

Product datasheet for **RG236318**

SLC66A1 (NM_001287531) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC66A1 (NM_001287531) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLC66A1
Synonyms: LAAT-1; LAAT1; PQLC2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236318 representing NM_001287531.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGACGCTGTACTTTACTACAAGTTCAGGACGCGCCCTCTCTGTTGTCTGCCCCATCAACTCC
GTGCTGTTGTTCTCATGGGGATGGCGTGCGCCACACCGCTGCTGAGTGTCTGGGCCGTGGCTGCC
CCTAGGGAAGCCTCCGGGGGCGGGCGCTCCTGTCCGTGGAGTCGGGCAGCAAGCCCTCACCCGGCAG
GAAGTCATTGGCTTCGTCATCGGCTCCATCTCCAGCGTGTGTACCTGCTTCCCGGCTGCCTCAGATC
CGCACCAACTTCTCCGGAAGTCCACCCAGGGGATCTCCTACTCTGTTCGCGTGGTGTGCTGGGG
AACACGCTGTATGGGCTGAGCGTGTGCTCAAAAACCCCGAGGAGGGCCAGAGCGAGGGCAGCTACCTG
CTGCACCACCTGCCCTGGCTTGTGGGCAGCCTGGGCGTGTGCTGCTCGACACCATCATCTCCATCCAG
TTCTGTGTACAGGCGCAGCACCGCCGCTCGGAGCTTGAGCCCTCCTCCCCAGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236318
Blue=ORF Red=Cloning site Green=Tag(s)

```
MLTLYFYFKFRTRPSLLSAPINSVLLFLMGMACATPLLSAAGPVAAPREAFRGRALLSVESGSKPFTRQ
EVIGFVIGSISSVLYLLSRLPQIRTNFLRKSTQGISYSLFALVMLGNTLYGLSVLLKNPEEQSEGSYL
LHHLPLWVGLVGLVLLDIIISIQLVYRRSTAASELEPLLPS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI

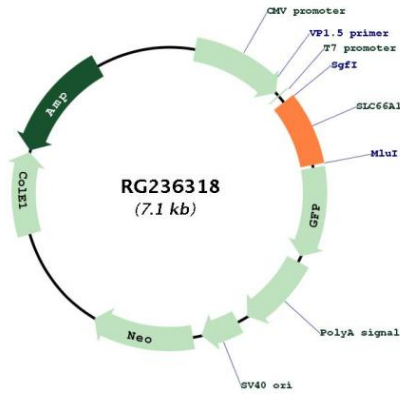


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Cloning Scheme:


- ACCN:** NM_001287531
- ORF Size:** 540 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).
- RefSeq:** [NM_001287531.2](#)
- RefSeq Size:** 1636 bp
- RefSeq ORF:** 543 bp
- Locus ID:** 54896
- UniProt ID:** [Q6ZP29](#)
- Cytogenetics:** 1p36.13
- Protein Families:** Transmembrane
- MW:** 20.2 kDa
- Gene Summary:** Amino acid transporter that specifically mediates the pH-dependent export of the cationic amino acids arginine, histidine and lysine from lysosomes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG236318