

Product datasheet for **SC303576**

SLC15A1 (NM_005073) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC15A1 (NM_005073) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC15A1
Synonyms:	HPECT1; HPEPT1; PEPT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_005073 edited
 GGCAGTCGCAGGAGCCCTGGGAGCCGCCCATGGGAATGTCAAATCACACAGTTTCTT
 TGGTTATCCCCTGAGCATCTTCTTCATCGTGGTCAATGAGTTTTGCGAAAAGATTTTCTTA
 CTATGGAATGCGAGCAATCTGATTCTGTACTTCAAAATTTTCATCAGCTGGGATGATAA
 CCTGTCCACCCGCATCTACCATACGTTTGTGGCTCTGTGCTACCTGACGCCAATTCTCGG
 AGCTCTTATCGCCGACTCGTGGCTGGGAAAGTTCAAGACCATTGTGTCGCTCTCCATTGT
 CTACACAATTGGACAAGCAGTCACCTCAGTAAGCTCCATTAATGACCTCACAGACCACAA
 CCATGATGGCACCCCGACAGCCTTCTGTGCAGTGGTGTCTTGTGATCGGCCTGGC
 CCTGATAGCTCTCGGACTGGAGGAATCAAACCTGTGTGCTGCGTTTTGGTGGAGATCA
 GTTTGAAGAGGGCCAGGAGAAACAAAGAAACAGATTTTTTTCATCTTTTACTTGGCTAT
 TAATGCTGGAAGTTTGGTTTCCACAATCATCACACCCATGCTCAGAGTTCAACAATGTGG
 AATTCACAGTAAACAAGTTGTTACCCACTGGCCTTTGGGGTTCCTGCTGCTCATGGC
 TGTAGCCCTGATTGTGTTGTCCTTGGCAGTGGGATGTACAAGAAGTTCAAGCCACAGGG
 CAACATCATGGGTAAGTGGCCAAGTGCATCGGTTTTGCCATCAAAAATAGATTTAGGCA
 TCGGAGTAAGGCATTTCCCAAGAGGGAGCACTGGCTGGACTGGGTAAAGAGAAAACGA
 TGAGCGGCTCATCTCCAAATTAAGATGGTTACGAGGGTGTGTTCTGTATATTTCACT
 CCCAATGTTCTGGGCCTGTTTGACCAGCAGGGCTCCAGGTGGACTGCAGGCAACAAC
 TATGTCCGGGAAAATCGGAGCTCTTGAATTCAGCCCGATCAGATGCAGACCGTGAACGC
 CATCTGATCGTATCATGGTCCCGATCTTCGATGCTGTGCTGTACCTCTCATTGCAAA
 ATGTGGCTTCAATTTACCTCCTGAAGAAGATGGCAGTTGGCATGGTCTGGCCTCCAT
 GGCCTTTGTGGTGGCTGCCATCGTGCAGGTGAAATCGATAAACTCTTCCAGTCTTCCC
 CAAAGGAAACGAAGTCCAAATTAAGTTTTGAATATAGGAAACAATACCATGAATATATC
 TCTTCTGGAGAGATGGTGACACTTGGCCCAATGTCTCAAAACAATGCATTTATGACTTT
 TGATGTAACAACAACTGACAAGGATAAACATTTCTCTCCTGGATACCAGTCACTGCCGT
 AACTGACGACTTCAAGCAGGGCCAACGCCACACGCTTCTAGTGTGGGCCCAATCACTA
 CCAGGTGGTAAAGGATGGTCTTAACCAGAAGCCAGAAAAAGGGGAAAATGGAATCAGATT
 TGTAATACTTTTAAACGAGCTCATCACCATCACAATGAGTGGGAAAGTTTATGCAAAAT
 CAGCAGCTACAATGCCAGCACATACCAGTTTTTCTTCTGGCATAAAAGGCTTCACAAT
 AAGCTCAACAGAGATCCGCCACAATGTCAACCTAATTTCAATACTTTCTACCTGAATT
 TGGTAGTCTTATACCTATATAGTCCAAAGGAAGAATGACAGCTGCCCTGAAGTGAAGGT
 GTTTGAAGATATTTAGCCAAACACAGTTAACATGGCTCTGCAAAATCCCGCAGATTTTCT
 TCTCACCTGTGGCGAAGTGGTCTTCTCTGTACGGGATTGGAATTTCTCATATTCTCAGGC
 TCCTTCCAACATGAAGTCGGTGGCTTCAAGCAGGATGGCTGCTGACCGTGGCTGTTGGCAA
 CATCATTGTGCTCATCGTGGCAGGGCCAGGCCAGTTCAGCAAACAGTGGGCCGAGTACAT
 TCTATTTGCCGCTTGTCTTGGTCTGTGTAATTTTTGCCATCATGGCTCGGTTCTA
 TACTTACATCAACCCAGCGGAGATCGAAGCTCAATTTGATGAGGATGAAAAGAAAAACAG
 ACTGAAAAGAGTAACCCATATTTTCATGTCAAGGGCCCAATTCACAGAAACAGATGTGAAG
 GTCAGGAGGCAAGTGGAGGATGGACTGGGCCCGCAGATGCCCTGACCTTGCCCCAGGT
 AGCAGGACACTCCATTGGATGGCCCTGATGAGGAAGACTTCAGAATTGGGAACATAACC
 ATGAATGCTATTTTCTTTTTCTTTTTCTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAG
 AGTTTTGCTCTTGTGTCCAGGCTGGAGTGAATGGCACGATCTCAGCTCACTGCAACCT
 CCGCTCCAGGTTCAAGTAATTTCTCTGCCTCAGCTCCCGAGTGGCTGGGATTAGCGG
 CATGCACCACCACGCCAGCTATTTTTGTATTTTTAGTAGAGATGGGGTTTACCATGTT
 RRCAGGATGGTCTCGATCTCTTGACCTGGTGTCTGCCACCTCGCCCTGCCAAAGTGC
 TGGGATTACAGGCTTGGACTACCGCGCCCGCCGTGAACGCTATTTTCTAAGCAGCCAGC
 AGTGAATCTAAAACCTCTGGAAGAAGTCTTCTGTTTGAAGGCTTATTTAAGCCACACGTA
 CACACACTGTCTTAGAGTACTGTGAGCCACCCACATTTGGTCATCTTCCCTATCACACA
 AATGATGTTATTTGGACTAGCTTAATTTTGAATGGTAACAAAGTTTCTATTCCATAC
 TGTTCAATTTCTAATACTTACAAAAACTATTCTAAAGGAGGCAGGAGCCAAGGCCAAAA
 GTGAACG

Restriction Sites:

Please inquire

ACCN:	NM_005073
Insert Size:	2900 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_005037.1.
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_005073.1</u> , <u>NP_005064.1</u>
RefSeq Size:	3105 bp
RefSeq ORF:	2127 bp
Locus ID:	6564
UniProt ID:	<u>P46059</u>
Cytogenetics:	13q32.2-q32.3
Protein Families:	Transmembrane
Gene Summary:	<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>