

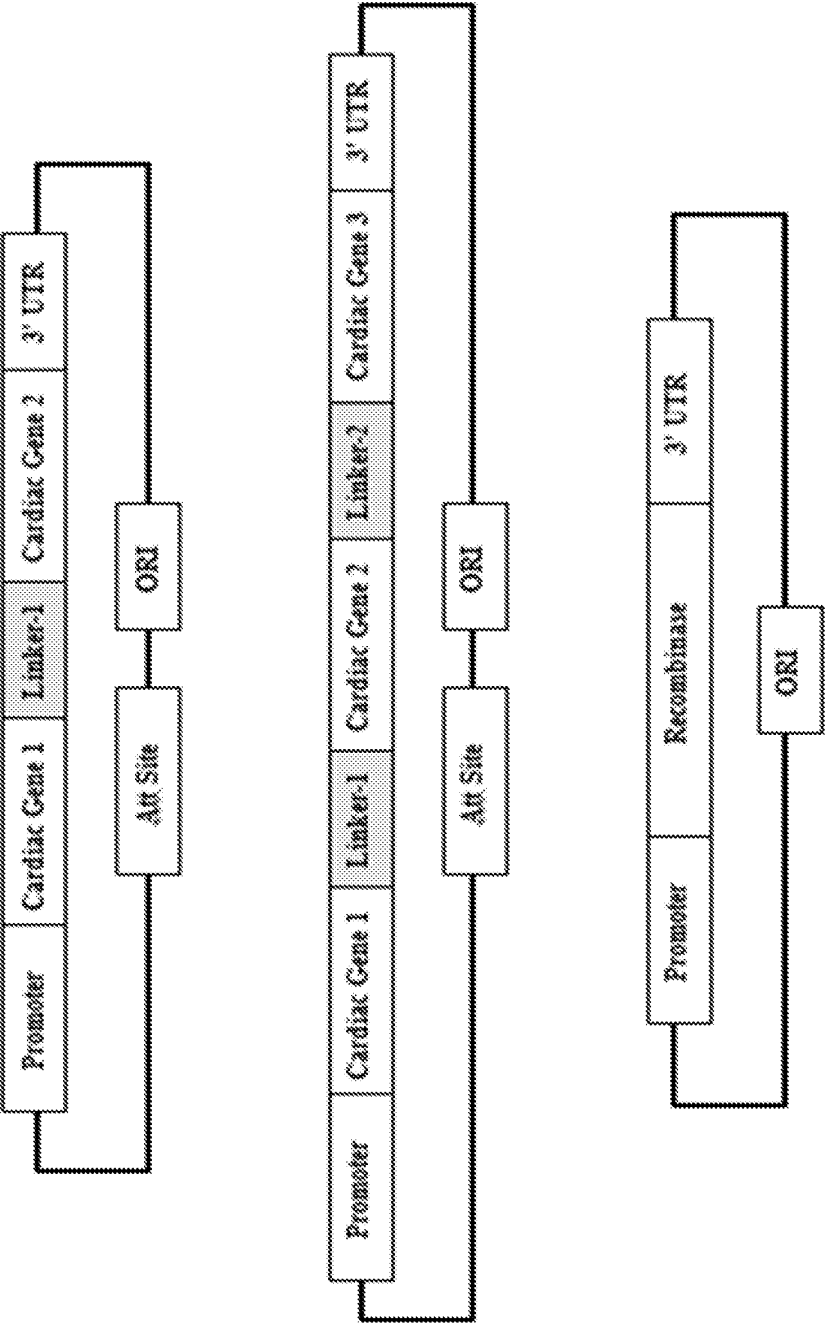


FIG. 1

