

Plasmid name: pMIR-L K5 pMIR-Report-Luc-KLF4-K5S-Mt344B

Derivation / created by: SKB Please cite:  
A KLF4-miRNA-206 autoregulatory feedback loop can promote or inhibit protein translation depending upon cell context.  
Lin CC, Liu LZ, Addison JB, Wonderlin WF, Ivanov AV, Ruppert JM.  
Mol Cell Biol. 2011 Jun;31(12):2513-27. Epub 2011 Apr 25.  
PMID: 21518959

Date created: 3/3/06

Species: human

Genbank accession # AF105036

Gene: KLF4 306bp EcoRI frag from 3' UTR blunted w/ Klenow and inserted into the PmeI site of the vector

Full-length?: no

Vector name: pMIR-REPORT Luc

Vector size: 6470 bp

Cloning sites: cut KLF 300bp 3' UTR in HindIII/Pst pBEM1 (3/12/05) with EcoRI to pop out 300bp insert; <sup>then Klenow</sup> cut pMIR-REPORT Luc w/ PmeI/CIP

Insert size: 300bp

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

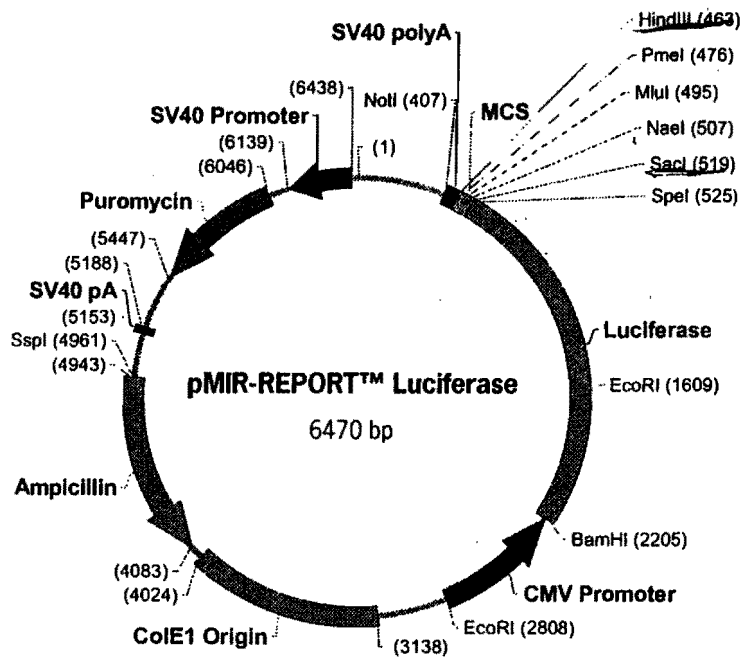
Bacterial strain: XL1 Blue

Plasmid stock box # and location (row / column): box 9 / row 5 / column 7

Diagnostic cut / band sizes: HindIII/SacI 356bp + 6.4kb (356bp band runs high)  
EcoRI correct orientation: 6129 bp, 375 bp, 266 bp (375bp + 266 bp bands run high)  
wrong: 6339 bp, 375 bp, 566 bp

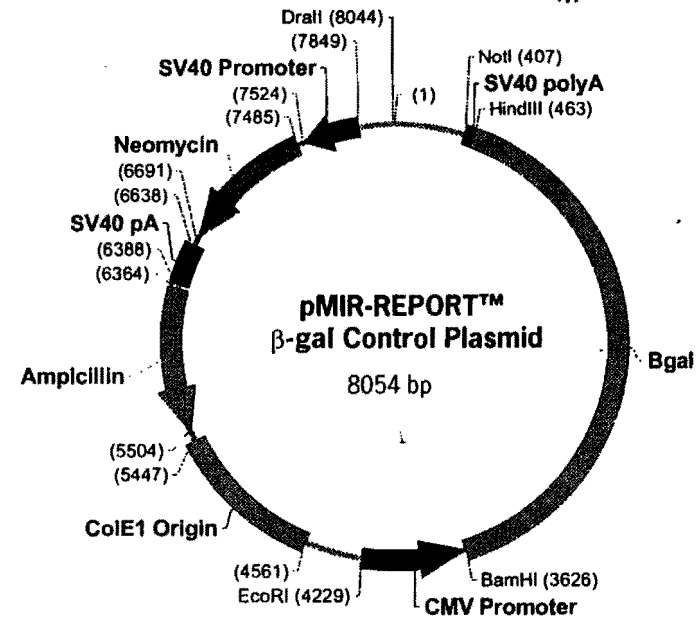
HindIII+SacI gives 356bp + 6.4kb bands

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 β-gal Control Plasmid**

|                          |                           |
|--------------------------|---------------------------|
| CMV Promoter: 3627–4232  | Neomycin: 6691–7485       |
| β-gal: 463–3627          | SV40 pA signal: 6388–6638 |
| SV40 Poly(A): 404–463    | 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 β-gal Control Plasmid in <i>E. coli</i> | -70°C   |