

## Product datasheet for **MR224628**

### Slc18a2 (NM\_172523) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc18a2 (NM_172523) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc18a2
Synonyms:	1110037L13Rik; 9330105E13; Vmat2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR224628 representing NM\_172523  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCCTGAGCGATCTGGTCTGCTGCGATGGCTGCGGGACAGCCGCACTCGCGCAAGCTGATCCTGT  
 TCATCGTGTTCCTCGCGCTGCTGCTAGACAACATGCTGCTCACCGTCGTAGTTCCCATCATTCCCAGCTA  
 CCTGTACAGCATTAAAGCACGAGAAAACTACTACGAAATCCAGACTGCCAGGCCAGCGCTCACAGCCTCC  
 ACTTCCGAAAGCTTCCACAGCATCTTCTTACTATAACAACCTACTGTGTTACGCGGGAATGCCACGG  
 GGGGCTCCCAGGAGGGAGTACCCAAGGCTACCACCACACAGCACACTGTGACCAACAGACTGTCCC  
 TCCCGACTGCCCCAGTGAAGACAAAGACCTTCTAAATGAGAATGTGCAAGTTGGGCTGCTGTTTGCCTC  
 AAAGCCACTGTCCAGCTCCTACCAACCCATTCATAGGACTTCTAACCAACAGAATTGGCTATCCAATTC  
 CCATGTTTCTGGATTCTGCATTATGTTTATCTCAACAGTTATGTTTGCCTTCTCCAGCAGCTATGCCTT  
 CCTGCTGATCGCCAGTCCCTGCAGGGAATCGGCTCCTCTTGCTCATCTGTGGCTGGGATGGGCATGCTG  
 GCCAGCGTGTACACAGATGATGAAGAGAGGGGTAAAGCCATGGGGATTGCTCTGGGGGCTGGCCATGG  
 GGGTCTTAGTGGGACCCCTTTGGAAGTGTGCTCTATGAGTTTGTGGGGAAGACAGCTCCTTTCCTGGT  
 GCTTGCTGCCTTGGTCTTGGATGGAGCTATTCAGCTCTTGTGCTCCAGCCATCCCAGTGCAGCCA  
 GAAAGTCAAGGGGACACCTCTTACGACCTTGTGAAGGACCCATACATTCTCATCGCTGCAGGCTCCA  
 TCTGCTTTGCAACATGGGGATAGCCATGCTGGAGCCCGCCCTGCCCATCTGGATGATGGAGACCATGTG  
 TTTCCGAAAGTGGCAGCTGGGCGTTGCCTTCTGCCAGCGAGCATCTCTATCTCATTGGAACCAATATT  
 TTTGGGACTTGCACACAAAATGGGAAGTGGCTGTGTGCTCTCTGGGAATGATAGTTGTTGGGATCA  
 GCATTTTATGTATCCTTTTGCAAAAAATCTACGGACTCATCGCTCCCAACTTTGGAGTTGGTTTTTGC  
 CATTGGGATGGTGGACTCCTCCATGATGCCTATCATGGGCTACCTGGTGGACCTGCGGCACGTGTCTGTC  
 TATGGGAGTGTGTATGCCATTGCAGATGTAGCCTTCTGCATGGGGTATGCTATCGGTCCCTCTGCTGGT  
 GTGCTATTGCAAAGGCAATTGGCTTTCCTTGGCTCATGACAATTATTGGGATAATTGATATTGTTTTTGC  
 TCCACTCTGCTTTTTTCTCGAAGTCCACCTGCTAAGGAAGAAAAATGGCTATCCTCATGGACCACAAC  
 TGCCCCATTAAGACAAAGATGTACACTCAGAATAATGTCCAGCCGTAACCCGTCGGTGATGATGAAGAT  
 CTGAGAGTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224628 representing NM\_172523  
 Red=Cloning site Green=Tags(s)

MALSDLVLLRWRDRSRHSRKLILFIVFLALLLDNMLLTVVPIIPSYLYSIKHEKNTTEIQTARPALTAS  
 TSESFHSIFSYYNNSTVFTGNATGGLPGGESPKATTTQHTVTNTTVPDPCSEDKDLLNENVQVGLL FAS  
 KATVQLLTNPFIGLLTNRIGYPIPMFAGFCIMFISTVMFAFSSSYAFLLIARSLQIGSSCSSVAGMGML  
 ASVYTDDEERGNAMGIALGGLAMGVLVPPFGSVLYEFVGTAPFLVLAALVLLDGAIQFLVLPQSRVQP  
 ESQKGTPLTLLKDPYILIAAGSICFANMGIAMLEPALPIWMMETMCSRKWLGVAFLPASISYLI GTNI  
 FGILAHKMGRWLCALLGMI VVGISILCIPFAKNIYGLIAPNFGVGF AIGMVDSSMMPIMGYLVDLRHVSV  
 YGSVYAIADVAFCMGYAIGPSAGGAIKAIIGFPWLM TIIIGIIDIVFAPLCFFLRSPPAKEEKMAILMDHN  
 CPIKTKMYTQNNVQPYYPVGDDEESESD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9030\\_e01.zip](https://cdn.origene.com/chromatograms/mm9030_e01.zip)

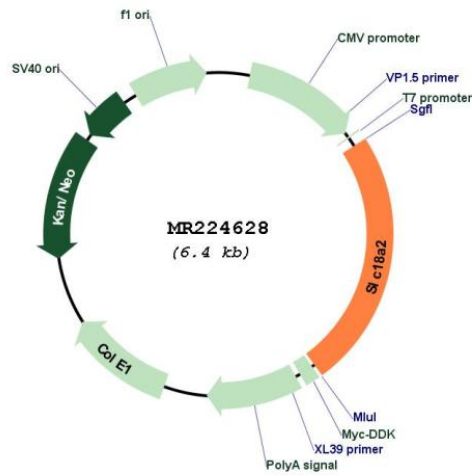
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_172523

<b>ORF Size:</b>	1551 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_172523.3</a> , <a href="#">NP_766111.1</a>
<b>RefSeq Size:</b>	3803 bp
<b>RefSeq ORF:</b>	1554 bp
<b>Locus ID:</b>	214084
<b>UniProt ID:</b>	<a href="#">Q8BRU6</a>
<b>Cytogenetics:</b>	19 54.64 cM
<b>MW:</b>	56.2 kDa
<b>Gene Summary:</b>	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]