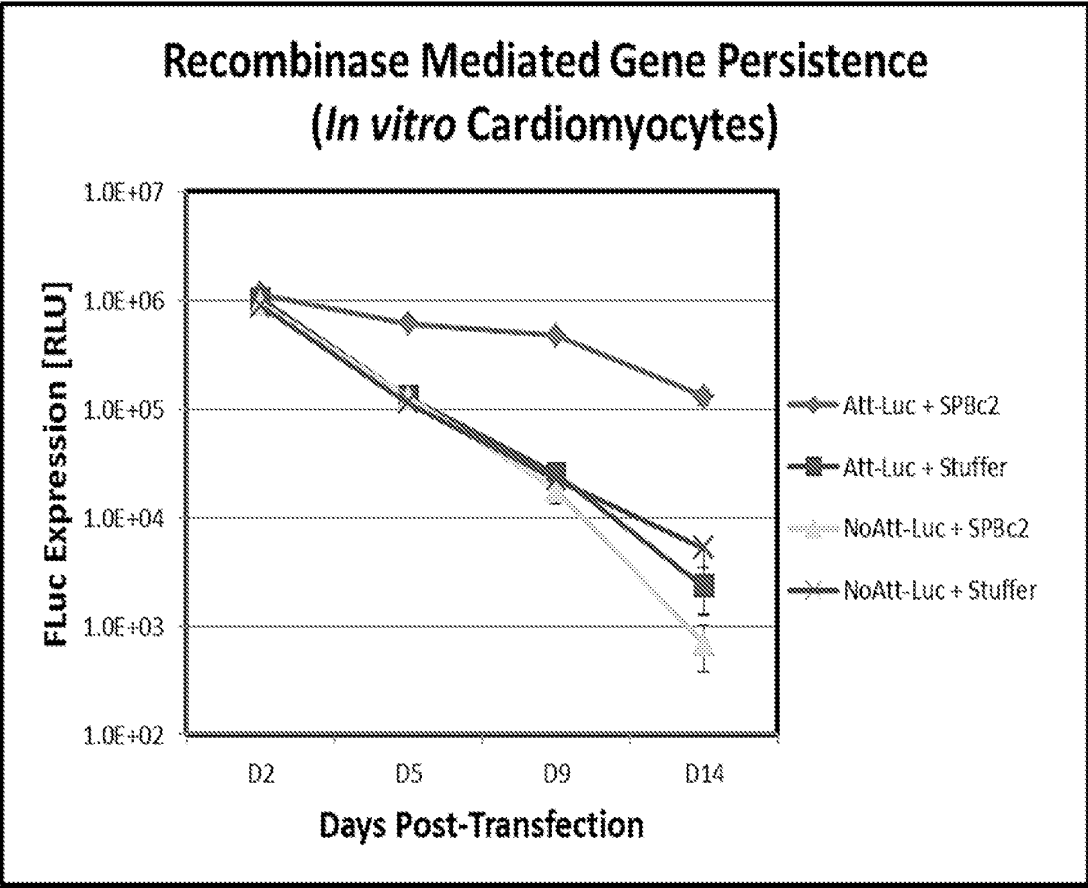


FIG. 2

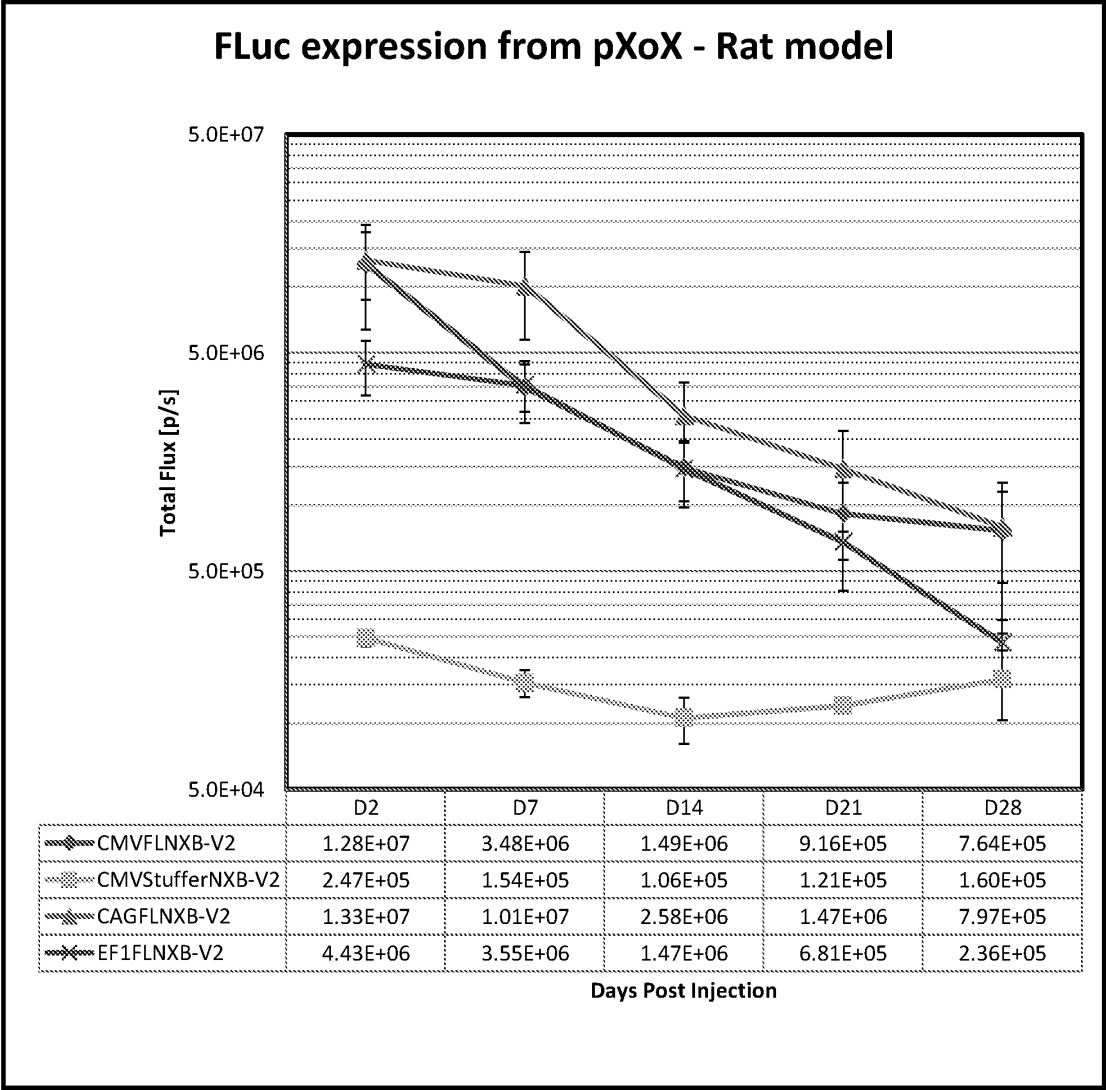


