

Adenoviral Knockdown Virus Data Sheet

Vector Information

Vector: E1/E3 deleted adenoviral serotype 5 vector
 Expression cassette: shRNA under control of human U6 promoter

Target Information

Target Gene: IER3
 Specimen: Homo sapiens
 RefSeq#: NM_003897

Validation

Validation Method: qRT-PCR, Relative Quantification
 Cell line used for validation: A549
 RNA prepared: 48h post transduction
 Total RNA used in RT: 1 µg
 cDNA Primer: Random Hexamer
 Real Time Platform: Light Cycler 480 (Roche)
 Detection Method: SYBR I
 Reference Gene: ACTB
 Amplicon Integrity verified by: Melting Point Analysis

Results

Viral vector	Target mRNA expression rel. to Ctrl
Ad 246	23%
Ad 247	22%
Ad 248	52%
Ad 249	12%

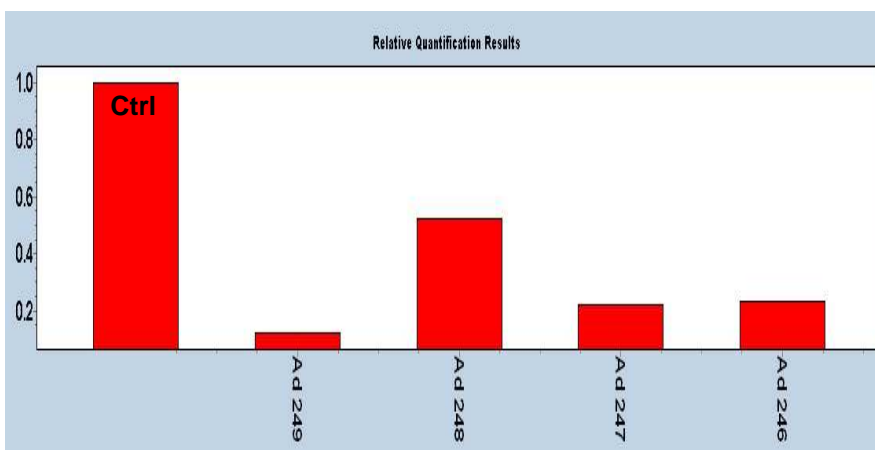


Figure 1

Reduction of IER3-mRNA 48h after transduction with 4 different target-specific shRNAs in comparison to cells transduced with control vector (Ctrl).

Adenoviral Knockdown Virus Data Sheet

Vector Information

Vector: E1/E3 deleted adenoviral serotype 5 vector
 Expression cassette: shRNA under control of human U6 promoter

Target Information

Target Gene: B
 Specimen: 0
 RefSeq#: NM_

Validation

Validation Method: qRT-PCR, Relative Quantification
 Cell line used for validation: A549
 RNA prepared: 48h post transduction
 Total RNA used in RT: 1 µg
 cDNA Primer: Random Hexamer
 Real Time Platform: Light Cycler 480 (Roche)
 Detection Method: SYBR I
 Reference Gene: Topoisomerase 1 (TOP1)
 Amplicon Integrity verified by: Melting Point Analysis

Results

	CP Target	CP Ref	Delta CP	Delta CP rel to Ctrl	%Target expr rel to Ctrl
Ctrl	20,92	21,75	-0,82	0,00	100%
shRNA 1	24,70	22,99	1,71	2,54	17%
shRNA 2	23,84	21,38	2,46	3,28	10%
shRNA 3	23,20	21,84	1,36	2,19	22%
shRNA 4	23,60	21,64	1,96	2,79	14%

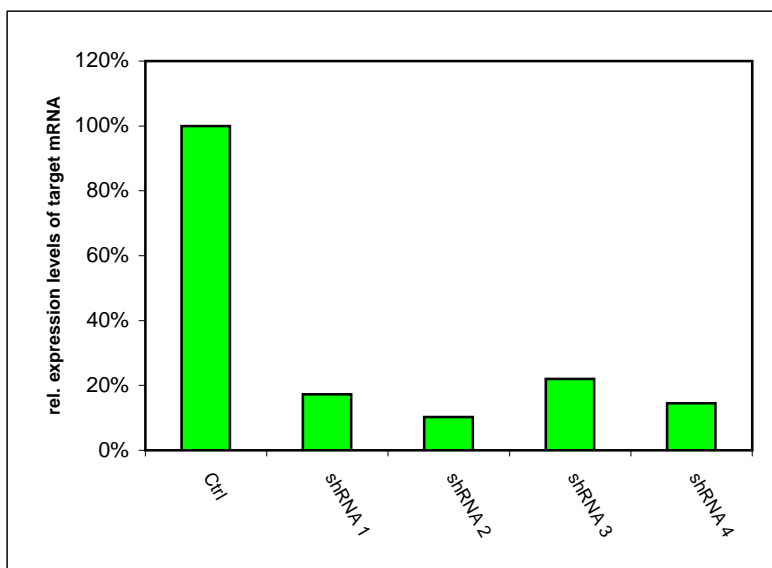


Figure 1

Reduction of B-mRNA
 48h after transduction with
 adenoviral vectors expressing
 4 different target-specific
 shRNAs in comparison to cells
 transduced with control vector

