18.03.2009

Adenoviral Knockdown Virus Data Sheet

Vector Information

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

Target Information

Target Gene:	EGFR
Specimen:	Homo sapiens
RefSeq#:	NM_005228

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 I
Amplicon Integrity verified by:	Melting Point Analysis

Results

Viral vector	Target mRNA expression rel. To Ctrl
Ad 157	0%
Ad 158	33%
Ad 159	10%

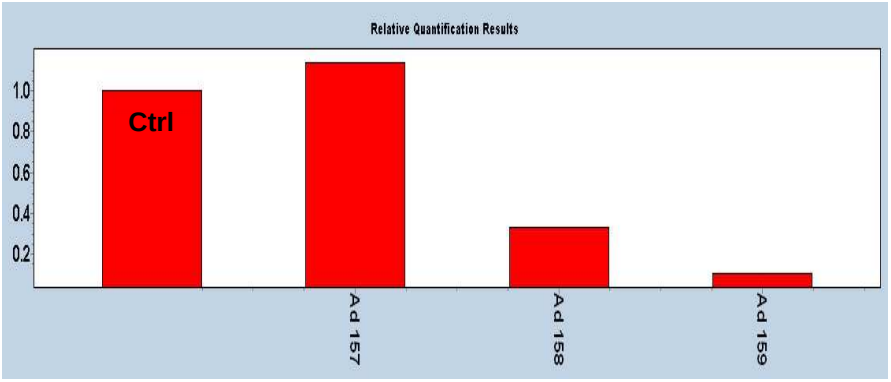

Figure 1
Reduction of EGFR-mRNA 48h after transduction with adenoviral vectors expressing 3 different target-specific shRNAs in comparison to cells transduced with control vector

18.03.2009

Adenoviral Knockdown Virus Data Sheet

Vector Information

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

Target Information

Target Gene:	CDK5
Specimen:	Homo sapiens
RefSeq#:	NM_0001909

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 I
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	23,38	22,03	1,35	0,00	100%
shRNA 1	26,63	21,90	4,73	3,37	10%
shRNA 2	0,00	0,00	0,00	-1,35	256%
shRNA 3	0,00	0,00	0,00	-1,35	256%
shRNA 4	0,00	0,00	0,00	-1,35	256%

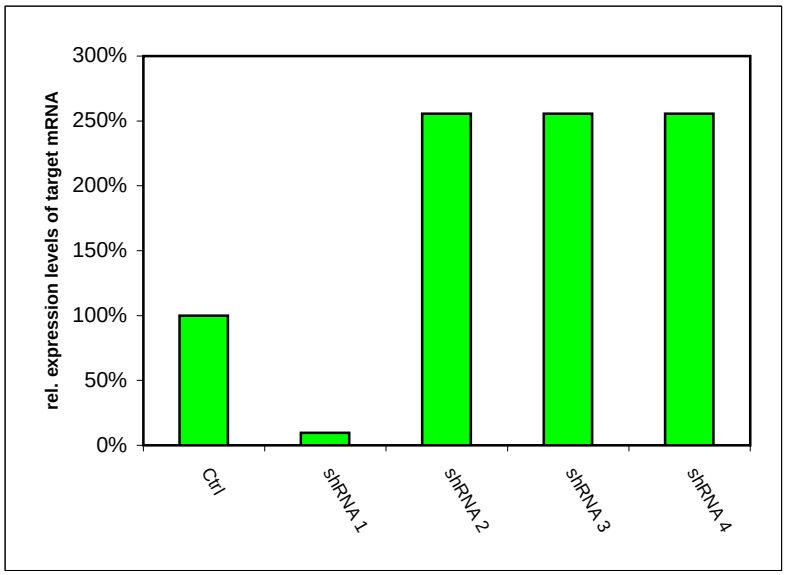

Figure 1
Reduction of CDK5-mRNA 48h after transduction with adenoviral vectors expressing 4 different target-specific shRNAs in comparison to cells transduced with control vector

18.03.2009

Adenoviral Knockdown Virus Data Sheet

Vector Information

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

Target Information

Target Gene:	BIRC3
Specimen:	Homo sapiens
RefSeq#:	NM_001165

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 I
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	24,98	22,03	2,95	0,00	100%
shRNA 1	27,89	21,90	5,99	3,04	12%
shRNA 2	27,78	22,51	5,27	2,32	20%
shRNA 3	25,91	22,13	3,78	0,82	56%
shRNA 4	0,00	0,00	0,00	-2,95	773%

