Figure 1

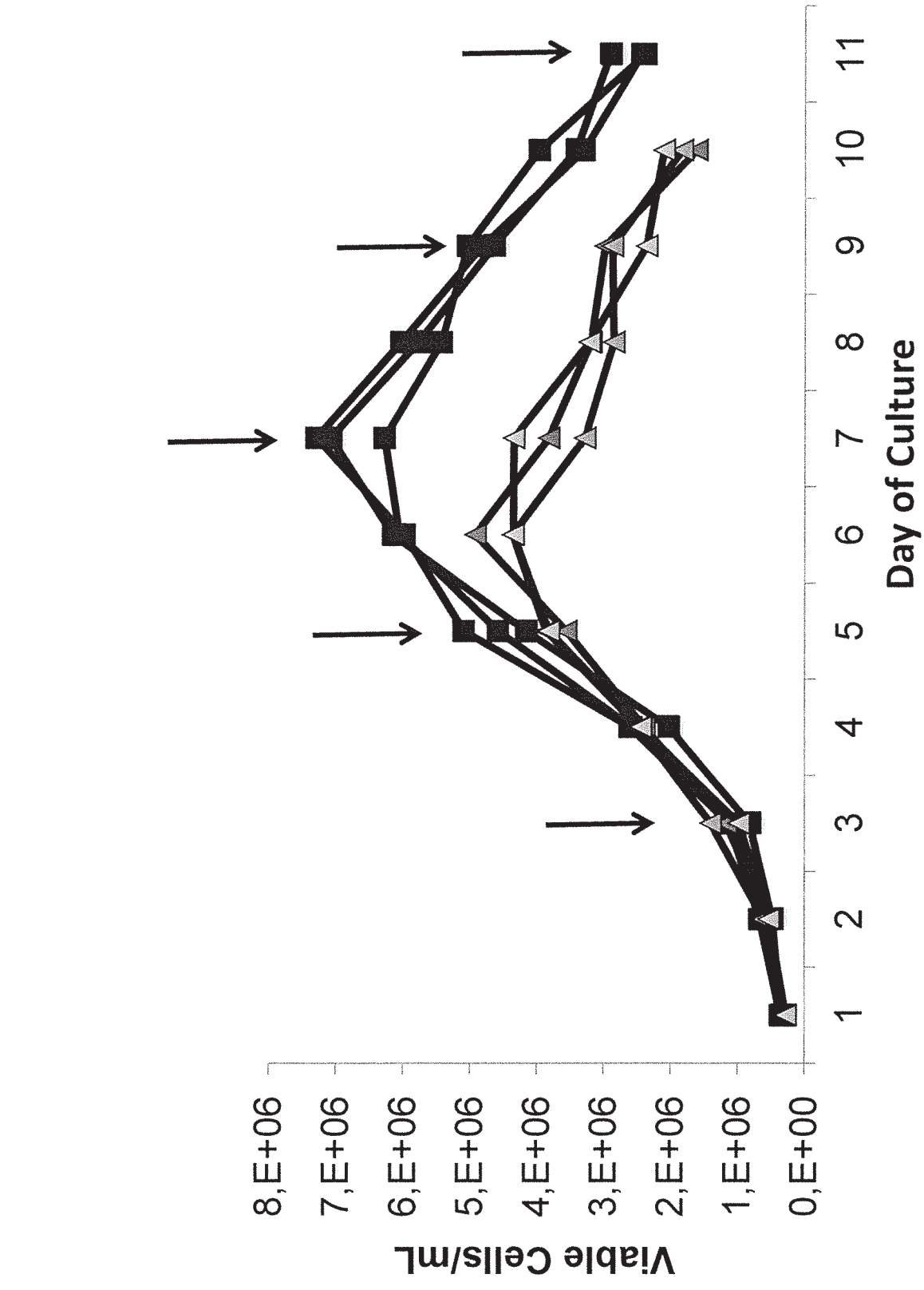
