FIG. 1

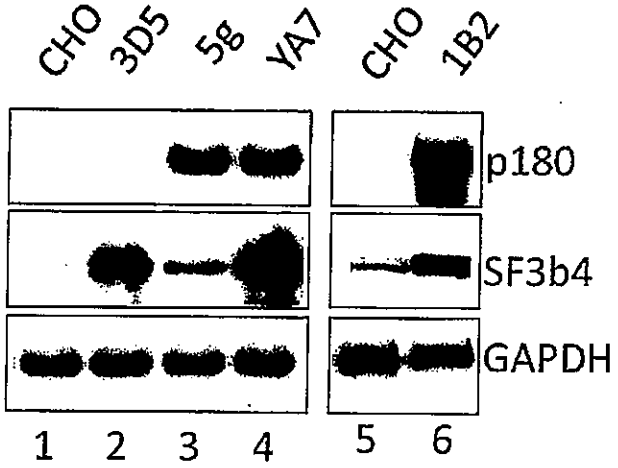

CHO
3D5
5g
YA7
CHO
1B2
p180
SF3b4
GAPDH
1
2
3
4
5
6

FIG. 2

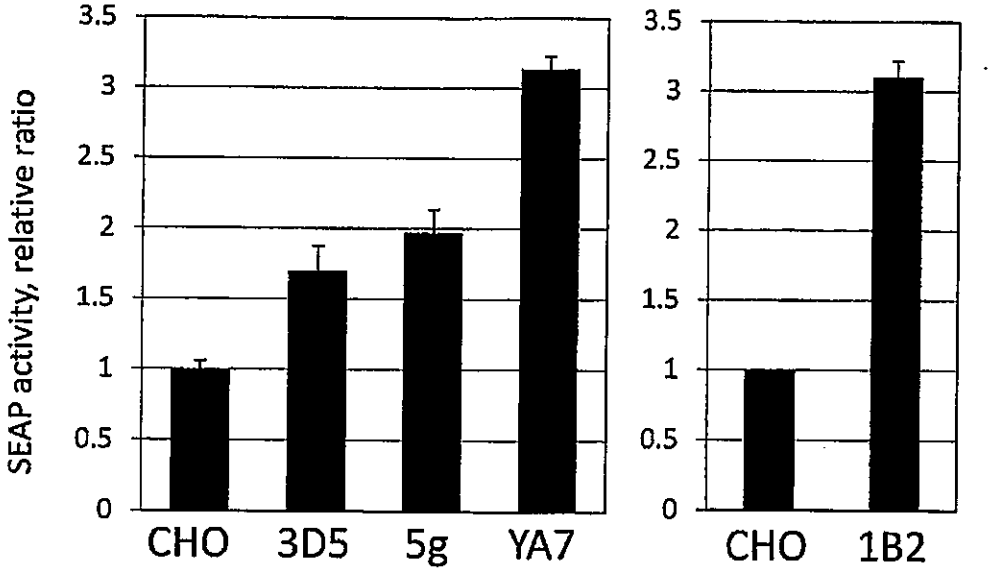

SEAP activity, relative ratio
3.5
3
2.5
2
1.5
1
0.5
0
CHO
3D5
5g
YA7
CHO
1B2

FIG. 3

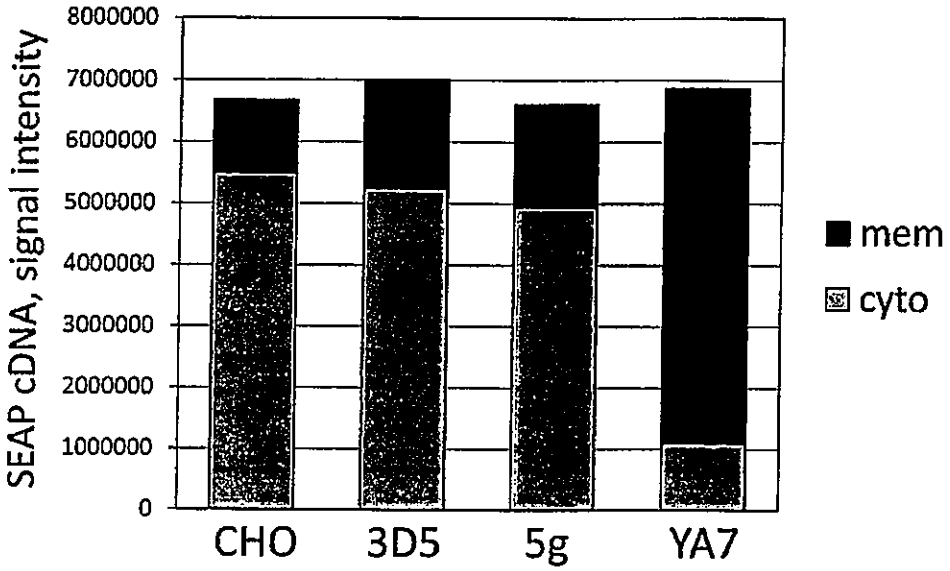
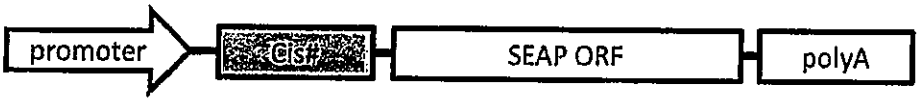

SEAP cDNA, signal intensity
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
CHO
3D5
5g
YA7
mem
cyto

FIG. 4

A



B

	SEAP activity, fold increase cis#1/control
CHO	2.7 ± 0.2
3D5	3.2 ± 0.1
