hEPAS1 mRNA [GenBank seq # NM 001430] (SEQ ID NO: 1)

ORIGIN

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Fig. 1

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Fig. 1 Continued

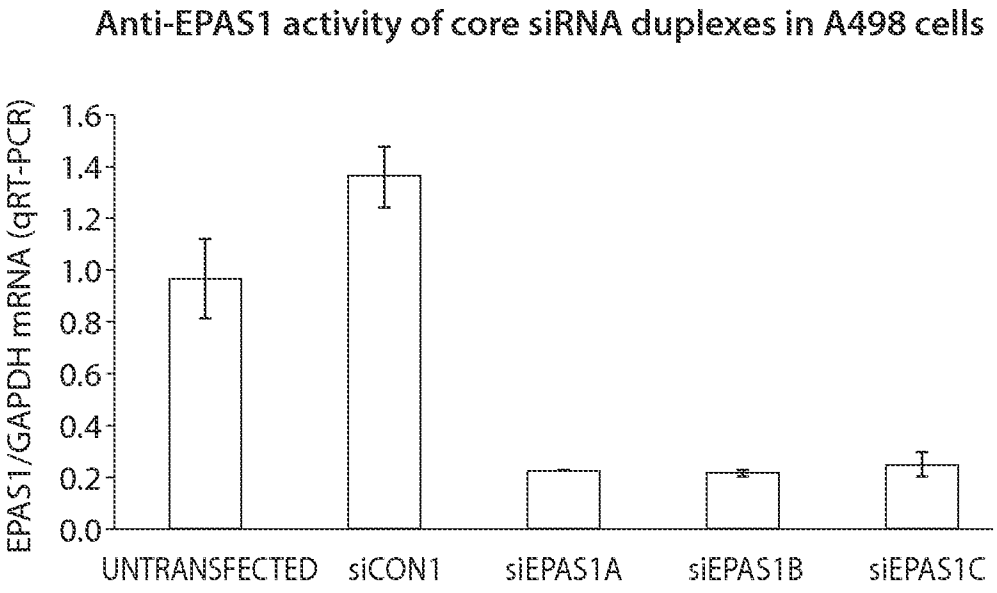

Anti-EPAS1 activity of core siRNA duplexes in A498 cells
EPAS1/GAPDH mRNA (qRT-PCR)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
UNTRANSFECTED
siCON1
siEPAS1A
siEPAS1B
siEPAS1C

