

## Product datasheet for **MC217980**

### **Slc18a2 (BC078449) Mouse Untagged Clone**

#### **Product data:**

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



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Fully Sequenced ORF: >BC078449  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCCCTGAGCGATCTGGTCTGCTGCGATGGCTGCGGGACAGCCGCACTCGCGCAAGCTGATCCTGT  
TCATCGTGTTCCTCGCGCTGCTGCTAGACAACATGCTGCTCACCGTCGTAGTTCCCATCATTCCCAGCTA  
CCTGTACAGCATTAAAGCACGAGAAAAATACTACGGAAATCCAGACTGCCAGGCCAGCGCTCACAGCCTCC  
ACTTCCGAAAGCTTCCACAGCATCTTCTTACTATAACAACCTACTGTGTTTACGGGGAAATGCCACGG  
GGGGCCTCCCAGGAGGGGAGTACCCCAAGGCTACCACCACACAGCACACTGTGACCAACAGACTGTCCC  
TCCCGACTGCCCCAGTGAAGACAAAGACCTTCTAAATGAGAATGTGCAAGTTGGGCTGCTGTTTGCCTCC  
AAAGCCACTGTCCAGCTCCTACCAACCCATTCATAGGACTTCTAACCAACAGAATTGGCTATCCAATTC  
CCATGTTTGTGGATTCTGCATTATGTTTATCTCAACAGTTATGTTTGCCTTCTCCAGCAGCTATGCCTT  
CCTGCTGATCGCCAGGTCCTGCAGGGAATCGGCTCCTTTGCTCATCTGTGGCTGGGATGGGCATGCTG  
GCCAGCGTGTACACAGATGATGAAGAGAGGGGTAAACGCCATGGGGATTGCTCTGGGGGCCCTGGCCATGG  
GGTCTTAGTGGGACCCCTTTGGAAGTGTGCTCTATGAGTTTGTGGGAAGACAGCTCCTTTCTGCTG  
GCTTGCTGCCTTGGTCTTGGATGGAGATCAGAAGGGGACACCTTACGACCTTGCTGAAGGACCC  
ATACATTTCTATCGTGCAGGCTCCATCTGCTTTGCAAACATGGGGATAGCCATGCTGGAGCCCGCCCTG  
CCCATCTGGATGATGGAGACCATGTGTTCCCGAAAGTGGCAGCTGGGCGTTGCCTTCTGCCAGCGAGCA  
TCTCTTATCTCATTGGAACCAATATTTTTGGGATACTTGCACACAAAAATGGGAAGTGGCTGTGTGCTCT  
TCTGGGAATGATAGTTGTTGGGATCAGCATTTTATGTATTCTTTTGCAAAAATATCTACGGACTCATC  
GCTCCAACTTTGGAGTTGGTTTTGCCATTGGGATGGTGGACTCCTCCATGATGCCTATCATGGGCTACC  
TGGTGGACCTGCGGCACGTGCTGCTATGGGAGTGTGTATGCCATTGCAGATGTAGCCTTCTGCATGGG  
GTATGCTATCGGTCCCTCTGCTGGTGGTCTATTGCAAAGGCAATTGGCTTCTTGGCTCATGACAATT  
ATTGGGATAATTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC078449

Insert Size: 1344 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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

**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]