5g	3.0 ± 0.2
YA7	3.2 ± 0.1

C

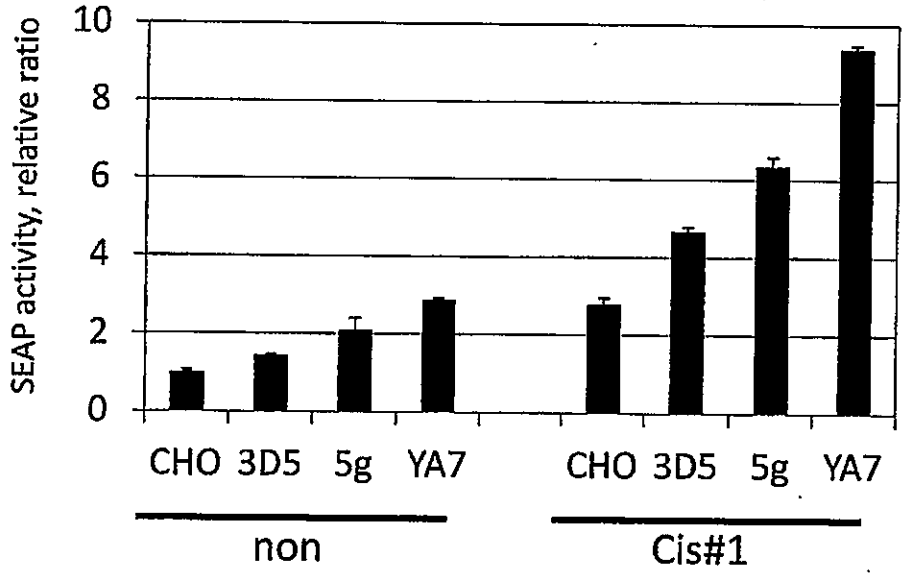


FIG. 5

A

	COL1A1 procollagen secretion, relative ratio
CHO	1
3D5	1.6±0.6
YA7	20.2±4.9

B

	cis#1	COL1A1 homotrimer secretion, relative ratio
CHO	-	1
3D5	-	1.5
YA7	-	2.1
CHO	+	1.9
3D5	+	1.7
YA7	+	3.3

C

	COL2A1 homotrimer secretion, relative ratio
CHO	1
3D5	1.4
YA7	1.9

D

	COL3A1 homotrimer secretion, relative ratio
CHO	1
YA7	3.7

FIG. 6

A

	Antibody secretion, relative ratio cis#1/control
CHO	2.7±1.2
3D5	2.5±0.6
YA7	1.8±0.5