Fig. 2

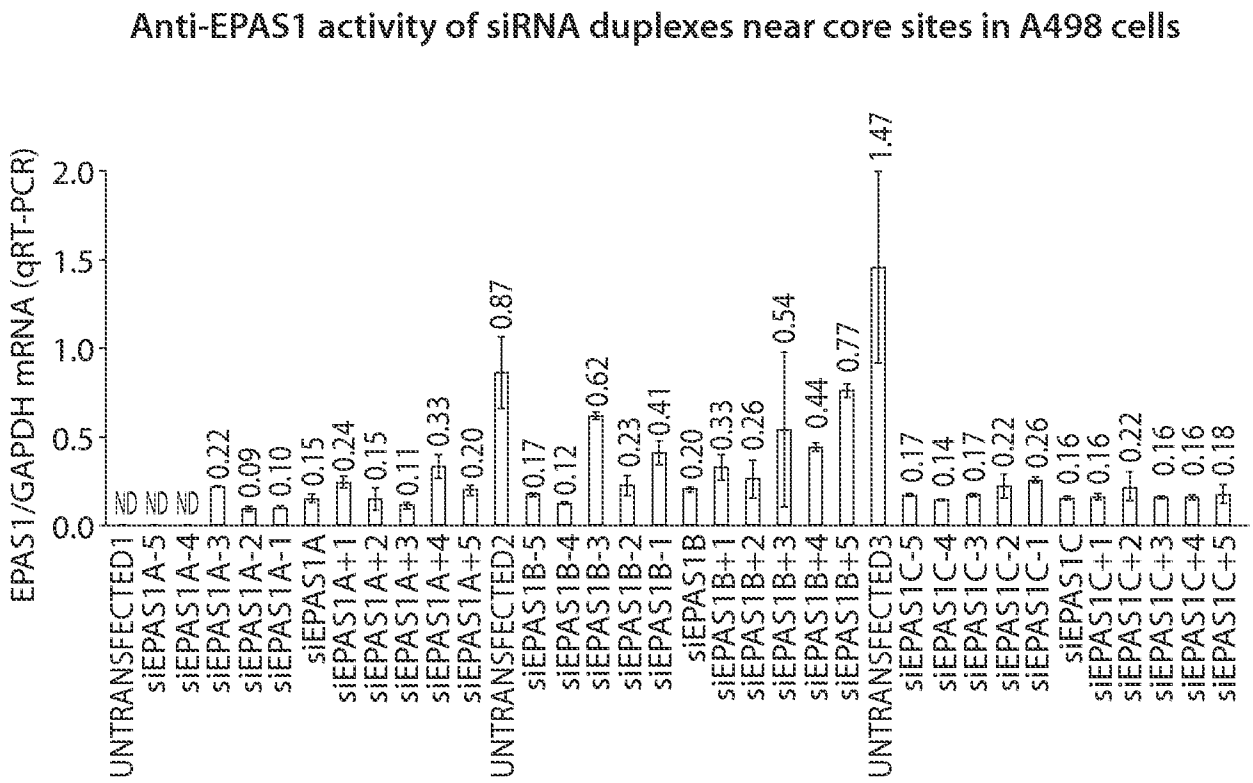

Anti-EPAS1 activity of siRNA duplexes near core sites in A498 cells
EPAS1/GAPDH mRNA (qRT-PCR)
2.0
1.5
1.0
0.5
0.0
ND ND ND 0.22 0.09 0.10 0.15 0.24 0.15 0.11 0.33 0.20 0.87 0.17 0.12 0.62 0.23 0.41 0.20 0.33 0.26 0.54 0.44 0.77 1.47 0.17 0.14 0.17 0.22 0.26 0.16 0.16 0.22 0.16 0.16 0.18
UNTRANSFECTED1
siEPAS1A-5
siEPAS1A-4
siEPAS1A-3
siEPAS1A-2
siEPAS1A-1
siEPAS1A
siEPAS1A+1
siEPAS1A+2
siEPAS1A+3
siEPAS1A+4
siEPAS1A+5
UNTRANSFECTED2
siEPAS1B-5
siEPAS1B-4
siEPAS1B-3
siEPAS1B-2
siEPAS1B-1
siEPAS1B
siEPAS1B+1
siEPAS1B+2
siEPAS1B+3
siEPAS1B+4
siEPAS1B+5
UNTRANSFECTED3
siEPAS1C-5
siEPAS1C-4
siEPAS1C-3
siEPAS1C-2
siEPAS1C-1
siEPAS1C
siEPAS1C+1
siEPAS1C+2
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siEPAS1C+4
siEPAS1C+5