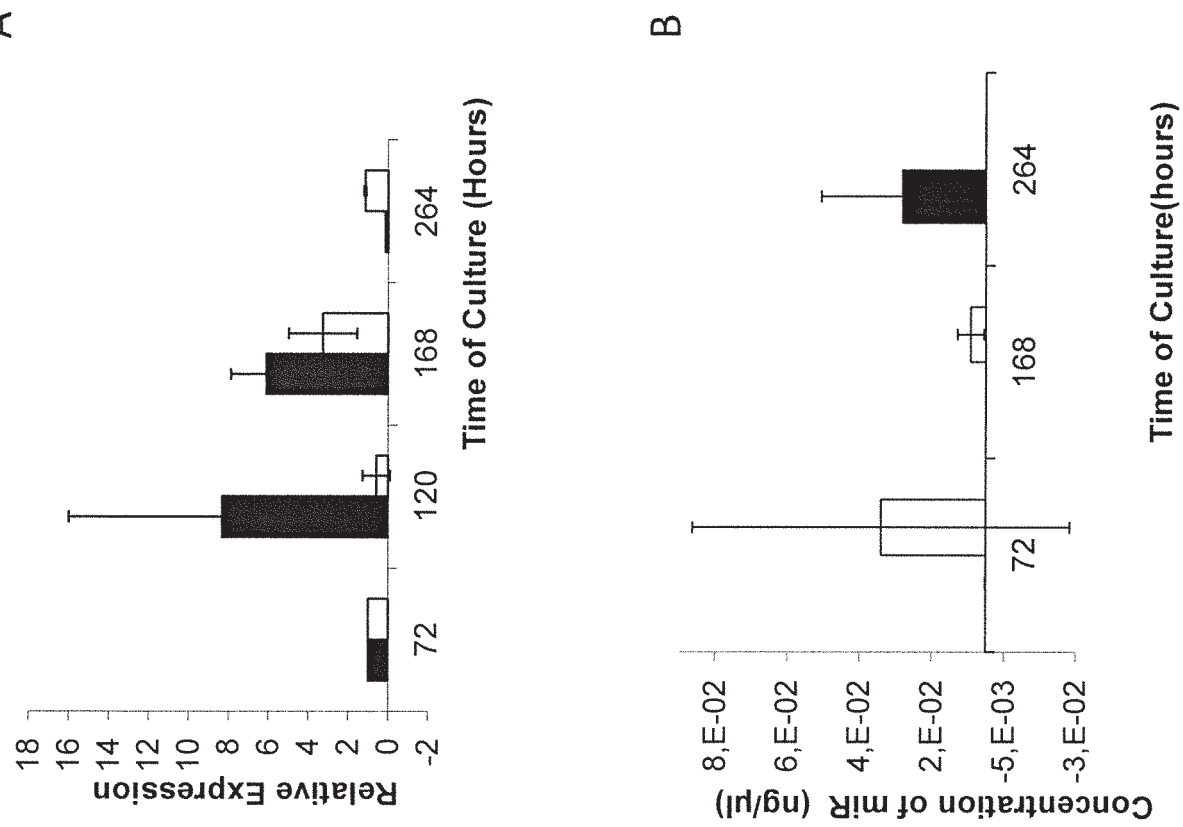
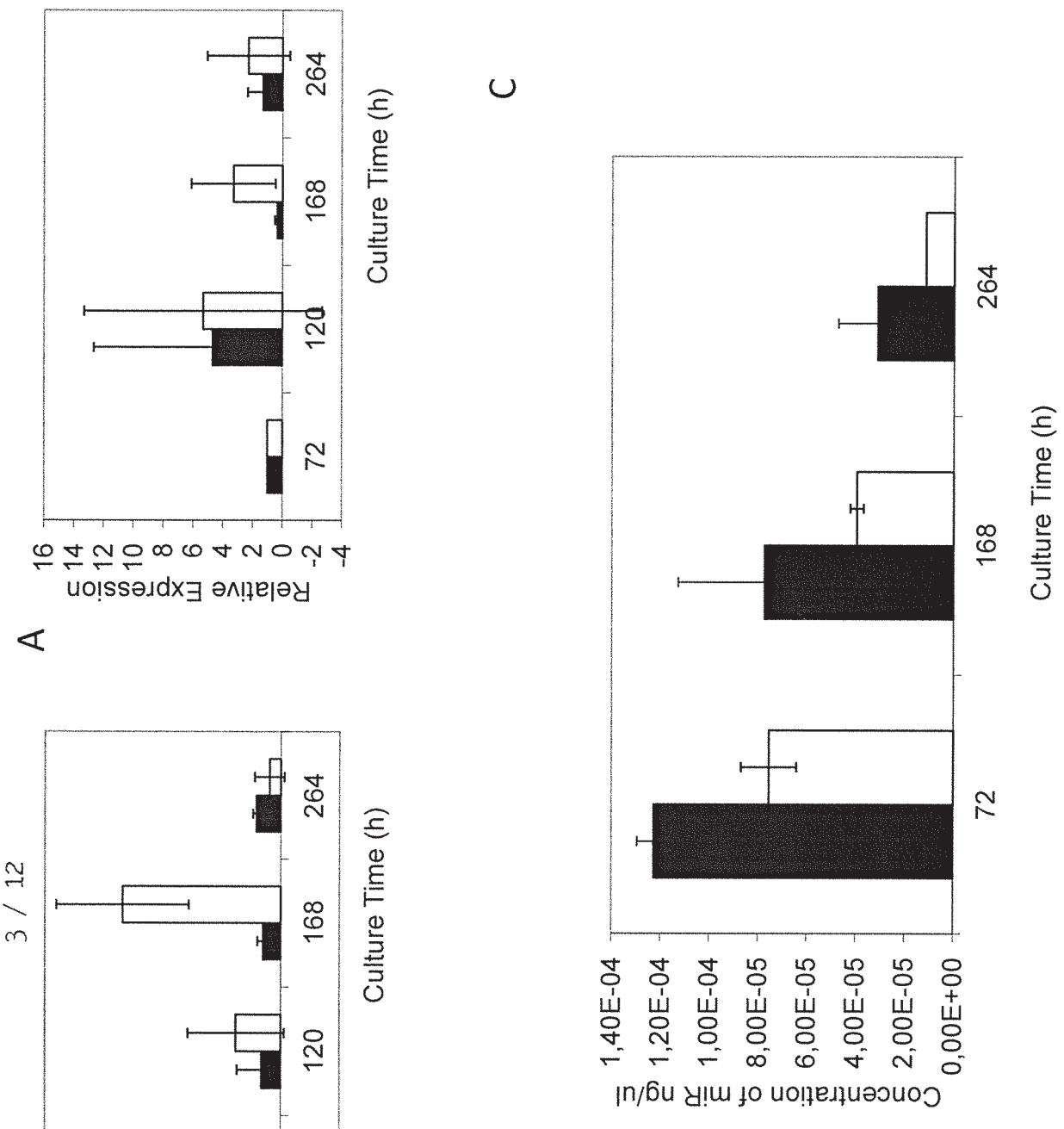

