

Product datasheet for **RR207310**

Timp2 (NM_021989) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Timp2 (NM_021989) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Timp2
Synonyms: MGC105282
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR207310 representing NM_021989
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGCCGGCCCGCAGCCTCCGGCTGGCGCTCGGCCTCCTGCTGCTGGCCACGCTGCTGCGCCCGG
CCGACGCCTGCAGCTGCTCCCCGGTGCACCCGCAACAGGCGTTTTGCAATGCAGACGTAGTGATCAGGGC
CAAAGCAGTGAGCGAGAAGGAGGTGGATTCCGGGAATGACATCTATGGCAACCCCATCAAGAGGATTCAA
TATGAGATCAAGCAGATAAAGATGTTCAAAGGACCTGACAAGGACATCGAATTTATCTACACGGCCCCCT
CCTCAGCAGTGTGCGGGTCTCGCTGGACGTTGGAGGAAAGAAGGAATATCTAATTGCAGGAAGGCGGA
AGGAGATGGCAAGATGCACATTACCCTCTGTGACTTTATTGTGCCCTGGGACACGCTTAGCATCACCCAG
AAGAAGAGCCTAAACCACAGGTACCAGATGGGCTGCGAGTGCAAGATCACACGCTGCCCTATGATCCCAT
GCTACATCTCCTCCCGGATGAGTGCCTCTGGATGGACTGGGTCACAGAGAAGAGCATCAATGGGCACCA
GGCCAAGTTCTTTGCCTGCATCAAGAGAAGTGATGGTTCTTGCGCGTGGTACCGCGGGCGGCACCCCGG
AAGCAGGAGTTTCTTGACATCGAGGACCCG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207310 representing NM_021989
Red=Cloning site Green=Tags(s)

MGAAARSLRLALGLLLLATLLRPADACSCSPVHPQAFNADVVIRAKAVSEKEVDSGNDIYGNPIKRIQ
 YEIKQIKMFKGPKDIEFIYTAPSSAVCGVSLDVGGKKEYLIAGKAEGDKMHITLCDFI VPWDTL SITQ
 KKSLNHRVYQMGCECKITRCMPICYI SSPDECLWMDWVTEKSINGHQAKFFACIKRSDGSCAWYRGAAPP
 KQEFLDIEDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_021989

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).

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_021989.2](#), [NP_068824.1](#)

RefSeq Size: 1656 bp

RefSeq ORF: 663 bp

Locus ID: 29543

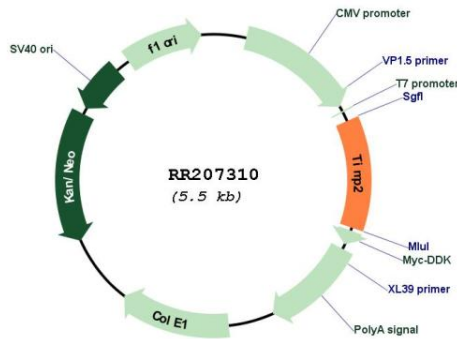
UniProt ID: [P30121](#)

Cytogenetics: 10q32.3

MW: 24.4 kDa

Gene Summary: acts as an inhibitor of metallopeptidase activity; may play a role in tissue remodeling during spermatogenesis [RGD, Feb 2006]

Product images:



Circular map for RR207310