Fig. 3A

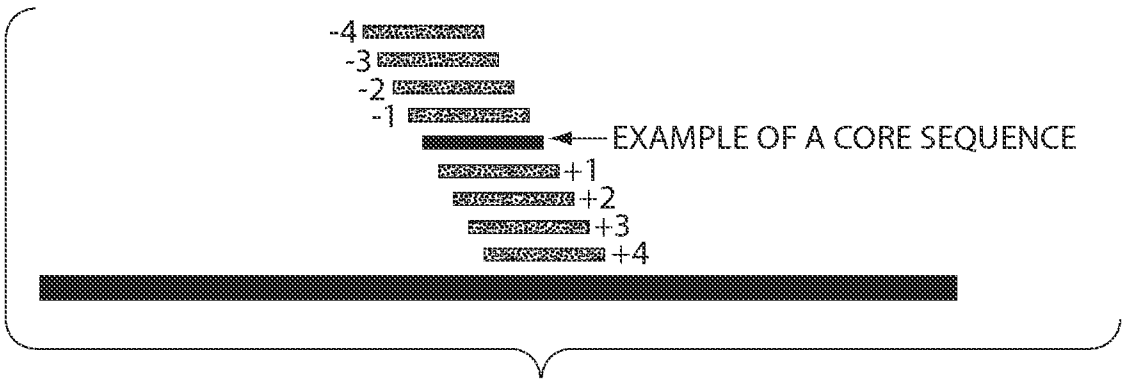

-4
-3
-2
-1
EXAMPLE OF A CORE SEQUENCE
+1
+2
+3
+4

Fig. 3B

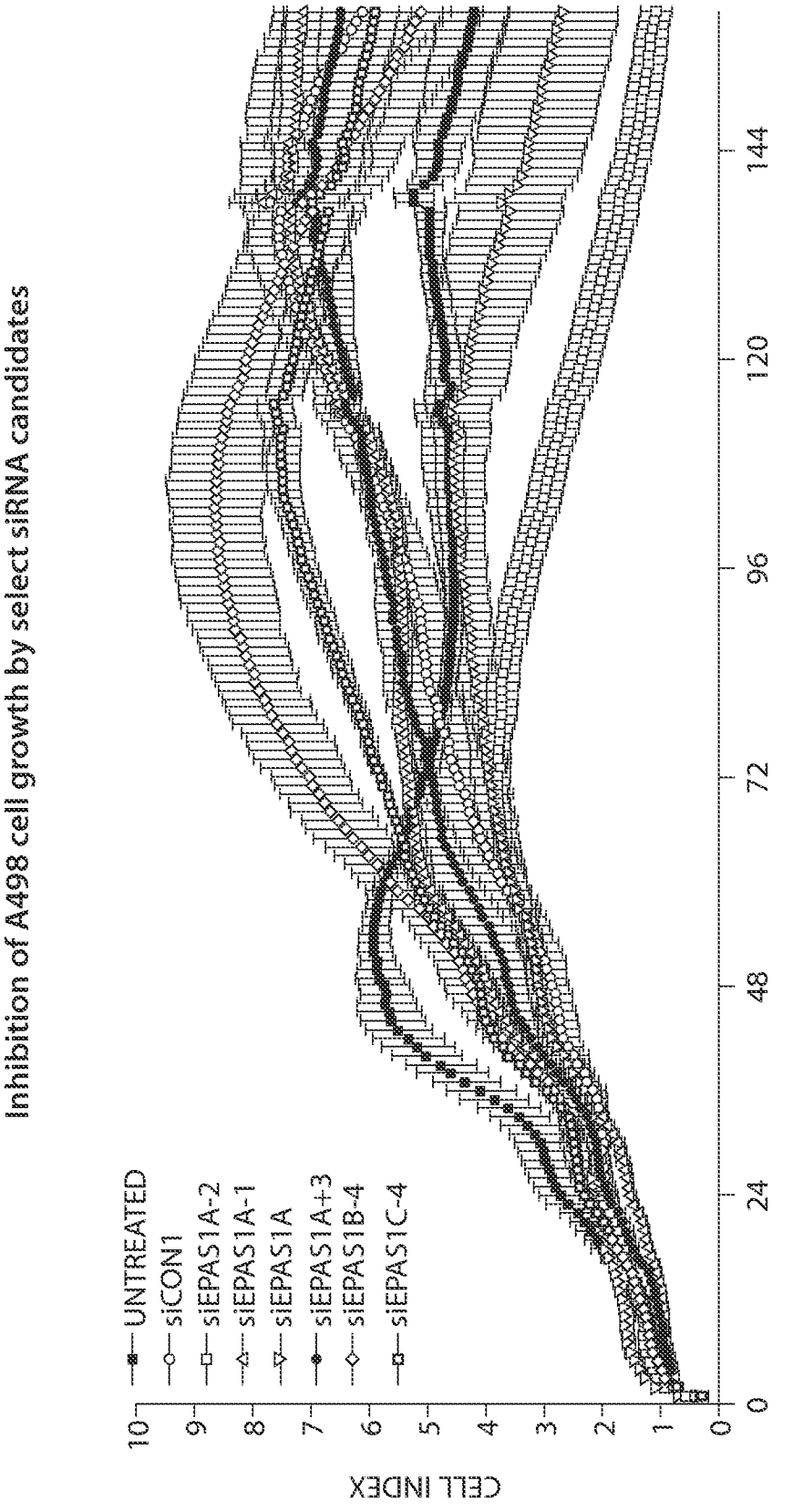

Inhibition of A498 cell growth by select siRNA candidates
CELL INDEX
TIME AFTER RE-PLATING (h)
UNTREATED
siCON1
siEPAS1A-2
siEPAS1A-1
siEPAS1A
siEPAS1A+3
siEPAS1B-4
siEPAS1C-4
0
1
2
3
4
5
6
7
8
9
10
0
24
48
72
96
120
144

