

Product datasheet for **RG223530**

SLC28A1 (NM_004213) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC28A1
Synonyms:	CNT1; HCNT1; URCTU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG223530 representing NM_004213
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGAACGACCCCTCGAGACGAAGAGAGTCCATCTCTCACACCTGTGGCCAAGGGTCTGGAGAACA
 TGGGGGCTGATTTCTTGAAAGCCTGGAGGAAGGCCAGCTCCCTAGGAGTGACTTGAGCCCCGAGAGAT
 CAGGAGCAGCTGGAGCGAGGCGGCCGAAGCCCTTCTCCAGATGGAGGAACCTGCAGCCAGCCCTGAGA
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 AAGCCTCAGGGCCATCCCCGCTGCTGCTGTTTAAAGAGGGTCTAGCTCTTGCTGCTTCTCTGGGCC
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 CGGAAGAGCGACTTCTCCAGATAGTCTCCGGCGCTTTCACGGGAGCCTGTGTCTCCCTGGTGAACG
 CCTGTATGGCAGGATCTCTACATGCCAGGGGGCTGAAGTTGACTGCATGTCCCTCTTGAACACGAC
 CCTCAGCAGCAGTAGCTTTGAGATTTACCAGTGTGCCGTGAGGCCTTCCAGAGCGTCAATCCAGAGTTC
 AGCCCAGAGGCCCTGGACAACCTGCTGTGCGTTTACAACCACACGATCTGTGCACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

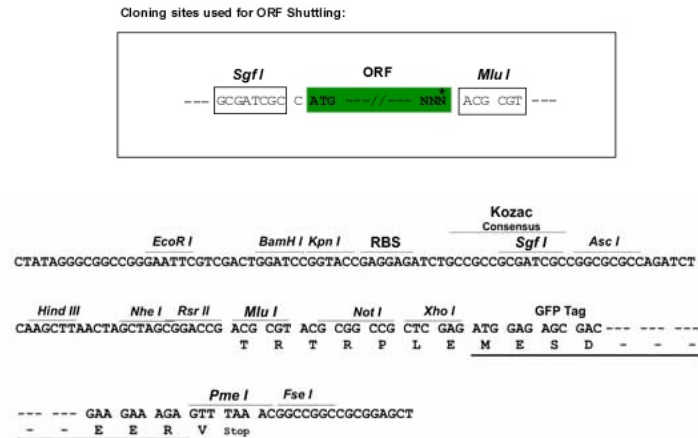
Protein Sequence: >RG223530 representing NM_004213
 Red=Cloning site Green=Tags(s)

MENDPSRRRESISLTPVAKLENMGADFLESLEEQQLPRSDLSPAEIRSSWSEAAPKPF SRWRNLQPALR
 ARSFCREHMQLFWRIGTGLLCTGLSAFLLVACLLDFQRALALFVLTCVLTFLGHRLLKRLLGPKLRRFL
 KPQGHPRLLLWFKRGLALAAFLGLVLWLSLDTQRPEQLVSFAGICVFVALLFACSKHHCAVSWRAVSWG
 LGLQFVLGLLVIRTEPGFIAFEWLGEQIRIFLSYTKAGSSFVFGEALVKDVFAFQVLPPIIVFFSCVISVL
 YHVGLMQWVILKIAWLMQVTMTTATETLSVAGNIFVSQTEAPLLIRPYLADMTLSEVHVMTGGYATIA
 GSLLGAYISFGIDATSLIAASVMAAPCALALSKLVYPEVEESKFRREEGVKLTYGDAQNLIEAASGAAI
 SVKVVANIAANLIAFLAVLDFINAALSWLGDMDIQGLSFQLICSYILRPVAFLMGVAWEDCPVVAELLG
 IKLFLNEFVAYQDL SKYKQCRLAGAEWVGDRKQWISVRAEVL TTFALCGFANFSSIGIMLGGLTSMVPQ
 RKSDFSQIVLRALFTGACVSLVNACMAGILYMPRGAEVDCMSLLNTTSSSSFEIYQCCREAFQSVNPEF
 SPEALDNCCRFYNHTICAQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004213

ORF Size: 1947 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: [NM_004213.3](#), [NP_004204.3](#)

RefSeq Size: 2750 bp

RefSeq ORF: 1950 bp

Locus ID: 9154

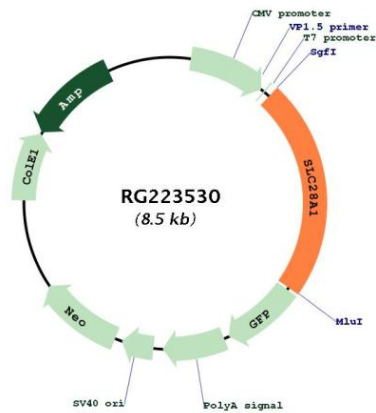
UniProt ID: [O00337](#)

Cytogenetics: 15q25.3

Protein Families: Transmembrane

Gene Summary: Sodium-dependent and pyrimidine-selective. Exhibits the transport characteristics of the nucleoside transport system cit or N2 subtype (N2/cit) (selective for pyrimidine nucleosides and adenosine). It also transports the antiviral pyrimidine nucleoside analogs 3'-azido-3'-deoxythymidine (AZT) and 2',3'-dideoxycytidine (ddC). It may be involved in the intestinal absorption and renal handling of pyrimidine nucleoside analogs used to treat acquired immunodeficiency syndrome (AIDS). It has the following selective inhibition: adenosine, thymidine, cytidine, uridine >> guanosine, inosine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG223530