Adenoviral Knockdown Virus Data Sheet

Vector Information

Vector: E1/E3 deleted adenoviral serotype 5 vector
 Expression cassette: shRNA under control of human U6 promoter

Target Information

Target Gene: C
 Specimen: 0
 RefSeq#: NM_

Validation

Validation Method: qRT-PCR, Relative Quantification
 Cell line used for validation: A549
 RNA prepared: 48h post transduction
 Total RNA used in RT: 1 µg
 cDNA Primer: Random Hexamer
 Real Time Platform: Light Cycler 480 (Roche)
 Detection Method: SYBR I
 Reference Gene: Topoisomerase 1 (TOP1)
 Amplicon Integrity verified by: Melting Point Analysis

Results

	CP Target	CP Ref	Delta CP	Delta CP rel to Ctrl	%Target expr rel to Ctrl
Ctrl	20,92	21,80	-0,88	0,00	100%
shRNA 1	24,70	23,22	1,48	2,36	20%
shRNA 2	23,84	21,45	2,39	3,27	10%
shRNA 3	23,20	22,32	0,88	1,76	30%
shRNA 4	23,60	21,66	1,95	2,82	14%

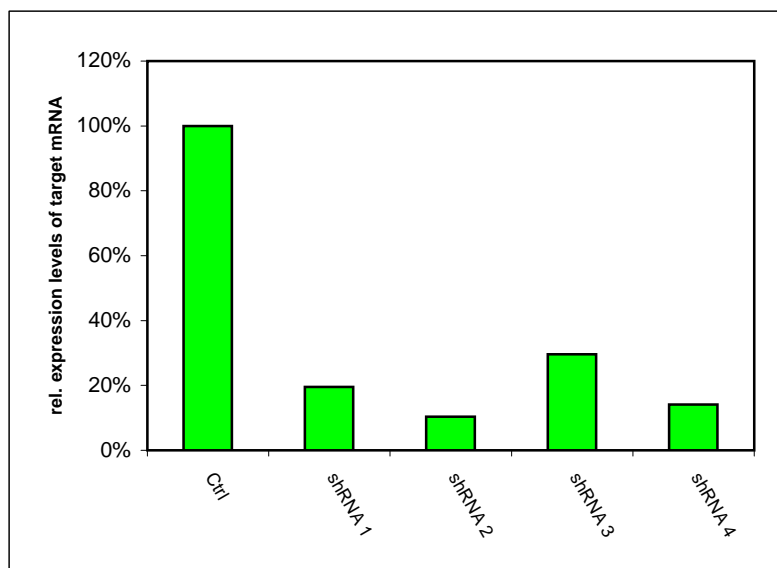


Figure 1

Reduction of C-mRNA
 48h after transduction with
 adenoviral vectors expressing
 4 different target-specific
 shRNAs in comparison to cells
 transduced with control vector

Adenoviral Knockdown Virus Data Sheet

Vector Information

Vector: E1/E3 deleted adenoviral serotype 5 vector
 Expression cassette: shRNA under control of human U6 promoter

Target Information

Target Gene: D
 Specimen: 0
 RefSeq#: NM_

Validation

Validation Method: qRT-PCR, Relative Quantification
 Cell line used for validation: A549
 RNA prepared: 48h post transduction
 Total RNA used in RT: 1 µg
 cDNA Primer: Random Hexamer
 Real Time Platform: Light Cycler 480 (Roche)
 Detection Method: SYBR I
 Reference Gene: Topoisomerase 1 (TOP1)
 Amplicon Integrity verified by: Melting Point Analysis

Results

	CP Target	CP Ref	Delta CP	Delta CP rel to Ctrl	%Target expr rel to Ctrl
Ctrl	20,92	21,75	-0,82	0,00	100%
shRNA 1	22,00	22,99	-0,99	-0,17	112%
shRNA 2	23,84	21,38	2,46	3,28	10%
shRNA 3	23,20	21,84	1,36	2,19	22%
shRNA 4	0,00	0,00	0,00	0,82	56%