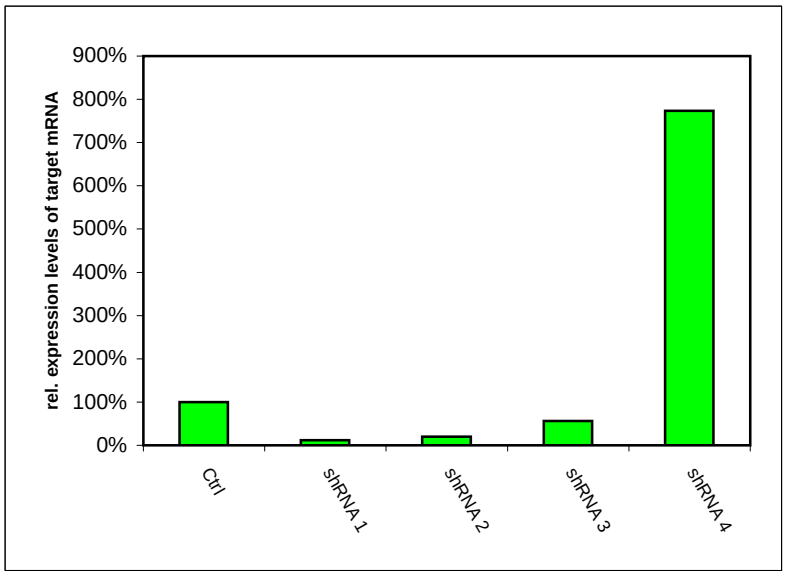

Figure 1
Reduction of BIRC3-mRNA 48h after transduction with adenoviral vectors expressing 4 different target-specific shRNAs in comparison to cells transduced with control vector

18.03.2009

Adenoviral Knockdown Virus Data Sheet

Vector Information

Vector:	E1/E3 deleted adenoviral serotype 5 vector
Expression casette:	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 I
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	0,00	0,00	0,00	0,00	100%
shRNA 1	0,00	0,00	0,00	0,00	100%
shRNA 2	0,00	0,00	0,00	0,00	100%
shRNA 3	0,00	0,00	0,00	0,00	100%
shRNA 4	0,00	0,00	0,00	0,00	100%

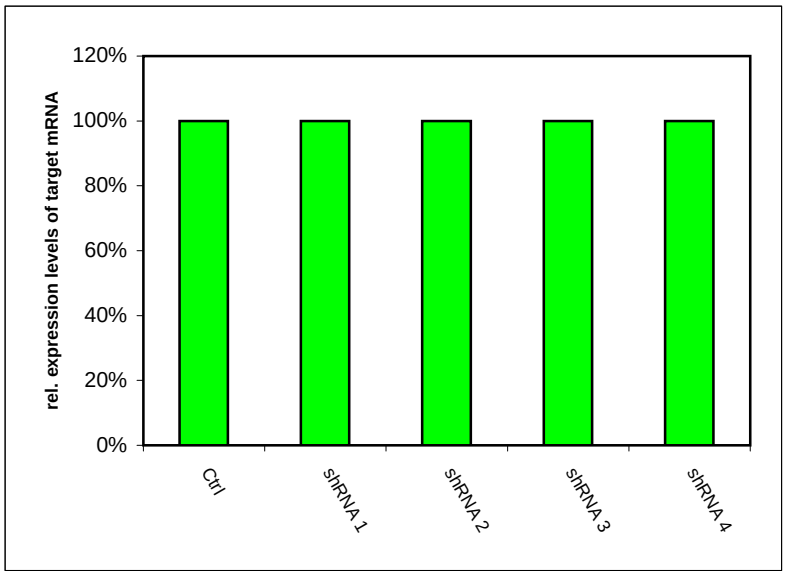

Figure 1
Reduction of D-mRNA 48h after transduction with adenoviral vectors expressing 4 different target-specific shRNAs in comparison to cells transduced with control vector

18.03.2009

Adenoviral Knockdown Virus Data Sheet

Vector Information

Vector:	E1/E3 deleted adenoviral serotype 5 vector
Expression casette:	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 I
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	0,00	0,00	0,00	0,00	100%
shRNA 1	0,00	0,00	0,00	0,00	100%
shRNA 2	0,00	0,00	0,00	0,00	100%
shRNA 3	0,00	0,00	0,00	0,00	100%
shRNA 4	0,00	0,00	0,00	0,00	100%

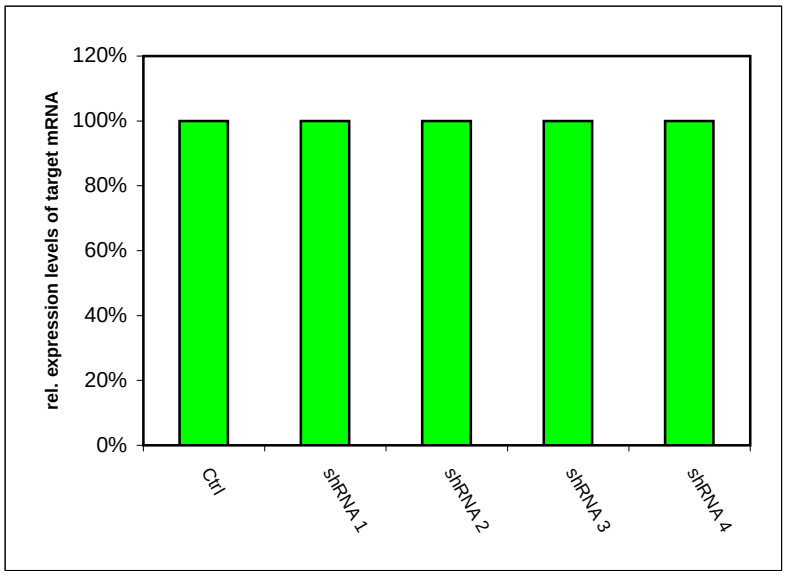

Figure 1
Reduction of E-mRNA 48h after transduction with adenoviral vectors expressing 4 different target-specific shRNAs in comparison to cells transduced with control vector