Fig. 4

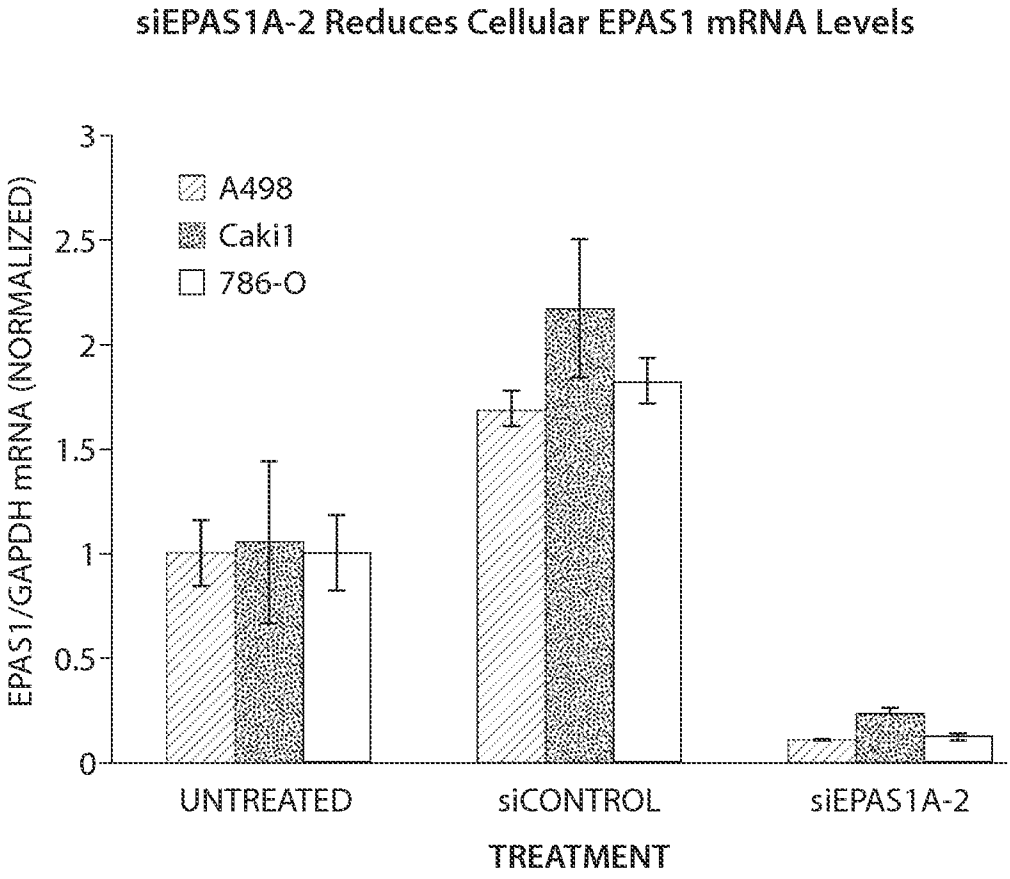

siEPAS1A-2 Reduces Cellular EPAS1 mRNA Levels
EPAS1/GAPDH mRNA (NORMALIZED)
3
2.5
2
1.5
1
0.5
0
A498
Caki1
786-O
UNTREATED
siCONTROL
siEPAS1A-2
TREATMENT

