

Product datasheet for **RR203125**

Slc1a3 (NM_019225) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a3 (NM_019225) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc1a3
Synonyms:	EAAT1; GLAST; GLAST-1; GluT-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR203125 representing NM_019225
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAAAAAGCAACGGAGAAGAGCCAGGATGGGAAGCAGGATGAAAGATTCCAGCAAGGGTGCGCA
 AGCGGACGCTCCTGGCCAAGAAGAAAGTTCAGAACATCACCAAGGAGGATGTGAAGAGCTACCTGTTTCG
 GAATGCCTTTGTGCTACTCACCGTCAGCGCTGTATTGTGGGTACAATCCTTGGATTTCGCCCTCCGACCG
 TATAAAATGAGCTACCGGGAGGTCAAGTACTTCTCCTTCTGGGGAGCTTCTGATGCGGATGCTGCAGA
 TGTTGGTCTTACCCTGATCATCTCCAGTCTTGTACAGGAATGGCGGCCCTAGATAGTAAGGCATCTGG
 GAAGATGGGGATGCGAGCTGTGGTCTATTACATGACTACCACCATCATTGCTGTGGTGTGCGCATAATC
 ATTGTCATCATCATCCACCCCGAAAGGGCACGAAAGAAAACATGTACAGAGAAGGTAATAATCGTGCAGG
 TGACTGCCGAGATGCCTTCTGGATTTAATCAGGAACATGTTCCACCCAATCTGGTAGAAGCCTGCTT
 TAAACAGTTTAAAACCAGCTATGAGAAGAGAAGCTTTAAAGTGCCCATCCAGGCCAACGAAACACTGTTG
 GCGCCGTGATCAACAACGTGTACAGAGGCCATGGAGACTCTGACCCGGATCCGGGAGGAGATGGTACCCG
 TTCTGGGTCTGTGAATGGGGTCAATGCCTGGGCCTCGTTGTCTTCTCCATGTGCTTCGGCTTCGTGAT
 CGGAAACATGAAGGAGCAGGGGCAAGCGCTAAGAGAGTCTTTCGACTCTCTCAATGAAGCCATCATGAGA
 TTGGTAGCGGTGATAATGTGGTATGCACCTCTGGGCATCCTCTTCTTGTATCGCAGGGAAGATTGTTGAGA
 TGGAAGATATGGGTGTGATTGGGGGGCAGCTTGCCATGTATACAGTGACAGTATCGTCCGGCCTCCTCAT
 TCATGCCGTATCGTCTGCCTCCTCTACTTCTGTAACCCGGAAGAACCCCTGGGTTTTATTGGA
 GGGTGTCTGCAAGCACTCATCACAGCCCTGGGGACCTCCTCAAGTCTGCCACCCCTGCCATCACTTCA
 AGTGCCTGGAAGAAAACAATGGTGTGGACAAACGCATCACCAGATTTGTGCTTCCCGTGGGGGCCACCAT
 TAACATGGATGGGACCGCCTCTACGAGGCTTTGGCCGCCATTTTCATCGCTCAAGTTAACAACCTTTGAC
 CTGAATTTTGGACAGATTATAACAATAAGTATCACAGCCACAGCCGAAGCATTGGGGCAGCTGGCATT
 CTCAGGCCGTCTAGTACCATGGTATCGTGTGCTGACATCTGTGGGCCTGCCACGGATGACATCACT
 CATATTGCAGTGGACTGGTTTCTGGACCGCCTCCGAACCACCACCAACGTGCTGGGTGACTCCCTCGGG
 GCCGGATTGTTGAACACTTGTCCCGACATGAAGTGAAGAACCGAGATGTTGAAATGGGGAACCTCGTGA
 TTGAGGAGAATGAAATGAAAAAGCCGTATCAGCTGATTGCCAGGACAATGAACCAGAGAAACCCGTGCC
 AGACAGCGAAACCAAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203125 representing NM_019225
 Red=Cloning site Green=Tags(s)

MTKSNGEPRMGRMERFQQGVRKRTLLAKKKVQNIKEDVKSYLFRNAFVLLTVSAVIVGTILGFALRP
 YKMSYREVKYFSFPGELLMRMLQMLVPLIISLVTGMAALDSKASGKMGMRVAVVYMTTIIAVVIGII
 IVIIHPGKGTENMYREGKIVQVTAADAFDLIRNMFPPNLVEACFKQFKTSYEKRSFKVPIQANETLL
 GAVINNVSEAMETL TRIEEMVPVPGSVNGVNALGLVVF SMCFGFVIGNMKEQQQALREFFDSLNEAIMR
 LVAVIMWYAPLGILFLIAGKIVEMDMGVIGGQLAMYTVTVIVGLLIHAVIVLPLLYFLVTRKNPWVFIG
 GLLQALITALGTSSSSATLPITFKLEENNGVDKRITRFVLPVGATINMDGTALYEALAAIFIAQVNNFD
 LNFQIITISITATAASIGAAGIPQAGLVTMVI VLT SVGLPTDDITLIIAVDWF LDRLRTTNNVLDGSLG
 AGIVEHL SRHELKRDVEMGNSVIEENEMKKPYQLIAQDNEPEKPVADSETKM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2050_f07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_019225

ORF Size: 1629 bp

OTI Disclaimer: 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.

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.

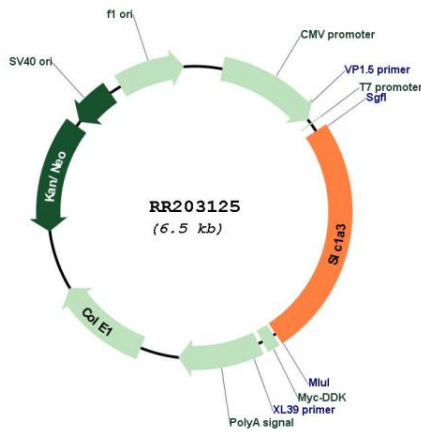
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_019225.2](#), [NP_062098.1](#)

RefSeq Size: 3864 bp
 RefSeq ORF: 1632 bp
 Locus ID: 29483
 UniProt ID: [P24942](#)
 Cytogenetics: 2q16
 MW: 60.1 kDa
 Gene Summary: carries out Na⁺ dependent transport of glutamate and aspartate; may regulate neurotransmitter concentration in the central nervous system [RGD, Feb 2006]

Product images:



Circular map for RR203125