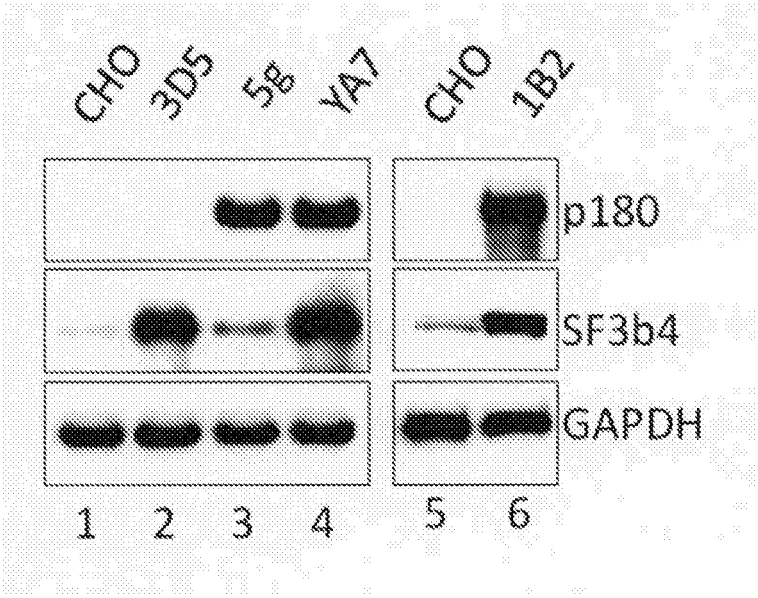
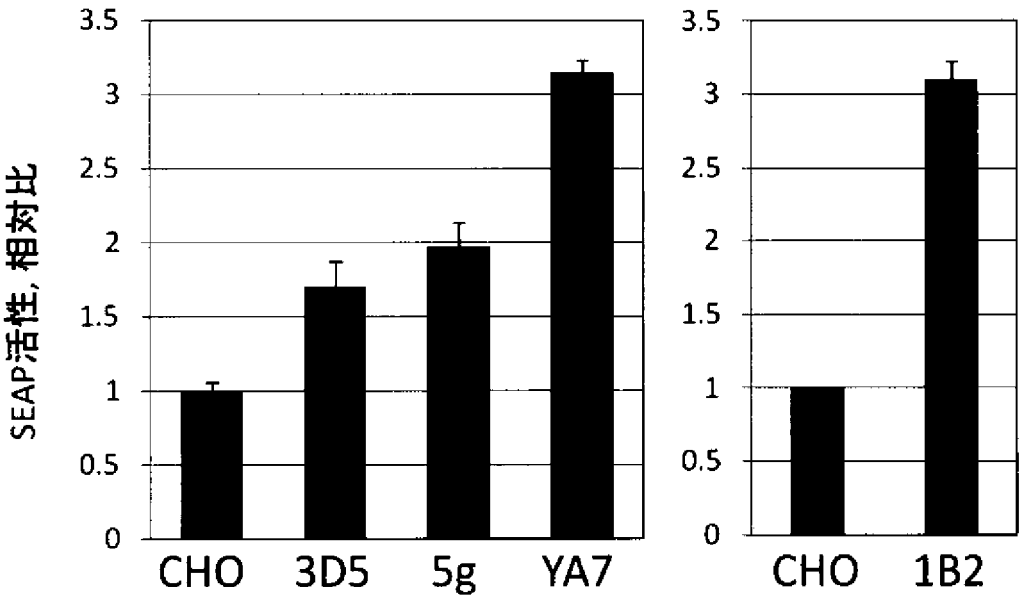
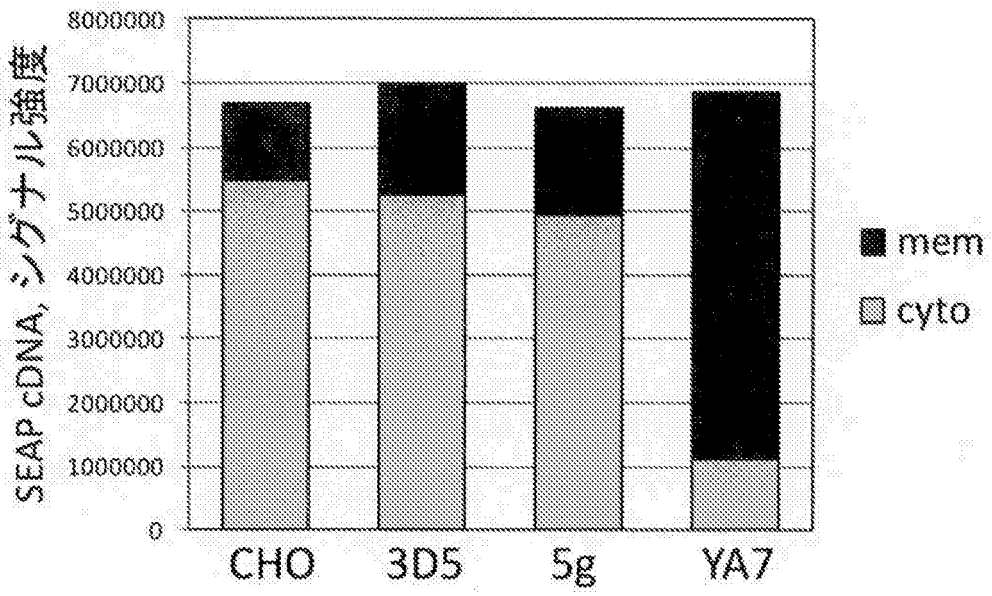
[図1]


