

Product datasheet for **RG200122**

SLC38A7 (NM_018231) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC38A7
Synonyms:	SNAT7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG200122 representing NM_018231
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCAGGTGAGCATCAACAATGACTACAGCGAGTGGGACTTGAGCACGGATGCCGGGAGCGGGCTC
 GGCTGCTGCAGAGTCCCTGTGTGGACACAGCCCCAAGAGTGAGTGGGAAGCCTCTCCTGGGGGTCTGGA
 CAGAGGCACCACTTCCACACTTGGGGCCATCTTCATCGTCAACGCGTGCCTGGGTGCAGGGTACTC
 AACTTCCCAGCAGCCTTCACTGCGGGGGCGTGGCAGCAGGCATCGCACTGCAGATGGGTATGCTGG
 TTTTCATCATCAGTGGCCTTGTATCCTGGCCTACTGCTCCAGGCCAGCAATGAGAGGACCTACCAGGA
 GGTGGTATGGGCTGTGTGTGGCAAGCTGACAGGTGTGCTATGTGAGGTGGCCATCGCTGTCTACACCTTT
 GGCACCTGCATTGCCTTCTAATCATCATTGGCGACCAGCAGGACAAGATTATAGCTGTGATGGCGAAAG
 AGCCGGAGGGGGCCAGCGGCCCTTGGTACACAGACCGCAAGTTCACCATCAGCCTCACTGCCTTCTCTT
 CATCCTGCCCTCTCCATCCCAGGGAGATTGGTTCCAGAAATATGCCAGCTTCTGAGCGTCTGGGT
 ACCTGGTACGTCACAGCCATCGTTATCATCAAGTACATCTGGCCAGATAAAGAGATGACCCAGGGAACA
 TCCTGACCAGGCCGGCTTCTGGATGGCTGTGTTCAATGCCATGCCACCATCTGCTTCGGATTTCACTG
 CCACGTGAGCAGTGTGCCGCTTCAACAGCATGCAGCAGCCTGAAGTGAAGACCTGGGGTGGAGTGGTG
 ACAGCTGCCATGGTCATAGCCCTCGCTGTCTACATGGGACAGGCATCTGTGGCTTCTGACCTTTGGAG
 CTGCTGTGGATCCTGACGTGCTCCTGTCTATCCCTCGGAGGACATGGCCGTGGCCGTTGCCCGAGCCTT
 CATCATCCTGAGCGTGCTCACCTCCTACCCTATCCTGCACTTCTGTGGCGGGCGGTGGTGAAGCCTG
 TGGTGCCTACCAGGGGGTGCAGTGGAGGAGACGTGGGCGGGAGCGGCGGCGGAGTGTGCAGA
 CGCTGGTCTGGTTCTGCTCACCTGCTGCTGGCGCTTTCATCCCTGACATCGGCAAGGTGATCTCAGT
 CATTGGAGGCTGGCCGCTGCTTCATCTTCGTCTCCAGGGCTGTGCCTATTCAAGCCAAACTCTCT
 GAGATGGAAGAGGTCAAACAGCCAGCTGGTGGGTGCTGGTCAGTACGGAGTCTCTTGGTCACCTGG
 GAGCCTTATCTTCGGCCAGACCAGCCAAAGCCATCTTTGTGGATCTCTGGCA

AGCGGACCGACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA

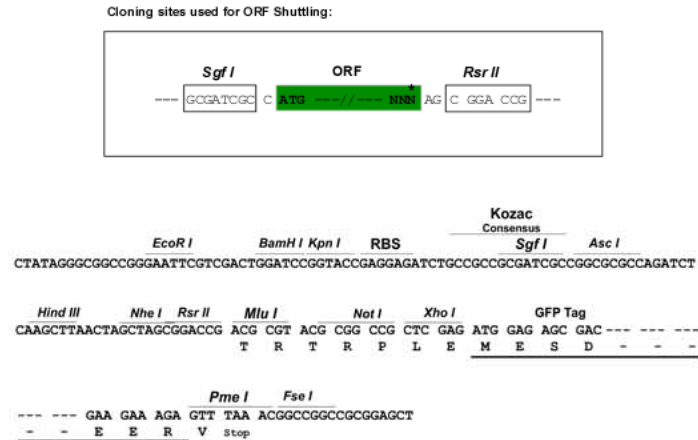
Protein Sequence: >RG200122 representing NM_018231
 Red=Cloning site Green=Tags(s)

MAQVSINNDYSEWDLSTDAGERARLLQSPCVDTPKSEWEASPGGLDRGTTSTLGAIFIVVNAACLGALL
 NFPAAFSTAGGVAAGIALQMGMLVFIISGLVILAYCSQASNERTYQEVVWAVCGKLTGVLCEVAIAVYTF
 GTCIAFLIIIGDQDKIIAVMAKEPEGASGPWYTDKFTISLTAFLFILPLSIPREIGFQKYASFLSVVG
 TWYVTAIVIIKIYIWPDKEMTPGNILTRPASWMAVFNAMPTICFGFQCHVSSVPVFNSMQQPEVKTWGGVV
 TAAMVIALAVYMGTCIGFLTFGAAVDPDVLLSYSEDMAVAVARAFIILSVLTSYPILHFCGRAYVEGL
 WLRYQGVPEEDVGRERRRRVLQTLVWLLTLLALFIPDIGKVISVIGGLAACFIFVFPGLCLIQAKLS
 EMEEVKPAWWVLVSYGVLLVTLGAFIFGQTTANAIFVDLLA

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_018231

ORF Size: 1386 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:

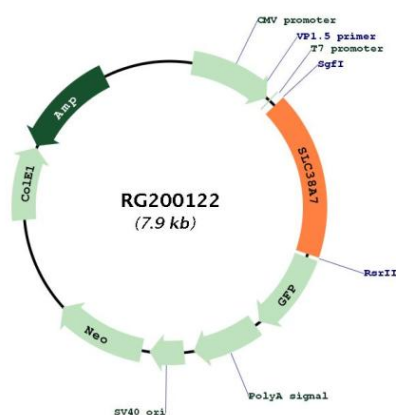
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018231.3](#)

RefSeq Size:	2773 bp
RefSeq ORF:	1389 bp
Locus ID:	55238
UniProt ID:	Q9NVC3
Cytogenetics:	16q21
Domains:	Aa_trans
Protein Families:	Transmembrane
Gene Summary:	Mediates sodium-dependent transport of amino acids, preferentially L-glutamine. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200122