

## Product datasheet for **RG209796**

### TIMP2 (NM\_003255) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TIMP2 (NM_003255) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TIMP2
Synonyms:	CSC-21K; DDC8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209796 representing NM_003255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGCCGGCCCGCACCCCTGCGGCTGGCGCTCGGCCTCCTGCTGCTGGCGACGCTGCTTCGCCCGG  
CCGACGCCTGCAGCTGCTCCCCGGTGCACCCGCAACAGGCGTTTTGCAATGCAGATGTAGTGATCAGGGC  
CAAAGCGGTCAGTGAGAAGGAAGTGGACTCTGGAAACGACATTTATGGCAACCCTATCAAGAGGATCCAG  
TATGAGATCAAGCAGATAAAGATGTTCAAAGGGCCTGAGAAGGATATAGAGTTTATCTACACGGCCCCCT  
CCTCGGCAGTGTGTGGGGTCTCGCTGGACGTTGGAGGAAAGAAGGAATATCTCATTGCAGGAAAGCCGA  
GGGGGACGGCAAGATGCACATCACCCCTCTGTGACTTCATCGTGCCTGGGACACCCTGAGCACCACCCAG  
AAGAAGAGCCTGAACCACAGGTACCAGATGGGCTGCGAGTGCAAGATCACGCGCTGCCCATGATCCCGT  
GCTACATCTCCTCCCGGACGAGTGCCTCTGGATGGACTGGGTCACAGAGAAGAACATCAACGGGACCA  
GGCCAAGTTCTTCGCTGCATCAAGAGAAGTGACGGCTCCTGTGCGTGGTACCGCGGCGCGGCCCCCC  
AAGCAGGAGTTTCTCGACATCGAGGACCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209796 representing NM\_003255  
 Red=Cloning site Green=Tags(s)

MGAAARTLRLALGLLLLATLLRPADACSCSPVHPQQAFNCADVVIRAKAVSEKEVDSGNDIYGNPIKRIQ  
 YEIKQIKMFKGPEKDIEFIYTAPSSAVCGVSLDVGGKKEYLIAGKAEGDGKMHITLCDFI V P W D T L S T T Q  
 KKSLNHR Y Q M G C E C K I T R C P M I P C Y I S S P D E C L W M D W V T E K N I N G H Q A K F F A C I K R S D G S C A W Y R G A A P P  
 K Q E F L D I E D P

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003255

**ORF Size:** 660 bp

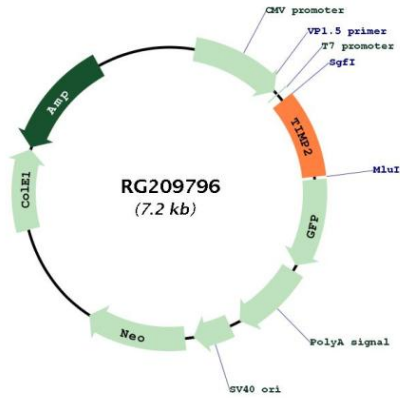
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_003255.5</a>
<b>RefSeq Size:</b>	3670 bp
<b>RefSeq ORF:</b>	663 bp
<b>Locus ID:</b>	7077
<b>UniProt ID:</b>	<a href="#">P16035</a>
<b>Cytogenetics:</b>	17q25.3
<b>Domains:</b>	NTR
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Gene Summary:</b>	<p>This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG209796