

Product datasheet for **MR207136**

Slc18a2 (BC078449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc18a2 (BC078449) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc18a2
Synonyms:	Vmat2, 9330105E13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207136 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTGAGCGATCTGGTCTGCTGCGATGGCTGCGGGACAGCCGCACTCGCGCAAGCTGATCCTGT
 TCATCGTGTTCCTCGCGCTGCTGCTAGACAACATGCTGCTCACCGTCGTAGTTCCCATCATTCCCAGCTA
 CCTGTACAGCATTAAAGCACGAGAAAACTACTCGGAAATCCAGACTGCCAGGCCAGCGCTCACAGCCTCC
 ACTTCCGAAAGCTTCCACAGCATCTTCTTACTATAACAACCTACTGTGTTACCGGGGAATGCCACGG
 GGGGCTCCCAGGAGGGAGTACCCAAGGCTACCACCACACAGCACACTGTGACCAACAGACTGTCCC
 TCCCGACTGCCCCAGTGAAGACAAAGACCTTCTAAATGAGAATGTGCAAGTTGGGCTGCTGTTTGCCTCC
 AAAGCCACTGTCCAGCTCTCACAACCCATTCATAGGACTTCTAACCAACAGAATTGGCTATCCAATTC
 CCATGTTTCTGGATTCTGCATTATGTTTATCTCAACAGTTATGTTTGCCTTCTCCAGCAGCTATGCCTT
 CCTGCTGATCGCCAGGTCCTGCAGGGAATCGGCTCCTTTGCTCATCTGTGGCTGGGATGGGCATGCTG
 GCCAGCGTGTACACAGATGATGAAGAGAGGGGTAAACCCATGGGGATTGCTCTGGGGGCGCTGGCCATGG
 GGGTCTTAGTGGGACCCCTTTGGAAGTGTGCTCTATGAGTTTGTGGGGAAGACAGCTCCTTTCCTGGT
 GCTTGCTGCCTTGGTCTTGGATGGAGATCAGAAGGGGACACCTTACGACCTTGCTGAAGGACCC
 ATACATTTCTATCGTGCAGGCTCCATCTGCTTTGCAAACATGGGGATAGCCATGCTGGAGCCCGCCCTG
 CCCATCTGGATGATGGAGACCATGTGTTCCCGAAAGTGGCAGCTGGGCGTTGCCTTCTGCCAGCGAGCA
 TCTCTTATCTCATTGGAACCAATATTTTGGGATCTTGCACACAAAAATGGGAAGTGGCTGTGTGCTCT
 TCTGGGAATGATAGTTGTTGGGATCAGCATTTTATGATTCTTTTGCAAAAATATCTACGGACTCATC
 GCTCCCAACTTTGGAGTTGGTTTTGCCATTGGGATGGTGGACTCCTCCATGATGCCTATCATGGCTACC
 TGGTGGACCTGCGGCACGTGCTGTCTATGGGAGTGTGTATGCCATTGCAGATGTAGCCTTCTGCATGGG
 GTATGCTATCGGTCCTCTGCTGGTGGTCTATTGCAAAGGCAATTGGCTTTCCTTGGCTCATGACAATT
 ATTGGGATAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207136 protein sequence
 Red=Cloning site Green=Tags(s)

MALSDLVLLRWRDRSRKRLILFIVFLALLLDNMLLTVVPIIPSYSYLSIKHEKNTTEIQTARPALTAS
 TSEFHSIFSYYNNSTVFTGNATGGLPGGESPKATTTQHTVTNTVPPDCPSEDKLLNENVQVGLLFFAS
 KATVQLLTNPFIGLLTNRIGYPIPMFAGFCIMFISTVMFAFSSSYAFLLIARSLQIGSSCSSVAGMGML
 ASVYTDDEERGNAMGIALGGLAMGVLVPPFVSVLYEFVVKTAFLVLAALVLLDGESEGDTSYDLAEGP
 IHSRRLHLLCKHGDSHAGARPAHLDDGDHVPKVAAGRCLPASEHLLSHWNQYFWDCTQNGKVAVCS
 SGNDSCWDQHFMYSFCKKYLRTHRSQLWSWFCHWDGGLLHDAYHGLPGGPAARVCLWECVCHCRCSLLHG
 VCYRSLCWYCKGNWLSLAHDNYWDN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC078449

ORF Size: 1341 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: [BC078449](#), [AAH78449](#)

RefSeq Size: 3702 bp

RefSeq ORF: 1343 bp

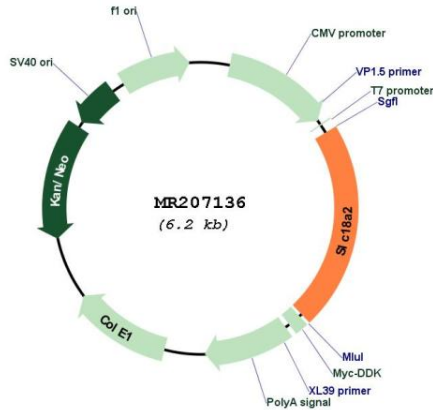
Locus ID: 214084

Cytogenetics: 19 54.64 cM

MW: 49.3 kDa

Gene Summary: Involved in the ATP-dependent vesicular transport of biogenic amine neurotransmitters. Pumps cytosolic monoamines including dopamine, norepinephrine, serotonin, and histamine into synaptic vesicles. Requisite for vesicular amine storage prior to secretion via exocytosis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207136