

invitrogen



Unleash discovery
More choices. Better results.

Newly expanded portfolio of
predefined siRNA libraries

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Invitrogen™ predefined siRNA libraries empower your research

With our expanded line of Invitrogen™ Ambion™ *Silencer*™ and *Silencer*™ Select siRNA cataloged libraries, researchers are empowered to expedite discovery with gene targets and perform siRNA screens with speed, precision, and accuracy.

Our premium siRNAs are designed to provide superior results for your loss-of-function studies, helping you achieve your goals and get published. We synthesize all siRNAs in-house to exacting quality standards. All *Silencer* and *Silencer* Select siRNA libraries, whether predefined or custom-made, are supplied with full siRNA sequence information and, when available, with siRNA validation data.

Maximize your output with:

- Ultimate flexibility in technology and gene targets
- Faster data turnaround from discovery to functional validation
- Comprehensive siRNA libraries from whole genome to predefined
- One-stop shopping for screening, discovery, and editing

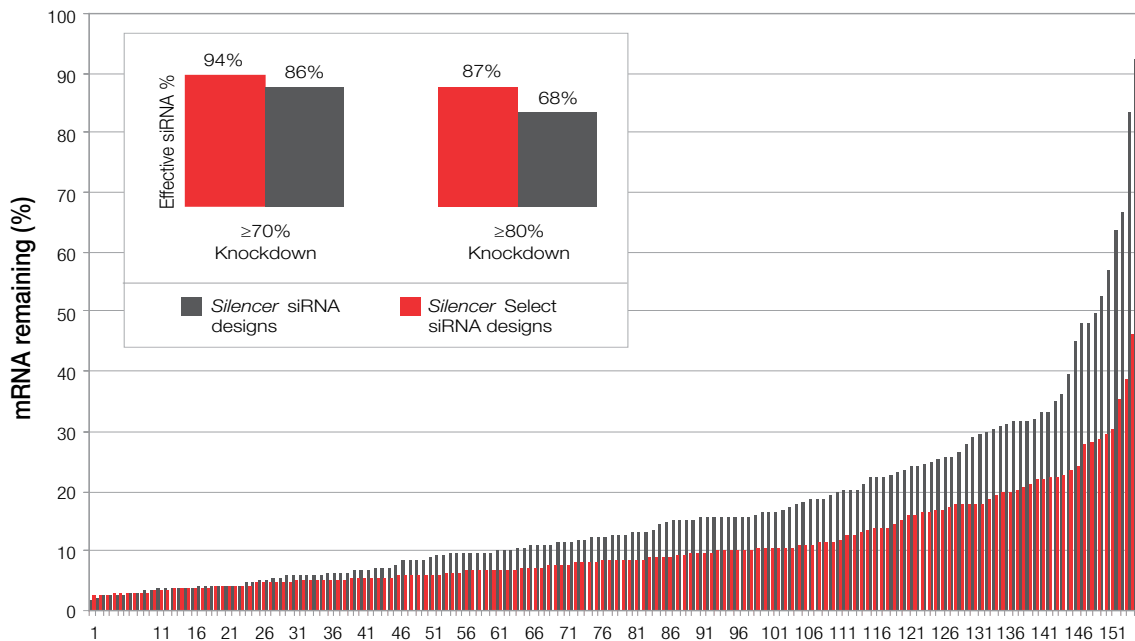


Figure 1. *Silencer* Select siRNA design algorithm significantly improves effective siRNA prediction accuracy. The *Silencer* Select siRNA design algorithm was used to design 155 siRNAs to 40 different targets. These siRNAs were tested side by side with siRNAs designed using the previous algorithm at 5 nM in HeLa cells. mRNA knockdown was measured 48 hours posttransfection via qRT-PCR using Applied Biosystems™ TaqMan™ Gene Expression Assays. Results are expressed as a percent of mRNA remaining compared to *Silencer* Select Negative Control #1 siRNA-treated cells. The inset shows the percentage of siRNAs that elicited ≥70% and ≥80% mRNA knockdown.



