GGTGAGAGCCAGTAGTATGCGGCATTGGCCTTGCATCATGCTGACGGGTGTTCTGTATACTTCTGGG
 TGTCTACTGGCAACACAAACCAAGTGTTCATGACTTCAATGACTTCAATGAGTCCCTAACTCTAGT
 GAGTCAAGAAATGATGACGTAGAGGAAC AACACAAGCCTATCTCCAGCCTACTCCTGTCAAGGACCCAGACTCGGAGGAGCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206449 representing NM_053442
 Red=Cloning site Green=Tags(s)

MEKTRQRNNTAKNHPDRGSDTSPEAEASSGGGVALKKEIGLVSAACGIIIVGNIIGSGIFVSPKGVLENA
 GSVGLALIVWIVTGVITAVGALCYAELGVTIPKSGGDYSYVKDIFGGLAGFLRLWIAVLVIYPTNQAVIA
 LTFSNYVLQPLFPTCFPPESGLRLLAAICLLLLTWVNCSSVRWATRVQDIFTAGKLLALALIIIMGVVQI
 CKGEFFWLEPKNAFENFQEPDGLVALAFLQGSFAYGGWNFLNYVTEELVDPYKNLPRAIFISIPLVTFV
 YVFANIAIYVTAMSPQELLASNAVAVTFGEKLLGVMWIMPISVALSTFGGVNGSLFTSSRLFFAGAREGH
 LPSVLAMIHVKRCTPIPALFTCLSTLLMLVTSDMYTLINYYVGFINYLFYGVTVAGQIVLRWKKPDI
 IKISLLFPIIYLLFWAFLLIFSLWSEPVCIGLAIMLTGVPVYFLGVYVQHKPKCFNDFIESLTLVSQK
 MCVVVYPQEGDSGTEETIDDVVEEQHKPIFQPTPVKDPDSEEQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_053442

ORF Size: 1599 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_053442.1](#), [NP_445894.1](#)

RefSeq Size: 4117 bp

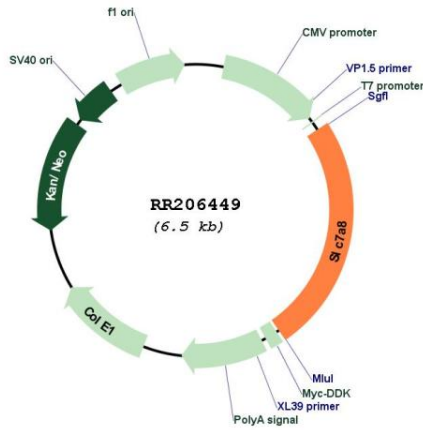
RefSeq ORF: 1602 bp

Locus ID: 84551

UniProt ID: [Q9WVR6](#)

Cytogenetics: 15p13
MW: 58.2 kDa
Gene Summary: transports all neutral amino acid L-isomers; activity is Na⁺ independent; may play a role in neutral amino acid transport in epithelial and blood-tissue barriers [RGD, Feb 2006]

Product images:



Circular map for RR206449