

## Product datasheet for MR228499

### Timp1 (NM\_001044384) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Timp1 (NM\_001044384) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Timp1  
**Synonyms:** Clgi; EPA; Timp; TIMP-1; TPA-S1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR228499 representing NM\_001044384  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGGCCCCCTTGCATCTCTGGCATCTGGCATCCTCTTGTTGCTATCACTGATAGCTTCCAGTAAGG  
 CCTGTAGCTGTGCCCCACCCACCCACAGACAGCCTTCTGCAACTCGGACCTGGTCATAAGGGCTAAATT  
 CATGGGTTCCCCAGAAATCAACGAGACCACCTTATACCAGCGTTATAAGATCAAGATGACTAAGATGCTA  
 AAAGGATCAAGGCTGTGGGAAATGCCGCAGATATCCGGTACGCCTACACCCAGTCATGGAAAGCCTCT  
 GTGGATATGCCACAAGTCCCAGAACCAGTGAAGAGTTTCTCATCACGGGCCGCTAAGGAACGGAAA  
 TTTGCACATCAGTGCCTGCAGCTTCTTGGTTCCCTGGCGTACTCTGAGCCCTGCTCAGCAAAGAGCTTTC  
 TCAAAGACCTATAGTGTGGCTGTGGGGTGTGCACAGTGTTCCTGTTTATCTATCCCTTGCAAACCTGG  
 AGAGTGACACTACTGTTTGTGGACGGATCAGGTCCTCGTGGGCTCTGAGGACTACCAGAGCCGTCACTT  
 TGCTTGCTGCCACGGAATCCAGGCTTGTGCACCTGGAGATCCCTTGGGGCCCGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228499 representing NM\_001044384  
 Red=Cloning site Green=Tags(s)

MMAPFASLASGILLLLSLIASSKACSCAPHPQTAF CNSDLVIRAKFMGSPEINETTL YQRYKIKMTKML  
 KGFKAVGNAADIRYAYTPVMESLCGYAHKSQNRSEFLITGRLRNGNLHISACSFVLPWRTLSPAQQRAF  
 SKTYSAGCGVCTVFPCL SIPCKLES DTHCLWTDQVLVGS EDYQSRHFACLPRNPGLCTWRS LGAR

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**



**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001044384

**ORF Size:** 615 bp

**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:** [NM\\_001044384.1](#), [NP\\_001037849.1](#)

**RefSeq Size:** 905 bp

**RefSeq ORF:** 618 bp

**Locus ID:** 21857

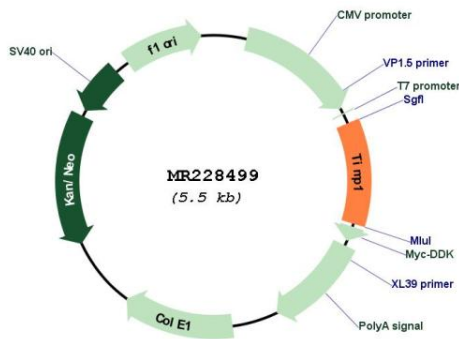
**UniProt ID:** [P12032](#)

**Cytogenetics:** X 16.38 cM

**MW:** 22.6 kDa

**Gene Summary:** Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates them by binding to their catalytic zinc cofactor. Acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP13 and MMP16. Does not act on MMP14 (By similarity). Also functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signaling cascades via CD63 and ITGB1. Plays a role in integrin signaling. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR228499