

Product datasheet for SC118082

TIMP1 (NM_003254) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIMP1 (NM_003254) Human Untagged Clone
Tag:	Tag Free
Symbol:	TIMP1
Synonyms:	CLGI; EPA; EPO; HCI; TIMP; TIMP-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118082 sequence for NM_003254 edited (data generated by NextGen Sequencing) ATGGCCCCCTTTGAGCCCCTGGCTTCTGGCATCCTGTTGTTGCTGGCTGATAGCCCC AGCAGGGCCTGCACCTGTGTCCCACCCACCCACAGACGGCCTTCTGCAATTCGACCTC GTCATCAGGGCCAAGTTCGTGGGACACCAGAAGTCAACCAGACCACCTTATACCAGCGT TATGAGATCAAGATGACCAAGATGTATAAAGGGTTCCAAGCCTTAGGGGATGCCGCTGAC ATCCGGTTCGTCTACACCCCGCCATGGAGAGTGTCTGCGGATACTTCCACAGGTCCCAC AACCGCAGCGAGGAGTTTCTCATTGCTGGAAAAGTGCAGGATGGACTCTTGACATCACT ACCTGCAGTTTCGTGGCTCCCTGGAACAGCCTGAGCTTAGCTCAGCGCCGGGGCTTCACC AAGACCTACACTGTTGGCTGTGAGGAATGCACAGTGTTCCTGTTTATCCATCCCCTGC AAACTGCAGAGTGGCACTCATTGCTTGTGGACGGACCAGCTCCTCAAGGCTCTGAAAAG GGCTTCCAGTCCCGTCACCTTGCCTGCCTCGCTCGGGAGCCAGGGCTGTGCACCTGGCAG TCCTGCGGTCCCAGATAGCCTGA
	Clone variation with respect to NM_003254.2 372 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003254 unedited
 GGTAAACATCTTGGATTTTGTAAATCACGACTTACTATNAGGGCGGCACGCGCAATTCGGCA
 CGAGGCCAGCGCCAGANAACACCAGANAACCCACCATGGCCCCCTTTGAGCCCCT
 GGCTTCTGGCATCCTGTTGTTGCTGTGGCTGATAGCCCCAGCAGGGCCTGCACCTGTGT
 CCCACCCACCCACAGACGGCCTTCTGCAATTCGACCTCGTCATCAGGGCCAAGTTCGT
 GGGGACACCAGAAGTCAACCAGACCACCTTATACCAGCGTTATGAGATCAAGATGACCAA
 GATGTATAAAGGGTTCCAAGCCTTAGGGGATGCCGCTGACATCCGGTTCGTCTACACCCC
 CGCCATGGAGAGTGTCTCGGATACTTCCACAGTCCCACAACCCGAGCGAGGAGTTTCT
 CATTGCTGGAAAAGTGCAGGATGGACTCTTGCACATCACTACCTGCAGTTTCGTGGCTCC
 CTGGAACAGCCTGAGCTTAGCTCAGCGCCGGGCTTACCAAGACCTACACTGTTGGCTG
 TGAGGAATGCACAGTGTTCCTGTTTATCCATCCCCTGCAAACTGCAGAGTGGCACTCA
 TTGCTTGTGGACGGACCAGCTCCTCCAAGGCTCTGAAAAGGGCTTCCAGTCCCCTCACCT
 TGCTGCCTGCCTCGGGAGCCAGGGCTGTGCACCTGGCAGTCCCTGCGGTCCCAGATAGC
 CTGAATCTGCCCGGAGTGAAGCTGAAGCCTGCACAGTGTCCACCTGTTCCCCTCCC
 ATCTTTCTTCCCGGACAATGAATANAGAGTTACCACCCAGCAAAAAAAAAAAAAAAAAA
 CTCGACTCTAGATTGCGGCCCGCTCATAGCTGTTTCTGAACAGACCCNGGNTGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003254 unedited
 CCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTGGTGGGTGGTAACTCTTTATTTT
 ATTGTCCGGAAGAAAGAGGGAGTGGGAACAGGGTGGCACTGTGCAGGCTTCCAGTTCCA
 CTCCGGGAGGATTCAGGCTATCTGGGACCGCAGGGACTGCCAGGTGCACAGCCCTGGCT
 CCCGAGGCAGGCAGGCAAGGTGACGGGACTGGAAGCCCTTTTCCAGAGCCTTGAGGAGCT
 GGTCCGTCACAAGCAATGAGTGCCACTCTGCAGTTTGCAGGGGATGGATAAACAGGGAA
 AACTGTGCATTCTCACAGCAACAGTGTAGGTCTTGGTGAAGCCCGCGCTGAGCTA
 AGCTCAGGCTGTTCCAGGAGCCACGAACTGCAGGTAGTGTGCAAGAGTCCATCCT
 GCAGTTTTCCAGCAATGAGAACTCCTCGCTGCGGTTGTGGGACCTGTGGAAGTATCCGC
 AGACACTCTCCATGGCGGGGTGTAGACCAACCGGATGTCANCGGCATCCCCTAAGGCTT
 GGAACCCCTTATACATCTTGCCATCTTGATCTCATAACGCTGGTATAAGGTGGTCTGGT
 TGACTTCTGGTGTCCCCACAACCTTGGCCCTGATGACCAGGTCGAACTGCCACAACGCC
 GCCTGTGGGTGGCGGGACACAGGTGCAAGCCCTGCTGGGGGCTATCAACCCCGCAAC
 CCAAGATGCCAAACCCAGGGGCTCAAAGGGGCTCTGGGGGTTCCCTGTGCTTTCTTGG
 ACGCTGGCTCCGCAACCCCGGCCCGCCACANCCAGCCGATTCAAAATCCCGACGGTT
 TCTAAACAAGTTCGTTTATATAACTTCCAGTACCCCCCCCCCATCGCCCCACGGGC
 GCGGTCTTCAATTCCGACAACACTGTTCCCTTGCCCCACAACCCCTGGTCTTCAGG
 GTCGCCCTCTCAT

Restriction Sites:

NotI-NotI

ACCN:

NM_003254

Insert Size:

624 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).

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_003254.2](#), [NP_003245.1](#)

RefSeq Size: 931 bp

RefSeq ORF: 624 bp

Locus ID: 7076

UniProt ID: [P01033](#)

Cytogenetics: Xp11.3

Domains: NTR

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. [provided by RefSeq, Jul 2008]