FIG. 3

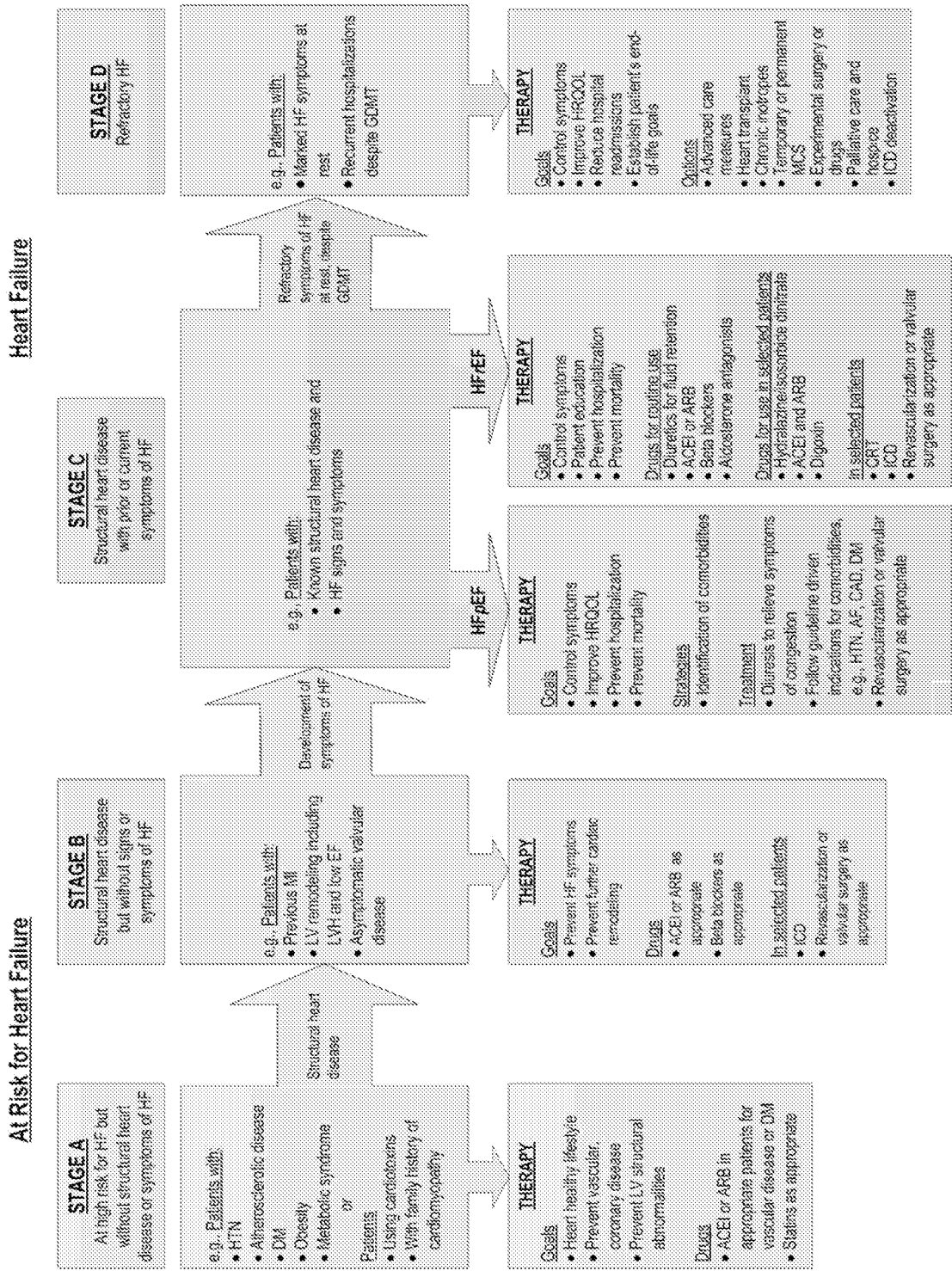


FIG. 4

