

Product datasheet for **RG226941**

TSEN2 (NM_001145395) 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)

ORF Nucleotide Sequence: >RG226941 representing NM_001145395
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAAGCAGTTTTCCATGCCCAAAGAGGAAAAGAAGAGTGTATGAGACTTACGAGTCTCCATTGC
CAATCCCTTTTGGTCAGGACCATGGTCTCTGAAAGAATTCAGATATTCGGTGTGAAATGATTAAACA
CAATGTGATTGTGAGGAATGCGGAGGACATTGAGCAGCTCTATGGGAAAGGTTATTTGGAAAAGGTATT
CTTTCAAGAAGCCGTCCAAGCTTACAATTTAGATCCTAACTGGTTGCTAAATGGAAAGATATGAAGA
CAAACATGCCTATCATCACATCAAAGAGGTATCAGCATAGTGTGAGTGGGCAGCAGAGCTGATGCGTAG
ACAGGGGCAGGATGAGAGTACAGTGCAGCAATCCTCAAGGATTACACGAAACCGCTTGAGCATCCTCCT
GTGAAAAGGAATGAAGAGGCTCAAGTGCATGACAAGCTTAACCTGGAATGGTTTCCAACATGGAAGGCA
CAGCAGGGGAGAGAGACCTTCTGTGTTAAACGGGACTCTGGAAGTCAGGTGGTGTGGGTGATCCCCG
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CGAGAGGATGCCTCACCTCTGCCCCATGTCTGTGCTGCAACAAGATGCTCTCATCCTCCAGCGTGGCC
TTCATCATGAAGACGCGCAGCCAGCACATCGGCCTCCTGCATCCTGGGACAGAGGGCCTGACCATGAGTA
CGTGCTGGTCGAGGAAGCGGAGTGTGCCATGAGCGAGAGGGAGGCTGCCCAATGAGGAAGCCTTTTTC
TTGGTCTATGCTCTGGGATGTTTAAGTATTTACTATGAGAAGGAGCCTTTAACGATAGTGAAGCTCTGGA
AAGCTTTCACTGTAGTTCAAGCCACGTTTCAAGACCTACATGGCCTACCATTACTTTTCAAGCAAGGG
CTGGGTGCCAAAGTGGGACTCAAGTACGGGACAGATTTACTGCTATATCGGAAAGGCCCTCCATTTTAC
CATGCAAGTTATTCTGTCATTATCGAGCTAGTTGATGACCATTTTGAAGGCTCTCTCCGACGGCCTCTCA
GTTGGAAGTCCCTGGCTGCCTTGAGCAGAGTTCCGTTAATGTCTCTAAGGTAAACAACATCAGCTTTG
CCATTGGAGTGCTCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



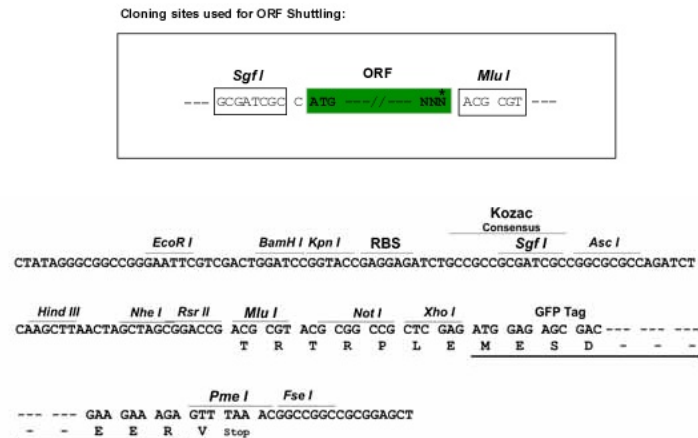
Protein Sequence: >RG226941 representing NM_001145395
 Red=Cloning site Green=Tags(s)

MAEAVFHAPKRKRVRVYETYESPLPIFGQDHGPLEKFIFRAEMINNNVIVRNAEDIEQLYGKGYFGKGI
 LSRSRPSFTISDPKLVAKWDMKTNPITTSKRYQHSVEWAAELMRRQGQDESTVRRILKDYTKPLEHPP
 VKRNEEAQVHDKLNSGMVSNMEGTAGGERPSVVGDSGKSGGVGDPREPLGCLQEGSGCHPTTESFEKSV
 REDASPLPHVCCCKQDALILQRGLHHEDGSQHIGLLHPGDRGPDHEYVLVEEAECAMSEREAPNEEAFF
 LVYALGCLSIYYEKEPLTIVKLWKAFTVVQPTFRTTYMAYHYFRSKGWVPKVGLKYGTDLLLYRKGPFFY
 HASYSVIIELVDDHFEGLRRPLSWKSLAALSRSVSVNVSKVTQHQLCHWSVT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145395

ORF Size: 1206 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_001145395.1](#), [NP_001138867.1](#)

RefSeq Size: 2697 bp

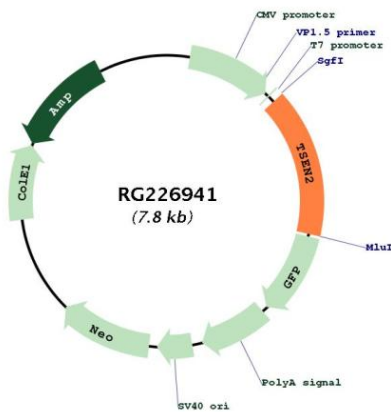
RefSeq ORF: 1209 bp

Locus ID: 80746

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 RG226941