

Product datasheet for MC204986

Tnp1 (NM_009407) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnp1 (NM_009407) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tnp1
Synonyms:	Stp-1; Tp-1; TP1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC061170 CAAAGCCCCTCATTTTCGGCAGAAAGTACCATGTCGACCAGCCGAAGCTAAAGACTCATGGCATGAGGAG AGGCAAGAACCGAGCTCCTCACAAGGGCGTCAAGAGAGGTGGAAGCAAGAGAAAAATACCGGAAGAGCGTC CTGAAAAGTAGGAAACGGGGCGATGATGCAAGTCGCAATTACCGATCCCCTTGTGATGCGGCAATGAGC TCTGCCCTGGTGGTCTTCAAACAACACGGGGCAGGAGCATGAGGACATCAGAGGGGGACTGCCAAAGAGA TCTGAAGTTAGACCAAAAGCCAAAGATCCTATCAGAGTGGGTAATGCCAGTCGTGACGAAATTCGGAAT GTATATGTTGGCTGTTTCTCCCAACATCTCAATAACATTTTGAAAACAAATAAAATTGTGAAAAACAAA AAAAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	Sfil-Sfil
ACCN:	NM_009407
Insert Size:	168 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).


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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC061170](#), [AAH61170](#)

RefSeq Size: 447 bp

RefSeq ORF: 168 bp

Locus ID: 21958

UniProt ID: [P10856](#)

Cytogenetics: 1 36.94 cM

Gene Summary: Plays a key role in the replacement of histones to protamine in the elongating spermatids of mammals (PubMed:10781074, PubMed:15163613, PubMed:15189834, PubMed:15083521, PubMed:28366643). In condensing spermatids, loaded onto the nucleosomes, where it promotes the recruitment and processing of protamines, which are responsible for histone eviction (PubMed:28366643). The histone H2AFB1-HIST1H2BA/TH2B dimer is required for loading of TNP1 onto chromatin (PubMed:28366643).[UniProtKB/Swiss-Prot Function]