

siRNA Transfection Data

GeneSilencer™



Figure 1. NIH 3T3 cell lines stably expressing β -galactosidase were transfected with the fluorescent anti-lacZ siRNA oligos using the GeneSilencer™ Transfection Reagent. Approximately 50% of the cells were transfected with siRNA (green fluorescence). When stained with X-Gal, only cells that were not transfected with siRNAs stain positive for β -galactosidase (blue color). Cells that had uptaken siRNA (green fluorescence) did not show any visible X-Gal staining, showing that anti-lacZ siRNA oligos efficiently suppress β -galactosidase expression.



Figure 2. Logarithmically growing HeLa cells were transfected with anti-human lamin siRNA oligomers that have been fluorescently labeled with FITC (green). Two commercially available transfection reagents were used: (A) GeneSilencer™ (GTS), (B) Oligofectamine (Invitrogen), and (C) saline solution. The experiment was performed following the manufacturers' protocols. The images were taken 36 hours post transfection and all siRNAs that have not been uptaken were washed away. Fluorescently-labeled anti-lamin antibody (red) was used to examine the lamin protein levels inside of the transfected cells. The highest amounts of lamin were found in the saline control (C), whereas the lowest lamin protein amounts were detected in the experiment where GeneSilencer™ reagent was used (A).

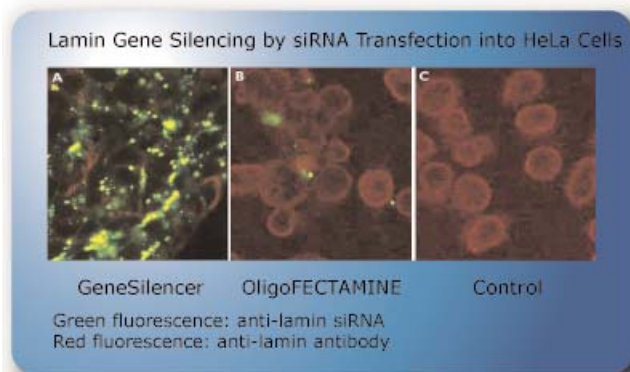
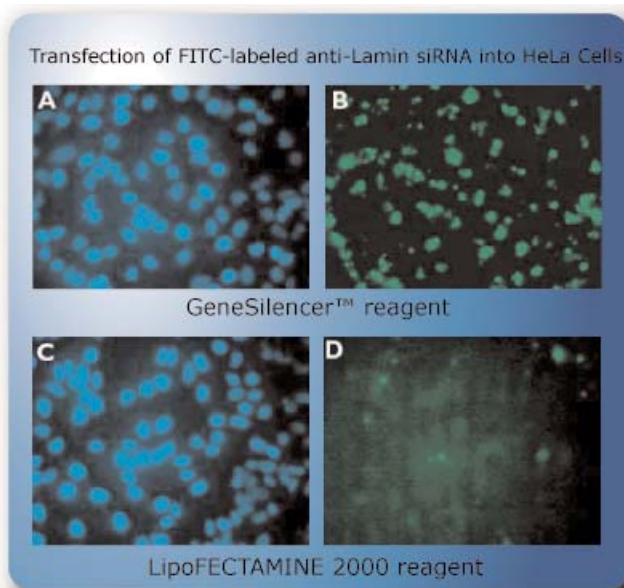


Figure 3. HeLa cells were transfected with fluorescent siRNA that target the human lamin transcript. Two different transfection reagents were used and nuclei were stained with DAPI (A and C). In B, the uptake of fluorescent siRNA oligomers was shown using the GeneSilencer siRNA Transfection Reagent (DAPI control was shown under A). In D, Lipofectamine 2000 from Invitrogen was used as the transfection reagent for the uptake of fluorescent siRNA (DAPI control was shown under C).



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