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Nucleotide

GenBank

Homo sapiens solute carrier family 15 member 1 (SLC15A1), mRNA

NCBI Reference Sequence: NM_005073.4

[FASTA](#) [Graphics](#)

Go to:

LOCUS	NM_005073	3124 bp	mRNA	linear	PRI 25-DEC-2022
DEFINITION	Homo sapiens solute carrier family 15 member 1 (SLC15A1), mRNA.				
ACCESSION	NM_005073				
VERSION	NM_005073.4				
KEYWORDS	RefSeq; MANE Select.				
SOURCE	Homo sapiens (human)				
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REFERENCE	1 (bases 1 to 3124)				
AUTHORS	Wu P and Guo Y.				
TITLE	Susceptibility Loci in SLC15A1, UGT1A3, and CWC27 Genes Associated with Bladder Cancer in the Northeast Chinese Population				
JOURNAL	Biomed Res Int 2022, 2988159 (2022)				
PUBMED	36124064				
REMARK	GeneRIF: Susceptibility Loci in SLC15A1, UGT1A3, and CWC27 Genes Associated with Bladder Cancer in the Northeast Chinese Population. Publication Status: Online-Only				
REFERENCE	2 (bases 1 to 3124)				
AUTHORS	Rafiq M, Ernst HA, Aduri NG, Prabhala BK, Tufail S, Rahman M, Bloch MB, Mirza N, Taylor NMI, Boesen T, Gajhede M and Mirza O.				
TITLE	Expression, purification and characterization of human proton-coupled oligopeptide transporter 1 hPEPT1				
JOURNAL	Protein Expr Purif 190, 105990 (2022)				
PUBMED	34637915				
REMARK	GeneRIF: Expression, purification and characterization of human proton-coupled oligopeptide transporter 1 hPEPT1.				
REFERENCE	3 (bases 1 to 3124)				
AUTHORS	Wang X, Chen Y, Wang Y, Wang B, Zhang J and Jian X.				
TITLE	Expression, Regulation, and Role of an Oligopeptide Transporter: PEPT1 in Tumors				
JOURNAL	Curr Med Chem 29 (9), 1596-1605 (2022)				
PUBMED	35546503				
REMARK	GeneRIF: Expression, Regulation, and Role of an Oligopeptide Transporter: PEPT1 in Tumors.				
REFERENCE	4 (bases 1 to 3124)				
AUTHORS	Schniers BK, Rajasekaran D, Korac K, Sniegowski T, Ganapathy V and Bhutia YD.				
TITLE	PEPT1 is essential for the growth of pancreatic cancer cells: a viable drug target				
JOURNAL	Biochem J 478 (20), 3757-3774 (2021)				
PUBMED	34569600				
REMARK	GeneRIF: PEPT1 is essential for the growth of pancreatic cancer cells: a viable drug target.				
REFERENCE	5 (bases 1 to 3124)				
AUTHORS	Wang Y, Wang J, Yang L, Qiu L, Hua Y, Wu S, Zeng S, Yu L and Zheng X.				
TITLE	Epigenetic regulation of intestinal peptide transporter PEPT1 as a potential strategy for colorectal cancer sensitization				
JOURNAL	Cell Death Dis 12 (6), 532 (2021)				
PUBMED	34031358				
REMARK	GeneRIF: Epigenetic regulation of intestinal peptide transporter PEPT1 as a potential strategy for colorectal cancer sensitization.				

Publication Status: Online-Only

REFERENCE 6 (bases 1 to 3124)
AUTHORS Saito H, Motohashi H, Mukai M and Inui K.
TITLE Cloning and characterization of a pH-sensing regulatory factor that modulates transport activity of the human H+/peptide cotransporter, PEPT1
JOURNAL Biochem Biophys Res Commun 237 (3), 577-582 (1997)
PUBMED [9299407](#)

REFERENCE 7 (bases 1 to 3124)
AUTHORS Adibi SA.
TITLE The oligopeptide transporter (Pept-1) in human intestine: biology and function
JOURNAL Gastroenterology 113 (1), 332-340 (1997)
PUBMED [9207295](#)
REMARK Review article

REFERENCE 8 (bases 1 to 3124)
AUTHORS Thamotharan M, Lombardo YB, Bawani SZ and Adibi SA.
TITLE An active mechanism for completion of the final stage of protein degradation in the liver, lysosomal transport of dipeptides
JOURNAL J Biol Chem 272 (18), 11786-11790 (1997)
PUBMED [9115234](#)

REFERENCE 9 (bases 1 to 3124)
AUTHORS Ganapathy ME, Brandsch M, Prasad PD, Ganapathy V and Leibach FH.
TITLE Differential recognition of beta -lactam antibiotics by intestinal and renal peptide transporters, PEPT 1 and PEPT 2
JOURNAL J Biol Chem 270 (43), 25672-25677 (1995)
PUBMED [7592745](#)

REFERENCE 10 (bases 1 to 3124)
AUTHORS Liang R, Fei YJ, Prasad PD, Ramamoorthy S, Han H, Yang-Feng TL, Hediger MA, Ganapathy V and Leibach FH.
TITLE Human intestinal H+/peptide cotransporter. Cloning, functional expression, and chromosomal localization
JOURNAL J Biol Chem 270 (12), 6456-6463 (1995)
PUBMED [7896779](#)

COMMENT REVIEWED [REFSEQ](#): This record has been curated by NCBI staff. The reference sequence was derived from [AL708816.1](#), [U13173.1](#), [CU445953.1](#), [BC096329.3](#) and [AW449979.1](#).
This sequence is a reference standard in the [RefSeqGene](#) project.

On Nov 23, 2018 this sequence version replaced [NM_005073.3](#).

Summary: 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].

Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Gene record to access additional publications.

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RNAseq introns :: mixed sample support SAMEA1965299, SAMEA1966682 [ECO:0006172]
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COMPLETENESS: full length.

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