

## Product datasheet for **RG222922**

### **SLC15A1 (NM\_005073) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLC15A1 (NM_005073) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC15A1
Synonyms:	HPECT1; HPEPT1; PEPT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG222922 representing NM\_005073  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGAATGTCCAAATCACACAGTTTCTTTGGTTATCCCCTGAGCATCTTCTTCATCGTGGTCAATGAGT  
TTTGCGAAAGATTTTCTACTATGGAATGCGAGCAATCCTGATTCTGTACTTCACAAATTCATCAGCTG  
GGATGATAACCTGTCCACCGCCATCTACCATACGTTTGTGGCTCTGTGCTACCTGACGCCAATTCTCGGA  
GCTCTTATCGCCGACTCGTGGCTGGGAAAGTTCAAGACCATTGTGTGCTCTCCATTGTCTACACAATTG  
GACAAGCAGTCACCTCAGTAAGCTCCATTAATGACCTCACAGACCACAACCATGATGGCACCCCCGACAG  
CCTTCTGTGCACGTGGTGTCTTGTATCGGCTGGCCCTGATAGCTCTCGGGACTGGAGGAATCAAA  
CCCTGTGTGTCTGCGTTTGGTGGAGATCAGTTTGAAGAGGGCCAGGAGAAACAAAGAAACAGATTTTTTT  
CCATCTTTTACTTGGCTATTAATGCTGGAAGTTTGTCTTCCACAATCATCACACCCATGCTCAGAGTTCA  
ACAATGTGGAATTCACAGTAAACAAGCTTGTACCCTGACCTTGGGGTTCTGCTGCTCTCATGGCT  
GTAGCCCTGATTGTGTTTGTCTTGGCAGTGGGATGTACAAGAAGTTCAAGCCACAGGGCAACATCATGG  
GTAAGTGGCCAAGTGCATCGGTTTTGCCATCAAAAATAGATTTAGGCATCGGAGTAAGGCATTTCCCAA  
GAGGGAGCACTGGCTGGACTGGGCTAAAGAGAAATACGATGAGCGGCTCATCTCCCAAATTAAGATGGTT  
ACGAGGGTGTATGTTCTGTATATCCACTCCCAATGTTCTGGGCCTTGTGACCAGCAGGGCTCCAGGT  
GGCACTGCAGGCAACAATATGTCCGGGAAAAATCGGAGCTCTTGAAATTCAGCCCGATCAGATGCAGAC  
CGTGAACGCCATCCTGATCGTGATCATGGTCCCGATCTTCGATGCTGTGCTGTACCCTCTCATTGCAAAA  
TGTGGCTTCAATTCACCTCCTTGAAGAAGATGGCAGTTGGCATGGTCTGGCCTCCATGGCCTTTGTGG  
TGGCTGCCATCGTGAGGTGAAATCGATAAACTCTTCCAGTCTTCCCAAAGGAAACGAAGTCCAAAT  
TAAAGTTTTGAATATAGGAAACAATACCATGAATATATCTCTTCTGGAGAGATGGTGACACTTGGCCCA  
ATGTCTCAACAAATGCATTTATGACTTTTGTATGTAACAACTGACAAGGATAAACATTTCTTCTCCTG  
GATCACCAGTCACTGCTGTAAGTACGACTTCAAGCAGGGCCAACGCCACACGCTTCTAGTGTGGGCCCC  
CAATCACTACCAGGTGGTAAAGGATGGTCTTAACCAGAAGCCAGAAAAAGGGGAAAATGGAATCAGATTT  
GTAATACTTTTAAACGAGCTCATCACCATCACAATGAGTGGGAAAGTTTATGCAAAATCAGCAGCTACA  
ATGCCAGCACATACCAGTTTTTCTTCTGGCATAAAAGGCTTCAACAATAAGCTCAACAGAGATTCGGCC  
ACAATGTCAACCTAATTTCAATACTTTCTACCTTGAATTTGGTAGTGCTTATACCTATATAGTCCAAAGG  
AAGAATGACAGCTGCCCTGAAGTGAAGGTGTTGAAGATATTTAGCCAACACAGTTAACATGGCTCTGC  
AAATCCCAGATATTTTCTCTACCTGTGGCGAAGTGGTCTTCTCTGTACGGGATTGGAATTCATA  
TTCTCAGGCTCCTTCAACATGAAGTCGGTGTTCAGGCAGGATGGCTGCTGACCGTGGCTGTTGGAAC  
ATCATTGTGCTCATCGTGGCAGGGGCGAGCCAGTTAGCAAAACAGTGGGCGGAGTACATTCTATTTGCCG  
CGTTGCTTCTGGTGTGTAATTTTGGCATCATGGCTCGGTTCTATACTTACATCAACCCAGCGGA  
GATCGAAGCTCAATTTGATGAGGATGAAAAGAAAAACAGACTGGAAAAGAGTAACCCATATTTTATGTCA  
GGGGCAATTCACAGAAACAGATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222922 representing NM\_005073  
 Red=Cloning site Green=Tags(s)

