

Product datasheet for **RG215071**

SLC41A3 (NM_017836) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC41A3 (NM_017836) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC41A3
Synonyms:	SLC41A1-L2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215071 representing NM_017836
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGGGACAGAGACCCGGCAGCGGAGGCTGGACAGCTGTGGCAAGCCAGGGGAGCTGGGGCTTCTCT
 ACCCCCTCAGCACAGGAGGACTCCCTGTAGCCTCAGAAGATGGAGCTCTCAGGGCCCTGAGAGCCAAAG
 CGTGACCCCAAGCCACTGGAGACTGAGCCTAGCAGGGAGACCGCCTGGTCCATAGGCCTTCAGGTGACC
 GTGCCCTTCATGTTTGCAGGCCTGGGACTGTCCTGGGCCGGCATGCTTCTGGACTATTTCCAGCACTGGC
 CTGTGTTTGTGGAGGTGAAAGACCTTTTGACATTGGTGCCGCCCTGGTGGGCCTGAAGGGGAACCTGGA
 GATGACTGGCATCCAGACTCTCCACAGCTGCCAACACTGGACAAATTGATGACCCCAAGGAGCAGCAC
 AGAGTCATCAGCAGCAACCTGGCCCTATCCAGGTGCAGGCCACTGTCGTGGGGCTTTGGCTGCTGTGG
 CTGCGCTGCTGTTGGCGTGGTGTCTCGAGAGGAAGTGGATGTCGCCAAGGTGGAGTTGCTGTGTCCAG
 CAGTGTCTCACTGCCTTCTTGCAGCCTTTGCCCTGGGGTGTGATGGTCTGTATAGTGATTGGTGTCT
 CGAAAGCTCGGGTCAACCCAGACAACATTGCCACGCCATTGCAGCCAGCCTGGGAGACCTCATCACAC
 TGTCATTCTGGCTTTGGTTAGCAGCTTCTTACAGACACAAAGATAGTCGGTATCTGACGCCCGCTGGT
 CTGCCTCAGCTTTGCGGCTCTGACCCAGTGTGGGTCTCATTGCCAAGCAGAGCCACCATCGTGAAG
 ATCCTGAAGTTTGGCTGGTTCCAATCATCCTGGCCATGGTCAATCAGCAGTTTCGGAGGACTCATCTTGA
 GCAAAACCGTTTCTAAACAGCAGTACAAAGGCATGGCGATATTTACCCCGTCATATGTTGGTGTGGTGG
 CAATCTGGTGGCCATTAGACAGCCGAATCTCAACCTACCTGCACATGTGGAGTGCACCTGGCGTCTGT
 CCCCTCCAGATGAAGAAATCTGGCCCAACCCGTGTTCTACTTTCTGCACGTGAGAAATCAATCCATGT
 CAGCTCGAGTCTGCTCTTGTGGTGGTCCCAGGCCATCTGATTTTCTTACATCATCTACCTGGTGGG
 GGGTCAGTCAGTCATAAACAGCCAGACCTTTGTGGTGTCTACCTGCTGGCAGGCCTGATCCAGGTGACA
 ATCCTGTGTACCTCGCAGAAGTATGGTTGCGCTGACTTGGCACCAGGCCCTGGATCCTGACAACCACT
 GCATCCCTACCTTACAGGGCTGGGGACCTGCTCGGTACTGGCCTCCTGGCACTCTGCTTTTCTACTGA
 CTGGCTACTGAAGAGCAAGGCAGAGCTGGGTGGCATCTCAGAAGTGGCATCTGGACCTCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215071 representing NM_017836
 Red=Cloning site Green=Tags(s)

MDGTETRQRRLDSCGKPGELGLPHPLSTGGLPVASEDGALRAPESQSVTPKPLETEPSRETAWSIGLQVT
 VPFMFAGLGLSWAGMLLDYFQHPVVFVEVKDLLTLVPPLVGLKGNLEMTLASRLSTAANTGQIDDPQEQH
 RVISSNLALIQVQATVVGLLAAVAALLLGVVSREEVDVAKVELLCASSVLAFLAAFALGVLVCIVIGA
 RKLGVNPDNIATPIAASLGDILITLSILALVSSFFYRHKDSRYLTPLVCLSFAALTPVWVLIKQSPPIVK
 ILKFGWFPIILAMVISSFGGLILSKTVSKQYKGMATFPVICGVGGNLVAIQTSRISTYLHMWSAPGVL
 PLQMKKFVWPCSTFCTSEINSMARVLLLLLVPGHLIFFYIIYLVGQSVINSQTFVVLYLLAGLIQVT
 ILLYLAEVMVRLTWHQALDPDNHCIPYLTGLGDLLGTGLLALCFFTDWLLKSKAELGGISELASGPP

TRTRPLE – GFP Tag – V

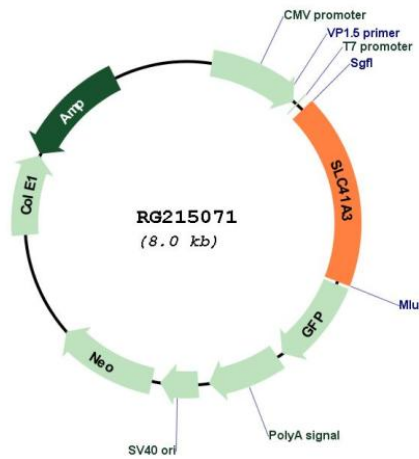
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017836

ORF Size: 1461 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_017836.3](#), [NP_060306.3](#)

RefSeq Size: 2349 bp

RefSeq ORF: 1464 bp

Locus ID: 54946

Cytogenetics: 3q21.2-q21.3

Domains: MgtE

Protein Families: Transmembrane