B

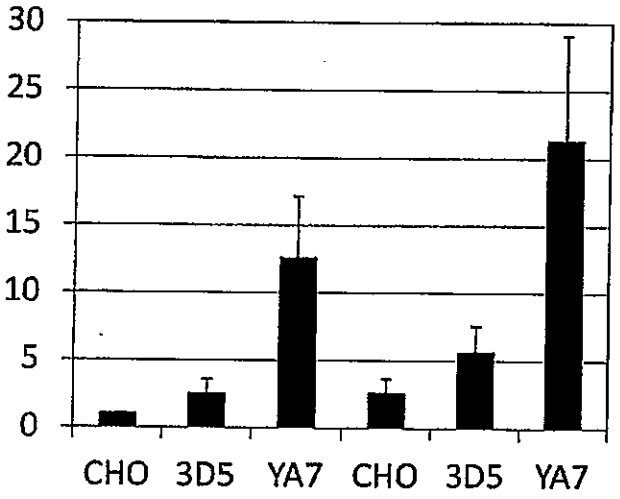


FIG. 7

	SEAP activity, fold increase in CHO	SEAP activity, fold increase in 3D5	SEAP activity, fold increase in YA7
control	1	1	1
kozak	2.3±0.2	3.1±0.2	1.9±0.1
cis#1	2.6±0.3	3.4±0.2	3.3±0.1
cis#1+kozak	3.3±0.1	4.9±0.2	3.9±0.1