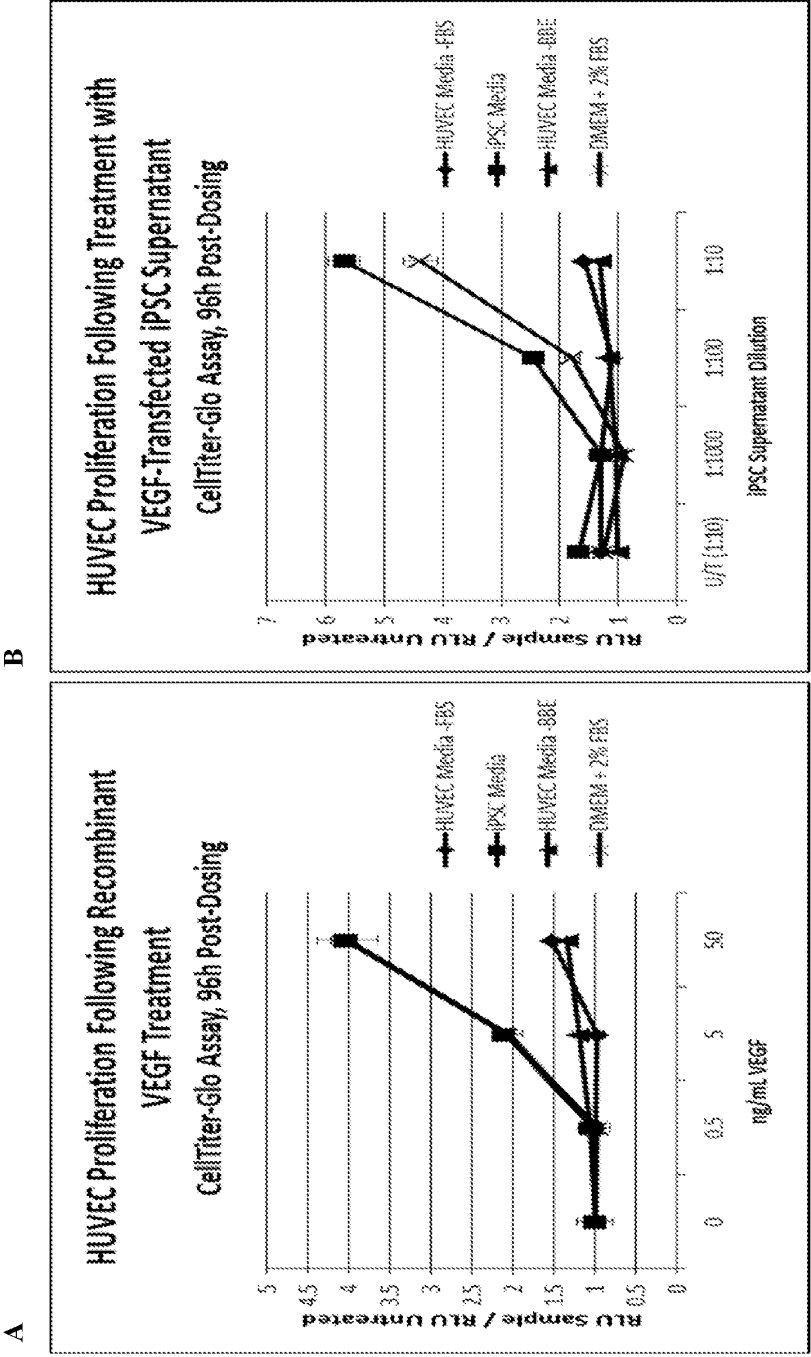
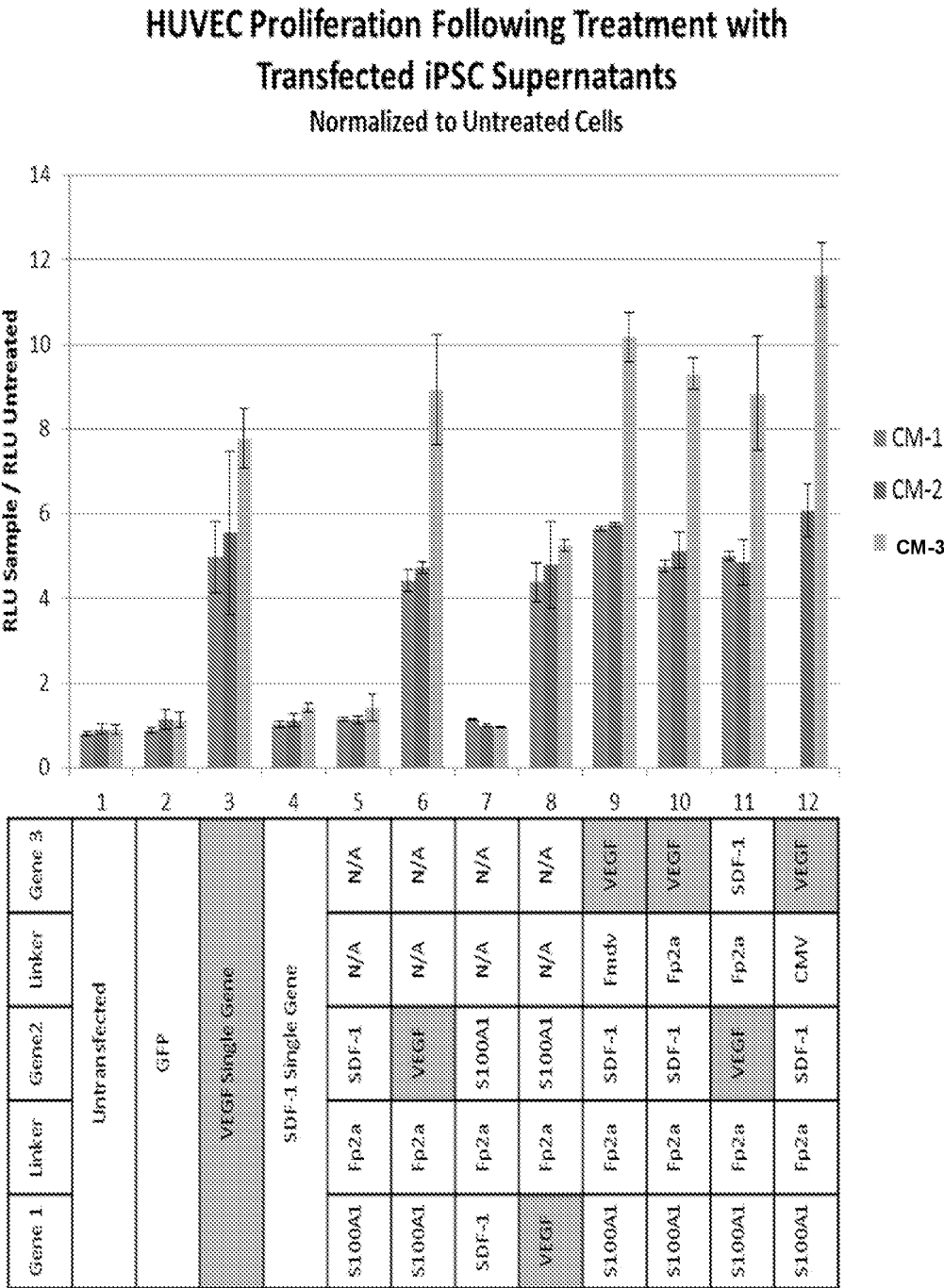