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

[図2]


SEAP活性, 相対比
3.5
3
2.5
2
1.5
1
0.5
0
CHO
3D5
5g
YA7
CHO
1B2

[図3]


SEAP cDNA, シグナル強度
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
CHO
3D5
5g
YA7
mem
cyto

[図4]

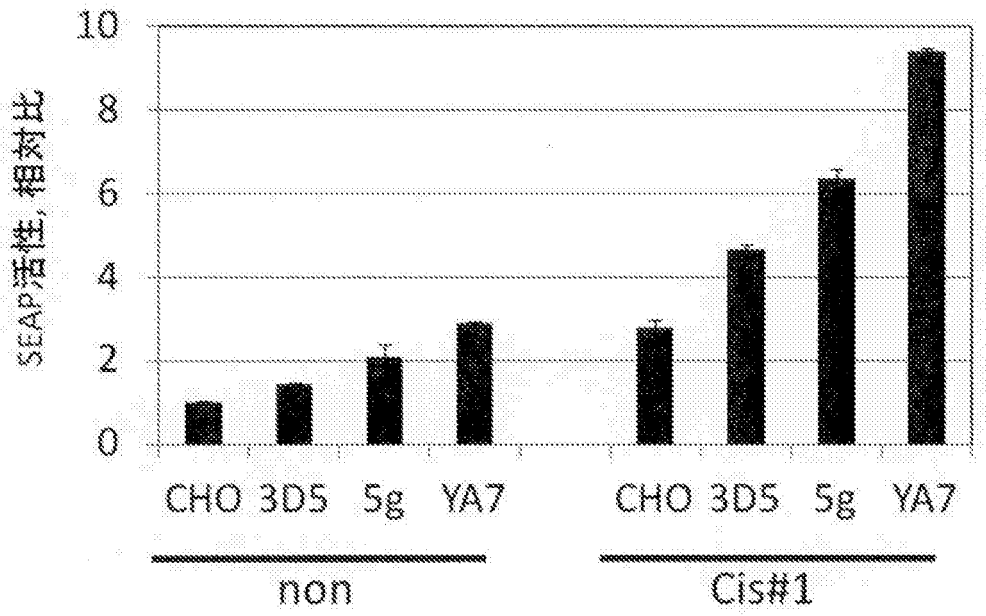
A



B

	SEAP活性, 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



[図5]

A

	COL1A1プロコラーゲン分泌量，相対比
CHO	1
3D5	1.6±0.6
YA7	20.2±4.9

B

	cis#1	COL1A1ホモトライマー分泌量，相対比
CHO		1
3D5	-	1.5
YA7		2.1
CHO		1.9
3D5	+	1.7
YA7		3.3

C

	COL2A1ホモトライマー分泌量，相対比
CHO	1
3D5	1.4
YA7	1.9

D

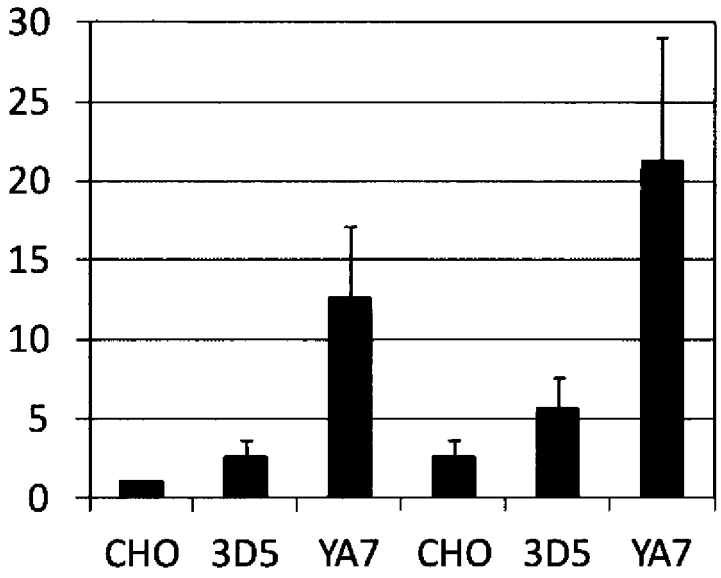
	COL3A1ホモトライマー分泌量，相対比
CHO	1
YA7	3.7

[図6]

