A
Sanger sequencing the PCR products of TALEN targeted mixture cells
Left TALEN pair target
miR-24-1
Right TALEN pair target
CTCATTTTACACACTGGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCTTGAGCAAAAA
B
Marker
Mix cell
3000bp
1500bp
1000bp
500bp
400bp
300bp
200bp
100bp
C
Sanger sequencing the TA clones of miR-24-1 deletion#1
Total of 14 clones
miR-24-1
CTGATATCAGTTCTCATTTTACACACTGGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCTTGAGCAA
CTGATAT
CAGGAGTCGAG
CTGATATCAGTTCTCATTTTACACACTGGCTCAGTTCAG
CAGGAGTCGAG
D
Hsa-mir-24-3p sequence
Wild Type
TCC...GTTCTCATTTTACACACTGGCTCAGTTCAGCAGGAACAGGAGTCGAGC
Deletion# 2
24bp deletion
TCC...GTTCTCATTTTACACACTGGC
AGC
6bp deletion
TCC...GTTCTCATTTTACACACTGGCTCAGTTCA
ACAGGAGTCGAGC
Sanger sequencing TA clones of miR-24-1 deletion#2
Total of 11 clones
miR-24-1
TACACACTGGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCT
TACACACTGGCTCAGTTCAACAGG
AGTCGAGCCCT
TACACACTGGC
AGCCCT
E
HEK293T WT
miR-24-1 deletion#1
miR-24-1 overexpression
Relative expression
25
20
15
10
5
0
Empty Vector
0.25 ug
0.5 ug
1 ug
2 ug
miR-24-1 expression
F
HEK293T
0.25ug Pre-miR-24-1
0.5ug Pre-miR-24-1
1ug Pre-miR-24-1
2ug Pre-miR-24-1
HEK293T miR-24-1 Deletion#1
0.25ug Pre-miR-24-1
0.5ug Pre-miR-24-1
1ug Pre-miR-24-1
2ug Pre-miR-24-1
G
miR-24-1 overexpression
miR-24-1 deletion#2
Relative expression
50
40
30
20
10
2.0
1.5
1.0
0.5
0.0
miR-24-1
FBP1
FANCC
CCDC130
(miR-24-2 neighboring gene)