

Product datasheet for RC208917L4

OriGene Technologies, Inc.

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MMP14 (NM_004995) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MMP14 (NM_004995) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: MMP14

Synonyms: MMP-14; MMP-X1; MT-MMP; MT-MMP 1; MT1-MMP; MT1MMP; MTMMP1; WNCHRS

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC208917).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_004995

ORF Size: 1746 bp



MMP14 (NM_004995) Human Tagged Lenti ORF Clone - RC208917L4

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.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 004995.2</u>

RefSeq Size:3558 bpRefSeq ORF:1749 bpLocus ID:4323

UniProt ID: P50281

Cytogenetics: 14q11.2

Domains: hemopexin, Peptidase M10, ZnMc

Protein Families: Druggable Genome, Protease, Transmembrane

Protein Pathways: GnRH signaling pathway

MW: 65.89 kDa

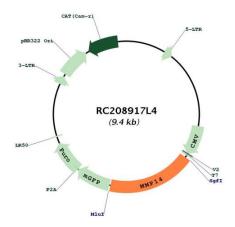
Gene Summary: Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of

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. However, the protein encoded by this gene is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. This protein activates MMP2 protein, and this activity may be

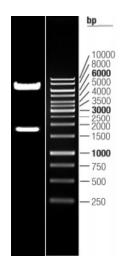
involved in tumor invasion. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC208917L4



Double digestion of RC208917L4 using Sgfl and Mlul