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Product datasheet for RC208950L1V

CD13 (ANPEP) (NM_001150) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	CD13 (ANPEP) (NM_001150) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ANPEP
Synonyms:	APN; CD13; GP150; LAP1; P150; PEPN
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_001150
ORF Size:	2901 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208950).
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_001150.1, NP_001141.1
RefSeq Size:	3494 bp
RefSeq ORF:	2904 bp
Locus ID:	290
UniProt ID:	P15144
Cytogenetics:	15q26.1
Domains:	Peptidase_M1
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane

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Protein Pathways: Glutathione metabolism, Hematopoietic cell lineage, Metabolic pathways, Renin-angiotensin system

MW: 109.51 kDa

Gene Summary: Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. In the small intestine aminopeptidase N plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Its function in proximal tubular epithelial cells and other cell types is less clear. The large extracellular carboxyterminal domain contains a pentapeptide consensus sequence characteristic of members of the zinc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this class showed that CD13 and aminopeptidase N are identical. The latter enzyme was thought to be involved in the metabolism of regulatory peptides by diverse cell types, including small intestinal and renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CNS. This membrane-bound zinc metalloprotease is known to serve as a receptor for the HCoV-229E alphacoronavirus as well as other non-human coronaviruses. This gene has also been shown to promote angiogenesis, tumor growth, and metastasis and defects in this gene are associated with various types of leukemia and lymphoma. [provided by RefSeq, Apr 2020]