

Product datasheet for **RG231081**

SLC1A4 (NM_001193493) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A4 (NM_001193493) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC1A4
Synonyms:	ASCT1; SATT; SPATCCM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231081 representing NM_001193493 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATTTTAGGATTGGTCTGTTTGTCTGGTGTAGGAGTGGCCTTAAAGAACTAGGCTCCGAAG
GAGAAGACCTCATCCGTTTCTTCAATCCCTCAACGAGGCGACGATGGTGTGGTGTCTGGATTATGTG
CTCAGCGACCTTCCCTCTATGATGAAGTGCATTGAAGAGAACAATGGTGTGGACAAGAGGATCAGCAGG
TTTATTCTCCCATCGGGCCACCGTGAACATGGACGGAGCAGCCATCTCCAGTGTGTGGCCGCGGTGT
TCATTGCGCAACTCAACAACGTAGAGCTCAACGCAGGACAGATTTTACCATTCTAGTGACTGCCACAGC
GTCCAGTGTGGAGCAGCAGGCGTGCAGCTGGAGGGTCTCACCATTGCCATTATCCTGGAGGCCATT
GGGCTGCCTACTCATGACCTGCCTCTGATCCTGGCTGTGGACTGGATTGTGGACCGGACCACCACGGTGG
TGAATGTGAAGGGGATGCCCTGGGTGCAGGCATTCTCCACCACCTGAATCAGAAGGCAACAAAGAAAGG
CGAGCAGGAATTGCTGAGGTGAAAGTGAAGCCATCCCCAAGTCTGAGGAGGAGACATCGCCC
CTGGTGACACACCAGAACCCCGTGGCCCGTGGCCAGTCCCCAGAAGTGAATCCAAGGAGTCGGTTC
TG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231081 representing NM_001193493
 Red=Cloning site Green=Tags(s)

MNILGLVLFALVLGVALKKLGSEGEDLIRFFNSLNEATMVLVSWIMCSATLP SMMKCI EENNGVDKRISR
 FILPIGATVNM DGA AIFQCVA AVFIAQLNNVELNAGQIFITILVTATASSVGAAGVPAGGVL TIAIILEAI
 GLPTHDLPLILAVDWIVDR TTTVVNVEGDALGAGILHHLN QKATKKGEQELAEVKVEAIPNCKSE EETSP
 LVTHQNPAGPVASAPELESKESVL

TRTRPLE - GFP Tag - V

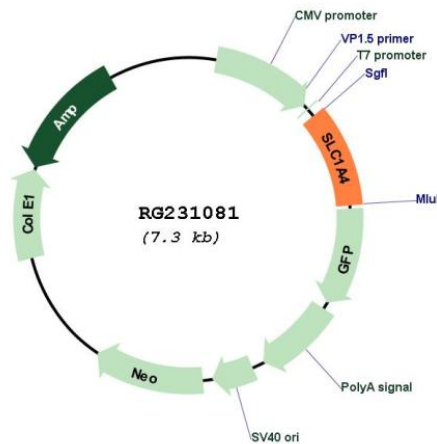
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001193493

ORF Size: 702 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:	NM_001193493.2
RefSeq Size:	3743 bp
RefSeq ORF:	705 bp
Locus ID:	6509
UniProt ID:	P43007
Cytogenetics:	2p14
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	The protein encoded by this gene is a sodium-dependent neutral amino acid transporter for alanine, serine, cysteine, and threonine. Defects in this gene have been associated with developmental delay, microcephaly, and intellectual disability. [provided by RefSeq, Jan 2017]