

## OriGene Technologies, Inc. 9620 Medical Center Drive Ste

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## Product datasheet for SR317082

## **TSEN54 Human siRNA Oligo Duplex (Locus ID 283989)**

## **Product data:**

| conc. 10 nM).Note:Single siRNA duplex (10nmol) can be ordered.RefSeq:NM 207346UniProt ID:Q7Z6J9Synonyms:PCH2A; PCH4; PCH5; sen54; SEN54LComponents:TSEN54 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 283989)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2<br>Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 mlSummary:This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyze<br>removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type 3<br>[provided by RefSeq, Oct 2009]PerformanceOriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control<br>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the Hill<br>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within nine<br>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement w  | Product Type:       | siRNA Oligo Duplexes   |
|--|---------------------|--|
| Sequences:Available with shipmentStability:One year from date of shipment when stored at -20°C.# of transfections:Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (fin<br>conc. 10 nM).Note:Single siRNA duplex (10nmol) can be ordered.RefSeq:NM 207346UniProt ID:Q7Z6J9Synonyms:PCH2A; PCH4; PCH5; sen54; SEN54LComponents:TSEN54 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 283989)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2<br>Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 mlSummary:This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyze<br>removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type -<br>[provided by RefSeq, Oct 2009]PerformanceOriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfected and the HI<br>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within nime<br>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement w | Purity:             | HPLC purified  |
| Stability:One year from date of shipment when stored at -20°C.# of transfections:Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (fin<br>conc. 10 nM).Note:Single siRNA duplex (10nmol) can be ordered.RefSeq:NM 207346UniProt ID:Q7Z6j9Synonyms:PCH2A; PCH4; PCH5; sen54; SEN54LComponents:TSEN54 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 283989)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2<br>Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 mlSummary:This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyze<br>removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type -<br>[provided by RefSeq, Oct 2009]Performance<br>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the cells have been transfection contro-<br>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HI<br>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within nine<br>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement w              | Quality Control:    | Tested by ESI-MS   |
| # of transfections:Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (fin<br>conc. 10 nM).Note:Single siRNA duplex (10nmol) can be ordered.RefSeq:NM 207346UniProt ID:Q7Z6J9Synonyms:PCH2A; PCH4; PCH5; sen54; SEN54LComponents:TSEN54 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 283989)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2<br>Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 mlSummary:This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyze<br>removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type 3<br>[provided by RefSeq, Oct 2009]Performance<br>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection contro<br>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the Hill<br>positive control (cat# SR30003) provides 90% knockdown efficiency.   | Sequences:          | Available with shipment  |
| Note:Single siRNA duplex (10nmol) can be ordered.RefSeq:NM 207346UniProt ID:Q7Z6J9Synonyms:PCH2A; PCH4; PCH5; sen54; SEN54LComponents:TSEN54 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 283989)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2<br>Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 mlSummary:This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyze<br>removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type -<br>[provided by RefSeq, Oct 2009]Performance<br>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection contro<br>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the Hi<br>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within nine<br>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement w   | Stability:          | One year from date of shipment when stored at -20°C.   |
| RefSeq:NM 207346UniProt ID:Q7Z6J9Synonyms:PCH2A; PCH4; PCH5; sen54; SEN54LComponents:TSEN54 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 283989)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2<br>Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 mlSummary:This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyze<br>removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type 3<br>[provided by RefSeq, Oct 2009]PerformanceOriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfected and the HI<br>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within nine<br>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement w   | # of transfections: | Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).   |
| UniProt ID:Q7Z6J9Synonyms:PCH2A; PCH4; PCH5; sen54; SEN54LComponents:TSEN54 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 283989)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2<br>Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 mlSummary:This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyze<br>removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type 3<br>[provided by RefSeq, Oct 2009]Performance<br>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control<br>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the Hill<br>positive control (cat# SR30003) provides 90% knockdown efficiency.   | Note:               | Single siRNA duplex (10nmol) can be ordered.   |
| Synonyms:PCH2A; PCH4; PCH5; sen54; SEN54LComponents:TSEN54 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 283989)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2<br>Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 mlSummary:This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyze<br>removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type 1<br>[provided by RefSeq, Oct 2009]Performance<br>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection contro<br>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HI<br>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within nine<br>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement w   | RefSeq:             | <u>NM 207346</u>   |
| Components:TSEN54 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 283989)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2<br>Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 mlSummary:This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyze<br>removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type 1<br>[provided by RefSeq, Oct 2009]Performance<br>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control<br>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HI<br>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within nine<br>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement w   | UniProt ID:         | <u>Q7Z6J9</u>  |
| Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2<br>Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 mlSummary:This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyze<br>removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type 1<br>[provided by RefSeq, Oct 2009]Performance<br>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfected and the HI<br>positive control (cat# SR30002) indicates that >90% of the cells have been transfected and the HI<br>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within nine<br>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement w  | Synonyms:           | PCH2A; PCH4; PCH5; sen54; SEN54L   |
| removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3<br>prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type 3<br>[provided by RefSeq, Oct 2009]Performance<br>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control<br>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HI<br>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within nine<br>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement w   | Components:         | Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol  |
| Guaranteed:provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control<br>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HI<br>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within nine<br>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement w   | 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.<br>[provided by RefSeq, Oct 2009]   |
| Please provide your data indicating the transfection efficiency and measurement of gen   |                     | <ul> <li>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control duplex (cat# SR30002) indicates that &gt;90% of the cells have been transfected and the HPRT positive control (cat# SR30003) provides 90% knockdown efficiency.</li> <li>For non-conforming siRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with newly designed duplexes, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data</li> </ul> |



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2021 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US