Viable Cells/mL
8,E+06
7,E+06
6,E+06
5,E+06
4,E+06
3,E+06
2,E+06
1,E+06
0,E+00
1
2
3
4
5
6
7
8
9
10
11
Day of Culture

Figure 2


A
Relative Expression
18
16
14
12
10
8
6
4
2
0
-2
72
120
168
264
Time of Culture (Hours)
B
Concentration of miR (ng/µl)
8,E-02
6,E-02
4,E-02
2,E-02
-5,E-03
-3,E-02
72
168
264
Time of Culture(hours)


A
Relative Expression
20
15
10
5
0
-5
72
120
168
264
Culture Time (h)
B
Relative Expression
16
14
12
10
8
6
4
2
0
-2
-4
72
120
168
264
Culture Time (h)
C
Concentration of miR ng/ul
1,40E-04
1,20E-04
1,00E-04
8,00E-05
6,00E-05
4,00E-05
2,00E-05
0,00E+00
72
168
264
Culture Time (h)

3 / 12

Figure 3

Figure 4

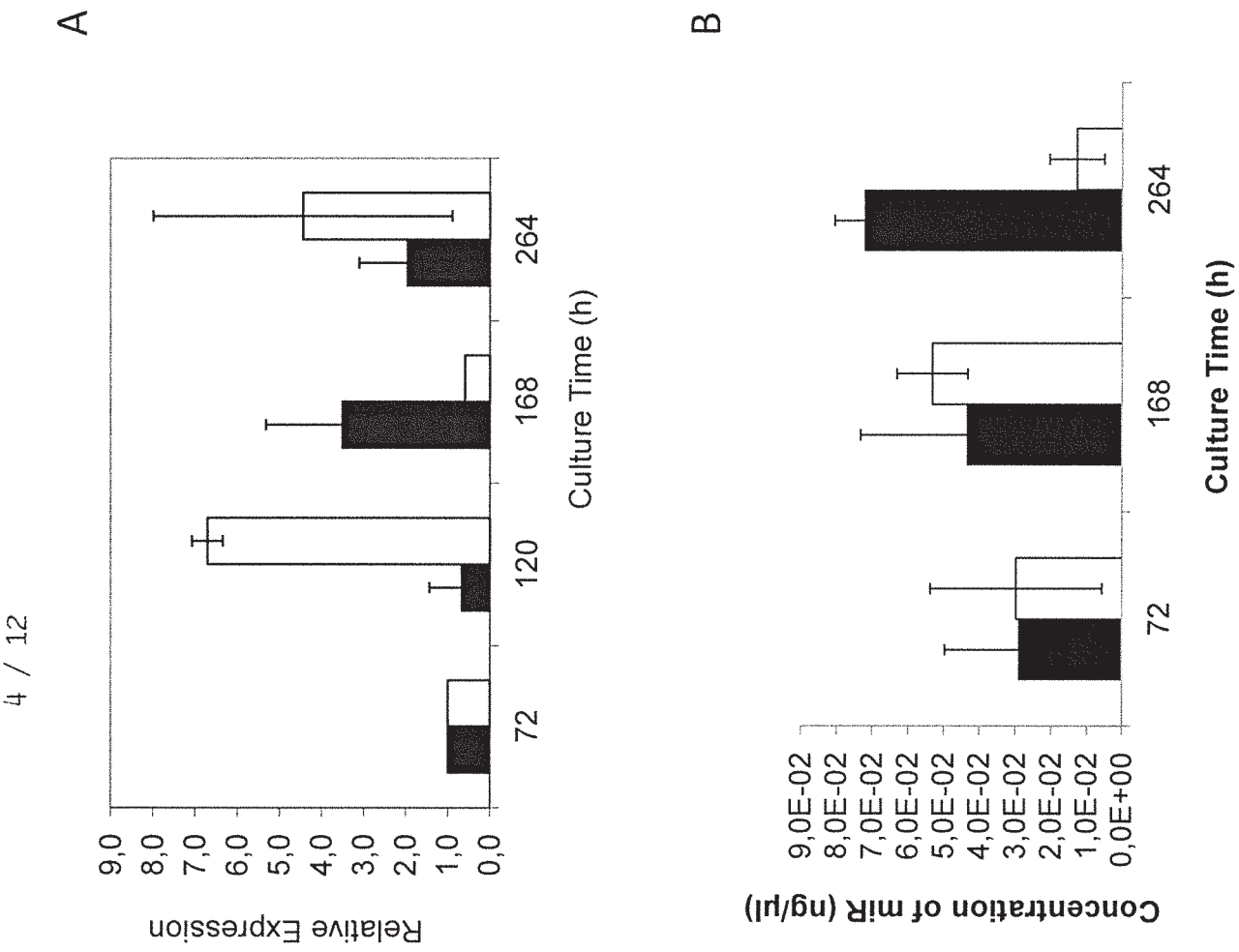

A
Relative Expression
9,0
8,0
7,0
6,0
5,0
4,0
3,0
2,0
1,0
0,0
72
120
168
264
Culture Time (h)
B
Concentration of miR (ng/µl)
9,0E-02
8,0E-02
7,0E-02
6,0E-02
5,0E-02
4,0E-02
3,0E-02
2,0E-02
1,0E-02
0,0E+00
72
168
264
Culture Time (h)