Predefined siRNA libraries provide guaranteed efficacy, specificity, and potency*

- Fewer false negatives due to poor silencing and fewer false positives due to off-target impacts
- Clean and consistent data from primary screens
- Helps save time and minimize resources needed to confirm true validated target

Invitrogen™ Ambion™ siRNAs deliver proven reliability

- Effective delivery and superior knockdown across cell lines
- Maintain consistency in phenotypes with fewer off-target effects
- Enhanced potency and specificity with LNA-modified *Silencer Select* siRNA

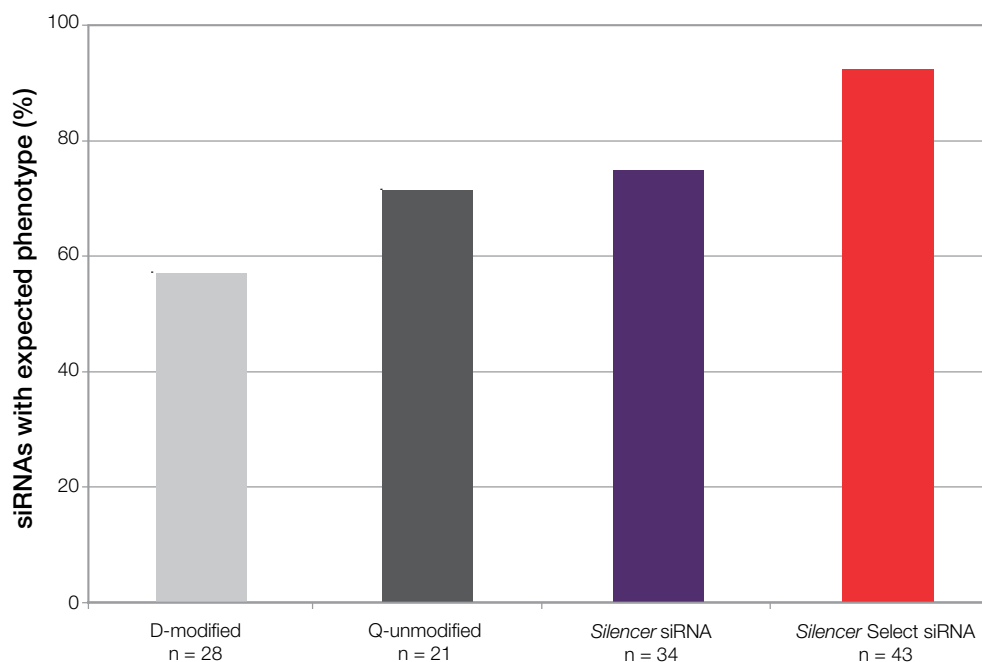


Figure 2. *Silencer Select* siRNAs elicit expected phenotype at a higher rate than other siRNAs. siRNAs to seven gene targets with well understood RNAi-induced phenotypes were individually transfected at 3 nM and phenotypes measured 48 hours later. Each bar represents the percent of siRNAs that gave the expected, silenced phenotype. siRNAs to BUB1B, AURKB, WEE1, and PLK1 were assessed using a multiparametric cell growth/apoptosis assay in U2OS human osteosarcoma cells. siRNAs to HMGCR, LDLR, and FDFT 1 were assessed using an LDL uptake assay in HUH7 human hepatoma cells.

