

## Product datasheet for **RN211731**

### **Slc38a1 (NM\_138832) Rat Untagged Clone**

#### **Product data:**

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                    |
| Product Name:      | Slc38a1 (NM_138832) Rat Untagged Clone |
| Tag:               | Tag Free                               |
| Symbol:            | Slc38a1                                |
| Synonyms:          | Ata1; GlnT; Sat1                       |
| Vector:            | pCMV6-Entry (PS100001)                 |
| E. coli Selection: | Kanamycin (25 ug/mL)                   |
| Cell Selection:    | Neomycin                               |



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**Fully Sequenced ORF:** >RN211731 representing NM\_138832  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGCATTTCAAAGTGGCCTCGAGTTAACGGAGCTGCAGAACATGACGGTGCCCGAGGATGACAATG  
 TCAGCAACGACTCTAATGACTTCACGGAAGTGGAGAACGCCAGATAAAATAGCAAGTTCACTCTGATCG  
 GGAGAGTAGGAGGAGTCTCACGAACAGCCATCTGGAGAAAAGGAAATGCGACGAGTATATTCCAGGAACA  
 ACCTCTCTGGGAATGTCTGTCTTTAACCTGAGCAACGCCATCATGGGCAGTGGGATCTTGGGCCTCGCCT  
 TCGCCTTGCCCAACACGGGGATCCTCCTGTTTCTGATACTTCTGACTTCGGTGACGTTACTGTCTATATA  
 CTCAATAAACCTACTACTGATCTGCTCCAAGGAAACCGGCTGCATGGTCTACGAAAAGCTGGGAGAGCAA  
 GTCTTCGGCACCACGGGAAGCTGGTGATCTTCGGAGCCACCTCTCTGCAGAACACTGGCGCGATGCTGA  
 GCTACCTCTTCATAGTAAAAATGAACCTCCTTCAGCCATAAAATCCCTCATGGGAGAGGAGGAGACATT  
 TTCAGCCTGGTACGTCGATGGCCGAGTGTGGTGGTATGGTAACCTTTGGCATAAATCTCCCGCTGTGT  
 CTCTTGAAGAACCTGGGTATCTTGGCTACACTAGTGGATTTTCTTGAGCTGCATGGTTTTTTTCTGA  
 TAGTGGTCATCTACAAGAAATTCAGATTCCTTGCATGAATGGGGAACAGAACTCAACAGTAAGTGCTAA  
 CGTGACTGACGCGTGACACCAAAGTATGTACACCTTCAACTCAAAGACGGTGTACGCTTTACCAACCATC  
 GCGTTTGCCTTGTCTGCCACCCGCTGTCTCCTGCCAATCTACAGCGAGCTCAAAGATCGGTACAGAAAA  
 AAATGCAGATGGTTTCCAACATCTCTTCTTTGCTATGTTTGTACTTCTGACCGCCATCTTTGG  
 GTACCTGACCTTTTATGAAAAGGTGCAGTCAGACCTCCTTCAAGTACCAGAGCACAGGCGACATTCTC  
 ATCCTGACTGTGCGACTGGCCGTCATTGTGGCCGTCATCCTCACGGTGCCCGTACTGTTCTTACAGTCC  
 GGTCTCGTTGTTTGGCTGGCCAAGAAGACGAAGTCCACCTGTGTCGCATGTCCTGGTGACCATCAT  
 ACTCCTTGTGATTATCAACCTGTTGGTATCTTCATCCATCCATGAAGGATATATTTGGAGTCGTAGGG  
 GTGACGCTGCTAACATGCTCATTTCCTTCTCCTTCTGTCCTTTATTTAAAAATCACGAACCAGGATG  
 GAGACAAGAATACTCAAAGGATTTGGGCGGCCCTTTTCTTGGCCCTGGGGGTGTTGTTCTCCTTGATCAG  
 CATCCCTAGTCATCTACGACTGGCTTGTCTCCTCCAGCAATGGTGAAGGCCAC**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_138832

**Insert Size:** 1458 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\\_138832.1, NP\\_620187.1](#)  
RefSeq Size: 2121 bp  
RefSeq ORF: 1458 bp  
Locus ID: 170567  
UniProt ID: [Q9JM15](#)  
Cytogenetics: 7q35  
Gene Summary: Na(+)-dependent glutamine transporter; may modulate presynaptic glutamatergic function [RGD, Feb 2006]