

Product datasheet for **RC205009**

TSEN34 (NM_001077446) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TSEN34 (NM_001077446) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TSEN34
Synonyms: LENG5; PCH2C; SEN34; SEN34L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC205009 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGTGGTGGAGGTGGCGAACGGCCGCTCCCTGGTGTGGGAGCCGAGGCGGTGCAGGCCCTCCGGG
AGCGCCTGGGTGTGGGGGCGCACGGTAGGCGCCCTGCCCGCGGGCCCGCCAGAAGCTCGCGCCTGGG
CCTCCCGCTGCTGCTGATGCCCGAAGAGGCGGGCTCTTGGCCGAGATCGGCGCCGTGACTCTGGTCAGC
GCCCGCGTCCAGACTCTCGGCACCACAGCCTGGCCCTGACATCCTTCAAGCGCCAGCAAGAGGAGAGCT
TCCAGGAGCAGAGCGCCTTGGCAGCTGAGGCCCGGAGACCCGTCGTGAGGAGCTCCTGGAGAAGATTAC
GGAGGGCCAGGCTGCTAAGAAGCAGAACTAGAACAGGCTTCAAGGGCCAGCTCAAGCCAGGAGGCCGGC
TCGAGCCAGGCTGCCAAAGAGGATGAGACCAGTATGGCCAGGCTTCGGGAGAGCAGGAGGAAGCTGGCC
CCTCGTCTCCCAAGCAGGACCCCTCAAATGGGGTAGCCCCCTTGCCAGATCTGCTCTCCTTGTCCAGCT
GGCCACTGCCAGGCTCGACCGGTCAAGGCCAGGCCCTGGACTGGCGTGTCCAGTCTAAAGACTGGCCC
CACGCCGGCCGCTGCCACGAGCTGCGCTACAGTATCTACAGAGACCTGTGGGAGCGAGGCTTCTTCC
TCAGTGGCGTGGCAAGTTCGGAGGTGACTTCTGGTCTATCCTGGTACCCCCCTCCGCTTCCACGCCCA
TTATATCGCTCAGTGTGGGCCCCGAGGACACCATCCCACTCCAAGACCTGGTTGCTGCTGGGCGCCTT
GGAACCGGCTCAGAAAGACCCCTGCTCCTCTGTTCTCCGACCCCTGATGGTAAGGTGGTCTACACCTCC
TGCAATGGGCCAGCCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205009 protein sequence
Red=Cloning site Green=Tags(s)

MLVVEVANGRSLVWGAEAVQALRERLGVGGRTVGALPRGPRQNSRLGLPLLLMPEEARLLAEIGAVTLVS
APRPDSRHHSALTSFKRQQEESFQEQSALAAEARETRRQELLEKITEGQAAKQKLEQASGASSSQEAG
SSQAAKEDETSDGQASGEQEEAGPSSSQAGPSNGVAPLPRSALLVQLATARPRPVKARPLDWRVQSKDWP
HAGRPAHELRYSIYRDLWERGFLLSAAGKFGGDFLVYPGDPLRFHAHYIAQCWAPEDTIPLQDLVAAGRL
GTSVRKTLTLLCSPQPDGKVVYVYTSLQWASLQ

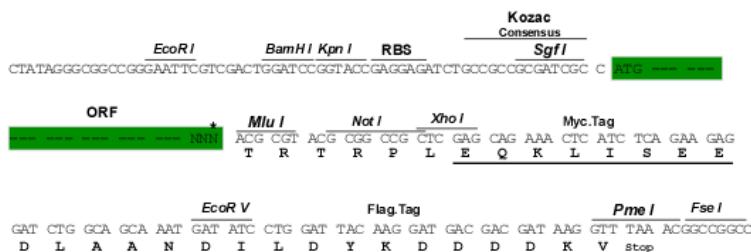
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6778_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001077446

ORF Size: 930 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: [NM_001077446.2](#)

RefSeq Size: 2258 bp

RefSeq ORF: 933 bp

Locus ID: 79042

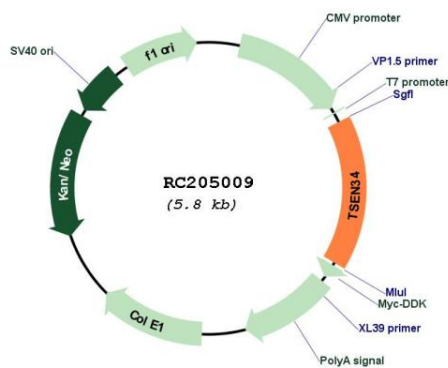
UniProt ID: [Q9BSV6](#)

Cytogenetics: 19q13.42

MW: 33.7 kDa

Gene Summary: This gene encodes a catalytic subunit of the tRNA splicing endonuclease, which catalyzes the removal of introns from precursor tRNAs. The endonuclease complex is also associated with a pre-mRNA 3-prime end processing factor. A mutation in this gene results in the neurological disorder pontocerebellar hypoplasia type 2. Multiple alternatively spliced variants, encoding the same protein, have been identified.[provided by RefSeq, Oct 2009]

Product images:



Circular map for RC205009