FIG. 5



CM-1 = Cardiomyocyte transfection -1
CM-2 = Cardiomyocyte transfection -2
CM-3 = Cardiomyocyte transfection -3

FIG. 6

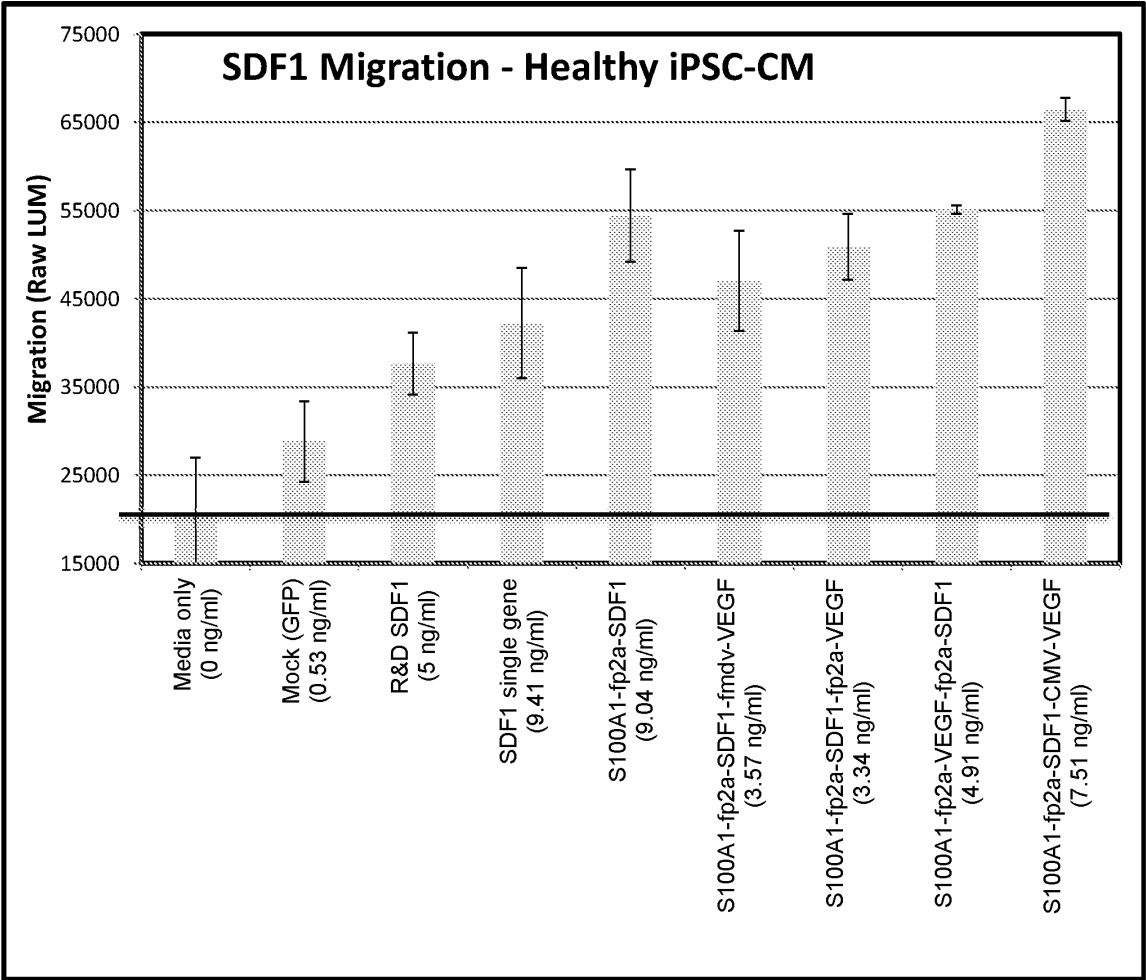


FIG. 7

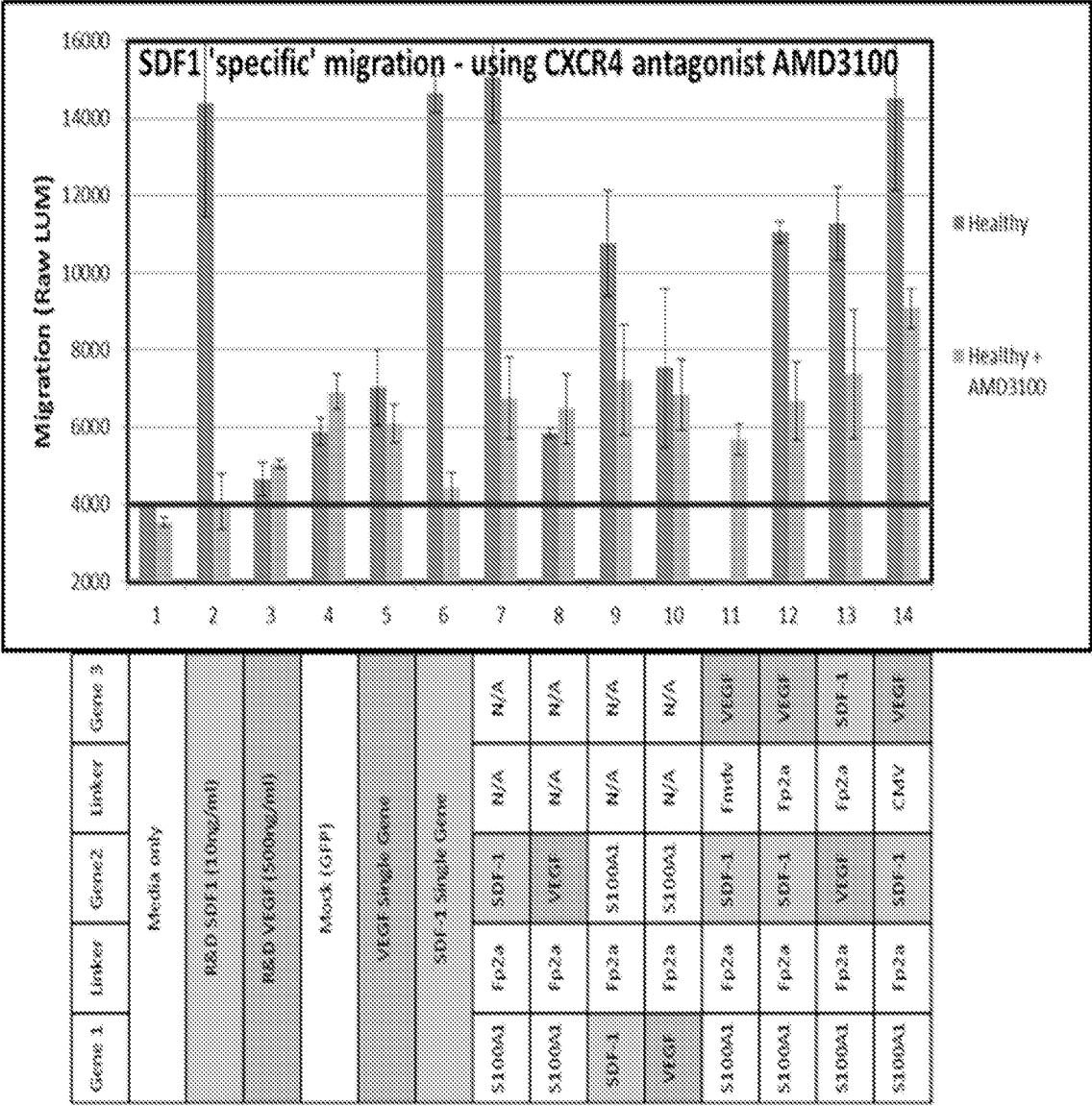


