

Product datasheet for **RG210307**

SLC38A6 (NM_153811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC38A6 (NM_153811) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC38A6
Synonyms:	NAT-1; SNAT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210307 representing NM_153811
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGCGTCTGGGGAGCTCAACGCTGAGCGGGCTGGTATGTCTCTGTCCAGCAGCCTGAAGAAG
 CGGAGGCCGAAGAGTTGAGTCCGTTGCTAAGCAACGAACCTCACAGACAGCGATCCCCAGGTGTTTCATT
 TGGTTTATCAGTGTTTAATTTGATGAATGCCATCATGGGAAGTGGCATCCTTGGCTTAGCTTATGTTATG
 GCTAATACCGGTGCTTTGGATTAGCTTCTTGCTGCTGACAGTTGCTCTCCTGGCTTCTTACTCAGTCC
 ATCTTCTGCTTAGTATGTGATTACAGACAGCTGTAACATCTTATGAAGATCTTGGACTCTTGCATTTGG
 ATTACCTGGAAAGTTGGTGGTGGCAGGCACCATAATAATTCAGAATATTGGAGCTATGTCATCTTATCTT
 TTAATTATTAACAGAGCTTCTGCTGCTATTGCAGAATTTTGGACTGGAGACTATAGTAGATATTGGT
 ATCTTGATGGACAAACTACTAATAATCATATGTGTTGGCATTGTGCCCTCTTGCATCTTCTCCAA
 AATAGGCTTTCTGGCTACACAAGTAGTTATCATTTTTCTTTATGATGTTCTTTGCTCTTGGTGAATA
 ATTAATAAATGGTCCATCCCTTGTCTCTGACATTAATTTATGTAGAGAAAGGCTCCAGATTTCAATG
 TTACAGATGATTGAAGCCAAAGCTCTTTCATTTCTCCAAGAGAGTGCTTATGCCTTACCAACCATGGC
 TTTTTCATTTCTCTGCCATACCTCAATATTGCCATATACTGTGAACTTCAAAGTCTTCAAAGAAAAGA
 ATGCAGAAATGTTACCAATACAGCAATTGCTTAAAGTTTCTCATTTATTTTATATCTGCACTCTTTGGGT
 ACCTCACTTTTTATGACAAAGTGGAGTCAGAACTACTAAAAGTTATAGTAAACTTATCACATGATGT
 TGTTGTCATGACTGTGAAGTTATGCATACTATTTGCTGTGCTTTTACAGTCCCTCTAATCCACTCCCT
 GCCAGAAAAGCTGTAACAATGATGTTTTCTCCAATTTCCATTCTCATGGATTGCCATTTTTTGATCA
 CTCTAGCACTCAATATTATCATCGTTTTACTTGAATATATGTTCTGACATTAGAAATGATTTGGTGT
 AGTTGGTGCCAGTACATCAACATGTTTATTTTTATATTTCCAGGACTATTTTATCTTAAACTTAGCAGA
 GAGGATTTTCTGTCATGGAAAAGCTTGGGGCATTGTTTTGCTCATCTTTGGAATTTGGTTGGGAATT
 TTAGTTTAGCACTCATCATTTTTGATTGGATTAATAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210307 representing NM_153811
 Red=Cloning site Green=Tags(s)

MEASWGSFNAERGWYVSVQQPEEAEAEELSPLLSENLHRQRSPGVSFGLSVFNLMAIMGSGILGLAYVM
 ANTGVFGFSLLLLVALLASYSVHLLSMCIQTAVTSYEDLGLFAFGLPGKLVVAGTIIIQNIGAMSSYL
 LIIKTELPAIAEFLTGDYSRYWYLDGQTLIIICVGI VFP LALLPKIGFLGYTSSL SFFMMFFALVVI
 IKKWSIPCPLTLNYVEKGFQISNVTDDCKPKLFHFSKESAYALPTMAFSFLCHTSILPIYCELQSPSKKR
 MQNVTNTAIALSFLIYFISALFGYLTFYDKVESELLKGYSKYLSHDVVVMTVKLCILFVLLTVPLIHFP
 ARKAVTMMFFSNFPFSWIRHFLITLALNIIIVLLAIYVPDIRNVFVVGASTSTCLIFIFPGLFYLKLRSR
 EDFLSWKKLGAFVLLIFGILVGNFSLALIIIFDWINK

TRTRPLE – GFP Tag – V

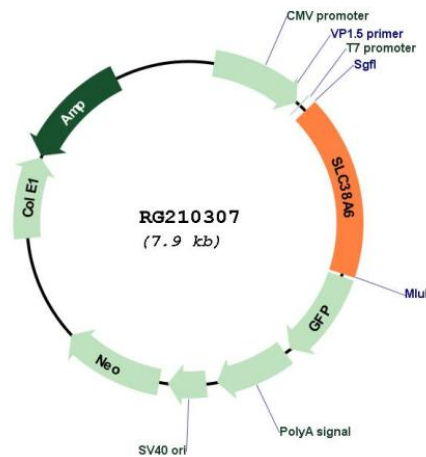
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_153811

ORF Size: 1368 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:	<ol style="list-style-type: none">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:	<u>NM_153811.1, NP_722518.1</u>
RefSeq Size:	1516 bp
RefSeq ORF:	1371 bp
Locus ID:	145389
UniProt ID:	<u>Q8IZM9</u>
Cytogenetics:	14q23.1
Domains:	Aa_trans
Protein Families:	Transmembrane
Gene Summary:	Probable sodium-dependent amino acid/proton antiporter, could be a neuronal transporter for glutamate.[UniProtKB/Swiss-Prot Function]