

Product datasheet for **RG204414**

SLC66A1 (NM_001040126) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC66A1 (NM_001040126) 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:	>RG204414 representing NM_001040126 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCAGGCGCTGCCCTGTGGTTCCTCCTGGGCTGGATTGGCGGAGACTCCTGCAACCTCATCGGCT
CCTTCCTGTGACCAGCTGCCCTGCAGACCTACACGGCTGTGTATTATGTCTTGGCAGACCTGGTGAT
GCTGACGCTGTACTTTTACTACAAGTTCAGGACGCGCCCTCTGTGTCTGCCCCATCAACTCCGTG
CTGTTGTTCTCATGGGGATGGCGTGCACCACACCGCTGCTGAGTGTCTGGGCCGCTGGCTGCCCTA
GGGAAGCCTTCCGGGGCGGGCGCTCCTGTCCGTGGAGTCGGGCAGCAAGCCCTTACCCGGCAGGAAGT
CATTGGCTTCGTATCGGCTCCATCTCCAGCGTGTGTACCTGCTTCCCGGCTGCCTCAGATCCGCACC
AACTTCCTCCGGAAGTCCACCCAGGGGATCCTACTCTCTGTTCCGCGCTGGTGTGCTGGGGAACACGC
TGTATGGGCTGAGCGTGCTGCTCAAAAACCCGAGGAGGGCCAGAGCGAGGGCAGCTACCTGCTGCACCA
CCTGCCCTGGCTTGTGGGCGAGCTGGGCGTGCTGCTGCTGCTGACACCATCATCTCCATCCAGTTCTGGTG
TACAGGCGCAGCACCGCCGCTCGGAGCTTGAGCCCTCCTCCCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204414 representing NM_001040126
 Red=Cloning site Green=Tags(s)

MDQALSLWFLLGWIGGDSNLIIGSFLADQLPLQTYTAVYYVLADLVMLTLYFYKFRTRPSLLSAPINSV
 LLFLMGMACATPLL SAAGPVAAPREAFRGRALLSVESGSKPFTRQEVIGFVIGSISVLYLLSRLPQIRT
 NFLRKSTQGISYSLFALVMLGNTLYGLSVLLKNPEEGQSEGSYLLHHLPLWVGSGLVLLLDTIISIQLV
 YRRSTAASELEPLLPS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001040126

ORF Size: 678 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_001040126.2](#)

RefSeq Size: 1667 bp

RefSeq ORF: 681 bp

Locus ID: 54896

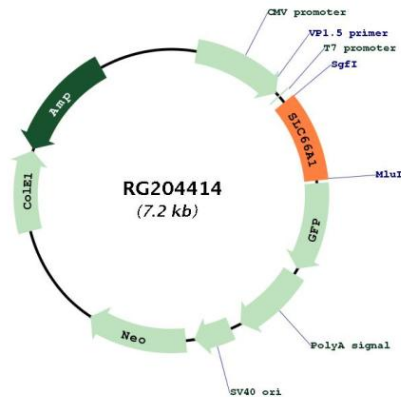
UniProt ID: [Q6ZP29](#)

Cytogenetics: 1p36.13

Protein Families: Transmembrane

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 RG204414