

## Product datasheet for **RN211991**

### **Slc1a6 (NM\_032065) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc1a6 (NM_032065) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc1a6
Synonyms:	EAAT4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN211991 representing NM\_032065  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAGCCACGGCAACAGTCTGTTCTGAGGGAGAGCGGCGCTGGCGGGGCTGTCTGCAAGGCCTGC  
 AGGACAGTCTGCAGCAGAGAGCACTGCGCACGCGCTTGCCTGCAGACCATGACCCGAGAGCACGTGCG  
 GCGCTTCTGCGCCGAAATGCCTTCATCTTGCTCACAGTCAGCGCTGTGATCATTGGCGTCAGCCTGGCA  
 TTTGCCTTGCGCCATATCAGCTCACCTACCGCCAGATCAAGTACTTCTCTTTTCTGGTGGAGCTGCTCA  
 TGAGGATGCTGCAGATGCTGGTGTACCCCTCATTGTCTCCAGCCGGTTCACAGGTATGGCATCCTTGG  
 CAACAAGGCAACAGGGAGGATGGGAATGAGGGCAGCTGTGTACTACATGGTGACGACCGTCATTGCAGTT  
 TTCATCGGCATCCTAATGGTTACCATCATACTCCTGGGAAGGGCTCCAAGGAGGGGCTGCACCGTGGG  
 GCCGAATTGAGACTGTTCAACAGCTGATGCTTTCATGGACCTGGTCAGAAATATGTTCCACAAAACCT  
 TGTGGAGGCTGCTTCAAACAGTTTAAACACAGTACAGCACAGAGTGGTAACAAGGACGATTGTAAGG  
 ACAGACAACGGGTGAGAGTTGGGGGCTCCATTTCTCCTCCATCCTCAGCAGAAAATGAAACCAGCATCC  
 TGGAAAATGTCACCCGGGCTTGGGCACCTGCAGGAGGTGATAAGCTTTGAGGAGACTGTGCCTGTACC  
 TGGCTCAGCTAATGGCATCAACGCTTTGGGCTCGTGGTCTTCTCTGTGGCCTTTCGGGCTGGTATCGGT  
 GGCATGAAGCACAAGGCCGTGCTGAGGGATTTCTTCGACAGCCTCAATGAGGCTATTATGAGGCTGG  
 TGGGCATCATCATCTGGTATGCACCAGTGGGCATCCTGTTCTGATTGCTGGAAGATTCTGAAATGGA  
 AGACATGGCTGTCCTTGGAGTACAGTGGGCATGTACAGCTGACTGTATTGTTCGGCTTATTTCTTCAT  
 GCTGGTGGTGTGTTACCCCTCATCTACTTCTTGTACACATCGGAACCCCTTCCCTTCATCGGTGGTA  
 TACTACAGGCACTATCACAGCCATGGTACCTTCCAGCTCTGCAACTCTGCCTATCATTCCCGATG  
 CCTGGAGGAGGGCTGGGTGTGGACCGCCATACCAGATTCTGTTGCCTGTGGGGGCCACTGTCAAC  
 ATGGACGGCACCGCGCTCTATGAGGCTTGGCAGCCATCTTTATTGCTCAAGTCAACAACACTATGAGCTGA  
 ACCTTGGTCAAGTACCACAATCAGCATCACAGCCACAGCTGCCAGCGTAGGAGCAGCTGGCATCCCCCA  
 GGCAGGACTGGTTACCATGGTATTGTGCTCACGTCTGTCGGCCTGCCACAGAGGACATCACATTGATC  
 ATAGCTGTGGATTGGTTCCTTGTGCTGACTTGTACGATGACCAATGTACTTGGGGACTCAATTGGAGCAG  
 CTGTCATTGAGCATTGTCCCAACGGGAGCTGGAGCTGCAAGAGGCTGAGCTGACTCTACCCAGCCTGGG  
 GAAACCCTATAAGTCACTCATGGCACAAGCCAAGGGGCATCAAGGGGTGGGGAGGTAATGAGAGTGTC  
 ATG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_032065
- Insert Size:** 1686 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:** [NM\\_032065.1](#), [NP\\_114454.1](#)

**RefSeq Size:** 2013 bp

**RefSeq ORF:** 1686 bp

**Locus ID:** 84012

**UniProt ID:** [O35921](#)

**Cytogenetics:** 7q11

**Gene Summary:** mediates cotransport of one glutamate molecule with three Na<sup>+</sup> ions and one H<sup>+</sup> with countertransport of one K<sup>+</sup> ion; also has a voltage gated anion transporter activity that is modified by glutamate [RGD, Feb 2006]