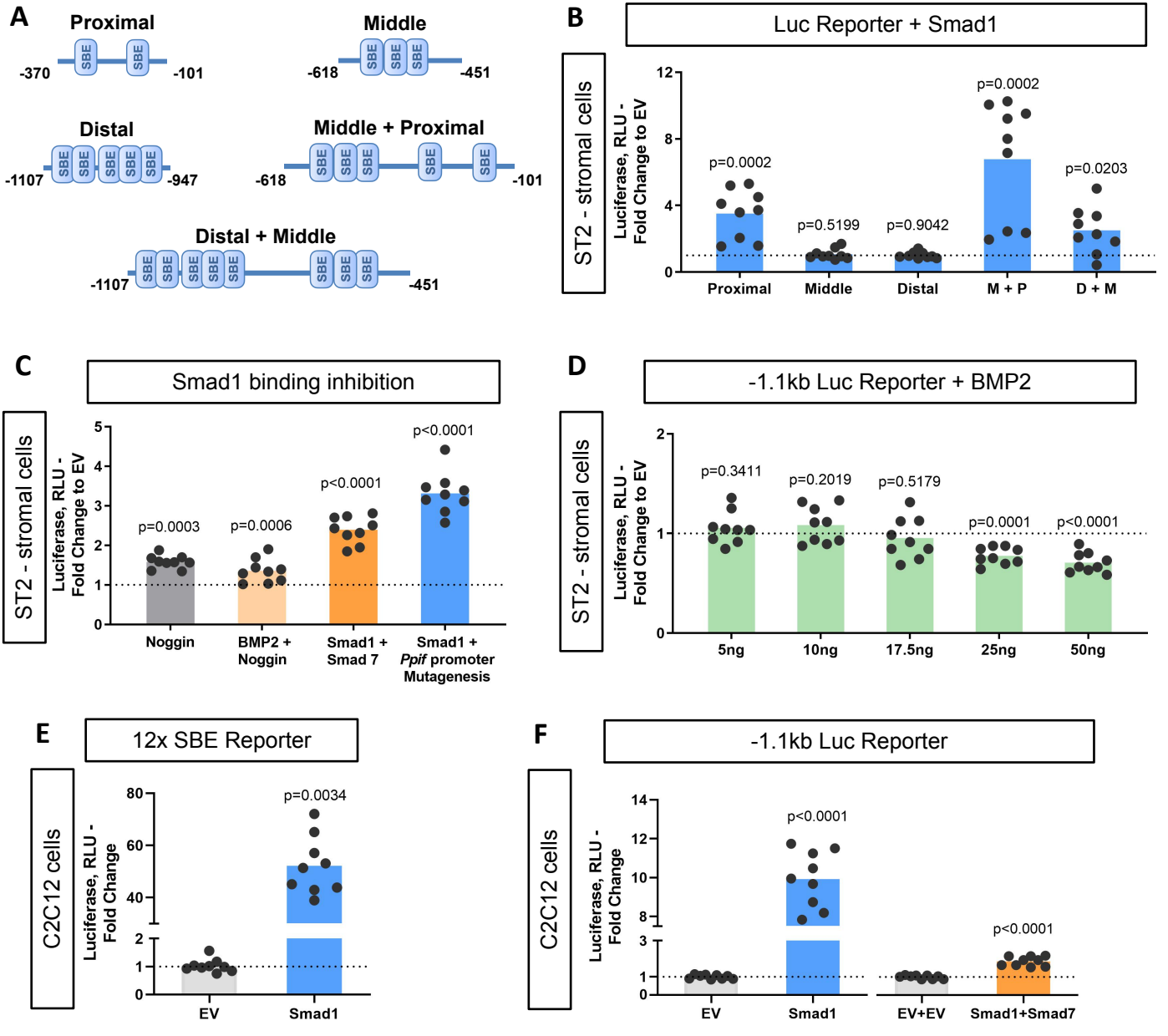
A
Proximal
SBE
SBE
-370
-101
Middle
SBE
SBE
SBE
-618
-451
Distal
SBE
SBE
SBE
SBE
SBE
-1107
-947
Middle + Proximal
SBE
SBE
SBE
SBE
SBE
-618
-101
Distal + Middle
SBE
SBE
SBE
SBE
SBE
SBE
SBE
SBE
-1107
-451
B
Luc Reporter + Smad1
ST2 - stromal cells
Luciferase, RLU - Fold Change to EV
12
8
4
0
p=0.0002
p=0.5199
p=0.9042
p=0.0002
p=0.0203
Proximal
Middle
Distal
M + P
D + M
C
Smad1 binding inhibition
ST2 - stromal cells
Luciferase, RLU - Fold Change to EV
5
4
3
2
1
0
p=0.0003
p=0.0006
p<0.0001
p<0.0001
Noggin
BMP2 + Noggin
Smad1 + Smad 7
Smad1 + Ppif promoter Mutagenesis
D
-1.1kb Luc Reporter + BMP2
ST2 - stromal cells
Luciferase, RLU - Fold Change to EV
2
1
0
p=0.3411
p=0.2019
p=0.5179
p=0.0001
p<0.0001
5ng
10ng
17.5ng
25ng
50ng
E
12x SBE Reporter
C2C12 cells
Luciferase, RLU - Fold Change
80
60
40
2
1
0
p=0.0034
EV
Smad1
F
-1.1kb Luc Reporter
C2C12 cells
Luciferase, RLU - Fold Change
14
12
10
8
3
1
0
p<0.0001
p<0.0001
EV
Smad1
EV+EV
Smad1+Smad7