Figure 5

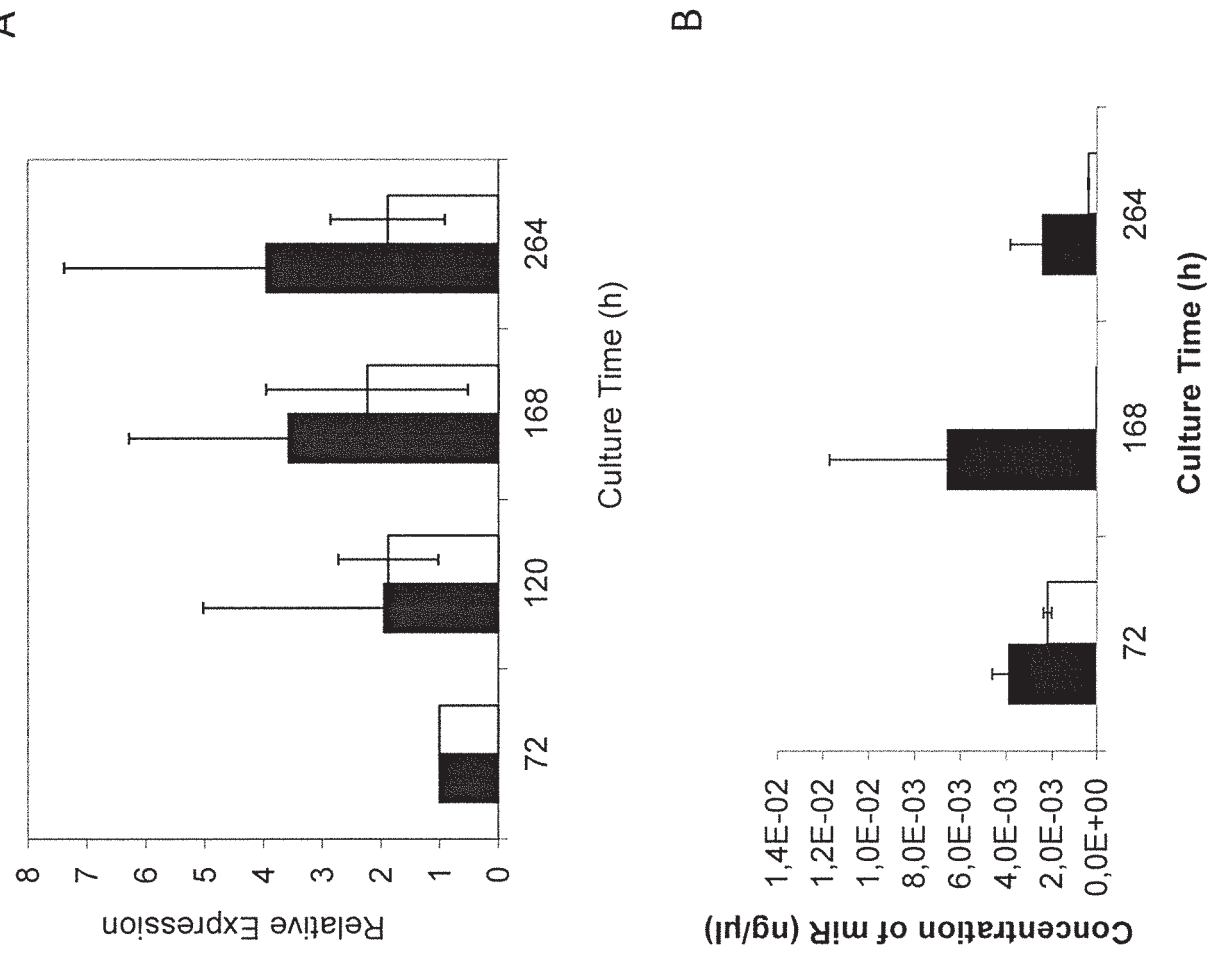
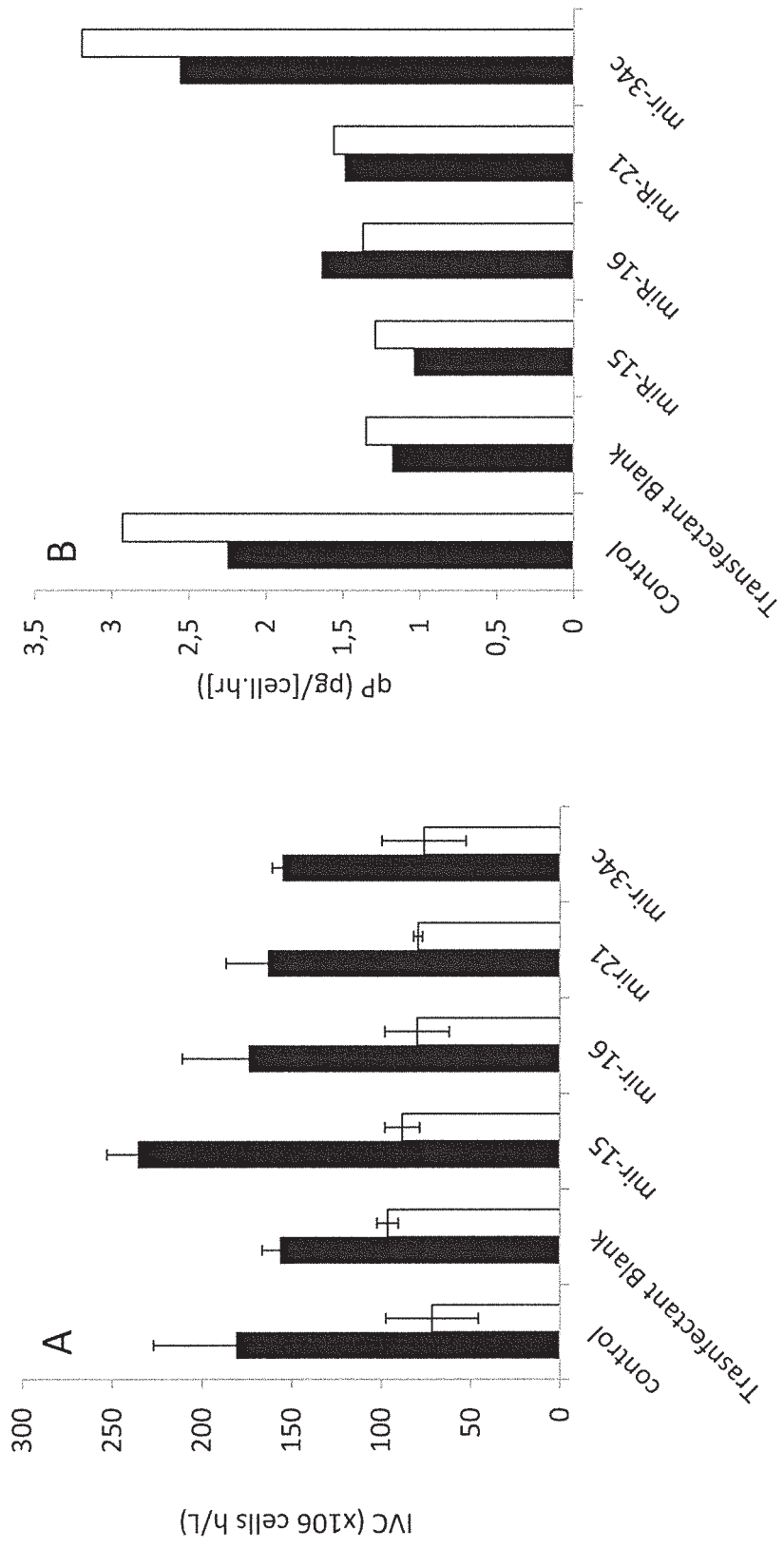