FIG. 8

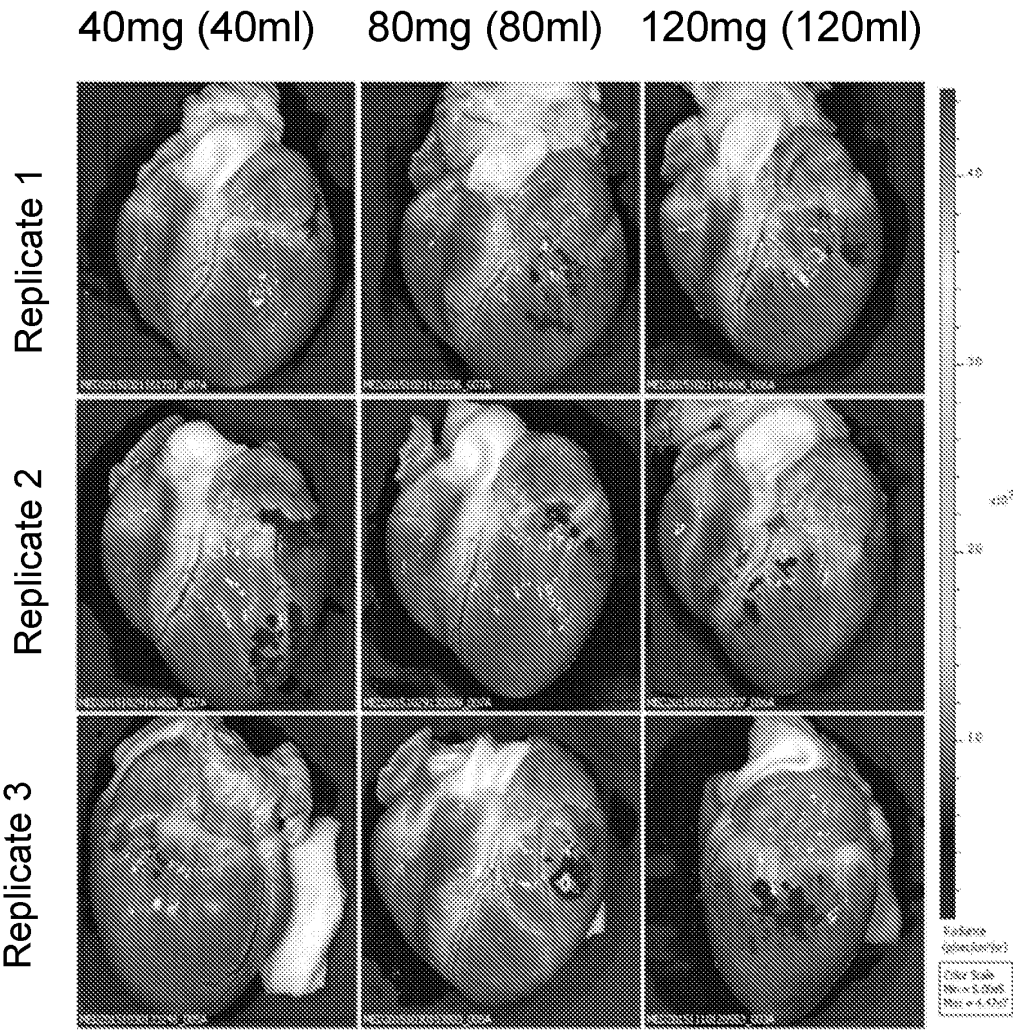


FIG. 9

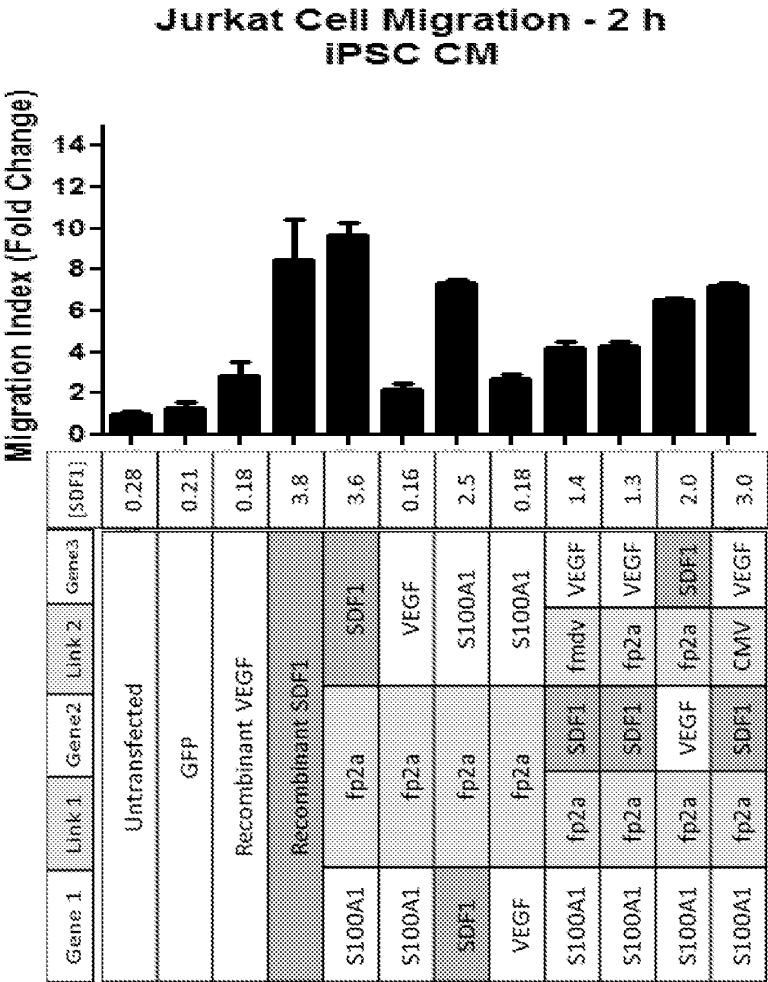


