

Product datasheet for **MR228058**

Timp1 (NM_001294280) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Timp1 (NM_001294280) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Timp1
Synonyms: Clgi; EPA; Timp; TIMP-1; TPA-S1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228058 representing NM_001294280
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTAAAAGGATTCAAGGCTGTGGAAATGCCGCAGATATCCGGTACGCCTACACCCAGTCATGGAAA
 GCCTCTGTGGATATGCCACAAGTCCCAGAACCAGTGAAGAGTTTCTCATCACGGCCGCTAAGGAA
 CGGAAATTTGCACATCAGTGCCTGCAGCTTCTTGGTTCCTGGCGTACTCTGAGCCCTGCTCAGCAAAGA
 GCTTTCTCAAAGACCTATAGTGTGGCTGTGGGTGTGCACAGTGTTCCTGTTTATCTATCCCTTGCA
 AACTGGAGAGTGACACTCACTGTTTGTGGACGGATCAGGTCTCGTGGGCTCTGAGGACTACCAGAGCCG
 TCACTTTGCTTGCTGCCACGGAATCCAGGCTTGTGCACCTGGAGATCCCTTGGGGCCCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228058 representing NM_001294280
 Red=Cloning site Green=Tags(s)

MLKGFKAVGNAADIRYAYTPVMESLCGYAHKSQNRSEEFLLITGRLRNGNLHISACSFLVPWRTLSPAQQR
 AFSKTYAGCGVCTVFPCLSIKLESPTHCLWTDQVLVGSSEYQSRHFACLPNPLCTWRSLGAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

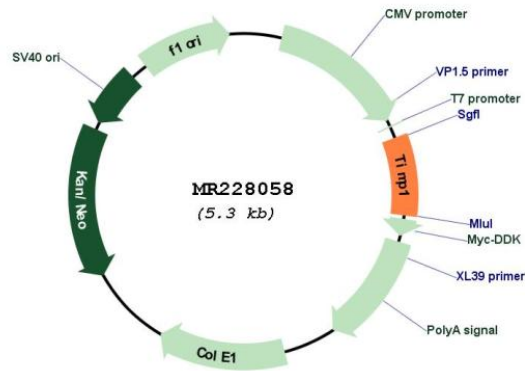


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001294280

ORF Size: 411 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:	<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</u> , <u>NP_001281209.1</u>
RefSeq Size:	825 bp
RefSeq ORF:	414 bp
Locus ID:	21857
Cytogenetics:	X 16.38 cM
MW:	15.7 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]