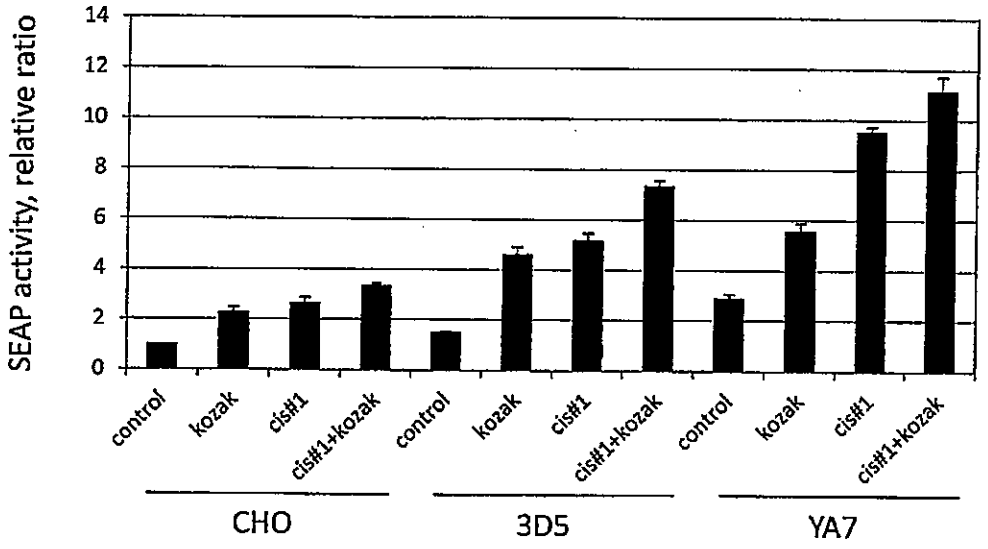


FIG. 8

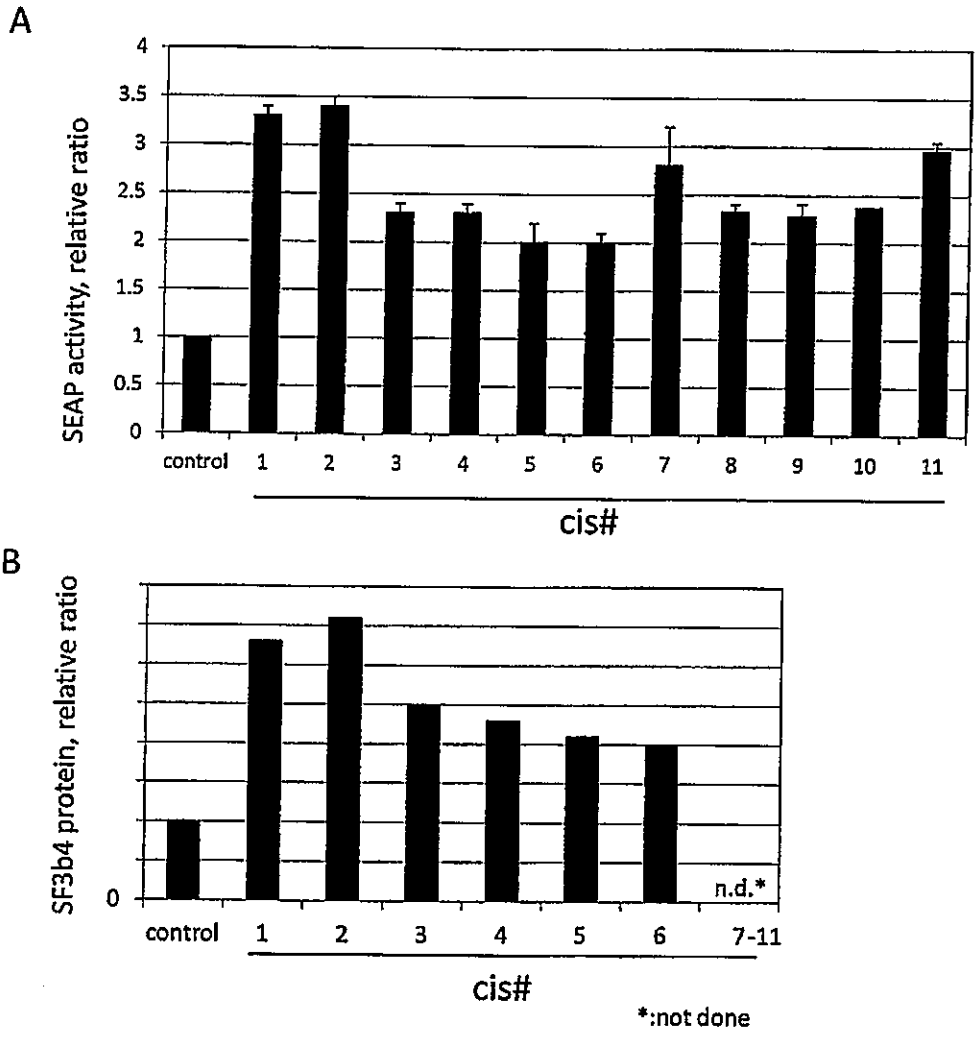

A
SEAP activity, relative ratio
4
3.5
3
2.5
2
1.5
1
0.5
0
control
1
2
3
4
5
6
7
8
9
10
11
cis#
B
SF3b4 protein, relative ratio
0
n.d.*
control
1
2
3
4
5
6
7-11
cis#
*:not done

FIG. 9

A

n=1	TCGTCGGAGGACGGGAGTTTCTCCT
n=2	TCGTCGGAGAGACGGGAGTTTCTCCT
n=3	TCGTCGGAGCAGACGGGAGTTTCTCCT (cis#3)
n=4	TCGTCGGAGCAGaACGGGAGTTTCTCCT
n=5	TCGTCGGAGCAGaaACGGGAGTTTCTCCT
n=6	TCGTCGGAGCAGaaaACGGGAGTTTCTCCT
n=7	TCGTCGGAGCAGaaaaACGGGAGTTTCTCCT
n=8	TCGTCGGAGCAGaaaaaACGGGAGTTTCTCCT
n=9	TCGTCGGAGCAGaaaaaaACGGGAGTTTCTCCT
Motif delete	TCGTCG CAG GGAGTTTCTCCT

