

Product datasheet for **RG228356**

SLC14A1 (NM_001146037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC14A1 (NM_001146037) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC14A1
Synonyms:	HsT1341; HUT11; JK; Jk(b); RACH1; RACH2; UT-B1; UT1; UTE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228356 representing NM_001146037
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGGACGGTCTTTGATTGGCGCGCTGGTGACGCCCGTCATGGTCCTGTTTGAAGGACCCCTTTG
 GAACTAAAGCTGGTGACGCAGCGCAGAGGCATCGCCCGCTAAGCTTGCCCTGGCAGATGGGTGCA
 GGAACAGGAGCCAGAGGAAGAGATAGCCATGGAGGACAGCCCACTATGGTTAGAGTGGACAGCCCACT
 ATGGTTAGGGGTAAAACCAGGTTTCGCCATGTCAAGGGAGAAGGTGCTCCCAAAGCTTTGGCTATG
 TCACCGGTGACATGAAAGAACTTGCCAACCAGCTTAAAGACAAACCCGGTGGTGTCCAGTTCATTGACTG
 GATTCTCCGGGCATATCCAAGTGGTGTTCGTCACAACCCCGTCAGTGAATCCTGATTCTGGTAGGA
 CTTCTTGTTCAGAACCCTGGTGGGCTCTCACTGGCTGGCTGGGAACAGTGGTCTCCACTCTGATGGCC
 TCTTGCTCAGCCAGGACAGGTCATTAATAGCATCTGGGCTCTATGGCTACAATGCCACCCTGGTGGGAGT
 ACTCATGGCTGTCTTTTCGGACAAGGGAGACTATTTCTGGTGGCTGTTACTCCCTGTATGTCTATGTCC
 ATGACTTGCCCAATTTCTCAAGTGCATTGAATCCATGCTCAGCAAATGGGACCTCCCGTCTTCAACC
 TCCCTTCAACATGGCGTTGTCAATGTACCTTTAGCCACAGGACATTACAATCCATTCTTTCCAGCCAA
 ACTGGTCATACCTATAACTACAGCTCCAATATCTCCTGGTCTGACCTCAGTGCCTGGATTGTTGAAA
 TCTATACCAGTGGGAGTTGGTCAGATCTATGGCTGTGATAATCCATGGACAGGGGGCATTCTTCTGGGAG
 CCATCCTACTCTCTCCCACTCATGTGCCTGCATGCTGCCATAGGATCATTGCTGGGCATAGCAGCGGG
 ACTCAGTCTTTCAGCCCAATTTGAGGACATCTACTTTGGACTCTGGGTTTCAACAGCTCTCTGGCTGC
 ATTGCAATGGGAGGAATGTTTCATGGCGCTCACCTGGCAAACCCACCTCCTGGCTCTTGGCTGTGCCCTGT
 TCACGGCCTATCTTGGAGTCGGCATGGCAAATTTATGGCTGAGGTTGGATTGCCAGCTTGTACCTGGCC
 CTTCTGTTTGGCCACGCTATTGTTCTCATGACCACAAAAAATTCCAACATCTACAAGATGCCCTC
 AGTAAAGTTACTTATCCTGAAGAAAACCGCATCTTCTACCTGCAAGCCAAGAAAAGAATGGTGAAAGCC
 CTTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228356 representing NM_001146037
 Red=Cloning site Green=Tags(s)

MNGRSLIGGAGDARHGVPVWKDPFGTKAGDAARRGIARLSLALADGSQEQEPEEEIAMEDSPTMVRVDSPT
 MVRGENQVSPCQGRRCFPKALGYVTGDMKELANQLKDKPVVLQFIDWILRGISQVVFVNNPVSGILILVG
 LLVQNPWWALTGWLTGVVSTLMALLLSQDRSLIASGLYGNATLVGVLMVAVFSDKGDYFWLLLPVCAMS
 MTCPIFSSALNSMLSKWDLPVFTLPFNMLSMYLSATGHYNPFFPAKLVIPITTAPNISWSDLSALELLK
 SIPVGVGQIYGCDNPWTGGIFLGAILLSSPLMCLHAAIGSLLGIAAGLSLAPFEDIYFGLWGFNSLAC
 IAMGGMFMALTWQTHLLALGCALFTAYLGVGMANFMAEVGLPACTWPFCLATLLFLIMTTKNSNIYKMPL
 SKVTYPEENRIFYLQAKKRMVESPL

TRTRPLE – GFP Tag – V

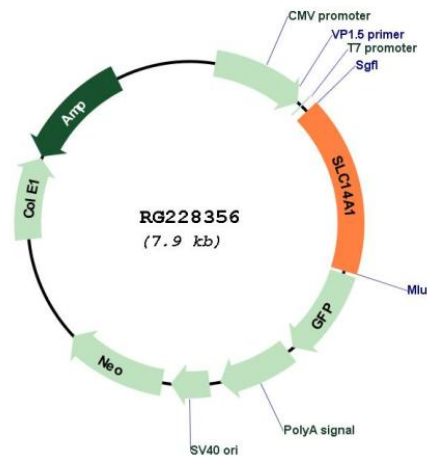
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001146037

ORF Size: 1335 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_001146037.1, NP_001139509.1</u>
RefSeq Size:	4226 bp
RefSeq ORF:	1338 bp
Locus ID:	6563
UniProt ID:	<u>Q13336</u>
Cytogenetics:	18q12.3
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene is a membrane transporter that mediates urea transport in erythrocytes. This gene forms the basis for the Kidd blood group system. [provided by RefSeq, Mar 2009]