

## Product datasheet for **RR206578**

### Slc17a8 (NM\_153725) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc17a8 (NM_153725) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc17a8
Synonyms:	Vglut3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR206578 representing NM\_153725  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCATTTAACGCATTTGATACCTTCAAAGAAAAATTTTGAACCCGGGAAGGAAGGAGTGAAGAATG  
 CCGTGGGAGATTCGCTGGGGATCTTACAAAGAAAACCTCGATGGGACCAACGAGGAGGAGATGCCATTGA  
 GCTGAGTGAGGAAGGAAGGCCCTGCAGACATCCAGAGCCCGAGCCCTGTGTGCGACTGCAGCTGCTGT  
 GGCATCCCAAGCGGTACATCATCGCTGTGATGAGTGGCCTGGGATTCTGCATTTCTTTGGGATTCGGT  
 GCAACCTTGGAGTGGCCATTGTGAAAATGGTCAACAATAGCACTGTGTATGTGGATGGGAAACCGGAAAT  
 CCAGACAGCACAGTTAACTGGGATCCAGAGACGGTGGTCTTATCCATGGATCTTTTTTCTGGGGTTAT  
 ATTGTGACACAAATCCCGTGGCTTCATTTCAAACAAGTTTGTCTAACAGGGTCTTTGGAGCTGCCA  
 TCTTCTTGACGTCAACCCTGAACATGTTTCATCCCTTCCGCGGCCAGGGTGCATTACGGCTGTGCATGTG  
 TGTGAGGATTTGCAGGGTCTGGTGGAGGGTGTGACCTACCCAGCCTGCCACGGGATGTGGAGTAAGTGG  
 GCACCTCCCTGGAGAGAAGTCGTCTAGCCACAACCTCTTTTTGTGGTTCCTATGCCGGGACAGTCGTTG  
 CTATGCCCTTGCAGGAGTATTGGTGCAGTACATTGGCTGGGCCTCTGTCTTTATATTTACGGGATGTT  
 TGGAAATATTTGGTACATGTTTTGGCTGCTGCAGGCTTATGAGTGTCCAGCAGTTCACCCAAATATCC  
 AATGAAGAACGGACCTACATAGAGACAAGTATAGGAGAAGGCGCAACTTGGCCAGTCTGAGCAAATTC  
 ACACACCATGGAGAAGGTTTTTACATCCTTGCCTGTCTATGCCATTATGTGGCAAATTTTGTAGAAG  
 CTGGACCTTCTATTTGCTCTTAATAAGTCAAGCTGCTTACTTTGAAGAGGTCTTTGGGTTGCAATAAGT  
 AAGGTGGTCTCTTGTGAGTGTCCACACATGGTGTGATGACAATCGTGGTACCCATTGGAGGACAACCTGG  
 CTGATTATTTAAGAAGCCGAAAGATTTTGACCACAACCTGCTGTGAGAAAGATCATGAATTTGGAGGCTT  
 TGGCATGGAGCAACCTTGTCTCTGGTGGTGGGTTTTCCCATACCAAAGGAGTGGCTATCTCCTCCTG  
 GTGCTTGTGTAGGATTTAGTGGCTTGAATTTCAAGTTTCAATGTCAACCACCTGGACATTGCTCCAC  
 GATATGCCAGCATCCTCATGGGGATCTCAAATGGCGTGGGAACCTCTCTGGAATGGTTTGTCCCCTCAT  
 TGTTGGTGAATGACAAAGCACAAGACCCGGGAAGAATGGCAGAATGTGTTTCTCATAGCAGCCCTGGT  
 CACTACAGTGGAGTATCTTCTACGGGTCTTTGCTTCTGGGAAAAACAGGACTGGGCTGATCCAGAGA  
 ATCTCTCTGAGGAGAAAATGTGGAATCATTGACCAAGATGAATTAGCCGAGGAAACAGAATCAACCACGA  
 GGCTTTTGTAAAGTCCCAGAAAGAAGATGTCTTATGGAGCCACCACCCAGAATTGTGAGTCCAGAAGACG  
 GATCGGAGACAACAGAGAGAATCCGCTTCGAGGGGGAGGAGCCATTATCCTACCAGAATGAAGAGGACT  
 TTTCAAGAAACATCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206578 representing NM\_153725  
 Red=Cloning site Green=Tags(s)

MPFNADFTEKILKPGKEGVKNAVGDLSLILQRLDGTNEEGDAIELSEEGRPVQTSRARAPVDCSCC  
 GIPKRYIIAVMSGLGFCISFGIRCNLGVAIVEMVNNSTVYVDGKPEIQTAQFNWDPETVGLIHGFFWGY  
 IVTQIPGGFISNKFAANRVFGAAIFLTSTLNMFIPSAARVHYGCVMCVRILQGLVEGVTYPACHGMWSKW  
 APPLERSRLATTSFCGSYAGAVVAMPLAGVLVQYIGWASVFYIYGMFGIIWYMFLLQAYECPAVHPTIS  
 NEERTYIETSIGEGANLASLSKFNTPWRRFFTSPLVYAIIVANFCRSWTFYLLLSIQPAYFEEVFGFAIS  
 KVGLLSAVPHMVMIVVPIGGQLADYLRKILTTTAVRKIMNCGGFGMEATLLLVVGFSHTKGVAISFL  
 VLAVGFSGFAISGFNVNHLDIAPRYASILMGISNGVGTLSGMVCPILVIGAMTKHKTREEWQNVFLIAALV  
 HYSGVIFYGVFASGEKQDWADPENLSEEKCGIIDQDELAETELNHEAFVSPRKKMSYGATTQNCVEVQKT  
 DRRQQRESAFEGEEPLSYQNEEDFSETS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_153725

ORF Size: 1764 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: [NM\\_153725.1](#), [NP\\_714947.1](#)

RefSeq Size: 3172 bp

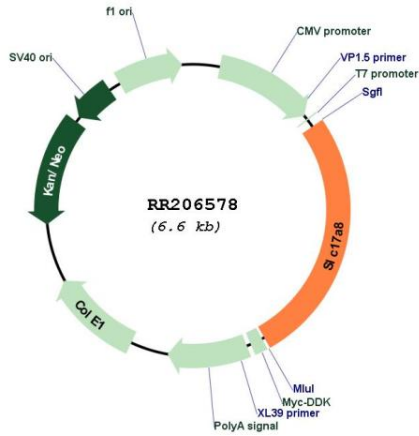
RefSeq ORF: 1767 bp

Locus ID: 266767

UniProt ID: [Q7TSF2](#)

**Cytogenetics:** 7q13  
**MW:** 64.8 kDa  
**Gene Summary:** has glutamate transporter activity; may play a role in glutamate transport in synaptic vesicles of cholinergic and serotonergic neurons [RGD, Feb 2006]

**Product images:**



Circular map for RR206578