A
Relative Expression
0
1
2
3
4
5
6
7
8
72
120
168
264
Culture Time (h)
B
Concentration of miR (ng/µl)
0,0E+00
2,0E-03
4,0E-03
6,0E-03
8,0E-03
1,0E-02
1,2E-02
1,4E-02
72
168
264
Culture Time (h)

Figure 6


A
IVC (x106 cells h/L)
300
250
200
150
100
50
0
control
Trasnfectant Blank
mir-15
mir-16
mir21
mir-34c
B
qP (pg/[cell.hr])
3,5
3
2,5
2
1,5
1
0,5
0
Control
Transfectant Blank
mir-15
mir-16
mir-21
mir-34c

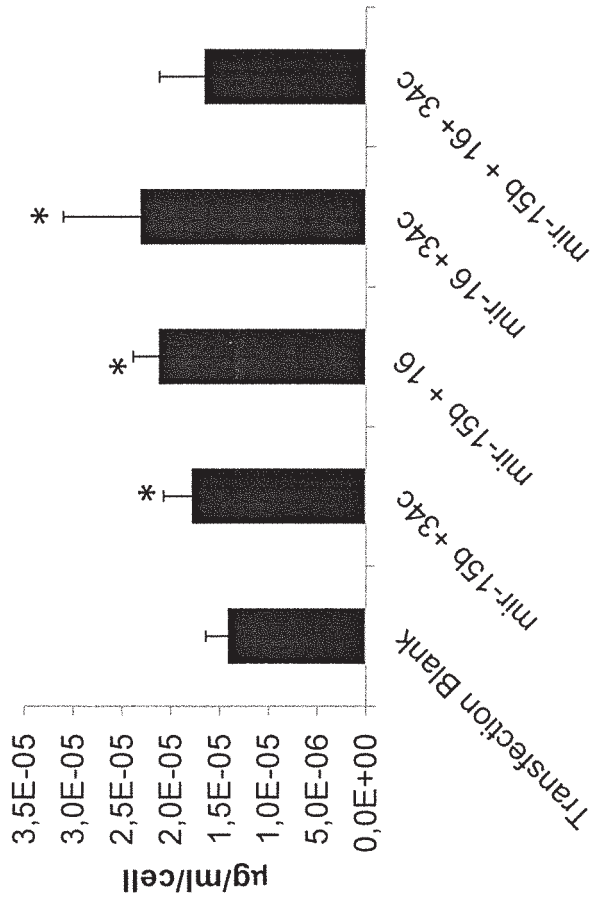

3,5E-05
3,0E-05
2,5E-05
2,0E-05
1,5E-05
1,0E-05
5,0E-06
0,0E+00
µg/ml/cell
*
*
*
Transfection Blank
miR-15b +34c
miR-15b + 16
miR-16 +34c
miR-15b + 16+ 34c