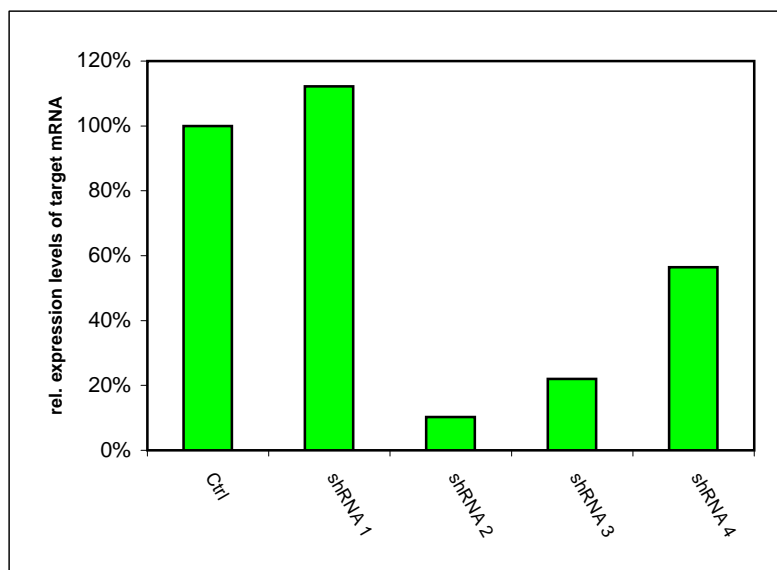


Figure 1

Reduction of D-mRNA
 48h after transduction with
 adenoviral vectors expressing
 4 different target-specific
 shRNAs in comparison to cells
 transduced with control vector

Adenoviral Knockdown Virus Data Sheet

Vector Information

Vector: E1/E3 deleted adenoviral serotype 5 vector
 Expression cassette: shRNA under control of human U6 promoter

Target Information

Target Gene: E
 Specimen: 0
 RefSeq#: NM_

Validation

Validation Method: qRT-PCR, Relative Quantification
 Cell line used for validation: A549
 RNA prepared: 48h post transduction
 Total RNA used in RT: 1 µg
 cDNA Primer: Random Hexamer
 Real Time Platform: Light Cycler 480 (Roche)
 Detection Method: SYBR I
 Reference Gene: Topoisomerase 1 (TOP1)
 Amplicon Integrity verified by: Melting Point Analysis

Results

	CP Target	CP Ref	Delta CP	Delta CP rel to Ctrl	%Target expr rel to Ctrl
Ctrl	20,92	21,75	-0,82	0,00	100%
shRNA 1	24,70	22,99	1,71	2,54	17%
shRNA 2	23,84	21,38	2,46	3,28	10%
shRNA 3	23,20	21,84	1,36	2,19	22%
shRNA 4	23,60	21,64	1,96	2,79	14%

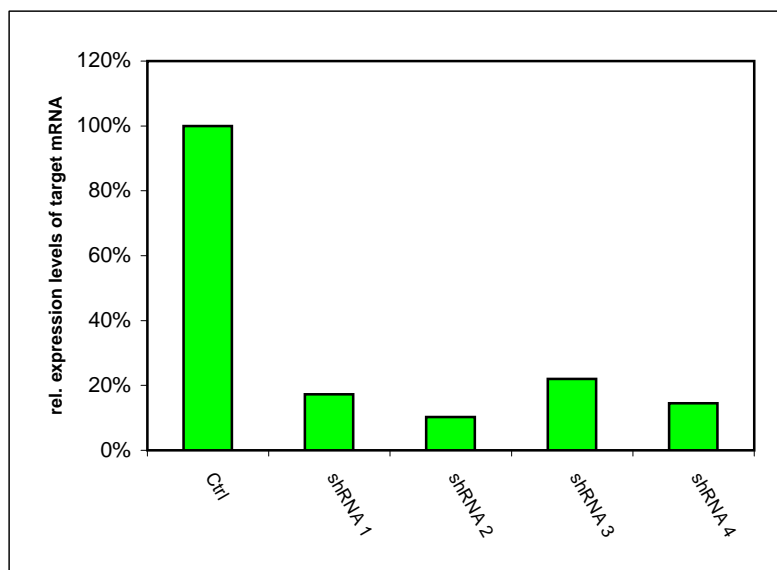


Figure 1

Reduction of E-mRNA
 48h after transduction with
 adenoviral vectors expressing
 4 different target-specific
 shRNAs in comparison to cells
 transduced with control vector