Fig. 5

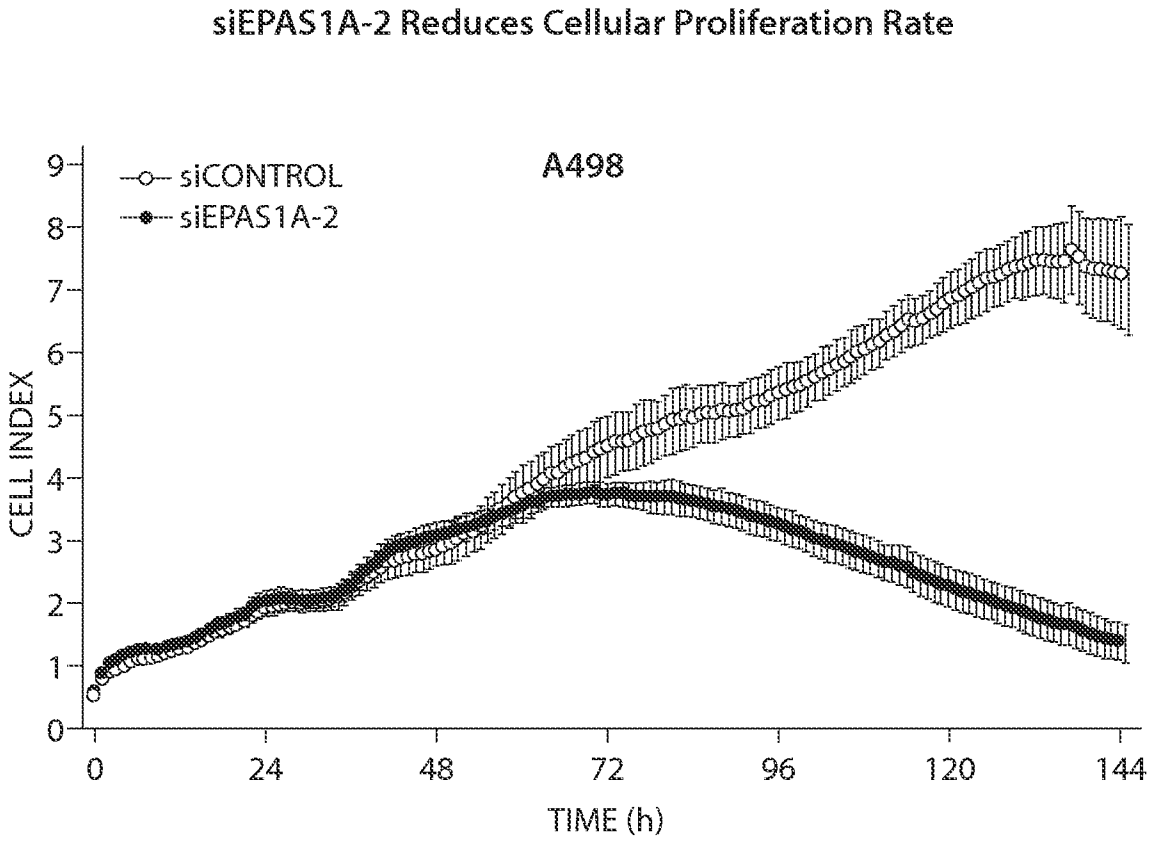

siEPAS1A-2 Reduces Cellular Proliferation Rate
A498
siCONTROL
siEPAS1A-2
CELL INDEX
0
1
2
3
4
5
6
7
8
9
0
24
48
72
96
120
144
TIME (h)

