

Please cite:

A KLF4-miRNA-206
autoregulatory feedback
loop can promote or inhibit
protein translation
depending upon cell
context.

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Wonderlin WF, Ivanov AV,
Ruppert JM.

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Plasmid name: pMIR-L K7 S + pMIR-L K7 AS

Derivation / created by: SKB

KLF4 cDNA with 3'UTR in pMIR-Report

Date created: 7/14/06

Species: human

Genbank accession # AF105036

Gene: KLF4

Full-length?: yes Asp718 cuts within the 5' UTR of KLF4

Vector name: pMIR-REPORT Luc

Vector size: 6470 bp

Cloning sites: cut SCC7-1 KLF w/ SalI/Asp718, then Klenow; cut pMIR-REPORT
Luc w/ PmeI, then CIP

Insert size: 2.3 Kb (original = 2.6 Kb)

Antibiotic resistance (amp, kan, chloramph): 100ug/ml AMP

Bacterial strain: DH5α

Plasmid stock box # and location (row / column): sense box 9 / row 8 / column 3
anti-sense box 9 / row 8 / column 4

Diagnostic cut / band sizes: PstI sense orientation: 6404 bp + 2324 bp bands
anti-sense orientation: 7160 bp + 1568 bp bands

to generate stable cell lines that express pMIR-REPORT if this is required for your research. For most applications, transient expression is sufficient, and antibiotic selection is not needed.

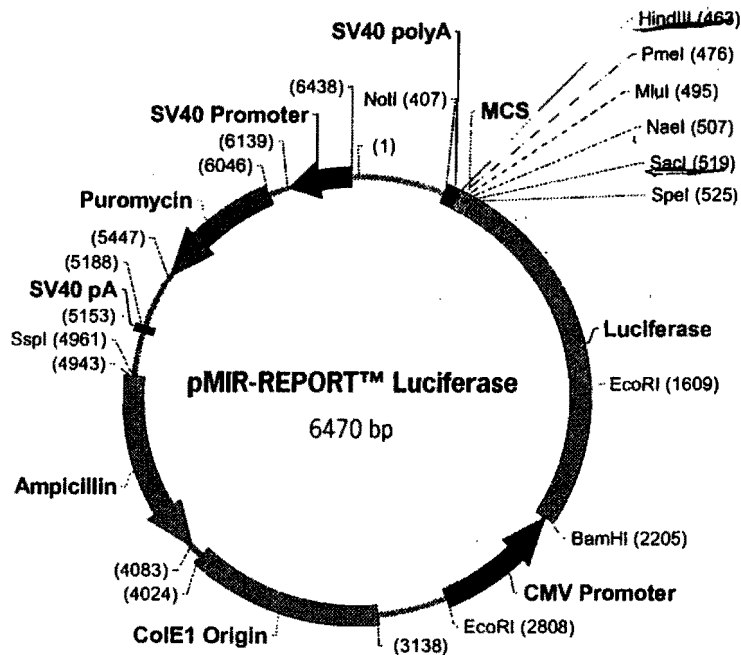


Figure 1. pMIR-REPORT Luciferase

CMV Promoter: 2210-2813	Puromycin: 5447-6046
Luciferase: 540-2210	SV40 pA signal: 5153-5188
MCS: 467-539	Ampicillin: 4083-4943
SV40 Poly(A): 404-467	ColE1 Origin: 3138-4024
SV40 Promoter: 6139-6438	

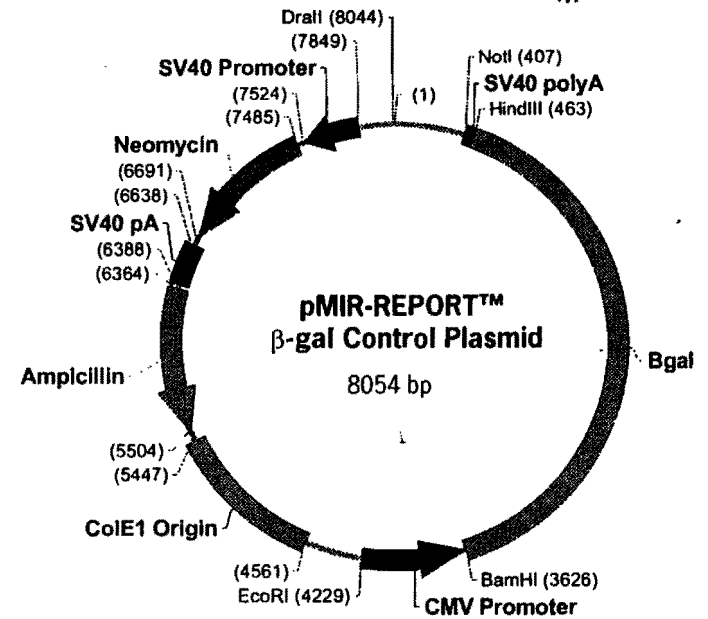


Figure 2. pMIR-REPORT beta-gal Control Plasmid

CMV Promoter: 3627-4232	Neomycin: 6691-7485
beta-gal: 463-3627	SV40 pA signal: 6388-6638
SV40 Poly(A): 404-467	Ampicillin: 5504-6364
SV40 Promoter: 7524-7849	ColE1 Origin: 4561-5447

B. Components Supplied With pMIR-REPORT

Amount	Component	Storage
500 µl	pMIR-REPORT Luciferase in <i>E. coli</i>	-70°C
500 µl	pMIR-REPORT beta-gal Control Plasmid in <i>E. coli</i>	-70°C