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Product datasheet for MC217480

Tsen54 (NM_029557) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tsen54 (NM_029557) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tsen54
Synonyms:	0610034P02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC217480 representing NM_029557
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCCGAACCCGAACCCGGGTCGGTGGAGGTTCCCGCGGGGCGTGTGCTCAGCGCCTCGGAGCTCC
GCGCCGCGCGCTCGCGGTCCCAGAAGCTACCACAGCGGTCGCATGGCCCCAAGGACTTCCTCCCGGACGG
CTCGGAGGCCCAGGCGGAGCGGCTGCGCCTGTGTCGCCAAGAGCTGTGGCAGCTGCTGGCGGAGGAGCGC
GTGGAGCGCCTGGGCAGCTTGGTGGCCGCGGAGTGGAAACCAGAAGAGGGCTTTGTGGAGTTGACGTCTC
CTGCGGGGAAATTCTGGCAGACCATGGGCTACTCAGAGGAAGGACGGCAGCGACTTCACCCCGAAGAGGC
TTTGTATCTGCTGGAGTGTGGTTCGATTCAGCTCTTCTACCAAGACCTCCCACTGTCTATCCAAGAGGCA
TACCAGCTGCTGCTGACAGAGGACACCTTGAGTTTCCTGCAGTACCAGGTCTTCAGCCACCTGAAGAGAC
TGGGCTATGTGGTTCGTCGGTTCCAGCTAAGCTCTGTCGTGTCACCTTACGAGCGGCAGCTTAATTTGGA
TGGTTATGCCCAGTGCCTGGAGGATGGGTCTGGCAAGAGGAAGAGGAGTTCCAGCTGTCGGTCTGTTAAT
AAGAAGCCCAAGGTCCTGCAGAACTCCCTGCCGCCCGTCAGCCTGGCAGCCTCCAGCTCACCTGCCTGTG
ACCAGAGTAGCCAATACCCAGAGGAGAAGTCTCAGGACTCAAGCCCCAGGCAGGGCTCAGAGCTCCCCTT
GCAGTTCCTGGGGTCCTCAGAGCCTTGCTCTGATCTGGCCAGGGAAGACGTGGGGTGTGACCGAGAGAGT
CACAAAATAGAGAATGGAGCTAAGGGAACCCCTAAGCTACGCTGGAACTTTGAGCAGATCTCATTCCCCA
ACATGGCCTCTGATAGTCGCCACACTTTCCTGCCTGCTCCAGCCCCAGAGCTGCTCCCAGCCAATGTCAT
TGGGCGAGGGACAGATGCTGAGTCCTGGTGCCAAAAGCTGAACCAGCGGAGGGAGAAGCTCTCCCGTAGA
GACCGGGAACAGCAAGCAGTGGTCCAGCAGTTCCGGGAGGATGTTAACGCAGATCCCGAGGTGCGGGGCT
GCTCCAGCTGGCAGGAGTACAAGGAGCTGCTGCAGAGGCGACAGACGCAGAAGAGCCAGCCCCGGCCTCC
ACACCTATGGGGCCAGTCCGTTACCCCCTTGCTCGACCCTGATAAAGCCGATTGTCCAGCCGCGGTCCTG
CAACATATCTCTGTACTGCAGACGACACACCTTGCTGATGGAGGTTACCGGCTGCTGGAGAAGTCTGGAG
GCTTGCAGATCAGCTTCGATGTTTACCAGGCTGACGCTGTGGCGACGTTCCGAAAAAACAGCCCTGGCAA
ACCCTATGTGCGAATGTGCATTAGTGGGTTTGATGACCCTGTCCCAGACCTCTGCAGCCTCAAGTGCTTG
ACCTACCAGAGTGGGGATGTTCCCCTGATCTTTGCTCTAGTGGACCACGGTGACATCTCCTTCTACAGCT
TCAGAGACTTCACACTGCCCAGGGATCTGGGCCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_029557

Insert Size: 1578 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.
RefSeq:	NM_029557.1, NP_083833.1
RefSeq Size:	1972 bp
RefSeq ORF:	1578 bp
Locus ID:	76265
UniProt ID:	Q8C2A2
Cytogenetics:	11 E2
Gene Summary:	Non-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]

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