Predefined libraries—comprehensive screening solutions

Ordering information

Product	Quantity	Cat. No.
Silencer Select siRNA: highest knockdown, lowest off-target effects**		
<i>Silencer Select Human Epigenetics siRNA</i>	0.25 nmol	A30085
<i>Silencer Select Human Transcription factor siRNA</i>	0.25 nmol	A30087
<i>Silencer Select Human DNA Damage Response siRNA</i>	0.25 nmol	A30089
<i>Silencer Select Human Drug Targets siRNA (384-well)</i>	0.25 nmol	A30091
<i>Silencer Select Human Drug Targets siRNA (96-well)</i>	0.25 nmol	A30092
<i>Silencer Select Human Apoptosis siRNA</i>	0.25 nmol	A30095
<i>Silencer Select Human Drug Transporter siRNA</i>	0.25 nmol	A30133
<i>Silencer Select Human Cell Cycle Regulation siRNA</i>	0.25 nmol	A30136
<i>Silencer Select Human Membrane Trafficking siRNA</i>	0.25 nmol	A30138
<i>Silencer Select Human Ubiquitin siRNA</i>	0.25 nmol	A30140
<i>Silencer Select Human Cancer Genome siRNA</i>	0.25 nmol	A30142
<i>Silencer Select Human Cell Surface siRNA</i>	0.25 nmol	A30144
<i>Silencer Select Human Tumor Suppressor siRNA</i>	0.25 nmol	A30146
<i>Silencer Select Human long noncoding RNA (lncRNA) siRNA (96-well)</i>	0.25 nmol	A30148
<i>Silencer Select Human long noncoding RNA (lncRNA) siRNA (384-well)</i>	0.25 nmol	A30149
Silencer siRNA: good knockdown and cost-effective siRNA**		
<i>Silencer Human Genome siRNA</i>	0.25 nmol	A30076
<i>Silencer Human druggable Genome siRNA (96-well)</i>	0.25 nmol	A30077
<i>Silencer Human druggable Genome siRNA (384-well)</i>	0.25 nmol	A30078
<i>Silencer Human Kinase siRNA</i>	0.25 nmol	A30079
<i>Silencer Human Phosphatase siRNA</i>	0.25 nmol	A30080
<i>Silencer Human Protease siRNA</i>	0.25 nmol	A30081
<i>Silencer Human GPCR siRNA</i>	0.25 nmol	A30082
<i>Silencer Human Nuclear Hormone siRNA</i>	0.25 nmol	A30083
<i>Silencer Human Ion Channel siRNA</i>	0.25 nmol	A30084
<i>Silencer Human Epigenetics siRNA</i>	0.25 nmol	A30086
<i>Silencer Human Transcription factor siRNA</i>	0.25 nmol	A30088
<i>Silencer Human DNA Damage Response siRNA</i>	0.25 nmol	A30090
<i>Silencer Human Drug Targets siRNA (384-well)</i>	0.25 nmol	A30093
<i>Silencer Human Drug Targets siRNA (96-well)</i>	0.25 nmol	A30094
<i>Silencer Human Apoptosis siRNA</i>	0.25 nmol	A30096
<i>Silencer Human Drug Transporter siRNA</i>	0.25 nmol	A30135
<i>Silencer Human Cell Cycle Regulation siRNA</i>	0.25 nmol	A30137
<i>Silencer Human Membrane Trafficking siRNA</i>	0.25 nmol	A30139
<i>Silencer Human Ubiquitin siRNA</i>	0.25 nmol	A30141
<i>Silencer Human Cancer Genome siRNA</i>	0.25 nmol	A30143
<i>Silencer Human Cell Surface siRNA</i>	0.25 nmol	A30145
<i>Silencer Human Tumor Suppressor siRNA</i>	0.25 nmol	A30147

Request more information at thermofisher.com/sirnaquote

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*Terms and conditions apply. For complete details, go to thermofisher.com/rnaiguarantee

***Silencer Select* siRNAs for noncoding RNA (ncRNA) now enable ncRNA researchers for the first time to easily obtain siRNAs targeting any ncRNA. Custom siRNA libraries for noncoding RNAs (including for lncRNAs) are available. For information about all of our predefined and custom siRNA libraries, contact RNAiLibraries@lifetech.com

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