

Product datasheet for **RR200308**

Slc7a2 (NM_022619) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a2 (NM_022619) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc7a2
Synonyms:	Cat2; Cat2a; Cat2b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR200308 representing NM_022619
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTCCCTGCAGAGCAGTGCTGACTTTCACACGATGTCTGATCCGGAGAAAAATTGTCACACTGGACA
GTCTGGAAGATTCAAAACCTGCGCGCTGCTTAACCACCATGGACCTCATCGCCCTGGGAGTTGGAAGCAC
TCTCGGCCTGGGGTTTACGTCCTGGCTGGAGAAGTCGCCAAAGCTGACTCCGGCCCTAGTATTGTGGTG
TCTTCTCATCGCTGCCTGGCTTCGGTGATGGCCGGCCTTTGCTACGCTGAATTTGGGGCCCGAGTAC
CAAAGACTGGATCTGCGTATCTATACACATACGTACGTTGGAGAGCTGTGGCCTTCACACTGGTTG
GAATCTCATTCTGTCATATGTCATAGGTACGTCCAGTGTGCAAGAGCTTGGAGTGGCACCTTCGATGAG
CTTCTTAAACAACAGATTGGCCAGTTTTTCAAGACCTACTTCAAATGAATTACACCGGTCTGGCGGAGT
ATCCGGACTTCTTGGCGTGTGCCTTGATTACTTCTGGCAGGTCTTTTATCTTTGGAGTAAAGGAGTC
TGCTTGGGTGAATAAATTTTTACAGCTATTAATATCCTGGTCTTCTTTGTCATGGTGGCTGGGTTT
GTGAAAGGAAATGTGGCTAACTGGAAGTACAGTGAAGAATTTCTCAAGAATATATCAGCAAGTGCCAGAG
AACCACCTTCTGAAAATGGAACAAGCATCTACGGGGCTGGCGGCTTCATGCCTTATGGCTTACAGGGAC
GCTGGCTGGTGTGCAACGTGCTTTATGCCTTTGTGGGCTTTGACTGCATTGCAACAACCGGCGAAGAG
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TGCAATTTGAATATGTCGGATGGGGTCTGCTAAATACGTTGTGCGCGCAGGCTCCCTCTGCGCCTTATCA
ACAAGTCTTCTGGGTTCTATGTTCCCTTACCCCGCATTCTGTTGCCATGGCCCGGATGGCTTACTGT
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TGCTGTGATGGCCTTTCTTTTACCTGAAGGCTCTCGTGGACATGATGTCTATTGGCACCTCATGGCC
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TGCCGTACCTGACCATTTGGAGGCAGCCACAGAATCAGCAAAAAGTAGCCTTCATGGTCCCGTTCTTA
CCGTTTCTGCCGCTTACGATCCTGGTCAACATTTACTTGATGGTCCAGTTAAGCGCGGACACTTGGG
TCAGATTCAGCATCTGGATGGTGTCTGGCTTTCTGATTTACTTCGCTATGGCATTAGACACAGCTTGG
GGTAACCCAGGGATGAAGAAGAAGATGAAGATGTCTGTCCAGACAACGTCAATGCAGCAGCAGAAGAA
AAGTCTGCCATGCAGGCAATGACCATACCAAAGAACTCAGCTTGCCTTTCATACTTCATGAAAAGA
CAAGTGAATGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200308 representing NM_022619
 Red=Cloning site Green=Tags(s)

MIPCRAVLTFTRCLIRRKIVTLDLSLEDSKLCRCLTTMDLIALGVGSTLGAGVYVLAGEVAKADSGPSIVV
 SFLIAALASVMAGLCYAEFGARVPKGTGSAYLYTYVTGELWAFITGWNLILSYVIGTSSVARAWSGTFDE
 LLNKQIGQFFKTYFKMNYTGLAEYPDFFAVCLVLLLAGLLSFGVKESAWVNKFFTAIINILVLLFVMVAGF
 VKGNVANWKISEEFLKNIASASAREPPSENGTSIYGAGGFMPYGF TGLAGAATCFYAFVGFDCIATTGEE
 VRNPQKAIPIGIVTSLLVCFMAYFGVSAALTLMPYYLLDEKSPLPVAFEYVVGWGPAPKYVVAAGSLCAL
 TSLLGSMFPLPRILFAMARDGLLFRFLARVSKRQSPVAATMTAGVISAVMAFLFDL KALVDMMSIGTLM
 YSLVAACVLILRYQPGLCYEQPKYTPEKDILECTNATSKSESQVTMLQGQGFSLRFLFNPSALPTRQSA
 SLVSFLVGFLAFLIAGLSILTTYGVQAIARLEAWSLALLALFLVLC AAVILTIWRQPQNQKQVAFMVPFL
 PFLPAFSILVNIYLMVQLSADTWVRF SIWMVLGFLIYFAYGIRHSLEGNRDEEDEDVCPDNVNAAAEE
 KSAMQANDHHQRNLSLPI LHEKTSEC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

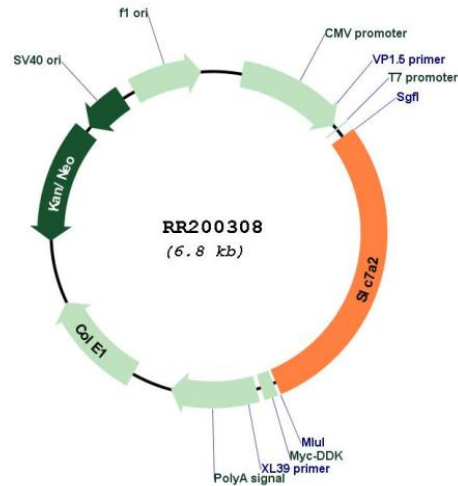
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022619

ORF Size: 1971 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_022619.3](#), [NP_072141.2](#)

RefSeq Size: 2497 bp
RefSeq ORF: 1974 bp
Locus ID: 64554
UniProt ID: [B5D5N9](#)
Cytogenetics: 16q12.1
MW: 71.7 kDa
Gene Summary: a glomerular cationic amino acid transporter which transports L-Arginine [RGD, Feb 2006]