

Product datasheet for **RR213290**

Slc18a1 (NM_013152) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc18a1 (NM_013152) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc18a1
Synonyms:	CGAT; VMAT-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR213290 representing NM_013152
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCCAGGTTGTTCTGGGTGCTCCTCAGCGTTGCTGAAGGAAGGAAGGCAGTCCCGCAAGCTGGTGC
 TGGTGGTGGTGTTCGTGGCTCTGCTTCTGGACAACATGCTGCTCACTGTGGTGGTGGCCATTGTGCCAC
 CTTCTGTACGCGACAGAGTTCAAAGACAGCAACTCTTCTCTGCATAGGGGTCTTCTGTAAGCTCCAG
 CAAGCTCTCACCTCTCCTGCCTTCTTACCATATTCTCCTTCTTTGACAACACCACCACAAGTGTAGAAG
 AACATGTACCCTTCCGTGTAACCTGGACAAATGGCACCATCCCTCCTCCAGTCACTGAAGCCACCTCAGT
 ACCAAAAACAAGTCTTGAAGGGATAGAGTTCTTAGAAGAAGAAAACGTTCCGATTGGGATTCTATTT
 GCTTCAAAGCTTTGATGCAACTCTGGTCAACCCATTTGTAGGACCTTACTAACAGGATTGGCTATC
 ACATCCCCATGTTTGTGGCTTTATGATCATGTTTCTCTCCACACTAATGTTTGTCTTCTGGCACCTA
 TGCCCTGTATTTGTGGCCGAAGTCTCAAGGCATTGGATCTTGGTTTTCATCTGTTGCAGGACTTGGG
 ATGCTGGCCAGTGTCTATACTGACAACATGAGAGAGGGAGAGCCATGGGAATTCGTTTGGGGGGCCTGG
 CTTTGGGACTTCTGGTGGGAGCACCTTTCGGAAGTGTGATGTATGAATTTGTGGGCAAGTCTCACCAT
 CCTCATCTTGGCCTTCTTGGCACTTCTGGATGGAGCTCTCCAACCTTTCATCCTGTGGCCTTCGAAAGTG
 TCTCCTGAGAGTGCCATGGGGACTCCGCTTTTACGCTTCTCAAAGACCTTACATCCTGGTAGCAGCAG
 GTTCCATCTGCTTGGCCAACATGGGTGTGCCATACTAGAGCCCACGCTGCCATCTGGATGATGCAGAC
 CATGTGCTCCCCGAGTGGCAGCTAGGTCTGGCTTTCTTGCTGCTAGTGTGGCTACCTCATTGGCAGC
 AACCTCTTGGTGTGTTGGCTAACAGATGGGTGGTGGCTGTGCTCCCTGTTGGGATGGTGGCAGTAG
 GTATCAGCTTGTCTGTACCTCTGGCTCACAAATATTTTGGTCTTATGGCCCAATGGCAGGCCTTGG
 CTTTGCCATAGGAATGGTGGATTCTCTCTGATGCCATCATGGGATACCTGGTGGACTTACGCCACACC
 TCTGTGTATGGGAGTGTCTATGCCATCGCCGATGTGGCCTTTTGTGGGCTTGTCTATTGGCCATCTA
 CTGGGGGTGTTATCGTACAGGTCAATGGCTTCTTGGCTCATGGTCACTATTGGTACCATCAACATCAT
 TTATGCTCCTCTGCTGCTTCTGCAGAACCCGCCAGCTAAGGAGGAGAAGCGTGAATTTCTGAGCCAG
 GAATGCCCCACAGAGACCCAGATGTACACAGTCCAGAAGCCACAAGGAGTTTCCACTAGGAGAGAACA
 GCGATGATCCTAGCAGCGGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213290 representing NM_013152
 Red=Cloning site Green=Tags(s)

MLQVVLGAPQRLLEGRQSRKLVVVVFVALLLDNMLLTVVVPIVPTFLYATEFKDSNSSLHRGPSVSSQ
 QALTSPAFSTIFSFNDNTTVEEHVFRVTWNTGIPPPVTEATSVPKNNCLQIEFLEEENVRIGILF
 ASKALMQLLVNPFVGPLTNRIGYHIPMFVGFMMFLSTLMFAFSGTYALLFVARTLQIGSSFSSVAGLG
 MLASVYTDNYERGRAMGIALGGLALGLLVGAPFGSVMYEFVKGSSPFLILAFLLLDGALQLCILWPSKV
 SPESAMGTPLLTLKDPYILVAAGSICLANMGVAILEPTLPIWMMQTMCSPEWQLGLAFLPASVAYLIGT
 NLFVGLANKMGRWLSLVGMVAVGISLLCVPLAHNIFGLIGPNAGLGFATGMVDSLMPIMGYLVDLRHT
 SVYGSVYAIADVAFCVGFVIGPSTGGVIVQVIGFPWLMVIIGTINIYAPLCCFLQNPAPAKEEKRAILSQ
 ECPTETQMYTVQKPTKEFPLGENSDDPSSGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

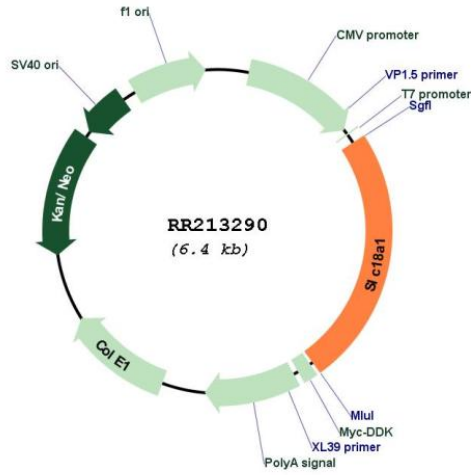
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_013152
ORF Size:	1563 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_013152.2 , NP_037284.2
RefSeq Size:	2357 bp
RefSeq ORF:	1566 bp
Locus ID:	25693
UniProt ID:	Q01818
Cytogenetics:	16p14
MW:	56 kDa
Gene Summary:	transports biogenic amines; may play a role in neuroendocrine vesicular transport [RGD, Feb 2006]