

Product datasheet for RC201225

MMP7 (NM_002423) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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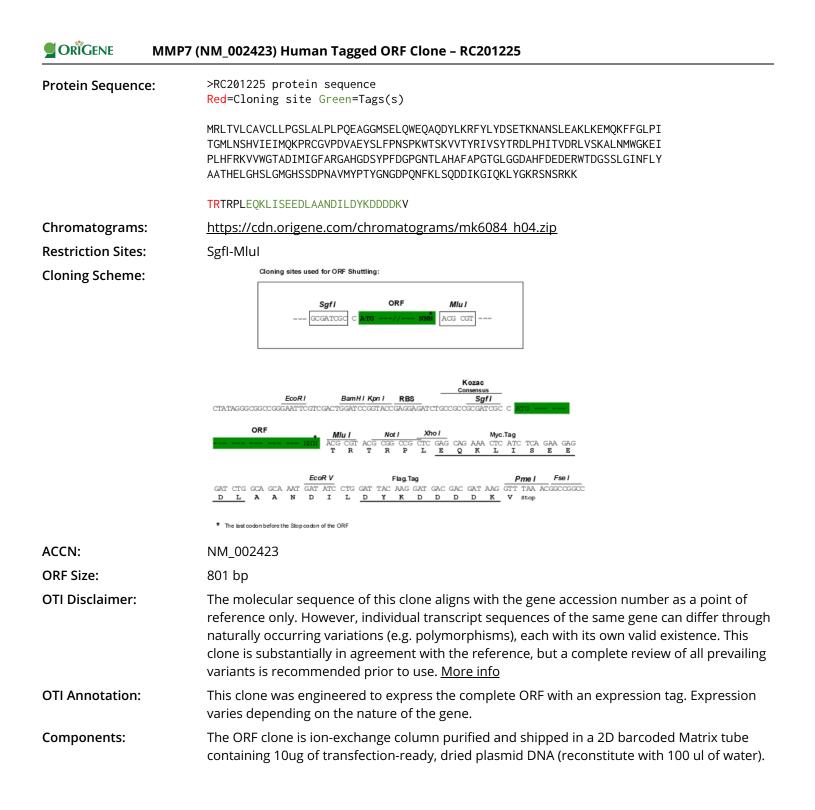
| Product Type: | Expression Plasmids |
|------------------------------|-------------------------------------------------------------------------------------------------------|
| Product Name: | MMP7 (NM_002423) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | MMP7 |
| Synonyms: | MMP-7; MPSL1; PUMP-1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | <pre>>RC201225 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre> |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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| Reconstitution Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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. |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM 002423.5</u> |
| RefSeq Size: | 1147 bp |
| RefSeq ORF: | 804 bp |
| Locus ID: | 4316 |
| UniProt ID: | <u>P09237</u> |
| Cytogenetics: | 11q22.2 |
| Protein Families: | Druggable Genome, Protease |
| Protein Pathways: | Wnt signaling pathway |
| MW: | 29.7 kDa |
| Gene Summary: | This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal hemopexin domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes on chromosome |

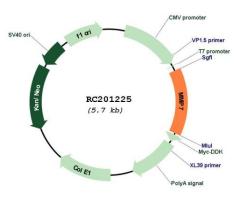
11. This gene exhibits elevated expression levels in multiple human cancers. [provided by

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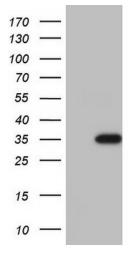
RefSeq, Jan 2016]



Product images:

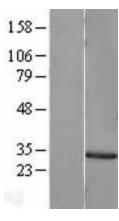


Circular map for RC201225



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MMP7 (Cat# RC201225, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MMP7(Cat# [TA804932]). Positive lysates [LY400865] (100ug) and [LC400865] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY400865]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201225 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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