

Product datasheet for **RG226927**

TSEN2 (NM_001145393) 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: >RG226927 representing NM_001145393
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAAGCAGTTTTCCATGCCCAAAGAGGAAAAGAAGAGTGTATGAGACTTACGAGTCTCCATTGC
CAATCCCTTTTGGTCAGGACCATGGTCTCTGAAAGAATTCAAGATATTCGGTGTCTGAAATGATTAAACA
CAATGTGATTGTGAGGAATGCGGAGGACATTGAGCAGCTCTATGGGAAAGGTTATTTGGAAAAGGTATT
CTTTCAAGAAGCCGTCCAAGCTTCACAATTTAGATCCTAACTGGTTGCTAAATGGAAAGATATGAAGA
CAAACATGCCTATCATCACATCAAAGAGGTATCAGCATAGTGTGAGTGGGCAGCAGAGCTGATGCGTAG
ACAGGGGCAGGATGAGAGTACAGTGCAGCAATCCTCAAGGATTACACGAAACCGCTTGAGCATCTCCT
GTGAAAAGGAATGAAGAGGCTCAAGTGCATGACAAGCTTAAGTCTGGAATGGTTTCCAACATGGAAGGCA
CAGCAGGGGAGAGAGACCTTCTGTGTTAAACGGGACTCTGGAAGTCAGGTGGTGTGGGTGATCCCCG
TGAGCCATTAGGCTGCCTGCAGGAGGGCTCTGGCTGCCACCAACAACAGAGAGCTTTGAGAAAAGCGTG
CGAGAGGATGCCTCACCTCTGCCCCATGTCTGTGCTGCAACAAGATGCTCTCATCTCCAGCGTGGCC
TTCATCATGAAGACGCGCAGCCAGCACATCGGCCTCCTGCATCTGGGGACAGAGGGCCTGACCATGAGTA
CGTGTGCTGTCGAGGAAGCGGAGTGTGCCATGAGCGAGAGGGAGGCTGCCCAATGAGGAAGCCTTTTTC
TTGGTCTATGCTCTGGGATGTTTAAGTATTTACTATGAGAAGGAGCCTTTAACGATAGTGAAGCTCTGGA
AAGCTTTACTGTAGTTACAGCCACGTTTCAAGACCTACATGGCCTACCATTACTTTGAAAGCAAGGG
CTGGGTGCCAAAGTGGGACTCAAGTACGGGACAGATTTACTGCTATATCGGAAAGGCCCTCCATTTTAC
CATGCAAGTTATTCTGTCATTATCGAGCTAGTTGATGACCATTTTGAAGGCTCTCTCCGAGGCCTCTCA
GTTGGAAGTCCCTGGCTGCCTTGAGCAGAGTTTCCGTTAATGTCTCTAAGGAACCTATGCTGTGCTATTT
GATTAAACCTCTACTATGACTGACAAGGAAATGGAGTCACCAGAATGTATGAAAAGGATTAAAGTTCAG
GAGGTGATTCTGAGTCGATGGGTTTCTTACGAGAGAGGAGTGACCAAGACGATCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG226927 representing NM_001145393

Red=Cloning site Green=Tags(s)

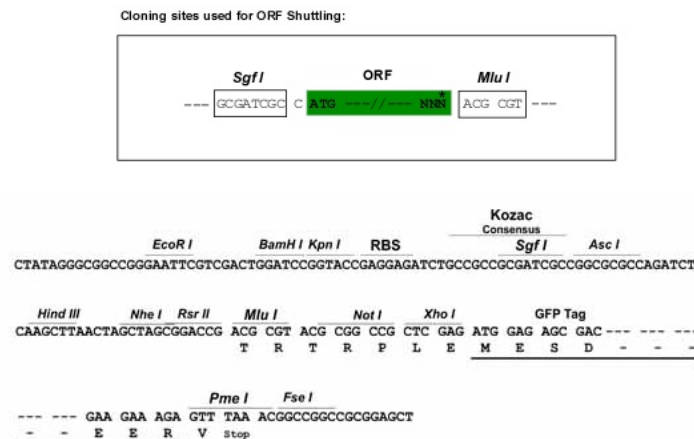
MAEAVFHAPKRKRRVYETYESPLPIFGQDHGPLEKFIFRAEMINNNIVIRNAEDIEQLYGKGYFGKGI
LSRSRPSFTISDPKLVAKWDMKTNMPIITSKRYQHSVEWAAELMRRQGQDESTVRRILKDYTKPLEHPP
VKRNEEAQVHDKLNSGMVSNMEGTAGGERPSVVGDSGKSGGVGDPREPLGCLQEGSGCHPTTESFEKSV
REDASPLPHVCCCKQDALILQRGLHHEDGSQHIGLLHPGDRGPDHEYVLVEEAECAMSEREAAPNEEAFF
LVYALGCLSIYYEKEPLTIVKLWKAFTVQPTFRTTYMAYHYFRSKGWVPKVLKYGTDLLLYRKGPFFY
HASYSVIELVDDHFEGLRRLPSWKSALAALSRVSVNVSKELMLCYLIKPMSTMTDKEMESPECMKRIKVQ
EVLISRWSSRERSDQDDL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001145393

ORF Size:

1317 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_001145393.2](#)

RefSeq Size: 2023 bp

RefSeq ORF: 1320 bp

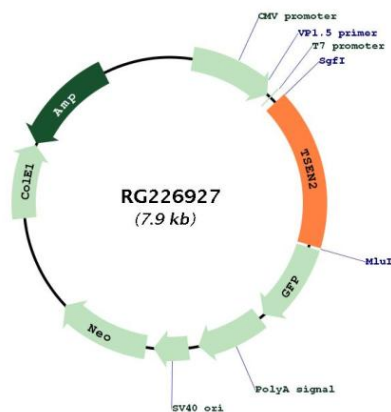
Locus ID: 80746

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 RG226927