

## Product datasheet for MR204524

### Tsen34 (BC091756) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tsen34 (BC091756) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tsen34
Synonyms:	0610027F08Rik; Leng5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204524 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGTGGTGGAGGTCGCAATGGCCGCTCGCTGGTGTGGGAGCCGAGGCCGTGCAGGCGCTGCGGG  
AGCGTCTGGGAGTCGGGGACGCACGGTGGCGCCCTGCCCGCGGGCCCGCCAGAAGCTCGCGCCTGGG  
CCTTCCACTTCTGCTGCTGCCTGAAGAAGCCCGGCTCCTGGCCGAGATAGGCGCGGTGACCTAGTCAGC  
GCCCGCGCCCGACCCCGCAACCATGGCTTGGCCCTAGCATCGTTCAAACGCCAGCAAGAGCAGAGTT  
TCCAGGATCAGAACACTTTGGCAGCCGAGGCCCGGAGACCCGGCGTCAGGAGCTTCTAGAGAAGATCGT  
AGAGGGCCAGGCTGCCAAGAAGCAGAAGCTGGAACAGGATTCAGGGGCAGATGAAGGAGGCCAAGAAGCC  
GGTGAAGTGAGGCTACCAAGGGAGTGAGACCAGTGATGATGGCCAGCCTTCTGCGGAGCAGGAGGGAG  
CAGCCCCATCCCTAGATTCTTCACTCTCCCAACCAGGACCTTCAAATGGGGTGACTCCCTTGCCAGATC  
AGCCCTGCTTATCCAGCTGGCCACTGCCAGGCCTCGGCCGTGAAAAGCTAAGCCTCTGGACTGGCGTGTG  
CAGTCAAAGACTGGCCCATGCTGGCCGCTCCTGCCACGAGCTGCGCTACAGCATCTACCGAGACCTGT  
GGGAGAGAGGTTTCTTCTCAGCGCAGCAGGGAAGTTGGTGGTACTTCTTGGTCTATCCTGGTGATCC  
ACTGCGTTTCCATGCTCACTACATTGCTCAGTGTGGTCTGCTGAGGACCCATCCCACTCAGGACCTG  
GTCTCTGCAGGCCGCTGGGAACAGTGTGAGGAAGACCCTGCTGCTCTGCTCCCTCAGCCTGATGGGA  
AGGTGGTCTACACATCCCTGCAGTGGCCAGCCTGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204524 protein sequence  
 Red=Cloning site Green=Tags(s)

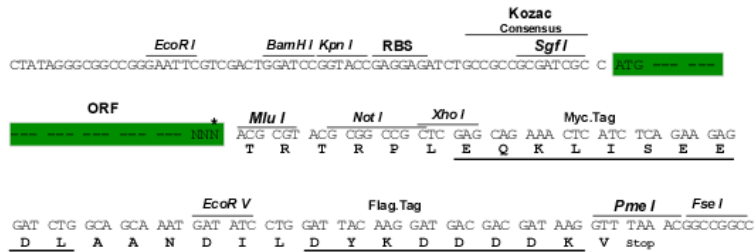
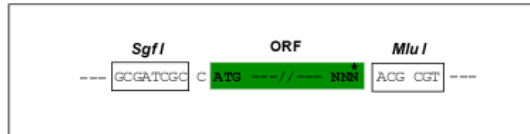
MLVVEVANGRSLVWGAEAVQALRERLGVGGRTVGALPRGPRQNSRLGLPLLLPEEARLLAEIGAVTLVS  
 APRPDPRNHGLALASFKRQQEQSFQDQNTLAAEARETRRQELLEKIVEGQAACKQKLEQDSGADEGGQEA  
 GGSEATQGSETSDDGQPSAEQEGAAPSLDSSSPQPGPSNGVTPLPRSALLIQLATARPRPVKAKPLDWRV  
 QSKDWP HAGRPAHEL RYSIYRDLW ERGFFLSAAGKFGGDFLVYPGDPLRFHAHYIAQCWSAEDPIPLQDL  
 VSAGRLGTSVRKTL LLLCSPQPDGKVVYVYTSLQWASLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC091756

**ORF Size:** 948 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:** [BC091756](#), [AAH91756](#)

**RefSeq Size:** 1330 bp

**RefSeq ORF:** 950 bp

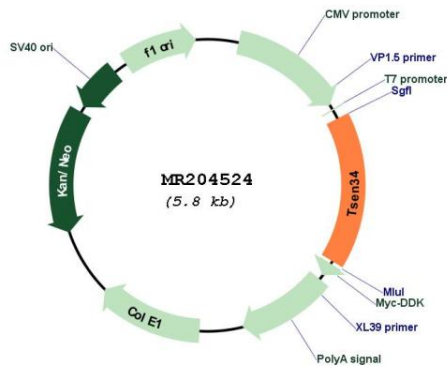
**Locus ID:** 66078

**Cytogenetics:** 7 A1

**MW:** 34.2 kDa

**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. 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]

**Product images:**



Circular map for MR204524