Figure 7

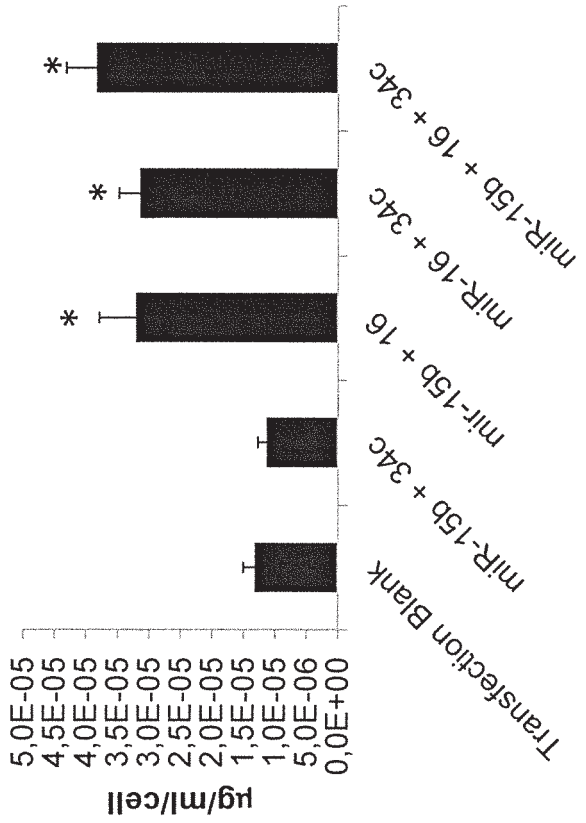
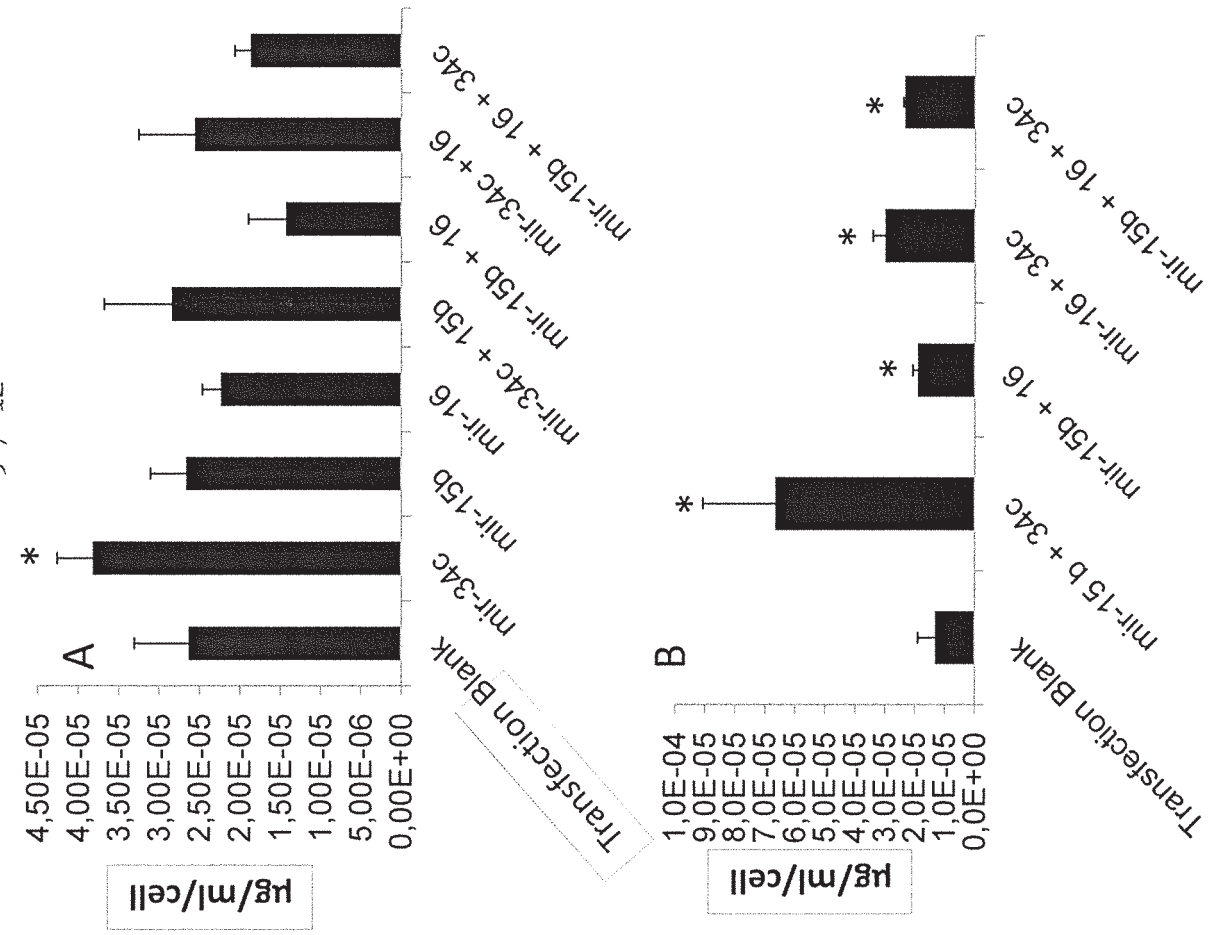

µg/ml/cell
5,0E-05
4,5E-05
4,0E-05
3,5E-05
3,0E-05
2,5E-05
2,0E-05
1,5E-05
1,0E-05
5,0E-06
0,0E+00
Transfection Blank
miR-15b + 34c
mir-15b + 16
miR-16 + 34c
miR-15b + 16 + 34c
*
*
*

Figure 8

Figure 9


A
B
µg/ml/cell
4,50E-05
4,00E-05
3,50E-05
3,00E-05
2,50E-05
2,00E-05
1,50E-05
1,00E-05
5,00E-06
0,00E+00
1,0E-04
9,0E-05
8,0E-05
7,0E-05
6,0E-05
5,0E-05
4,0E-05
3,0E-05
2,0E-05
1,0E-05
0,0E+00
Transfection Blank
mir-34c
mir-15b
mir-16
mir-34c + 15b
mir-15b + 16
mir-34c + 16
mir-15b + 16 + 34c
*

