

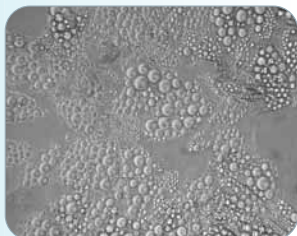


AdenoSilence™

Adenoviral shRNA Expression Vector Reagents

Advantages

- Increased delivery efficiency of RNAi content
- Can transduce both dividing and non-dividing cells
- Target genes cover all classes in the druggable genome
- Increased safety
- Single-step transduction of cells; no need for transfection reagents
- Long-term expression



Targeting the human druggable genome

Millipore's new AdenoSilence product line includes adenoviral shRNA expression vectors for RNAi knockdown experiments. Adenosilence vectors will increase delivery efficiency and knockdown persistence in a wide array of targeted genes including all the major protein classes amenable to small molecule intervention. The use of replication incompetent vectors ensures that these are safe reagents for use in the lab.

AdenoSilence vectors allow for single step delivery of shRNA through the direct application of the viral supernatants onto a primary cell culture, thereby making any additional transfection reagents or complex transfection protocols unnecessary. Human primary cells are the best systems to model disease and work well in target discovery programs reagents targeting the human druggable genome.

Targeted genes included in AdenoSilence product line:

- | | |
|------------------------------|-----------------------------|
| • Druggable/Secreted | • GPCRs |
| • Enzymes | • Ion Channels |
| Poly(ADP-ribose)transferases | • Kinases |
| Methyltransferases | • Nuclear Hormone Receptors |
| Choline acetyltransferases | • Receptors |
| Dehydrogenases | • Transporters |
| Deacetylases | |
| Phospholipases | |
| Proteases | |

Long-term Gene Expression

AdenoSilence reagents are highly efficient and typically silence the gene of interest for more than 10 days. This extended knockdown duration supports longer-term assay protocols, such as differentiation assays, and simplifies the scheduling of assay runs.

Performance

Transduction Efficiency in Human Neuroblastoma Cells (SH-SY5Y)[†]

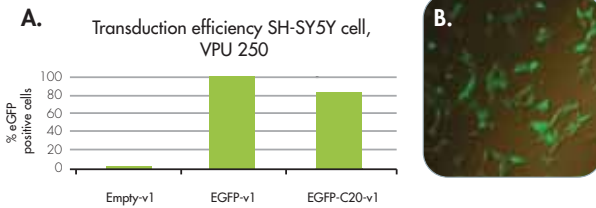


Figure A. AdenoSilence EGFP-v1 and hCAR-CO-v1 show >80% transduction efficiency measured by FACS analysis 72 h post infection.
Figure B. AdenoSilence EGFP-v1, VPU 250 72 h post infection.

Transduction Efficiency in Human Primary Adipocytes[†]

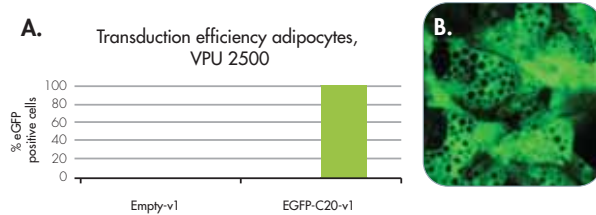


Figure A. AdenoSilence EGFP-C20-v1 shows 100% transduction efficiency determined by microscope analysis 72 h post infection.
Figure B. AdenoSilence EGFP-C20-v1, VPU 2500, 72 h post infection.

AdenoSilence Controls and Ordering Information

Description	Pack Size**	Cat. No.
AdenoSilence Complete RNAi Control Kit	1 Kit	GAL00108
AdenoSilence RNAi Control Empty-v1*	500 µl	GAL00100-v1
AdenoSilence RNAi Control Lucv1*	500 µl	GAL00101-v1
AdenoSilence RNAi Control eGFP-v1*	500 µl	GAL00104-v1
AdenoSilence RNAi Control eGFP-C20-v1*	500 µl	GAL00106-v1
AdenoSilence RNAi Control hCAR-C20-v1*	500 µl	GAL00107-v1
AdenoSilence RNAi Control LacZ-v1	500 µl	GAL00105-v1
AdenoSilence RNAi Control eGFP-v5	500 µl	GAL00102-v5

[†] Data generated by Biofocus DPI

*Part of AdenoSilence Complete RNAi Control Kit

**Individual viruses supplied as 500 µl of crude viral lysate at a concentration of at least 5 x 10⁸ viral particles per mL

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Full Array of Drug Discovery Products

These AdenoSilence vectors are available in three different sequence variants sold individually or as a kit containing all three variants. The targets were chosen to complement Millipore's current offering of drug discovery-based products and services. Millipore provides complete solutions for RNAi experimentation by offering products to deliver the RNAi reagent, measure the knockdown, and analyze the downstream effects with functional assays.

Guarantee

The viral titer of the sample provided will be at least 5x10⁸ viral particles per milliliter (VPU) and the exact titer for each individual virus will be listed on the certificate of analysis that is provided with each virus.

For each AdenoSilence kit, containing 3 unique adenoviral shRNA constructs targeting the same gene, we ensure that at least one of the three constructs will show 70% knockdown or more of the target gene mRNA as compared to background in cells amenable to high transduction efficiencies.

AdenoSilence Gene Specific Products and Ordering Information

Description	Pack Size**	Cat. No.
AdenoSilence RNAi virus	500 µl	Inquire
AdenoSilence RNAi kit	3 viruses	Inquire

To see a complete product listing and to learn more about how AdenoSilence can help increase RNAi delivery and knockdown persistence in a wide variety of difficult to transfect cell lines, please visit

www.millipore.com/upstate.

upstate

now part of Millipore