

Product datasheet for **SC326571**

TSEN2 (NM_001145394) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSEN2 (NM_001145394) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSEN2
Synonyms:	PCH2B; SEN2; SEN2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326571 representing NM_001145394. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGCAGAAGCAGTTTTCCATGCCCAAAGAGGAAAAGAGAGTGTATGAGACTTACGAGTCTCCATTG
 CCAATCCCTTTTGGTCAGGACCATGGTCCTCTGAAAGAATTCAAGATATTCGTGCTGAAATGATTAAC
 AACATGTGATTGTGAGGAATGCGGAGGACATTGAGCAGCTCTATGGGAAAGGTTATTTTGGAAAAGGT
 ATTCTTTCAAGAAGCCGTCGAAGCTTACAATTTCAAGTCTAACTGGTTGCTAAATGGAAGATATG
 AAGACAAACATGCCTATCATCACATCAAAGAGGTATCAGCATAGTGTGAGTGGGCAGCAGAGCTGATG
 CGTAGACAGGGGCAGGATGAGAGTACAGTGCAGCAATCCTCAAGGATTACACGAAACCGCTTGAGCAT
 CCTCCTGTGAAAAGGAATGAAGAGGCTCAAGTGCATGACAAGCTTAAGTCTGGAATGGTTTCCAACATG
 GAAGGCACAGCAGGGGGAGAGAGACCTTCTGTGCGTGGCCTTCATCATGAAGACGGCAGCCAGCACATC
 GGCTCCTGCATCCTGGGACAGAGGGCCTGACCATGAGTACGTGCTGGTCGAGGAAGCGGAGTGTGCC
 ATGAGCGAGAGGGAGGCTGCCCAAATGAGGAATTGGTGCAAAGAAACAGGTTAATATGCAGAAGAAAT
 CCATATAGGATCTTTGAGTATTTGCAACTCAGCCTAGAAGAGGCCTTTTCTTGGTCTATGCTCTGGGA
 TGTTTAAGTATTTACTATGAGAAGGAGCCTTTAACGATAGTGAAGCTCTGGAAAGCTTTCACTGTAGTT
 CAGCCACGTTTCAAGAACCTACATGGCTACCATTTCTGAAGCAAGGGCTGGGTGCCCAAAGTG
 GGACTCAAGTACGGGACAGATTTACTGCTATATCGGAAAGGCCCTCCATTTTACCATGCAAGTTATTCT
 GTCAATTATCGAGCTAGTTGATGACCATTTGAAGGCTCTCTCCGAGGCCCTCTCAGTTGGAAGTCCCTG
 GCTGCCTTGAGCAGAGTTTCCGTTAATGTCTCTAAGGAAGTTATGCTGTGCTATTTGATTAACCCCTCT
 ACTATGACTGACAAGGAATGGAGTCACCAAGATGTATGAAAAGGATTAAAGTTCAGGAGGTGATTCTG
 AGTCGATGGGTTTCTTACGAGAGAGGAGTGACCAAGACGATCTT**TAA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: SgfI-MluI



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ACCN:	NM_001145394
Insert Size:	1221 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001145394.1</u>
RefSeq Size:	1941 bp
RefSeq ORF:	1221 bp
Locus ID:	80746
UniProt ID:	<u>Q8NCE0</u>
Cytogenetics:	3p25.2
MW:	47.1 kDa
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] Transcript Variant: This variant (4) differs in the 5' UTR and uses an alternate in-frame splice site in the coding region compared to variant 1. The resulting protein (isoform 3) is shorter than isoform 1.