

Product datasheet for **RG228297**

SLC41A3 (NM_001164475) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC41A3
Synonyms:	SLC41A1-L2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG228297 representing NM_001164475
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACACTGGCATCCAGACTCTCCACAGCTGCCAACACTGGACAAATTGATGACCCCCAGGAGCAGCACA
GAGTCATCAGCAGCAACCTGGCCCTCATCCAGGTGCAGGCCACTGTCGTGGGGCTCTTGGCTGCTGTGGC
TGCGCTGCTGTTGGGCGTGGTGTCTCGAGAGGAAGTGGATGTCGCCAAGGTGGAGTTGCTGTGTGCCAGC
AGTGTCTCACTGCCTTCCTTGACGCTTTGCCCTGGGGTGCTGATGGTCTGTATAGTGATTGGTGCTC
GAAAGCTCGGGGTCAACCCAGACAACATTGCCACGCCATTGCAGCCAGCCTGGGAGACCTCATCACACT
GTCCATTCTGGCTTTGGTTAGCAGCTTCTCTACAGACACAAAGATAGTCGGTATCTGACGCCGCTGGTC
TGCCCTCAGCTTTGCGGCTCTGACCCAGTGTGGTCTCATTTGCCAAGCAGAGCCACCCATCGTGAAGA
TCCTGAAGTTTGGCTGGTTCCAATCATCTGGCCATGGTCATCAGCAGTTTCGGAGGACTCATCTTGAG
CAAAACCGTTTCTAAACAGCAGTACAAAGGCATGGCGATATTTACCCCGTCATATGTGGTGTGGTGGC
AATCTGGTGGCCATTAGACACGCGAATCTCAACCTACCTGCACATGTGGAGTGCACCTGGCGTCTGCTC
CCCTCCAGATGAAGAAATCTGGCCCAACCCGTGTTCTACTTTCTGCACGTGAGAAATCAATTCATGTC
AGCTCAGTCTGCTCTTGGTGGTGGTCCAGGCCATCTGATTTTCTTACATCATCTACCTGGTGGAG
GGTCAGTCAGTCATAAACAGCCAGACCTTTGTGGTGTCTACCTGCTGGCAGGCTGATCCAGGTGACAA
TCCTGTGTACCTCGCAGAAGTGATGGTTCGGCTGACTTGGCACCAGGCCCTGGATCTGACAACCACTG
CATCCCTACCTTACAGGGCTGGGGACCTGCTCGGTACTGGCCTCTGGCACTCTGCTTTTCACTGAC
TGGCTACTGAAGCAAGGCAGAGCTGGTGGCATCTCAGAACTGGCATCTGGACCTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



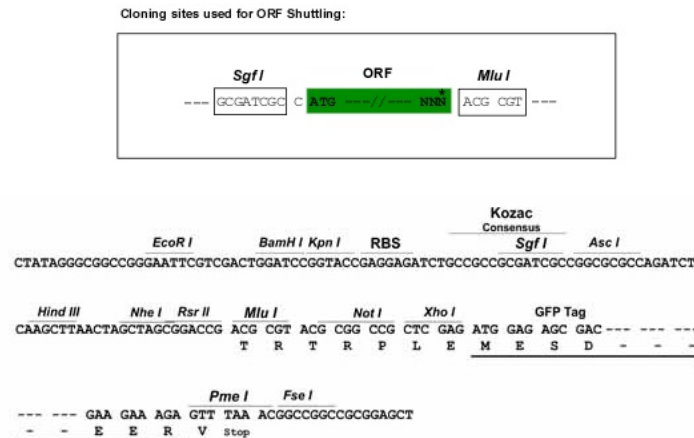
Protein Sequence: >RG228297 representing NM_001164475
 Red=Cloning site Green=Tags(s)

MTLASRLSTAANTGQIDDPQEQHRVISSNLALIQQVATVVGLLAAVAALLLGVSREEVDVAKVELLCAS
 SVLTAFLAALFALGVLVCIVIGARKLGVNPDNIATPIAASLGLITLSILALVSSFFYRHKDSRYLTPLV
 CLSFAALTPVWVLIKQSPPIVKILKFGWFPIILAMVISSFGGLILSKTVSKQQYKGMATFPIVIGVGG
 NLVAIQTSRISTYLHMWSAPGVLPLQMKKFWPNPCSTFCTSEINMSARVLLLLVVPGLIFFYIIVLVE
 GQSVINSQTFVVLVLLAGLIQVTILLYLAEVMVRLTWHQALDPDNHCIPYLTGLGDLGTGLLALCFFTD
 WLLKSKAELGGISELASGPP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164475

ORF Size: 1110 bp

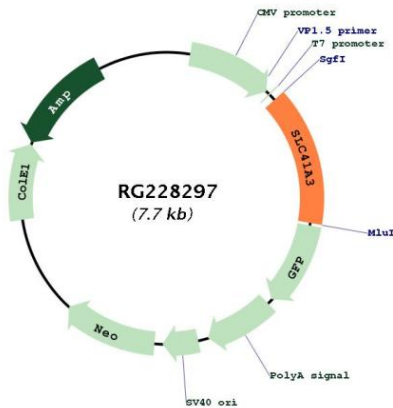
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001164475.2</u>
RefSeq Size:	1970 bp
RefSeq ORF:	1113 bp
Locus ID:	54946
UniProt ID:	<u>Q96GZ6</u>
Cytogenetics:	3q21.2-q21.3
Protein Families:	Transmembrane

Product images:



Circular map for RG228297