

Product datasheet for **RC203772**

TIMP4 (NM_003256) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TIMP4 (NM_003256) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TIMP4
Synonyms: TIMP-4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203772 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGGGAGCCCTCGGCCCGCCCAAGCTGGGTGCTGTTGCTGCGGCTGCTGGCGTTGCTGCGGCCCC
CGGGGCTGGTGAGGCATGCAGCTGCGCCCCGGCGCACCTCAGCAGCACATCTGCCACTCGGCACCTTGT
GATTCGGGCCAAAATCTCCAGTGAGAAGGTAGTCCGGCCAGTGCAGACCCTGCTGACACTGAAAAATG
CTCCGGTATGAAATCAAACAGATAAAGATGTTCAAAGGGTTTGAGAAAGTCAAGGATGTTCAGTATATCT
ATACGCCTTTTGACTCTCCCTCTGTGGTGTGAACTAGAAGCCAACAGCCAGAAGCAGTATCTCTTGAC
TGGTCAGGTCCTCAGTGATGAAAAGTCTTCATCCATCTGTGCAACTACATCGAGCCCTGGGAGGACCTG
TCCTTGGTGCAGAGGAAAGTCTGAATCATCACTACCATCTGAACTGTGGCTGCCAAATCACCACCTGCT
ACACAGTACCCTGTACCATCTCGGCCCTAACGAGTGCCTCTGGACAGACTGGCTGTTGGAACGAAAAGCT
CTATGGTTACCAGGCTCAGCATTATGTCTGTATGAAGCATGTTGACGGCACCTGCAGCTGGTACCGGGGC
CACCTGCCTCTCAGGAAGGAGTTTGTGACATCGTTCAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203772 protein sequence
Red=Cloning site Green=Tags(s)

MPGSPRPAPSWLLLLRLLALLRPPGLGEACSCAPAHPPQQHICHLSALVIRAKISSEKVVVPASADPADTEKM
 LRYEIKQIKMFKGFVKVDVQYIYTPFDSSLCGVKLEANSQKQYLLTGQVLSDGKVFHLCNYIEPWEDL
 SLVQRESLNHHYHLNCGCQITTCYVPTISAPNECLWTDWLLERKLYGYQAQHYVCMKHVDGTCWSYRG
 HLPLRKEFVDIVQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6010_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003256

ORF Size: 672 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_003256.4](#)

RefSeq Size: 1667 bp

RefSeq ORF: 675 bp

Locus ID: 7079

UniProt ID: [Q99727](#)

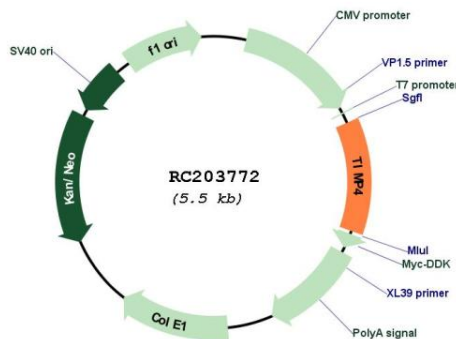
Cytogenetics: 3p25.2

Protein Families: Druggable Genome, Secreted Protein

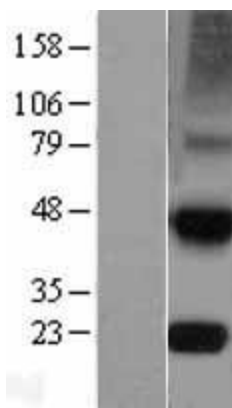
MW: 25.5 kDa

Gene Summary: This gene belongs to the TIMP gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. The secreted, netrin domain-containing protein encoded by this gene is involved in regulation of platelet aggregation and recruitment and may play role in hormonal regulation and endometrial tissue remodeling. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC203772



Western blot validation of overexpression lysate (Cat# [LY401122]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203772 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).