

Product datasheet for **MC225847**

Timp1 (NM_001294280) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Timp1 (NM_001294280) Mouse Untagged Clone
Tag: Tag Free
Symbol: Timp1
Synonyms: Clgi; EPA; Timp; TIMP-1; TPA-S1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225847 representing NM_001294280
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTAAAAGGATTCAAGGCTGTGGAAATGCCGCAGATATCCGGTACGCCTACACCCAGTCATGGAAA
GCCTCTGTGGATATGCCACAAGTCCCAGAACCGCAGTGAAGAGTTTCTCATCACGGGCCCTAAGGAA
CGGAAATTTGCACATCAGTGCCTGCAGCTTCTTGGTCCCTGGCGTACTCTGAGCCCTGCTCAGCAAAGA
GCTTTCTCAAAGACCTATAGTGCTGGCTGTGGGTGTGCACAGTGTTCCTGTTTATCTATCCCTTGCA
AACTGGAGAGTGACACTCACTGTTTGTGGACGGATCAGGTCTCGTGGGCTCTGAGGACTACCAGAGCCC
TCACTTTGCTTGCTGCCACGGAATCCAGGCTTGTGCACCTGGAGATCCCTTGGGGCCCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001294280

Insert Size: 414 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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:	<ol style="list-style-type: none">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_001294280.2, NP_001281209.1</u>
RefSeq Size:	825 bp
RefSeq ORF:	414 bp
Locus ID:	21857
Cytogenetics:	X 16.38 cM
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks an alternate exon resulting in the use of a downstream start codon compared to variant 1. The encoded isoform (b) has a shorter N-terminus compared to isoform a.</p>