

Product datasheet for **RG226940**

SLC1A5 (NM_001145144) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A5 (NM_001145144) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC1A5
Synonyms:	AAAT; ASCT2; ATBO; M7V1; M7VS1; R16; RDRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226940 representing NM_001145144
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGCCGATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGCGGAGCCACCGCCAACGGGGCCTGG
 CGCTGGCCTCCATCGAGGACCAAGGCGCGCAGCAGGCGGCTACTGCGGTTCCCGGGACCAGGTGCGCCG
 CTGCCTTCGAGCCAACCTGCTTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGGACTG
 GGGGTGTCGGGGGCCGGGGTGCCTGGCGTTGGGCCCGAGCGCTTGAGCGCCTTCGTCTTCCCGGGCG
 AGCTGCTGCTGCTGCTGCGGATGATCATCTTGCCGCTGGTGGTGTGCAGCTTGATCGCGCGCGCCG
 CAGCCTGGACCCCGCGCGCTCGGCCGTCTGGCGCCTGGGCGCTGCTCTTTTCTGGTACCACGCTG
 CTGGCGTCGGCGCTCGGAGTGGGCTTGGCGCTGGCTCTGCAGCCGGCGCCGCTCCGCCCCATCAACG
 CCTCCGTGGGAGCCGGGCGAGTCCGAAAATGCCCCAGCAAGGAGGTGCTCGATTGTTCTCGGATCT
 TGCAGAAAATATCTTCCCTTCCAACCTGGTGTGTCAGCAGCCTTTCGCTCATACTCTACCACCTATGAAGAG
 AGGAATATCACCGGAACCAAGGTGAAGGTGCCCGTGGGGCAGGAGGTGGAGGGGATGAACATCCTGGGCT
 TGGTAGTGTGGCCATCGTCTTTGGTGTGGCGCTGCGGAAGCTGGGGCCTGAAGGGGAGCTGCTTATCCG
 CTTCTTCAACTCCTTCAATGAGGCCACCATGGTCTGGTCTCCTGGATCATGTGGTACGCCCTGTGGGC
 ATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGATGTGGGTTACTCTTGGCCCGCTTGGCA
 AGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCTGGTACTGCCCTCATCTACTTCT
 CTTACCCGCAAAAACCCCTACCGCTTCTGTGGGCACTCGTACGCCGCTGGCCACTGCCTTGGGACC
 TCTTCCAGTTCGCCACGCTGCCGCTGATGATGAAGTGGTGGAGAGAATAATGGCGTGGCCAAGCACA
 TCAGCGTTCATCTGCCATCGCGCCACCGTCAACATGGACGGTGGCGGCTCTCCAGTGGCGTGGC
 CGCAGTGTTCATTGCACAGCTCAGCCAGCAGTCCCTTGGACTTCGTAAGATCATCACCATCCTGGTCACG
 GCCACAGCGTCCAGCGTGGGGCAGCGGCATCCCTGCTGGAGGTGTCTCACTCTGGCCATCATCTCG
 AAGCAGTCAACCTCCCGTTCGACCATATCTCCTTATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTG
 TACCGTCTCAATGTAGAAGGTGACGCTCTGGGGCAGGACTCCTCCAAAATTACGTGGACCGTACGGAG
 TCGAGAAGCACAGAGCCTGAGTTGATACAAGTGAAGAGTGAAGTGGCCCTGGATCCGCTGCCACTCCCA
 CTGAGGAAGGAAACCCCTCCTCAAACACTATCGGGGGCCCGAGGGGATGCCACGGTGCCTCTGAGAA
 GGAATCAGTCATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226940 representing NM_001145144
 Red=Cloning site Green=Tags(s)

MVADPPRDSKGLAAAAPTANGGLALASIEDQGAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGL
 GVSGAGGALALGPERLSAFVFPGELLLRLLRMIILPLVVCSLIGGAASLDPGALGRLGAWALLFFLVTTL
 LASALGVGLALALQPGAASAAINASVGAAGSAENAPSKEVLDNFLDLARNIFPSNLVSAAFRSYSTTYEE
 RNITGTRVKVPVQGEVEGMNIGLVVFAIVFGVALRKLGPGEGLLIRFFNSFNEATMVLVSWIMWYAPVG
 IMFLVAGKIVEMEDVGLLFARLKYILCCLLGHAIHGLLVLPLIYFLFTRKNPYRFLWGIIVTPLATAFGT
 SSSSATLPLMMKCVEENNGVAKHISRFLPIGATVNMDGAALFQCVAAVIAQLSQSLDFVKIITILVT
 ATASSVGAAGIPAGGVLTLAIIIEAVNLPVDHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRT
 SRSTEPELIQVKSELPLDPLPLPTEEGNPLLKHYRGPAGDATVASEKESVM

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_001145144
ORF Size:	939 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_001145144.1 , NP_001138616.1
RefSeq Size:	1737 bp
RefSeq ORF:	942 bp
Locus ID:	6510
UniProt ID:	Q15758
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	The SLC1A5 gene encodes a sodium-dependent neutral amino acid transporter that can act as a receptor for RD114/type D retrovirus (Larriba et al., 2001 [PubMed 11781704]).[supplied by OMIM, Jan 2011]