MGMSKSHSFFGYPLSIFFIVVNEFCERFSYYGMRAILILYFTNFISWDDNLSTAIYHTFVALCYLTPILG  
 ALIADSWLGKFKTIVLSIVYTIQAVTSVSSINDLTDHNDGTPDPLVHVVLISLIGLALIALGTGGIK  
 PCVSAFGGDQFEEGQEQQRNRFSSIFYLAINAGSLLSTIITPMLRVQCCGIHKSQACYPLAFGVPAAALMA  
 VALIVFVLGSGMYKKFKPQGNIMGKVAKICGFAIKNRFHRHSKAFPKREHLDWAKEYDERLISQIKMV  
 TRVMFLYIPLPMFWALFDQQGSRWTLQATTMSGKIGALEIQPDQMOTVNAILIVIMVPIFDAVLYPLIAK  
 CGFNFTSLKKMAVGMVLASMAFVVAIVQVEIDKTLPVFPKGNEVQIKVLNIGNNTMNISLPGEMVTLGP  
 MSQTNAFMTFDVNKLTRINISSPGSPVTAVTDDFKQGRHTLLVWAPNHYQVVKDGLNQKPEKGENGIRF  
 VNTFNELITITMSGKVYANISSYNASTYQFFPSGIKGFISSTEIPPQCQPNFNTFYLEFGSAYTYIVQR  
 KNDSCPEVKVFEDISANTVNMAIQIPQYFLLTCGEVVFVVTGLEFSYSQAPSNMKSVLQAGWLLTVAVGN  
 IIVLIVAGAGQFSKQWAEYILFAALLLVVCVIFAIMARFYTYINPAEIEAQFDEDEKKNRLEKSNPYFMS  
 GANSQKQM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

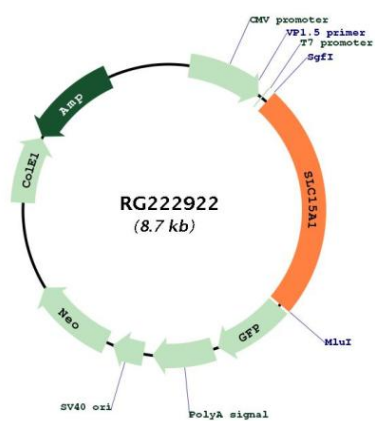


ACCN: NM\_005073

ORF Size: 2124 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005073.4</a>
<b>RefSeq Size:</b>	3105 bp
<b>RefSeq ORF:</b>	2127 bp
<b>Locus ID:</b>	6564
<b>UniProt ID:</b>	<a href="#">P46059</a>
<b>Cytogenetics:</b>	13q32.2-q32.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes an intestinal hydrogen peptide cotransporter that is a member of the solute carrier family 15. The encoded protein is localized to the brush border membrane of the intestinal epithelium and mediates the uptake of di- and tripeptides from the lumen into the enterocytes. This protein plays an important role in the uptake and digestion of dietary proteins. This protein also facilitates the absorption of numerous peptidomimetic drugs. [provided by RefSeq, Apr 2010]</p>

## Product images:



Circular map for RG222922