Plasmid name: pMIR-Report Luc
Derivation / created by: SLB
Date created: 3/3/06
Species: Human
Genbank accession #: AF105036
Gene: KLF4
Full-length ?: no
Vector name: pMIR REPORT Luc
Vector size: 6470 bp
Cloning sites: Cut KLF4 300bp 3' UTR in HindIII/NotI pGEM1 (3127bp) with EcoRI to pop out 300bp insert, cut pMIR REPORT Luc with 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 51 column 7
Diagnostic cut / band sizes: HindIII/SacI 356bp + 6.4kb (356bp band runs high)  
EcoRI 6129 bp, 3756 bp, 266 bp (3756bp 266bp bands run high)

pMIR-Report-Luc-KLF4-K5S-Mt344A
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 J M.
PMID: 21518959

By nested PCR mutagenesis of the wild type K5S construct. The mutated insert, generated by PCR, was cut with XhoI and HindIII sites that flank the mutated sequence and cloned into these sites of the WT pMIR-Report-Luc/K5S construct. The insert seq was confirmed by sequence analysis.
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
Luciferase: 540–2210
MCS: 467–539
SV40 Poly(A): 404–467
SV40 Promoter: 6139–6438
Puromycin: 5447–6046
SV40 pA signal: 5153–5188
Ampicillin: 4083–4943
ColE1 Origin: 3138–4024
Neomycin: 6691–7485
SV40 Poly(A): 6388–6638
SV40 Promoter: 7524–7849

B. Components Supplied With pMIR-REPORT

<table>
<thead>
<tr>
<th>Component</th>
<th>Amount</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>pMIR-REPORT Luciferase</td>
<td>500 µl</td>
<td>-70°C</td>
</tr>
</tbody>
</table>