Fig. 6A

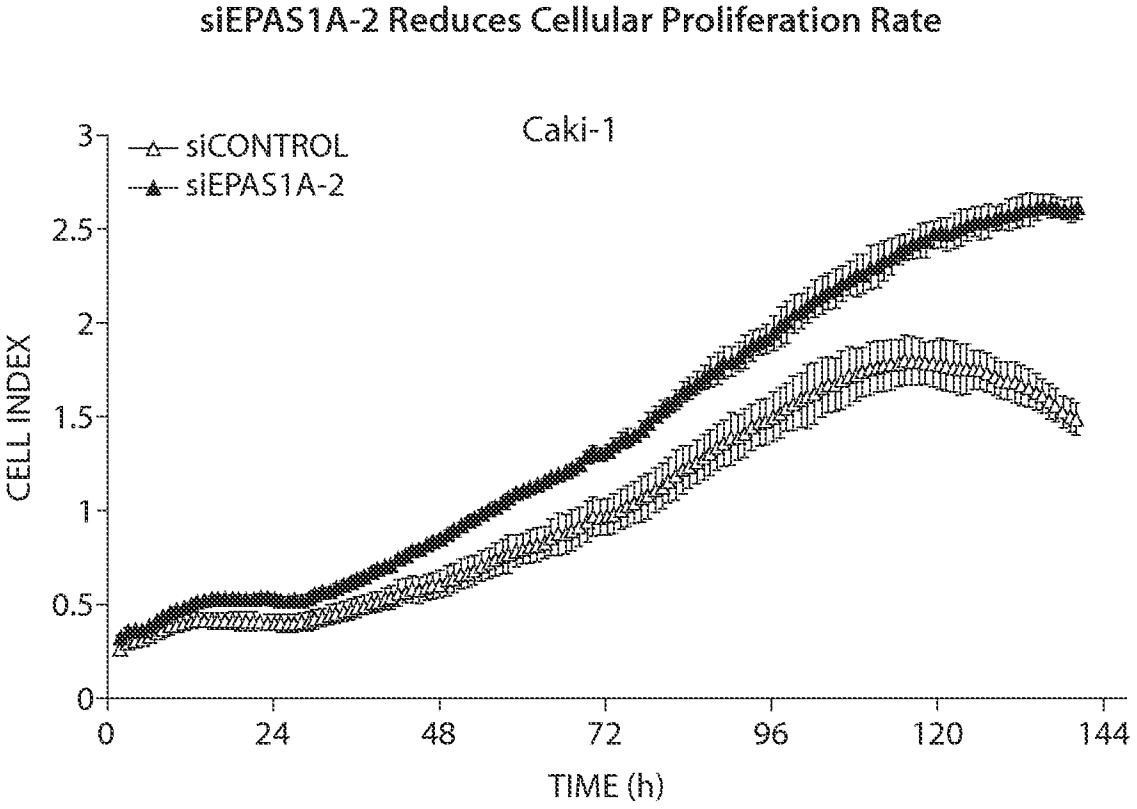

siEPAS1A-2 Reduces Cellular Proliferation Rate
Caki-1
siCONTROL
siEPAS1A-2
CELL INDEX
TIME (h)
0
0.5
1
1.5
2
2.5
3
0
24
48
72
96
120
144

Fig. 6B

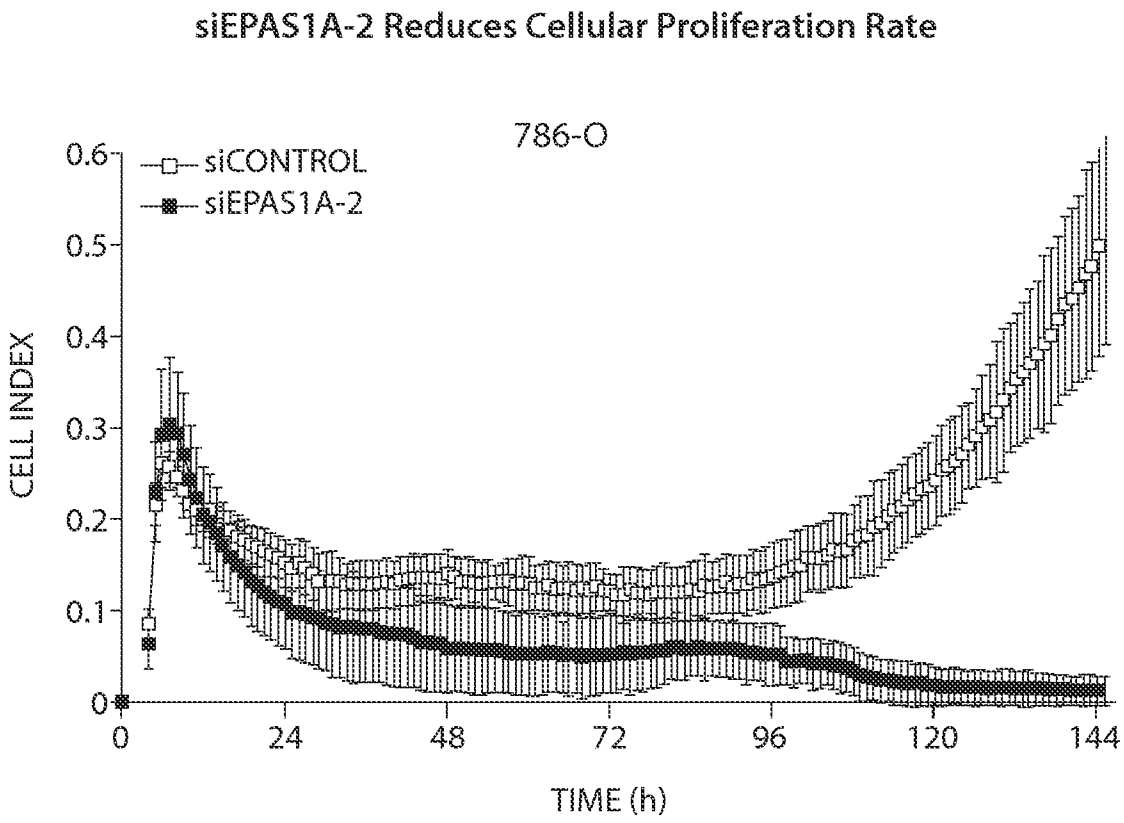

siEPAS1A-2 Reduces Cellular Proliferation Rate
786-O
siCONTROL
siEPAS1A-2
CELL INDEX
0.6
0.5
0.4
0.3
0.2
0.1
0
0
24
48
72
96
120
144
TIME (h)

Fig. 6C