A

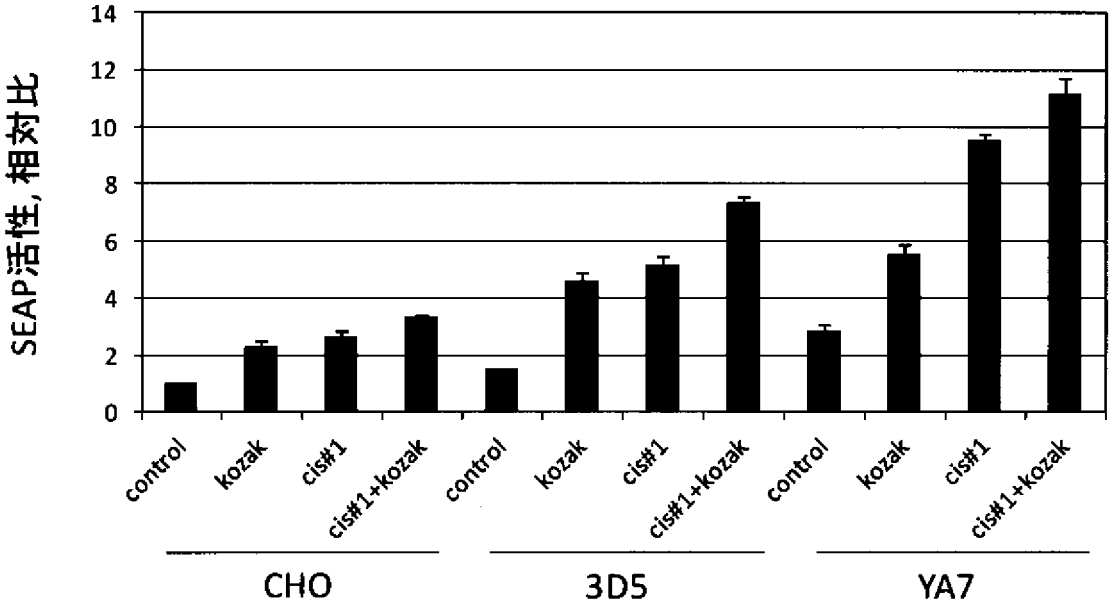
	抗体分泌量,相対比 cis#1/control
CHO	2.7±1.2
3D5	2.5±0.6
YA7	1.8±0.5

