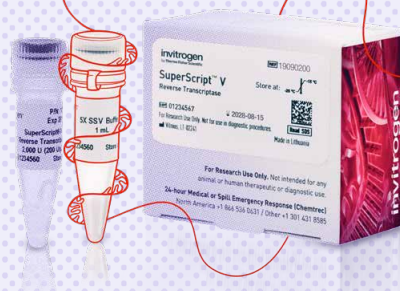


Move beyond the standard script

SuperScript V Reverse Transcriptase for excellent performance, easy setup, and exceptional stability



Invitrogen™ SuperScript™ V Reverse Transcriptase (RT) is a next-generation Maloney murine leukemia virus (MMLV) reverse transcriptase engineered for enhanced oxidation resistance and sensitive, high-quality cDNA synthesis across a broad range of RNA samples. Its innovative features support enhanced reagent and reaction stability while simplifying manual, automated, and high-throughput workflows.

Product features

- Excellent sensitivity across a broad RNA input range (100 fg–5 µg)
- High thermostability (up to 65° C)
- Robust performance with GC-rich, structured, degraded, and inhibitor-rich RNA
- Ultra-fast workflows with target detection in 1–10 minutes reaction time
- Room-temperature reaction setup and storage of assembled reactions for up to 24 hours
- Animal origin-free, DTT-free, and reduced cold chain requirements

Applications

- **Gene expression analysis**
RT-qPCR and RT-PCR across oncology, immunology, cell therapy, and other research areas
- **RNA sequencing and transcriptomics**
NGS-based transcriptome analysis
- **Challenging RNA analysis**
formalin-fixed paraffin-embedded (FFPE), low-input, degraded, or inhibitor-rich RNA samples

Download the application notes at thermofisher.com/ssresources

Standalone enzymes: Ship and store at room temperature for up to 6 months

Master mixes: Ship and store at room temperature for up to 1 month

To request free sample, Scan QR code or visit thermofisher.com/ssv**

Available formats

Product name	Size*	Cat. No.	Description
SuperScript V Reverse Transcriptase	50 rxn	19090050	Standalone enzyme for maximum flexibility and reaction control
SuperScript V VILO Master Mix	50 rxn	11800001	Optimized for two-step RT-qPCR with built-in primers
SuperScript V VILO Master Mix, with gDNA removal	50 rxn	11800111	Streamlined two-step RT-qPCR with built-in primers and integrated genomic DNA removal
SuperScript V VILO Master Mix, Primer-Free	50 rxn	11900001	Master mix convenience with flexible primer choice
SuperScript V VILO Master Mix, Primer-Free, with gDNA removal	50 rxn	11900111	Master mix convenience with flexible primer choice and integrated genomic DNA removal

* Additional sizes available



To request a free sample, Scan QR code or visit thermofisher.com/ssv**

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Performance data

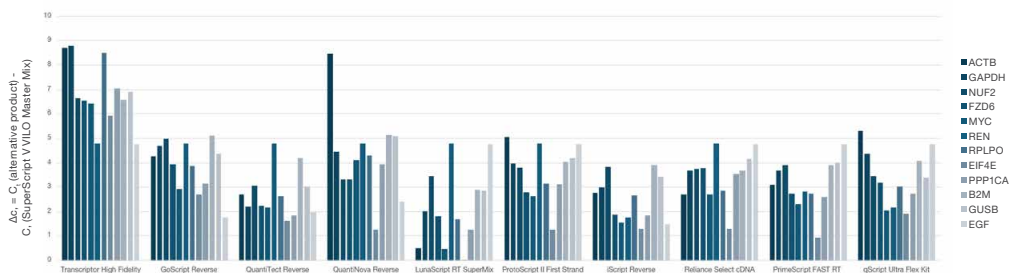


Figure 1. Earlier C_t values compared to competitors. SuperScript V VIL0 Master Mix showed C_t values up to 8 cycles earlier for the tested genes using 1 ng of HeLa total RNA and the manufacturers' recommended protocols.

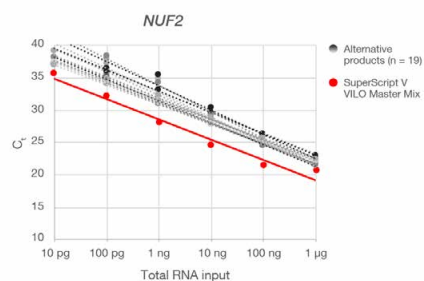


Figure 2. Broad RNA input range. Earlier C_t values across a wide range of HeLa RNA inputs indicate high sensitivity and cDNA yield when tested according to the manufacturers' recommended protocols.

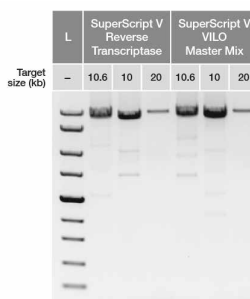


Figure 3. Long targets. Targets up to 20 kb were successfully reverse transcribed from 1 µg of mouse heart total RNA.

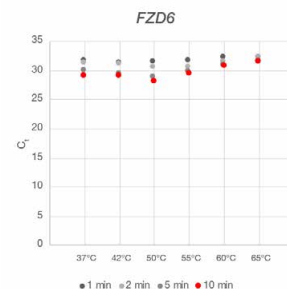


Figure 4. Reliable target detection with short reaction times. Efficient target detection in RT-qPCR even at 1-minute reaction time across wide incubation temperatures.

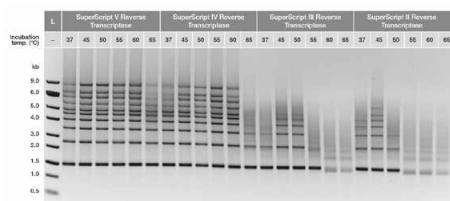


Figure 5. cDNA synthesis across a broad temperature range and target lengths. Compared with previous-generation products, SuperScript V RTs synthesize cDNA at reaction temperatures up to 65°C across tested target lengths ranging from 0.5 to 9 kb, facilitating efficient reverse transcription of RNA with secondary structures and GC-rich templates.

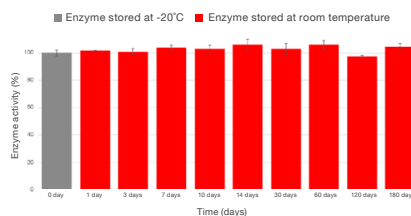


Figure 6. Enhanced stability. SuperScript V Reverse Transcriptase retains activity after 6 months of storage at room temperature.

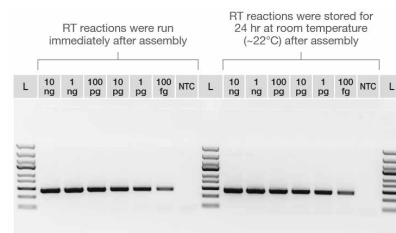


Figure 7. Assembled reaction stability for up to 24 hours. Comparable RT-PCR band intensities were observed across RNA inputs for RT reactions run immediately or after 24 hours.

Learn more at thermofisher.com/ssv

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