

Product datasheet for **RG234247**

SLC7A9 (NM_001243036) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC7A9
Synonyms:	BATI; CSNU3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG234247 representing NM_001243036
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGGATACTGGCCTGAGAAAGCGGAGAGAGGATGAGAAGTCGATCCAGAGCCAAGAGCCTAAGACCA
 CCAGTCTCCAAAAGGAGCTGGGCCTCATCAGTGGCATCTCCATCATCGTGGGACCATCATTGGCTCTGG
 GATCTTCGTTTCCCCAAGTCTGTGCTCAGCAACACGGAAGCTGTGGGGCCCTGCCTCATCATATGGGCG
 GCTTGGCGGGTCTCGCGACGCTGGGTGCCCTGTGCTTTGCGGAGCTTGGCACAATGATACCAAGTCAG
 GGGGAGAGTATCCCTACCTGATGGAGGCCACGGGCCATCCCCGCCTACCTCTTCTCTGGGCCAGCCT
 GATCGTCATTAAAGCCACGTCTTCGCCATCATCTGCCCTCAGCTTCTCCGAGTATGTGTGTGCGCCCTTC
 TATGTGGGTGCAAGCCTCCTCAAATCGTTGTGAAATGCCTGGCCGCCGCCCATCTTGTTTCATCTCGA
 CAGTGAACCTACTGAGCGTGGGCTGGGAAGCTACGTCCAGAATCTTACCAGCGGCCAAGCTGGTGAT
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 CATCGGGATCCCCCTGGTGACGGCTGTACATCTCATGAACGTGTCTACTTACCAGTATGACTGCC
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 CCAGCCCCGCCATCATCTTTATGGTATCATAGCAACGATTTATATCATCCCTGGTGACATAAACTCGT
 TAGTCAATTATTTAGCTTTGCCGATGGCTGTTTATGGCCTGACGATTCTAGGACTCATCGTGATGAG
 ATTTACAAGGAAAGAGCTGGAAGGCCTATCAAGGTGCCGTAGTCATTCCCGTCTTGATGACACTCATC
 TCTGTGTTTTTGGTCTGCTCCAATCATCAGCAAGCCACCTGGGAGTACCTCTACTGTGTGCTGTTTA
 TATTAAGCGGCCTTTATTTTACTTCTGTTTGTCCACTACAAGTTGGATGGGCTCAGAAAATCTCAA
 GCCGATTACCATGCACCTTCAGATGCTAATGGAAGTGGTCCACCGGAGGAAGACCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

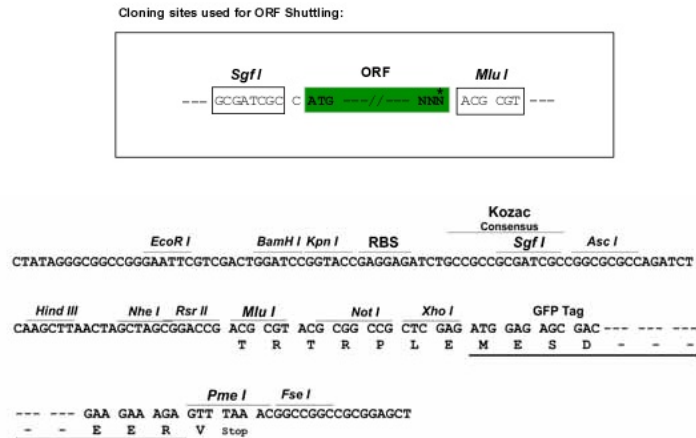
Protein Sequence: >RG234247 representing NM_001243036
 Red=Cloning site Green=Tags(s)

MGDTGLRKRREDEKSIQSQEPKTTSLQKELGLISGISIIVGTIIGSGIFVSPKSVLSNTEAVGPCLIIWA
 ACGVLATLALCFAELGTMITKSGGEYPYLMEAYGPIPAYLFSWASLIVIKPTSFAIICLSFSEYVCAFP
 YVGCKPPQIVVKLAAAAILFISTVNSLSVRLGSYVQNIPTAAKLIVAVIIISGLVLLAQGNTKNFDS
 FEGAQLSVGAISLAFYNGLWAYDGNQNLNYITEELRNPYRNLPLAIIIGIPLVTACYILMNVSYFTVMTA
 TELLQSQAVAVTFGDRVLPASWIVPLFVAFSTIGAANGTCFTAGRLIYVAGREGHMLKVLSYISVRRLT
 PAPIIFYGIIATIIYIIPGDINSLVNYFSFAAWLFYGLTILGLIVMRFRKELERPIKVPVIVPVLMTLI
 SVFLVLAPIISKPTWEYLYCVLFILSGLLFYFLFVHYKFGWAQKISKPIITMHLQMLMEVVPPEEDPE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001243036

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.

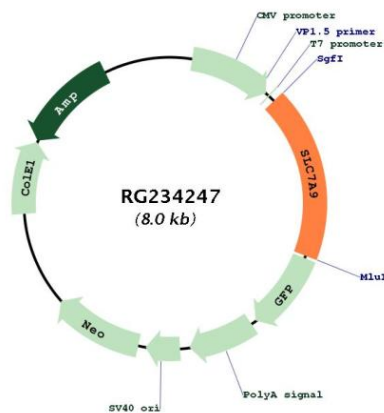
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001243036.2](#)

RefSeq Size:	1798 bp
RefSeq ORF:	1464 bp
Locus ID:	11136
UniProt ID:	P82251
Cytogenetics:	19q13.11
Protein Families:	Druggable Genome, Transmembrane

Gene Summary: This gene encodes a protein that belongs to a family of light subunits of amino acid transporters. This protein plays a role in the high-affinity and sodium-independent transport of cystine and neutral and dibasic amino acids, and appears to function in the reabsorption of cystine in the kidney tubule. Mutations in this gene cause non-type I cystinuria, a disease that leads to cystine stones in the urinary system due to impaired transport of cystine and dibasic amino acids. Alternate transcript variants, which encode the same protein, have been found for this gene. [provided by RefSeq, Jul 2011]

Product images:



Circular map for RG234247