B

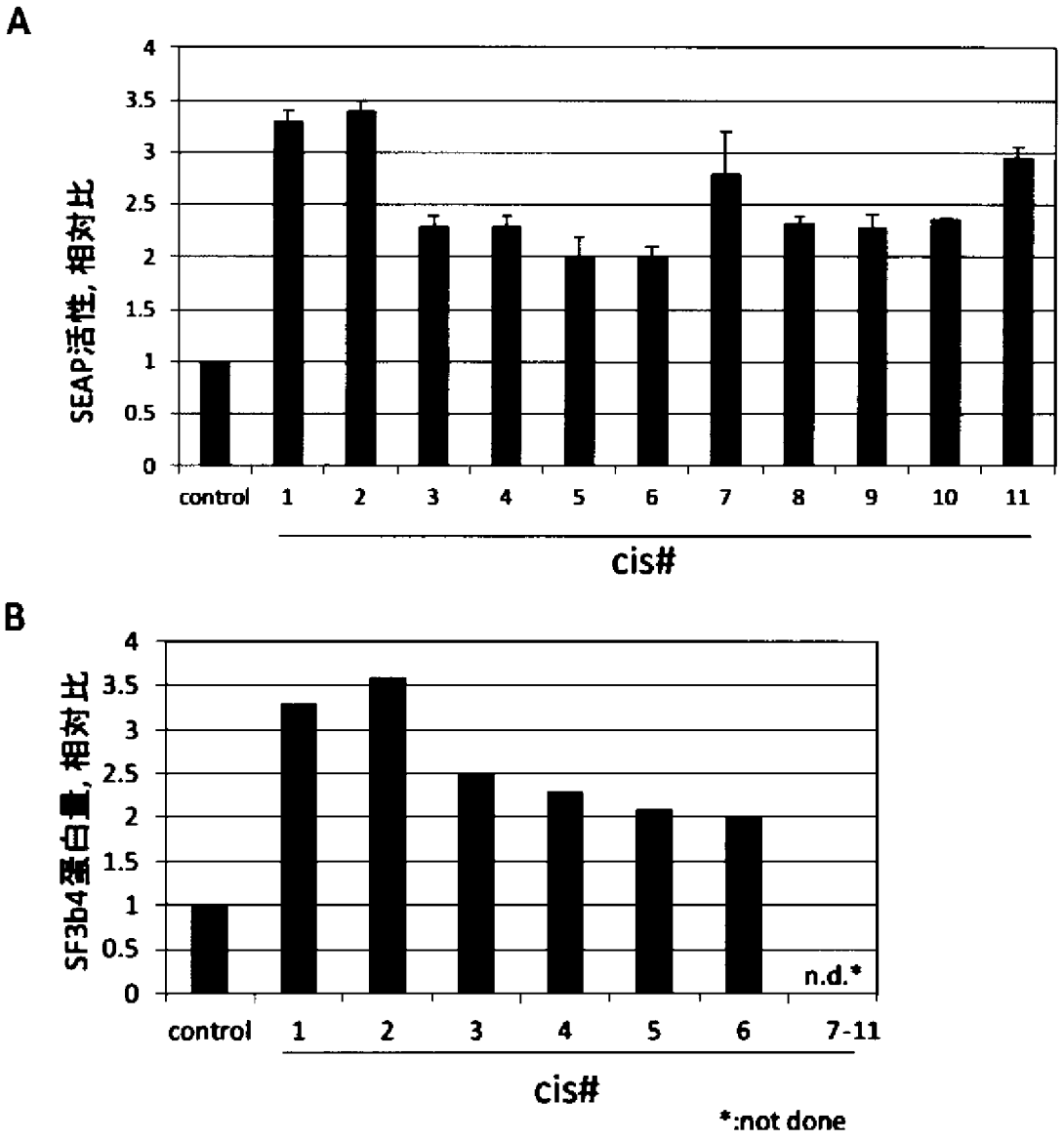


[図7]

	SEAP活性, fold increase in CHO	SEAP活性, fold increase in 3D5	SEAP活性, 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



[図8]

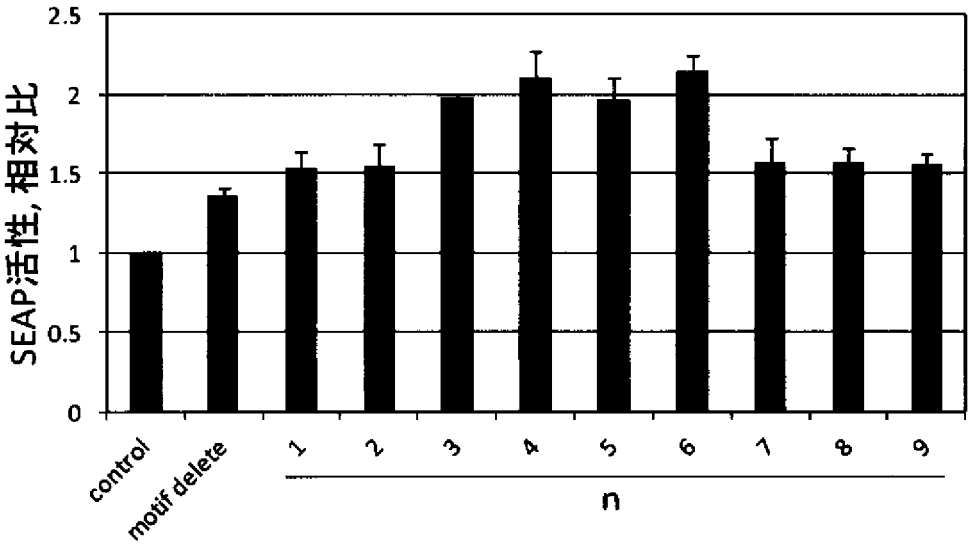

A
SEAP活性, 相対比
4
3.5
3
2.5
2
1.5
1
0.5
0
control
1
2
3
4
5
6
7
8
9
10
11
cis#
B
SF3b4蛋白量, 相対比
4
3.5
3
2.5
2
1.5
1
0.5
0
n.d.*
control
1
2
3
4
5
6
7-11
cis#
*:not done

