

Product datasheet for **RC206289**

Transition Protein 1 (TNP1) (NM_003284) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transition Protein 1 (TNP1) (NM_003284) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Transition Protein 1
Synonyms:	TP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206289 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC CGATCGCC ATGTGCACCAGCCGAAATTAAGAGTCATGGCATGAGGAGGAGCAAGAGCCGATCTCCTACAAGGGAG TCAAGAGAGGTGGCAGCAAAGAAAATACCGTAAGGGCAACCTGAAAAGTAGGAAACGGGGCGATGACGC CAATCGCAATTACCGCTCCCACTG ACGCGT ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC206289 protein sequence Red=Cloning site Green=Tags(s) MSTSRKLSHGMRRSKSRSPHKGVKRGGSKRKYRKGNLKSRKRGDDANRNYRSHL TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6785_a03.zip
Restriction Sites:	Sgfl-MluI



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Cloning Scheme:


ACCN: NM_003284

ORF Size: 165 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_003284.4](#)

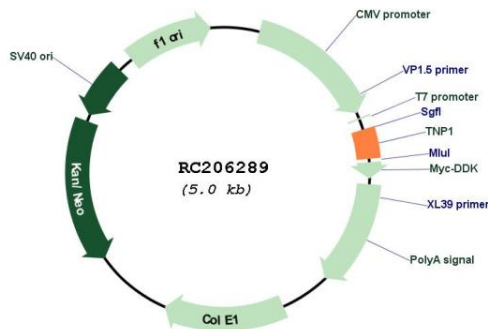
RefSeq Size: 415 bp

RefSeq ORF: 168 bp

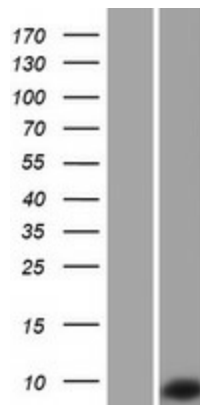
Locus ID: 7141
UniProt ID: [P09430](#)
Cytogenetics: 2q35
MW: 6.4 kDa

Gene Summary: Transition protein-1 is a spermatid-specific product of the haploid genome which replaces histone and is itself replaced in the mature sperm by the protamines (see PRM1, MIM 182880; PRM2, MIM 182890) (Luerssen et al., 1990 [PubMed 2249851]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC206289



Western blot validation of overexpression lysate (Cat# [LY418791]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206289 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).