

## Product datasheet for **RG238511**

### SLC38A1 (NM\_001278387) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: SLC38A1 (NM\_001278387) Human Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: SLC38A1  
 Synonyms: ATA1; NAT2; SAT1; SNAT1  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 Restriction Sites: SgfI-MluI  
 Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM\_001278387  
 ORF Size: 1461 bp



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**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).

**RefSeq:** [NM\\_001278387.2](#)

**RefSeq Size:** 8623 bp

**RefSeq ORF:** 1464 bp

**Locus ID:** 81539

**UniProt ID:** [Q9H2H9](#)

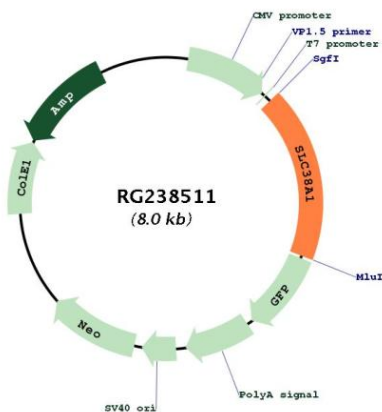
**Cytogenetics:** 12q13.11

**Protein Families:** Transmembrane

**MW:** 54 kDa

**Gene Summary:** Amino acid transporters play essential roles in the uptake of nutrients, production of energy, chemical metabolism, detoxification, and neurotransmitter cycling. SLC38A1 is an important transporter of glutamine, an intermediate in the detoxification of ammonia and the production of urea. Glutamine serves as a precursor for the synaptic transmitter, glutamate (Gu et al., 2001 [PubMed 11325958]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RG238511