

Product datasheet for **RR206090**

Slc6a12 (NM_017335) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a12 (NM_017335) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc6a12
Synonyms:	BGT1; Gat1; RNU28927; VGAT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206090 representing NM_017335
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCATCGGAGCTTGGGAAGAAAGGCTCTCCCTCTCCAGTATGGACAGAAAGGTTACAGTCCATGAAG
 ATGGGTGTCTGTGGTCTCTTGGGTCCCTGAGGAGGAGAGATGATGGACCAGAAAGACAAGGACCAGGT
 GAAGGATCGAGGCCAATGGACCAACAAGATGGAGTTCGTAAGTGTGACAGTGGCGGGAGAGATCATTGCCTTA
 GGCAACGTCTGGAGGTTCCCTATCTCTGCTACAAGAACGGGGAGGAGCCTTCTTCATCCCTACTTCA
 TCTTCTTCTCAGCTGTGGTATCCAGTGTCTTCTGGAGGTGGCACTGGGTGAGTATAGCAGCCAGGG
 GAGTGTACTGCTGGAGGAAGATCTGTCCCTTCTCCAAGGCATTGGCATGGCATCTGTGGTATCGAG
 TCTTATTTGAACATCTACTACATCATCATCCTTGCTGGGCTCTTCTACCTGTTGAGTCTTCCACT
 GGGAGCTTCCCTGGACAACCTGCACCACTCCTGGAACACAGAACATTGCGTGGACTTTCTGAACTACTC
 ATCGACCAGAGCCGAAGCTACTCTGAGAACTCACCTACCAGTCATGGAATTCGGGAGAGACGGGTT
 TTGGGTATTACATCAGGCATCCATGACCTGGGGTCCCTGCGCTGGGAGCTGGCCCTGTGCCTCTGCTCG
 CCTGGATCATCTGCTACTTCTGCATCTGGAAGGGAGTCAAGTCCACGGGCAAGGTTGTTACTTACAGC
 CACTTTTCCCTACCTGATGCTGATTATTCTTCTGATCCGGGGTGTACCTTCTGGAGCCTACCAGGGC
 ATCGTCTTCTACCTGAAGCCAGACTTGCTCCGCCTCAAGGACCCAGGTGTGGATGGATGCGGGCACCC
 AGATCTTCTTTTCTTGGCCATCTGCCAGGGGTGCCTCACGGCCCTGGGAGCTACAACAAGTACCACAA
 CAACTGCTACAGGACTCCATCGCCCTGTCTTCTGAACAGTGCCACCAGCTTCGTGGCTGGTTTTGTT
 GTCTTCTCCATCTGGGCTTCAATGGCTCAGGAGCAGGGCGTGGCATTCTGAAGTGGCTGAGTCAGGTC
 CTGGACTGGCTTTCATTGCCTTCCCAAAGCAGTGCATGATGCCTTTGTCCAGCTGTGGTCTGCTGCT
 CTCTTCTCATGCTCCTATTTCTAGGGCTGGACAGCCAGTTCGTCTGTATGGAGTGCCTGGTCACTGCT
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 GGGGCGGATCGTTTCTATGACAACGTGGAGGACATGATTGGCTATCGCCATGGCCCTTGGTGAAGATCT
 CTTGGCTCTTCTGACCCCTGGTCTTGGCTGGCCACCTTCTTCTCTCCTTGGCAAGTATACACCTCT
 CAAATACAACAATGTCTACATATACCCTTCTTGGGATACTCCATTGGATGGCTCTTGGCTTTTTCTCC
 ATGGCCTGTGTACCGCTCTTATTATCATACCCTCCTGAAGACCAGGGCTCCTCAAGAAGCGCCTTC
 AAAGACTCATACGCCAGATCCCAGTCTGCCCCAGCCAGGGAGGGCTTCACTCAGGATGGCTCCTCTGC
 TCAAAACTGTTCGACCTCTCCAGTCAAGCAAGAACTCATTGCCTGGGAGAAGGAGACGCATTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206090 representing NM_017335
 Red=Cloning site Green=Tags(s)

MSSGAWEEERVSLSSMDRKYVTHEDGCPVVSWSVPEEGEMMDQKDKDQVKDRGQWTNKMFLSVAGEIIGL
 GNVWRFPYLYKNGGGAFFIPYFIFFFSCGIPVFFLEVALGQYSSQGSVTAWRKICPLLQGIEMASVVE
 SYLNIYYIIILAWALFYLFSSFTWELPWTCTNSWNTEHCVDLFLNYSSTRAASYSNFSPVMEFWERRV
 LGITSGIHDLGSLRWELALCLLLAWIICYFCIWKGVKSTGKVVYFATFPYLMIIILLIRGVTLPAYQG
 IVFYLPDRLRLKDPQVWMDAGTQIFFSFAICQGCLTALGSYNKYHNNCYRDSIALCFLNSATSFVAGFV
 VFSILGFMAQQGVPISEVAESGPGLAFIAFPKAVTMMPLSQLWSCLFLLMLLFLGLDSQFVCMCLVTA
 SMDMFPQQLRKRGRRELLILAVAIVCYLMGLLLVTEGGMYIFQLFDYYASSGICLLFLSLFEVICIGWVY
 GADRFYDNVEDMIGYRPWPLVKISWFLTPGLCLATFFFSLSKYTPLKYNVYIYPSWGISYIGWLLAFSS
 MACVPLFIITLLKTQGSFKRLQRLITPDPSPQPGRRSPQDGSQAQNCSTSPVKQELIAWEKETHL

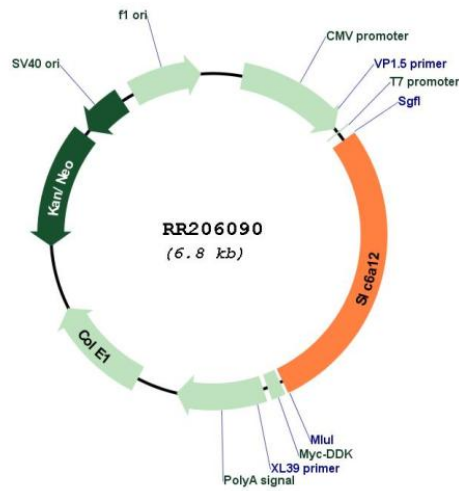
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017335

ORF Size: 1884 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_017335.1 , NP_059031.1
RefSeq Size:	2561 bp
RefSeq ORF:	1887 bp
Locus ID:	50676
UniProt ID:	P48056
Cytogenetics:	4q42
MW:	71.3 kDa
Gene Summary:	sodium/chloride-dependent neurotransmitter transport protein; expressed in exocytotic vesicles in GABAergic cells; associated with exocysts [RGD, Feb 2006]