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Product datasheet for RC229872L4V

Pepsinogen II (PGC) (NM_001166424) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Pepsinogen II (PGC) (NM_001166424) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Pepsinogen II
Synonyms:	PEPC; PGII
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001166424
ORF Size:	945 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC229872).`
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.
RefSeq:	NM_001166424.1, NP_001159896.1
RefSeq ORF:	948 bp
Locus ID:	5225
UniProt ID:	P20142
Cytogenetics:	6p21.1
Protein Families:	Protease, Secreted Protein
MW:	34.7 kDa

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Gene Summary: This gene encodes an aspartic proteinase that belongs to the peptidase family A1. The encoded protein is a digestive enzyme that is produced in the stomach and constitutes a major component of the gastric mucosa. This protein is also secreted into the serum. This protein is synthesized as an inactive zymogen that includes a highly basic prosegment. This enzyme is converted into its active mature form at low pH by sequential cleavage of the prosegment that is carried out by the enzyme itself. Polymorphisms in this gene are associated with susceptibility to gastric cancers. Serum levels of this enzyme are used as a biomarker for certain gastric diseases including Helicobacter pylori related gastritis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 1. [provided by RefSeq, Oct 2009]