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Product datasheet for MR220510L4V

Pitrm1 (NM_145131) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Pitrm1 (NM_145131) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Pitrm1
Synonyms:	2310012C15Rik; AA410010; mKIAA1104; MP-1; MP1; Ntup1; PreP
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_145131
ORF Size:	3108 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR220510).`
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_145131.1, NP_660113.1
RefSeq Size:	3547 bp
RefSeq ORF:	3111 bp
Locus ID:	69617
UniProt ID:	Q8K411
Cytogenetics:	13 A1

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Gene Summary: Metalloendopeptidase of the mitochondrial matrix that functions in peptide cleavage and degradation rather than in protein processing. Has an ATP-independent activity. Specifically cleaves peptides in the range of 5 to 65 residues. Shows a preference for cleavage after small polar residues and before basic residues, but without any positional preference. Degrades the transit peptides of mitochondrial proteins after their cleavage. Also degrades other unstructured peptides. It is also able to degrade amyloid-beta protein 40, one of the peptides produced by APP processing, when it accumulates in mitochondrion. It is a highly efficient protease, at least toward amyloid-beta protein 40. Cleaves that peptide at a specific position and is probably not processive, releasing digested peptides intermediates that can be further cleaved subsequently.[UniProtKB/Swiss-Prot Function]