


# Silencer™ Human GPCR siRNA Library

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 **WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [thermofisher.com/support](http://thermofisher.com/support).

## Product description

The Invitrogen™ Silencer™ Human GPCR siRNA Library contains Silencer™ pre-designed, and when available, validated siRNAs.

- The siRNAs target human genes encoding for G-protein-coupled receptors (GPCR). GPCR are key components for many signal transduction pathways and are considered potential targets for therapeutics.
- For handling and usage guidelines, refer to *Silencer™ Libraries: Transfection Protocol* (Pub. no. MAN0014606).

## Library characteristics

Characteristic	Description
Lot number	XXXXXXX
Total amount of each siRNA	0.25 nmol of each siRNA
siRNA aliquot description	1 × 0.25 nmol
Library content	1134 unique siRNAs targeting transcripts from each of 378 GPCR genes. Total of 15 × 96-well plates (Axygen PCR96FS; <a href="http://www.axxygen.com">www.axxygen.com</a> ). <ul style="list-style-type: none"> <li>• 12 plates with 88 siRNAs each.</li> <li>• 3 plates with 26 siRNAs each.</li> </ul> A few siRNAs target more than one gene's transcript(s), due to gene families with highly homologous members or predicted genes with high homology to verified genes. Refer to the accompanying CD for sequence information and additional siRNA details.
Library format	Individual siRNAs
Empty wells per plate	Last column empty
Plate layout	siRNAs to same target in separate plates in same location
siRNA purity	Standard
siRNA format	Annealed
Appearance	Powder
Storage	Store at or below -20°C. Do not store in a frost-free freezer. (Dried oligonucleotides are shipped at ambient temperature.)
Shelf life	1 year, when stored at or below -20°C.

## Quality control

**Identity:** The mass of a sample of each single-stranded RNA oligonucleotide is analyzed using MALDI-TOF mass spectrometry and compared to the calculated mass.

**Annealing:** A sample of the annealed siRNA is analyzed by nondenaturing gel electrophoresis.

## Limited product warranty

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