B

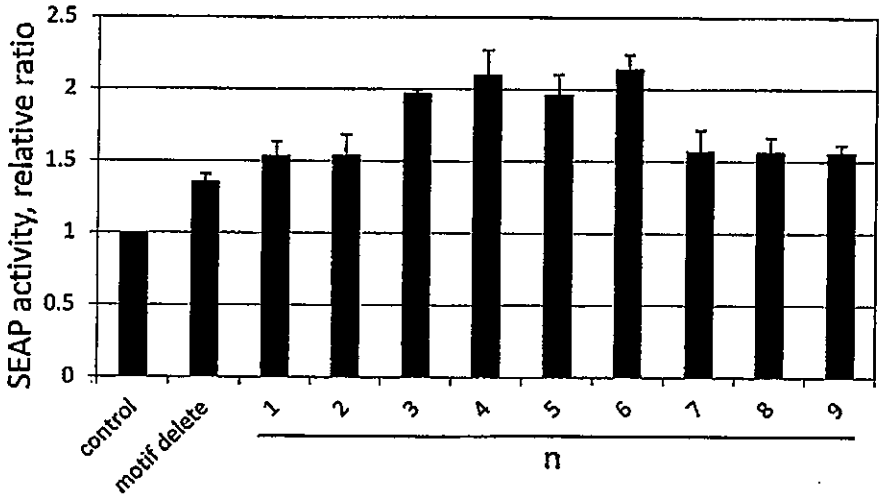


FIG. 10

A

	GAN$_1$XXX ACN$_2$	
N$_2$=G	TCGTCGGAGCAGACGGGAGTTTCTCCT	(cis#3)
N$_2$=A	TCGTCGGAGCAGACAGGAGTTTCTCCT	
N$_2$=C	TCGTCGGAGCAGACCGGAGTTTCTCCT	
N$_2$=T	TCGTCGGAGCAGACTGGAGTTTCTCCT	
Motif in A	AAAAAAGAGAAAACGAAAAAAAAAAAA	
allA	AAAAAAAAAAAAAAAAAAAAAAAAAA	
N$_1$=G	CCCCCCGAGCCCACACCCCCCCCCCCC	
N$_1$=A	CCCCCCGAACCCACACCCCCCCCCCCC	
N$_1$=C	CCCCCCGACCCCACACCCCCCCCCCCC	
N$_1$=T	CCCCCCGATCCCACACCCCCCCCCCCC	
all C	CCCCCCCCCCCCCCCCCCCCCCCCCCCC	

B

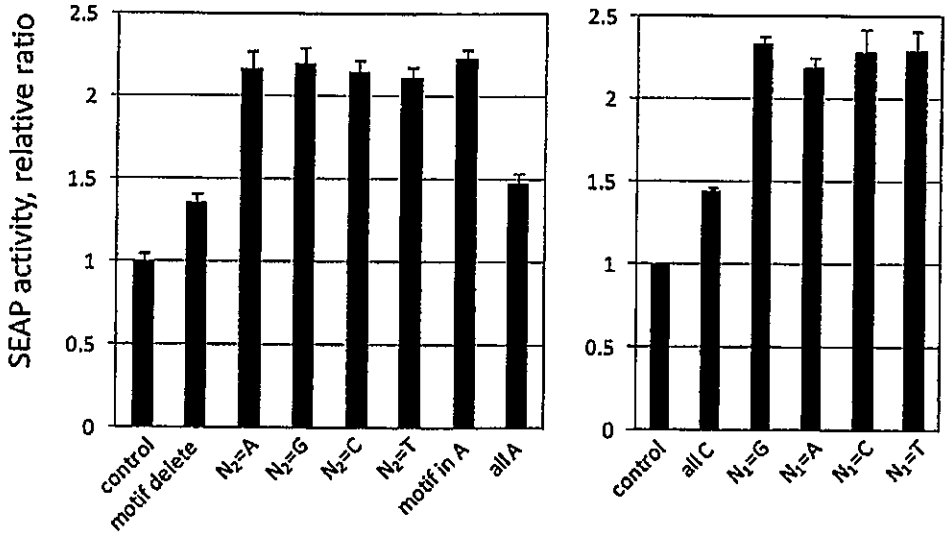


FIG. 11

	SF3b4 expression (relative ratio)	COL1A1 secretion (relative ratio)
Control cells	1	1
SF3b4 knockdown cells	0.2±0.1	0.1±0.1

FIG. 12