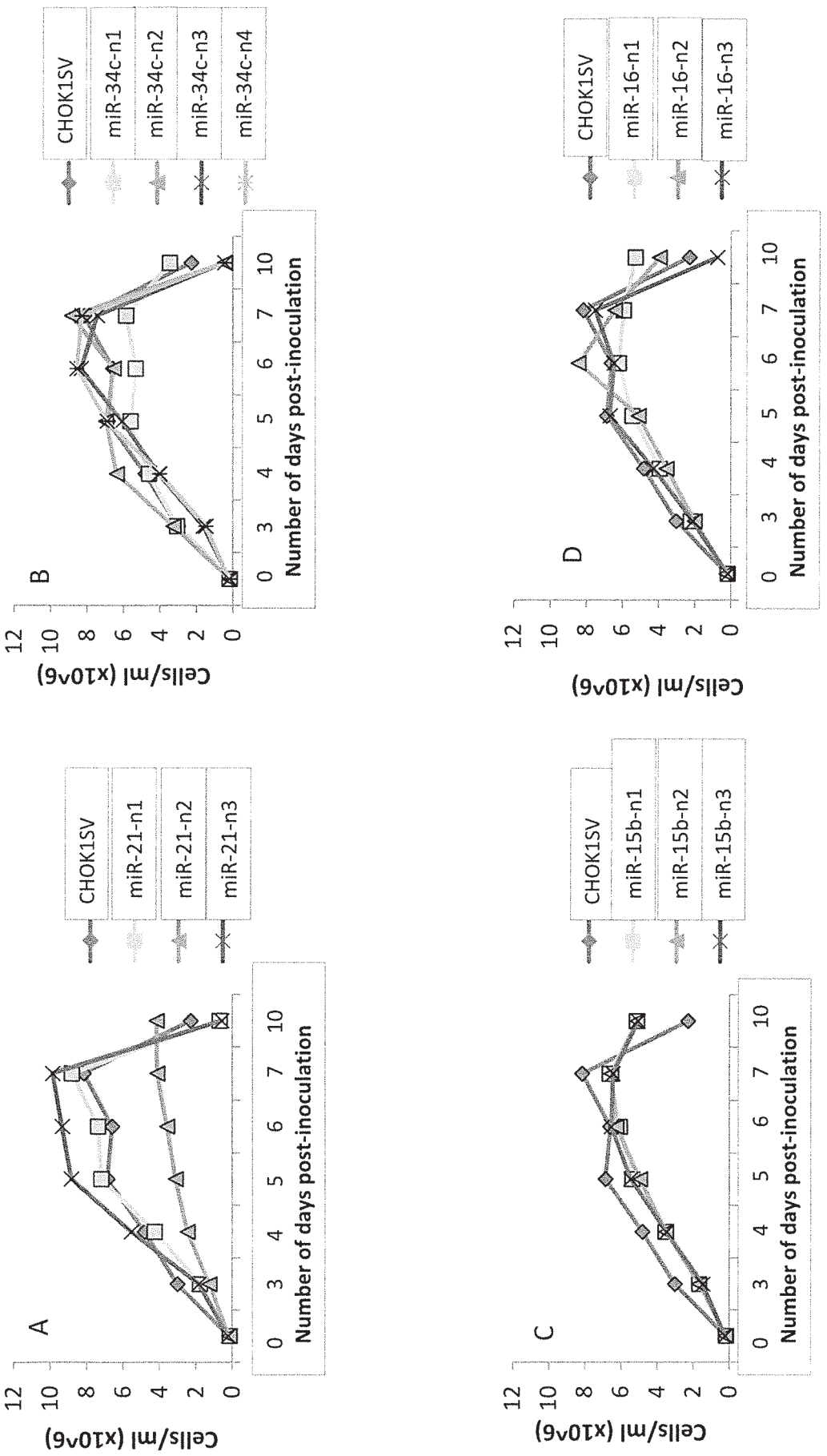

A
B
C
D
Cells/ml (x10^6)
Number of days post-inoculation
CHOK1SV
miR-21-n1
miR-21-n2
miR-21-n3
miR-34c-n1
miR-34c-n2
miR-34c-n3
miR-34c-n4
miR-15b-n1
miR-15b-n2
miR-15b-n3
miR-16-n1
miR-16-n2
miR-16-n3

