

Product datasheet for **RG208425**

TSEN54 (NM_207346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSEN54 (NM_207346) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TSEN54
Synonyms:	PCH2A; PCH4; PCH5; sen54; SEN54L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208425 representing NM_207346
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCCGATCCCAGCCCGCGCCGTGGAGGTTCCCGCGGGCGCGTGCTCAGCGCCCGGAGCTCT
 TCGCCGCCGCTCGCGGTGCGAGAAGCTGCCCCAGCGCTCGCATGGCCCCAAGGACTTTCTGCCGACGG
 CTCGGCAGCTCAGGCCGAGCGGCTGCGCCGGTCCCGGAAGAGCTCTGGCAGCTGCTGGCAGAGCAGCGC
 GTGGAGCGCTGGGCAGCTTGGTGGCTGCCGAGTGGAGGCCAGAAGAGGGCTTCGTGGAGTTGAAGTCTC
 CCGCGGGCAAATTCTGGCAGACCATGGGCTTCTCAGAGCAGGGCCGCGCAGCTTACCCGGAAGAGGC
 CTTGTATCTTGGAGTGTGGCTCCATCCACCTTCCACCAAGACCTGCCACTGTCTATCCAGGAAGCT
 TACCAGCTGCTGACCGACCACACTGTGACCTTCTGCAGTACCAGGTCTTCAGCCACCTGAAGAGGT
 TGGGTTATGTGGTTCGACGATCCAACCAAGCTCTGTCTGTCCCGTATGAGAGGCAGCTTAACCTGGA
 TGCCAGCGTGCAGCACTTGGAGGATGGAGATGGCAAGAGAAAGAGGAGCAGCTCCAGCCCTCGGTCCATT
 AATAAGAAGGCCAAGGCCCTGGACAACCTCCCTGCAACCCAAGAGTCTGGCAGCCTCCAGCCACCTCCCT
 GCAGCCAGCCAGCCAATGCCAGAGGAGAAACCCAGGAGTCAAGCCCCATGAAGGGCCAGGGGGCC
 CTTTCAGCTTCTGGGGTCCCTGGGCCAGCCCTGGCCCGCCAGGGAGGGGGTGGGGTGCAGCTGGGAG
 AGTGGCAGAGCCGAGAACGGAGTACGGGAGCCGTAAGCGGCGCTGGAACCTTCGAGCAGATCTCCTTCC
 CCAACATGGCTTCAGACAGCCGCCACACCTTCTGCGGCCAGCCAGAGCTGCTCCCGGCCAACGT
 GGCTGGCGGGAGACAGACGCTGAGTCTGGTCCAGAAGCTGAACCAGCGCAAGGAGAACCTCTCCAGG
 CGGAACGGGAGCACACGCGGAGGCGCGCAGTCCAGGAAGATGTCAACGCCGATCCCGAGGTGCAGC
 GCTGCTCCAGCTGGCGGGAGTACAAGGAGCTGCTGCAGCGCGGCAGGTGCAGAGGAGCCAGCCCGGGC
 CCCTCACCTGTGGGGCCAGCCCTCACCCGCTGCTGAGTCTTGCCAGGCCAGCTCCCGAGCCGCTGGTC
 CTTCAGCATATCTCTGTGCTGCAGACAACACCTTCTGATGGAGGTGTCGGGTGTTGGAGAAGTCTG
 GGGCTTGGAAATCATCTTTGATGTTTACCAGGCCGACGCTGTGGCCACATTCCGAAAGAATAACCTGG
 CAAACCTATGCCGGATGTGCATTAGTGGATTTGATGAGCCTGTCCAGACCTTGCAGCCTCAAGCGG
 TTGTCTTACCAGAGTGGGATGTCCCTCTGATCTTGGCCTGGTGGATCATGGTGACATCTCCTTCTACA
 GCTTCAGGGACTTCAGTTGCCAGGATGTGGGGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208425 representing NM_207346
 Red=Cloning site Green=Tags(s)

MEPDPEPAAVEVPAGRVLSARELFAARSRSQKLPQRSHGPKDFLDPGSAQAERLRRCREELWQLLAEQR
 VERLGSVAAEWRPEEGFVELKSPAGKFWQTMGFSEQGRQLHPEEALYLLECGSIHLFHQDLPLSIQEA
 YQLLLTDHTVTFLLQYQVFSHLKRLGYVRRFPSSVLSPIYERQLNLDASVQHLEDGDGKRKRSSSPRSI
 NKKAKALDNSLQPKSLAASSPPPCSQSPQPEEKQESSPMKGGPFQLLGSLGSPGPAREGVGCSWE
 SGRAENGVTGAGKRRWNFEQISFPNMA SDSRHTLLRAPAPELLPANVAGRETDAESWCQKLNQRKENLSR
 REREHHAEEAAQFQEDVNADPEVQRCSSWREYKELLQRRQVQRSQRRAHPLWGQPVTPLLSPGQASSPAVV
 LQHISVLQTTHLPDGGVRLLEKSGGLEIIFDVYQADAVATFRKNNPGKPYARMCISGFDEPVPDLCSLKR
 LSYQSGDVPLIFALVDHGDISFYFRDFTLQDVGH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_207346.1](#), [NP_997229.1](#)

RefSeq Size: 1970 bp

RefSeq ORF: 1581 bp

Locus ID: 283989

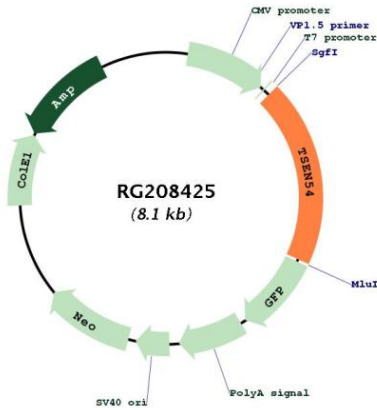
UniProt ID: [Q7Z6J9](#)

Cytogenetics: 17q25.1

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 RG208425