

# Recombinant Full Length Human MMP10 Protein, GST-tagged

Cat. No. MMP10-6406HF Lot. No. (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Human MMP10 full-length ORF ( NP_002416.1, 1 a.a. - 476 a.a.) recombinant protein with GST-tag at N-terminal.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | In Vitro Cell Free System  |
| <b>ProteinLength</b>    | 476 amino acids  |
| <b>Description</b>      | 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 MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades proteoglycans and fibronectin. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq |
| <b>Molecular Mass</b>   | 80.6 kDa   |
| <b>AA Sequence</b>      | MMHLAFLVLLCLPVC SAYPLSGAAKEEDSNKDLAQQYLEKYNNLEKDVKQFRRKDS<br>NLIVKKIQGMQKFLGLEVTGKLDTDTEVMRKPRCGVPDVGHFSSFPGMKWRKTH<br>LTYRIVNYTPDLPRDAVDSAIEKALKVWEEVTPLTFSRLYEGEADIMISFAVKEHGDF<br>YSFDGPGHSLAHAYPPGPGLYGDIHFDDDEKWTEASGNTNLFVAAHELGHSLGLF<br>HSANTEALMYPLYNSFTELAQFRLSQDDVNGIQSLYGPPPASTEELVPTKSVPSGS<br>EMPAKCDPALSFDAISTLRGEYLFFKDRYFWRRRSHWNPEPEFHLISAFWPSLPSYLD   |

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AAYEVNSRDTVFIFKGNFWAIRGNEVQAGYPRGIHTLGFPTIRKIDAAVSDKEKKK  
 TYFFAADKYWRFDENSQSMEQGFPRLIADDFPGVEPKVDAVLQAFGFFYFFSGSSQ  
 FEFDPNARMVTHILKSNSWLHC

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|-----------------------|---|
| <b>Applications</b>   | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.  |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.  |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | MMP10 matrix metalloproteinase 10 (stromelysin 2) [ Homo sapiens ]   |
| <b>Official Symbol</b> | MMP10  |
| <b>Synonyms</b>        | MMP10; matrix metalloproteinase 10 (stromelysin 2); matrix metalloproteinase 10 (stromelysin 2) , STMY2; stromelysin-2; MMP-10; transin 2; transin-2; stromelysin 2; matrix metalloproteinase 10; matrix metalloproteinase-10; matrix metalloproteinase 10 (stromelysin 2); SL-2; STMY2; |
| <b>Gene ID</b>         | 4319   |
| <b>mRNA Refseq</b>     | NM_002425  |
| <b>Protein Refseq</b>  | NP_002416  |



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| <b>MIM</b> | 185260 |
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| <b>UniProt ID</b> | P09238 |
|-------------------|--------|

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