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Product datasheet for RC202872L4V

MMP9 (NM_004994) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MMP9 (NM_004994) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MMP9
Synonyms:	CLG4B; GELB; MANDP2; MMP-9
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_004994
ORF Size:	2121 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202872).
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_004994.2
RefSeq Size:	2387 bp
RefSeq ORF:	2124 bp
Locus ID:	4318
UniProt ID:	P14780
Cytogenetics:	20q13.12
Domains:	FN2, hemopexin, Peptidase_M10, ZnMc, PT
Protein Families:	Druggable Genome, Protease

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Protein Pathways: Bladder cancer, Leukocyte transendothelial migration, Pathways in cancer

MW: 78.3 kDa

Gene Summary: Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008]

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