

Product datasheet for **RN207146**

Tsen2 (NM_001014057) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tsen2 (NM_001014057) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tsen2
Synonyms:	RGD1309946
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN207146 representing NM_001014057
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGCAGAGGCAGTCTTCCGTGCTCCAAGAGGAAAAGGAGAGTGTACGAGAGTTACGAGTCACCGCTGC
 CCATCCCCTTTAGTCAGGACCAAAGTCCCAGGAAGGAATTCGAATATTCCAGGCTGAAATGATTAGCAA
 CAATGTGGTGGTGAAGGACACAGAGGACATGGAGCAGCTGTATGGGAAGGGTTACTTTGAAAGGGGATC
 CTTTCAAGAAAGTCGTCGAACTTCAACAATCTCCAATCCCAAGCTGGCTGCCAGATGGAAAGGTGTGCAGA
 CAGACATGCCTATAATCACCTCAGAGAAGTATCAGCACCGAGTGAATGGGCCAGGGATTTCATGCGGAG
 GCAGGGCCATGATGAGAGCACTGTGCAGAAGATCCTTACGGACTACACAGAACCATTGGAGCCTCCTTAC
 AGGGAGAGGAAAGGAGAGAGCCACAGCATGAACCCCTGAGCTCCAAGGCCGACTCCTCCTGGAAGGCA
 GAGAGGGAAGGATGAACCTTTGTGTGACCACCGAGGTGCTGGACAATCAGATGACCTGCAGGGCCTCAA
 CACACACTCAGACTGCCGCGAGGAGGGCCTGGCCATGCCACACTCACTGTGGCTAGTCCTTCTAGCCTT
 AATGGGCATGCGATAGAGGACCCCGAGGCTCTGTCCAGATCCCCTGCTGTAGCCAGGAAGCCCTCGGTC
 AGCAGGATGACCTTTGGCTGAAGCCAGCAGCCAGATAGCAGGAGAGAGTAGGGCTGCTCACGAGTATGT
 GCTCATAGAGGAAGAGCTGTGTGATGTCCAGGAGGGGGCAGCACCATGACGAGTTGCTGAAAAGAAAG
 AGACTTGTGTGCAGAAGGAACCCATACAGGATCTTTGAGTATCTACAGCTCAGCCTAGAAGAGGCTTTCT
 TCCTGGCATACGCCCTGGGATGTTTAAGTATCTACTATGAGAAGGAGCCTTTGACCATAGTGAAGCTCTG
 GCAAGCCTTCACTGCAGTCCAGCCACCTTCAGGACTACCTACATGGCCTACCACTACTTCCGAAGCAAA
 GGCTGGGTGCCAAAGTGGGGCTCAAGTACGGAACAGATCTGTTGCTGTATCGAAAGGCCCTCCATTTT
 ACCATGCAAGCTACTCTGTCATCATTGAGCTCGTGGATGACAACCTTTGAAGGGTCCCTCCGAAGGCCTTT
 CAGCTGGAAGTCACTGGCCGCCTTGAGCAGAGTCTCAGGGAACGTCTCAAGGAGCTGATGCTGTGTAC
 TTGATTAAGCCCTCTACCATGACTAACGAAGACATGGAGACCCAGAATGCATGAGGAGGATTCAAGTTC
 AGGAGGTGATTCTCAGCCGATGGGTGTCTTCCCGAGAGAGAAGTGACCAAGATGAGCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001014057
- Insert Size:** 1392 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).
- 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_001014057.1, NP_001014079.1

RefSeq Size: 1796 bp

RefSeq ORF: 1392 bp

Locus ID: 312649

UniProt ID: Q5M954

Cytogenetics: 4q42

Gene Summary: Constitutes one of the two catalytic subunit of the tRNA-splicing endonuclease complex, a complex responsible for identification and cleavage of the splice sites in pre-tRNA. It cleaves pre-tRNA at the 5'- and 3'-splice sites to release the intron. The products are an intron and two tRNA half-molecules bearing 2',3'-cyclic phosphate and 5'-OH termini. There are no conserved sequences at the splice sites, but the intron is invariably located at the same site in the gene, placing the splice sites an invariant distance from the constant structural features of the tRNA body. Probably carries the active site for 5'-splice site cleavage. The tRNA splicing endonuclease is also involved in mRNA processing via its association with pre-mRNA 3'-end processing factors, establishing a link between pre-tRNA splicing and pre-mRNA 3'-end formation, suggesting that the endonuclease subunits function in multiple RNA-processing events (By similarity).[UniProtKB/Swiss-Prot Function]