

Product datasheet for **RG200954**

TSEN34 (NM_024075) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TSEN34
Synonyms:	LENG5; PCH2C; SEN34; SEN34L
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG200954 representing NM_024075
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGTGGTGGAGGTGGCGAACGGCCGCTCCCTGGTGTGGGGAGCCGAGGCGGTGCAGGCCCTCCGGG
AGCGCCTGGGTGTGGGGGGCCGACGGTAGGCGCCCTGCCCGCGGGCCCGCCAGAACTCGCGCCTGGG
CCTCCCGCTGCTGCTGATGCCCGAAGAGGCGCGGCTCTTGGCCGAGATCGGCGCCGTGACTCTGGTCAGC
GCCCCGCTCCAGACTCTCGGCACCAAGCAGCCTGGCCCTGACATCCTCAAGCGCCAGCAAGAGGAGAGCT
TCCAGGAGCAGAGCGCCTTGGCAGCTGAGGCCCGGAGACCCGTCGTGAGGAGCTCCTGGAGAAGATTAC
GGAGGGCCAGGCTGCTAAGAAGCAGAACTAGAACAGGCTTCAGGGGCCAGCTCAAGCCAGGAGGCCGGC
TCGAGCCAGGCTGCCAAGAGGATGAGACCAGTGATGGCCAGGCTTCGGGAGAGCAGGAGGAAGCTGGCC
CCTCGTCTTCCCAAGCAGGACCCTCAAATGGGGTAGCCCCCTTGGCCAGATCTGCTCTCCTTGTCAGCT
GGCCACTGCCAGGCTCGACCGGTCAAGGCCAGGCCCTGGACTGGCGTGTCCAGTCTAAAGACTGGCCC
CACGCCGGCGCCCTGCCACGAGCTGCGTACAGTATCTACAGAGACCTGTGGGAGCGAGGCTTCTTCC
TCAGTGCAGCTGGCAAGTTCGAGAGTGACTTCTGCTATCCTGGTGACCCCTCCGCTTCCACGCCCA
TTATATCGCTCAGTGCTGGGCCCTGAGGACACCATCCCACTCCAGACCTGGTTGCTGCTGGCGCCTT
GGAACCAAGCGTCAGAAAGACCTGCTCCTGTTCTCCGACGCTGATGGTAAGGTGGTCTACACCTCCC
TGCAATGGGCTAGCCTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG200954 representing NM_024075
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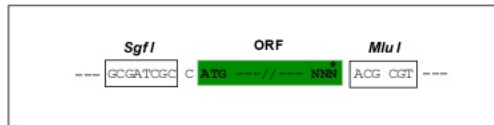
MLVVEVANGRSLVWGAEAVQALRERLGVGGRTVGALPRGPRQNSRLGLPLLLMPEEARLLAEIGAVTLVS
 APRPDSRHSLALTSFKRQQEESFQEQSALAAEARETRRQELLEKITEGQAACKQKLEQASGASSSQEAG
 SSQAAKEDETSQGQASGEQEEAGPSSSQAGPSNGVAPLPRSALLVQLATARPRPVKARPLDWRVQSKDWP
 HAGRPAHELRYSIYRDLWERGFFLSAAGKFGGDFLVYPGDPLRFHAHYIAQCWAPEDTIPLQDLVAAGRL
 GTSVRKTLTLLCSPQPDGKVVYTSLQWASLQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_024075

ORF Size: 930 bp

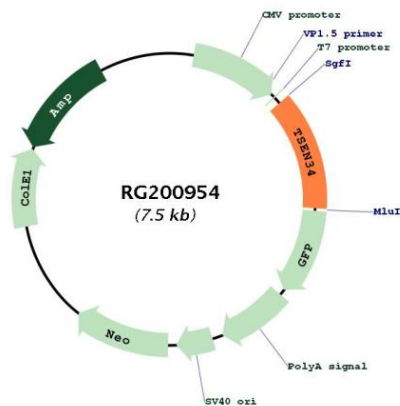
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_024075.2, NP_076980.2</u>
RefSeq Size:	1368 bp
RefSeq ORF:	933 bp
Locus ID:	79042
UniProt ID:	<u>Q9BSV6</u>
Cytogenetics:	19q13.42
Domains:	tRNA_int_endo
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 RG200954