[図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



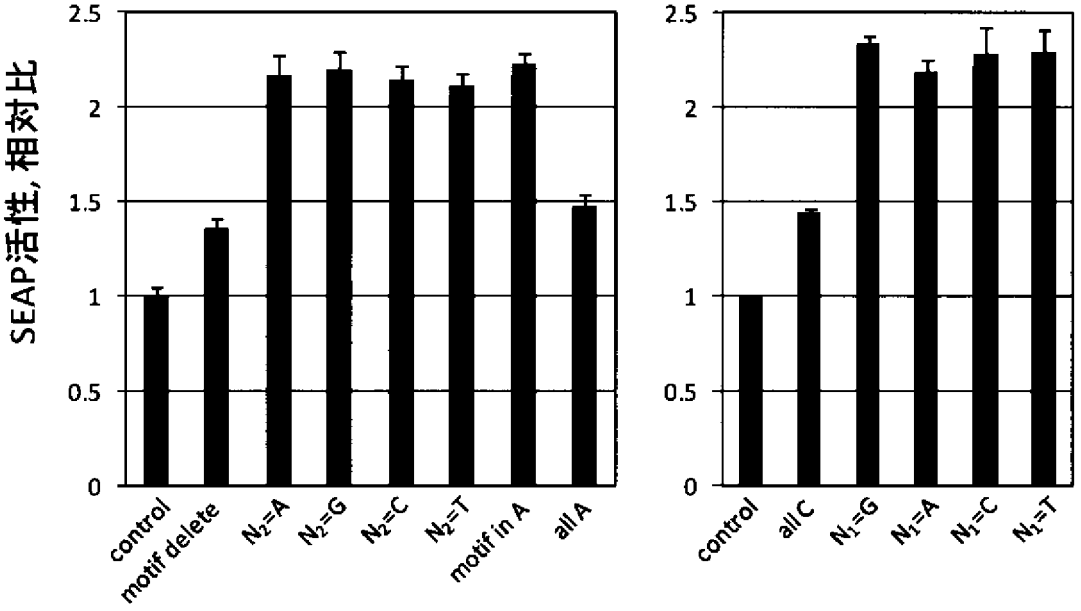
[図10]

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

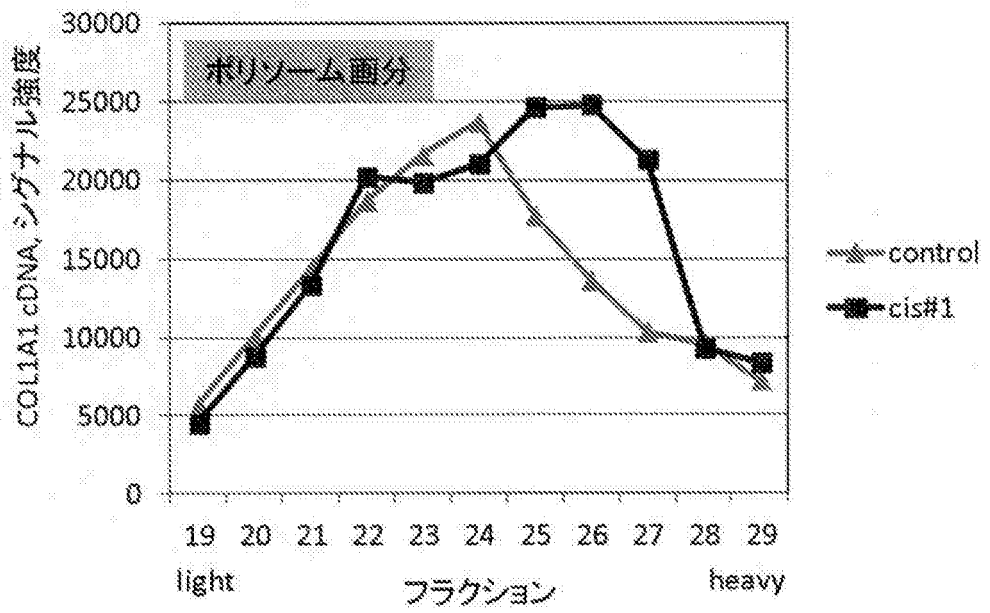
B



[図11]

	SF3b4発現量（相対比）	COL1A1分泌量（相対比）
対照細胞	1	1
SF3b4 ノックダウン細胞	0.2±0.1	0.1±0.1

[図12]


30000
25000
20000
15000
10000
5000
0
COL1A1 cDNA, シグナル強度
ポリソーム画分
19 20 21 22 23 24 25 26 27 28 29
light
フラクション
heavy
control
cis#1