

## Product datasheet for **MG207136**

### Slc18a2 (BC078449) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc18a2 (BC078449) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc18a2
Synonyms:	Vmat2, 9330105E13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG207136 representing BC078449  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCTGAGCGATCTGGTCTGCTGCGATGGCTGCGGGACAGCCGCACTCGCGCAAGCTGATCCTGT  
 TCATCGTGTTCCTCGCGCTGCTGTAGACAACATGCTGCTCACCGTCGTAGTTCCCATCATTCCCAGCTA  
 CCTGTACAGCATTAAAGCACGAGAAAAATACTACGGAAATCCAGACTGCCAGGCCAGCGCTCACAGCCTCC  
 ACTTCCGAAAGCTTCCACAGCATCTTCTTACTATAACAACCTACTGTGTTACGCGGGAATGCCACGG  
 GGGGCTCCAGGAGGGAGTACCCAAGGCTACCACCACACAGCACACTGTGACCAACAGACTGTCCC  
 TCCCGACTGCCCCAGTGAAGACAAAGACCTTCTAAATGAGAATGTGCAAGTTGGGCTGCTGTTTGCCTCC  
 AAAGCCACTGTCCAGCTCCTACCAACCCATTCATAGGACTTCTAACCAACAGAATTGGCTATCCAATTC  
 CCATGTTTCTGGATTCTGCATTATGTTTATCTCAACAGTTATGTTTGCCTTCTCCAGCAGCTATGCCTT  
 CCTGCTGATCGCCAGGTCCTGCAGGGAATCGGCTCCTTTGCTCATCTGTGGCTGGGATGGGCATGCTG  
 GCCAGCGTGTACACAGATGATGAAGAGAGGGGTAAACCCATGGGGATTGCTCTGGGGGCGCTGGCCATGG  
 GGGTCTTAGTGGGACCCCTTTGGAAGTGTGCTCTATGAGTTTGTGGGGAAGACAGCTCCTTTCTGGT  
 GCTTGCTGCCTTGGTCTTGGATGGAGATCAGAAGGGGACACCTTACGACCTTGCTGAAGGACCC  
 ATACATTTCTATCGTGCAGGCTCCATCTGCTTTGCAAACATGGGGATAGCCATGCTGGAGCCCGCCCTG  
 CCCATCTGGATGATGGAGACCATGTGTTCCCGAAAGTGGCAGCTGGGCGTTGCCTTCTGCCAGCGAGCA  
 TCTCTTATCTCATTGGAACCAATATTTTGGGATACTTGCACACAAAATGGGAAGGTGGCTGTGTCTCT  
 TCTGGGAATGATAGTTGTTGGGATCAGCATTTTATGATTCTCTTTGCAAAAAATATCTACGGACTCATC  
 GCTCCCAACTTTGGAGTTGGTTTTGCCATTGGGATGGTGGACTCCTCCATGATGCCTATCATGGGCTACC  
 TGGTGGACCTGCCGCACGTGCTGTCTATGGGAGTGTGTATGCCATTGCAGATGTAGCCTTCTGCATGGG  
 GTATGCTATCGGTCCTCTGCTGGTGGTCTATTGCAAAGGCAATTGGCTTCTTGGCTCATGACAATT  
 ATTGGGATAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207136 representing BC078449  
 Red=Cloning site Green=Tags(s)

MALSDLVLLRWRDRSRKRLILFIVFLALLLDNMLLTVVPIIPSYLYSIKHEKNTTEIQTARPALTAS  
 TSEFHSIFSYYNNSTVFTGNATGGLPGGESPKATTTQHTVTNTTVPDPCSEDKDLLNENVQVGLLFAS  
 KATVQLLTNPFIGLLTNRIGYPIPMFAGFCIMFISTVMFAFSSSYAFLLIARSLQIGSSCSSVAGMGML  
 ASVYTDDEERGNAMGIALGGLAMGVLVPPFGSVLYEFVGKTAFLVLAALVLLDGESEGDTSYDLAEGP  
 IHSHRCRLHLLCKHGDSHAGARPAHLDDGDHVFVKVAAGRCLPASEHLLSHWNQYFWDCTQNGKVAVCS  
 SGNDSCWDQHFMYSFCKKYLRTHRSQLWSWFCHWDGGLLHDAYHGLPGGPAARVCLWECVCHCRCSLLHG  
 VCYRSLCWWCYCKGNWLSLAHDNYWDN

**TRTRPLE** - GFP Tag - V

**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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC078449](#), [AAH78449](#)

RefSeq Size: 3702 bp

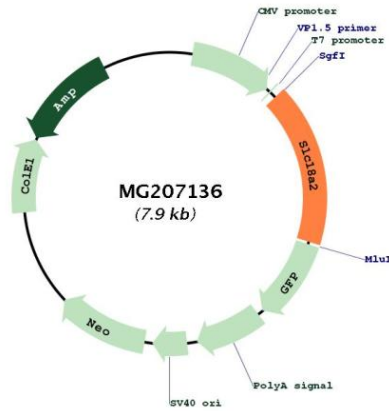
RefSeq ORF: 1343 bp

Locus ID: 214084

Cytogenetics: 19 54.64 cM

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 MG207136