

Product datasheet for **RG226917**

TSEN2 (NM_001145392) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TSEN2
Synonyms:	PCH2B; SEN2; SEN2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG226917 representing NM_001145392
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAGAAGCAGTTTTCCATGCCCAAGAGGAAAAGAAGAGTGTATGAGACTTACGAGTCTCCATTGC
 CAATCCCTTTTGGTCAGGACCATGGTCCTCTGAAAGAATTCAGATATTCGGTGCTGAAATGATTAAACA
 CAATGTGATTGTGAGGAATGCGGAGGACATTGAGCAGCTCTATGGGAAAGGTTATTTTGGAAAAGGTATT
 CTTTCAAGAAGCCGTCCAAGCTTCACAATTTAGATCCTAACTGGTTGCTAAATGGAAGATATGAAGA
 CAAACATGCCTATCATCACATCAAAGAGGTATCAGCATAGTGTGAGTGGGCAGCAGAGCTGATGCGTAG
 ACAGGGGCAGGATGAGAGTACAGTGCAGCAATCCTCAAGGATTACACGAAACCGCTTGAGCATCCTCCT
 GTGAAAAGGAATGAAGAGGCTCAAGTGCATGACAAGCTTAAGTCTGGAATGGTTTCCACATGGAAGGCA
 CAGCAGGGGAGAGAGACCTTCTGTGTAACGGGACTCTGGAAGTCAGGTGGTGTGGTGATCCCCG
 TGAGCCATTAGGCTGCCTGCAGGAGGGCTCTGGCTGCCACCAACAACAGAGAGCTTTGAGAAAAGCGTG
 CGAGAGGATGCCTCACCTCTGCCCCATGTCTGTTGCTGCAACAAGATGCTCTCATCTCCAGCGTGGCC
 TTCATCATGAAGACGGCAGCCAGCACATCGGCCTCCTGCATCCTGGGGACAGAGGGCCTGACCATGAGTA
 CGTGCTGGTCGAGGAAGCGGAGTGTCCATGAGCGAGAGGGAGGCTGCCCAATGAGGAATTGGTGCA
 AGAAACAGGTAAATATGCAGAAGAAATCCATATAGGATCTTTGAGTATTTGCAACTCAGCCTAGAAGAGG
 CCTTTTCTTGGTCTATGCTCTGGGATGTTTAAGTATTTACTATGAGAAGGAGCCTTTAACGATAGTGAA
 GCTCTGAAAAGCTTTCACTGTAGTTTCAAGCCACGTTTCAAGAACCTACATGGCCTACCATTAATTTTCA
 AGCAAGGGCTGGGTGCCAAAGTGGGACTCAAGTACGGGACAGATTTACTGCTATATCGGAAAGGCCCTC
 CATTTTACCATGCAAGTTATTCTGTATTATCGAGCTAGTTGATGACCATTTTGAAGGCTCTCTCCGAG
 GCCTCTCAGTTGGAAGTCCCTGGCTGCCTTGAGCAGAGTTTCCGTTAATGTCTCTAAGGAACTTATGCTG
 TGCTATTTGATTAAACCTCTACTATGACTGACAAGGAAATGGAGTCACCAGAATGTATGAAAAGGATTA
 AAGTTCAGGAGGTATTCTGAGTCGATGGGTTTCTTACGAGAGAGGAGTGACCAAGACGATCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226917 representing NM_001145392
 Red=Cloning site Green=Tags(s)

MAEAVFHAPKRKRVRVYETYESPLPIPFQGDHGPLKEFKIFRAEMINNNIVRNAEDIEQLYGKGYFGKGI
 LSRSPSFTISDPKLVAWKDMKTNMPIITSKRYQHSVEWAAELMRRQGQDESTVRRILKDYTKPLEHPP
 VKRNEEAQVHDKLNSGMVSNMEGTAGGERPSVVNGDSGKSGGVGDPREPLGCLQEGSGCHPTTESFEKSV
 REDASPLPHVCCCKQDALILQRGLHHEDGSQHIQLLHPGDRGPDHEYVLVEEAECAMSEREAAPNEELVQ
 RNRLICRRNPYRIFEYLQLSLEEAFFLVYALGCLSIYYEKEPLTIVKLWKAFTVVQPTFRTTYMAYHYFR
 SKGWVPKVGKLYGTDLLLYRKGPFFYHASYVIELVDDHFEGLRRPLSWKSLAALSRVSVNVSKELML
 CYLIKPSMTDKEMESPECMKRIKVQEVILSRWVSSRERSDQDDL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145392

ORF Size: 1395 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.

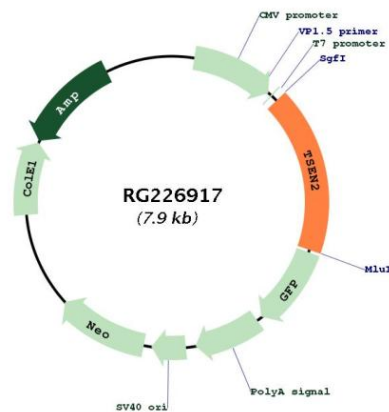
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001145392.1](#), [NP_001138864.1](#)

RefSeq Size: 2150 bp
RefSeq ORF: 1398 bp
Locus ID: 80746
UniProt ID: [Q8NCE0](#)
Cytogenetics: 3p25.2

Gene Summary: This gene encodes one of the subunits of the tRNA splicing endonuclease. This endonuclease catalyzes the first step in RNA splicing which is the removal of introns. Mutations in this gene have been associated with pontocerebellar hypoplasia type 2. A pseudogene has been identified on chromosome 4. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Feb 2009]

Product images:



Circular map for RG226917