

Product datasheet for **MG204523**

Tsen34 (BC002205) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tsen34 (BC002205) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tsen34
Synonyms:	0610027F08Rik; Leng5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204523 representing BC002205 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGGTGGTGGAGGTCGAAATGGCCGCTCGCTGGTGTGGGAGCCGAGGCCGTGCAGGCGCTGCGGG
 AGCGTCTGGGAGTCGGGGACGCACGGTGGGCGCCCTGCCCGCGGGCCCCGCCAGAACTCGCGCCTGGG
 CCTTCCACTTCTGCTGCTGCCTGAAGAAGCCCGGCTCCTGGCCGAGATAGGCGCGGTGACCCTAGTCAGC
 GCCCCGCGCCCGACCCCGCAACCATGGCTTGGCCCTAGCATCGTTCAAACGCCAGCAAGAGCAGAGTT
 TCCAGGATCAGAACTTTGGCAGCCGAGGCCCGGAGACCCGGCGTCAGGAGCTTCTAGAGAAGATCGT
 AGAGGGCCAGGCTGCCAAGAAGCAGAAGCTGGAACAGGATTTCAGGGGCAGATGAAGGAGGCCAAGAAGCC
 GGTGGAAGTGAGGCTACCAAGGAGTGAGACCACTGATGATGGCCAGCCTTCTGCGGAGCAGGAGGGAG
 CAGCCCCATCCCTAGATTCTTCTCTCCCAACCAGGACCTTCAAATGGGGTGACTCCCTTGCCCAGATC
 AGCCCTGCTTATCCAGCTGGCCACTGCCAGGCCTCGGCCTGTAAAAGCTAAGCCTCTGGACTGGCGTGTG
 CAGTCCAAAGACTGGCCCATGCTGGCCGTCCTGCCACGAGCTGCGCTACAGCATCTACCGAGACCTGT
 GGGAGAGAGGTTTCTTCTCAGCGCAGCAGGGAAGTTTGGTGGTGAATTCCTGGTCTATCCTGGTGATCC
 ACTGCGTTTCCATGCTCACTACATTGCTCAGTGCTGGTCTGCTGAGGACCCATCCCACTTCAGGACCTG
 GTCTCTGCAGGCCGCTGGGAACAGTGTGAGGAAGACCTGCTGCTCTGCTCCCTCAGCCTGATGGGA
 AGGTGGTCTACACATCCCTGCAGTGGCCAGCCTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG204523 representing BC002205
 Red=Cloning site Green=Tags(s)

MLVVEVANGRSLVWGAEAVQALRERLGVGGRTVGALPRGPRQNSRLGLPLLLPEEARLLAEIGAVTLVS
 APRPDPRNHGLALASFKRQQEQSFQDQNTLAAEARETRRQELLEKIVEGQAQKQKLEQDSGADEGGQEA
 GGSEATQGSETSDDGQPSAEQEGAAPSLDSSSPQPGPSNGVTPLPRSALLIQLATARPRPVKAKPLDWRV
 QSKDWPAGRPAHELRYSIYRDLWERGFFLSAAGKFGGDFLVYPGDPLRFHAHYIAQCWSAEDPIPLQDL
 VSAGRLGTSVRKTLTLLCSPQPDGKVVYTSLQWASLQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC002205

ORF Size: 950 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: [BC002205](#), [AAH02205](#)

RefSeq Size: 1320 bp

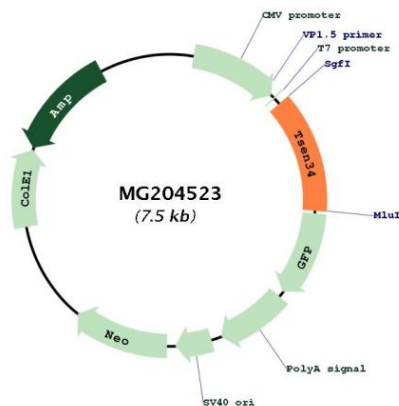
RefSeq ORF: 950 bp

Locus ID: 66078

Cytogenetics: 7 A1

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 MG204523