Figure 10

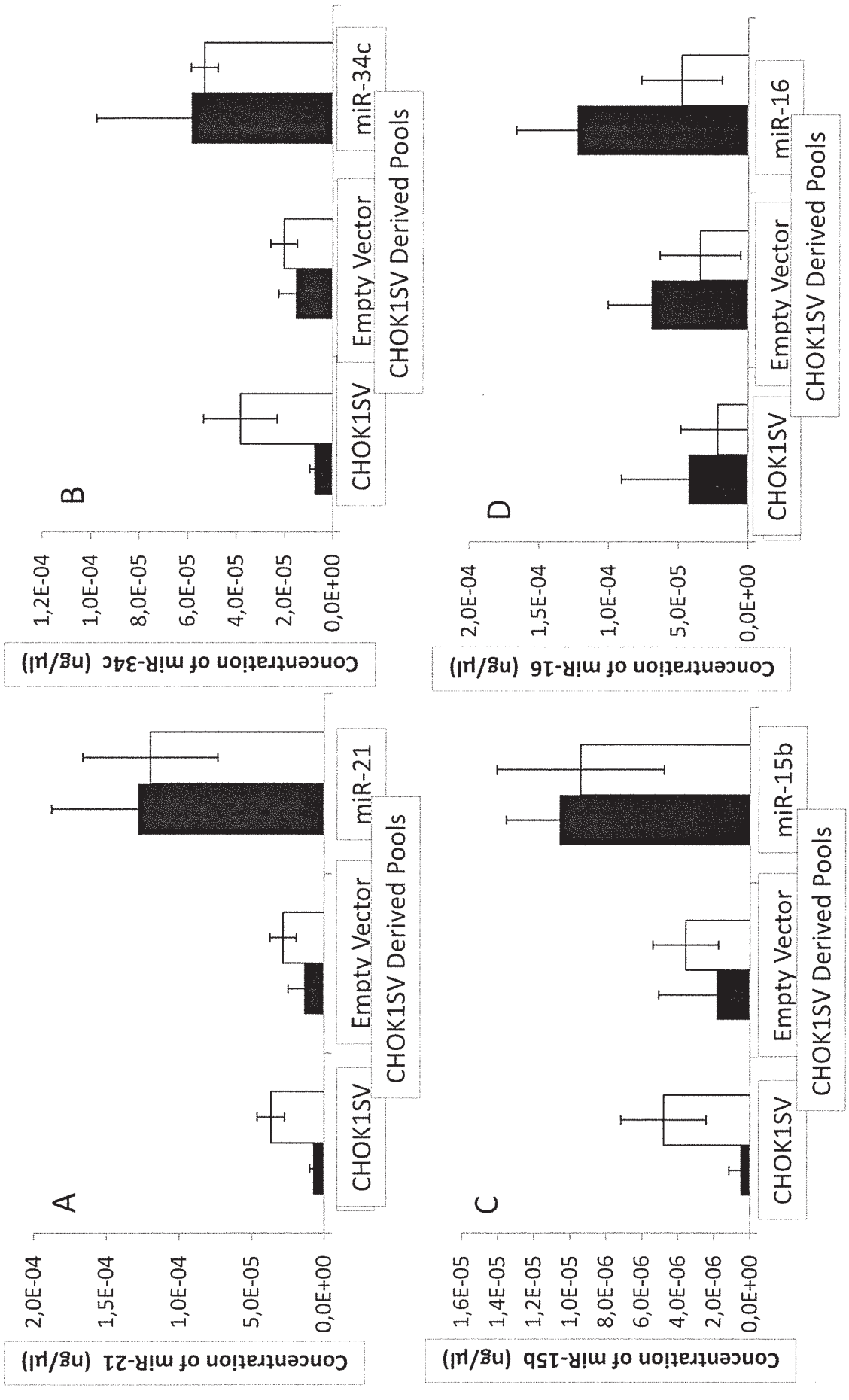

A
Concentration of miR-21 (ng/µl)
2,0E-04
1,5E-04
1,0E-04
5,0E-05
0,0E+00
CHOK1SV
Empty Vector
miR-21
CHOK1SV Derived Pools
B
Concentration of miR-34c (ng/µl)
1,2E-04
1,0E-04
8,0E-05
6,0E-05
4,0E-05
2,0E-05
0,0E+00
CHOK1SV
Empty Vector
miR-34c
CHOK1SV Derived Pools
C
Concentration of miR-15b (ng/µl)
1,6E-05
1,4E-05
1,2E-05
1,0E-05
8,0E-06
6,0E-06
4,0E-06
2,0E-06
0,0E+00
CHOK1SV
Empty Vector
miR-15b
CHOK1SV Derived Pools
D
Concentration of miR-16 (ng/µl)
2,0E-04
1,5E-04
1,0E-04
5,0E-05
0,0E+00
CHOK1SV
Empty Vector
miR-16
CHOK1SV Derived Pools

Figure 11

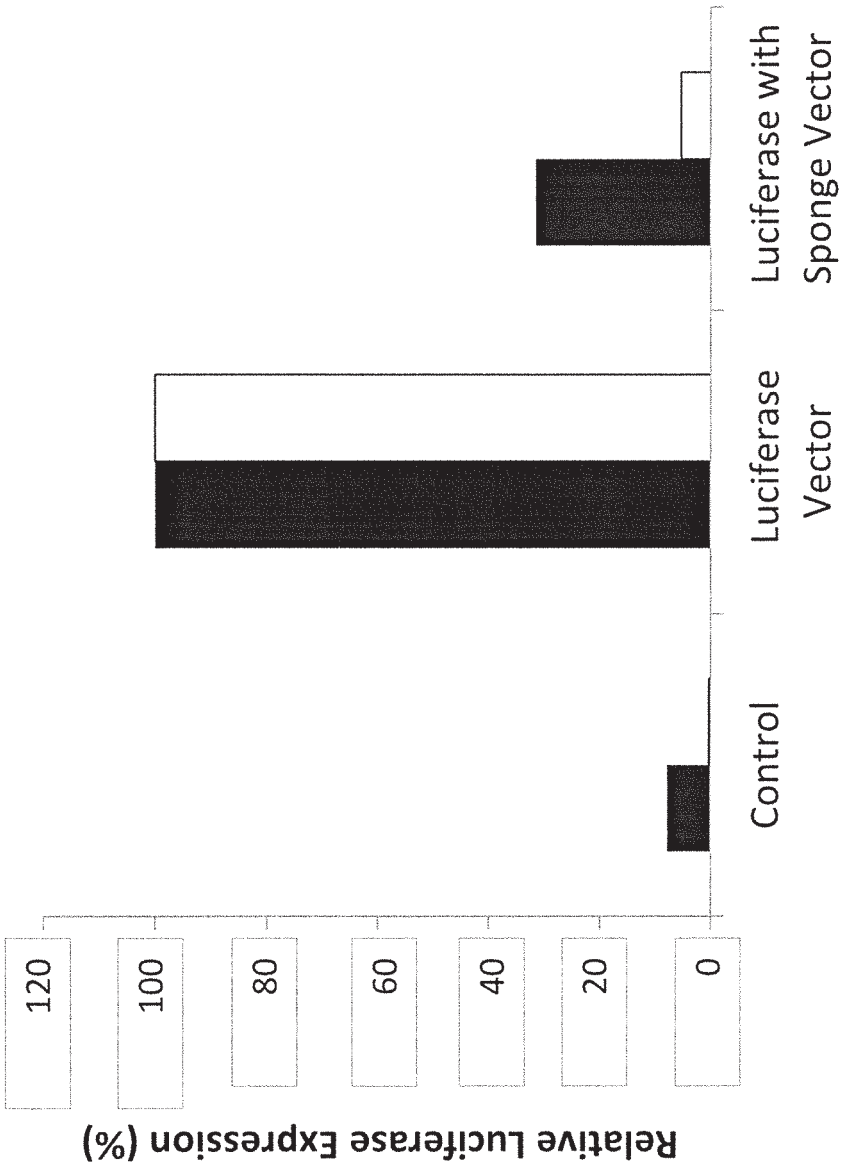

Relative Luciferase Expression (%)
120
100
80
60
40
20
0
Control
Luciferase Vector
Luciferase with Sponge Vector

Figure 12