

Product datasheet for **RC208425**

TSEN54 (NM_207346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSEN54 (NM_207346) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TSEN54
Synonyms:	PCH2A; PCH4; PCH5; sen54; SEN54L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC208425 representing NM_207346
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCCGAGCCCGAGCCCGCGGCCGTGGAGGTTCCCGCGGGCGCGTGCTCAGCGCCCGGGAGCTCT
 TCGCCGCCGCTCGCGGTGCGAGAAGCTGCCCCAGCGCTCGCATGGCCCCAAGGACTTTCTGCCCGACGG
 CTCGGCAGCTCAGGCCGAGCGGCTGCGCCGGTCCCGGAAGAGCTCTGGCAGCTGCTGGCAGAGCAGCGC
 GTGGAGCGCTGGGCAGCTTGGTGGCTGCCGAGTGGAGGCCAGAAGAGGGCTTCGTGGAGTTGAAGTCTC
 CCGCGGGCAAATTCTGGCAGACCATGGGCTTCTCAGAGCAGGGCCGCGCAGCGCTTACCCGGAAGAGGC
 CTTGTATCTTGGAGTGTGGCTCCATCCACCTTCCACCAAGACCTGCCACTGTCTATCCAGGAAGCT
 TACCAGCTGCTGACCGACCACACTGTGACCTTCTGCAGTACCAGGTCTTCAGCCACTGAAGAAGT
 TGGGTTATGTGGTTCGACGATCCAACCAAGCTCTGTCTGTCCCGTATGAGAGGCAGCTTAACCTGGA
 TGCCAGCGTGCAGCACTTGGAGGATGGAGATGGCAAGAGAAAGAGGAGCAGCTCCAGCCCTCGGTCCATT
 AATAAGAAGGCCAAGGCCCTGGACAACCTCCCTGCAACCCAAGAGTCTGGCAGCCTCCAGCCACCTCCCT
 GCAGCCAGCCAGCCAATGCCAGAGGAGAAACCCAGGAGTCAAGCCCCATGAAGGGCCAGGGGGCC
 CTTTCAGCTTCTGGGTCCCTGGGCCAGCCCTGGCCCGCCAGGGAGGGGGTGGGGTGCAGCTGGGAG
 AGTGGCAGAGCCGAGAACGGAGTACGGGAGCCGTAAGCGGCGCTGGAACCTTCGAGCAGATCTCCTTCC
 CCAACATGGCTTCAGACAGCCGCCACACCTTCTGCGGCCAGCCAGAGCTGCTCCCGGCCAACGT
 GGCTGGGCGGGAGACAGACGCTGAGTCTGGTCCAGAAGCTGAACAGCGCAAGGAGAACCTCTCCAGG
 CGGAACGGGAGCACCACGGGAGGCGCGCAGTCCAGGAAGATGTCAACGCCGATCCCGAGGTGCAGC
 GCTGCTCAGCTGGCGGGAGTACAAGGAGCTGCTGCAGCGCGGCAGGTGCAGAGGAGCCAGCCCGGCC
 CCCTCACCTGTGGGCCAGCCCGTCAACCCGCTGCTGAGTCTGGCCAGGCCAGCTCCCCAGCCGTGGTC
 CTTCAGCATATCTGTGCTGCAGACAACACCTTCTGATGGAGGTGTCGGGTGTTGGAGAAGTCTG
 GGGCTTGGAAATCATCTTTGATGTTTACCAGGCCAGCGCTGTGGCCACATTCCGAAAGAATAACCTGG
 CAAACCTATGCCGGATGTGCATTAGTGGATTTGATGAGCCTGTCCAGACCTTGCAGCCTCAAGCGG
 TTGTCTTACCAGAGTGGGATGTCCCTGATCTTTGCCCTGGTGGATCATGGTGACATCTCCTTCTACA
 GCTTCAGGGACTTACGTTGCCAGGATGTGGGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208425 representing NM_207346
 Red=Cloning site Green=Tags(s)

MEPEPEAAVEVPAGRVLSARELFAARSRSQKLPQRSHGPKDFLPDGSAQAERLRRCREELWQLLAEQR
 VERLGSLVAAEWRPEEGFVELKSPAGKFWQTMGFSEQGRQLHPEEALYLLECGSIHLFHQDLPLSIQEA
 YQLLLTDHTVTLFYQVFSHLKLLGYVVRFPSSVLSPYERQLNLDASVQHLEDGDGKRKRSSSSPRSI
 NKKAKALDNSLQPKSLAASSPPPCSQSPQPEEKQEESPMKGGPFQLLGSLGSPGPAREGVGCSWE
 SGRAENGVGTGAGKRRWNFEQISFPNMA SDSRHTLLRAPAPELLPANVAGRETDAESWCQKLNQRKENLSR
 REREHHAEEAQFQEDVNADPEVQRCSSWREYKELLQRRQVQRSQRAPHLWGQPVTLLSPGQASSPAVV
 LQHISVLQTHLPDGGVRLLEKSGGLEIIFDVYQADAVATFRKNNPGKPYARMCISGFDEPVPDLC SLKR
 LSYQSGDVPLIFALVDHGDISFYFRDFTL PQDVGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3505_c09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_207346

ORF Size: 1578 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.

RefSeq: [NM_207346.3](#)

RefSeq Size: 1970 bp

RefSeq ORF: 1581 bp

Locus ID: 283989

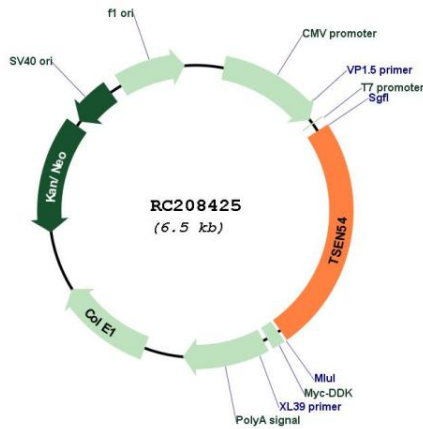
UniProt ID: [Q7Z6J9](#)

Cytogenetics: 17q25.1

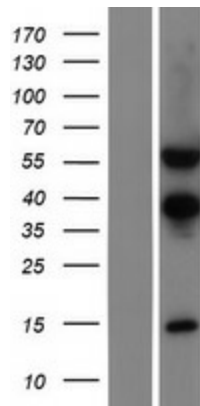
MW: 58.6 kDa

Gene Summary: This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyzes the removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3-prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type 2. [provided by RefSeq, Oct 2009]

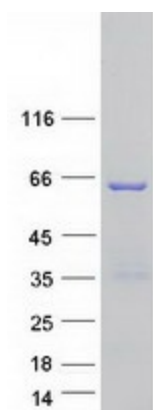
Product images:



Circular map for RC208425



Western blot validation of overexpression lysate (Cat# [LY403972]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208425 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TSEN54 protein (Cat# [TP308425]). The protein was produced from HEK293T cells transfected with TSEN54 cDNA clone (Cat# RC208425) using MegaTran 2.0 (Cat# [TT210002]).