FIG. 10

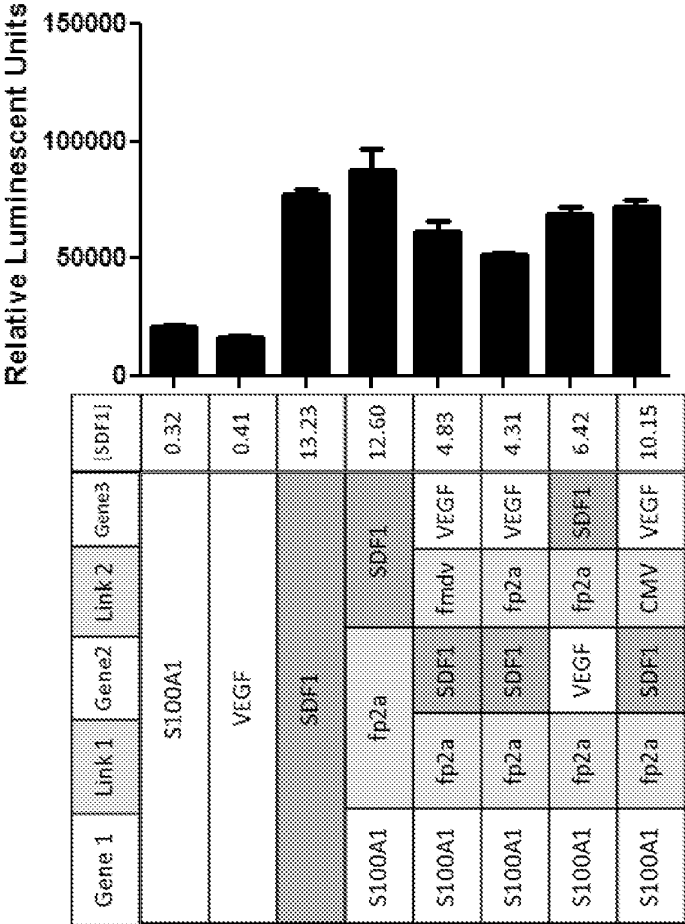


FIG. 11

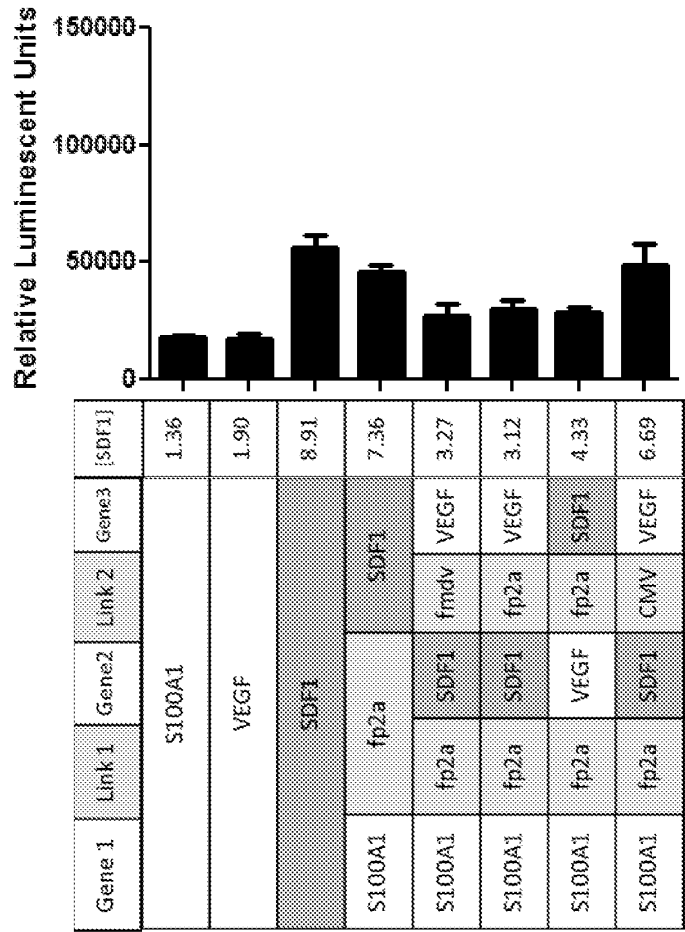


FIG. 12

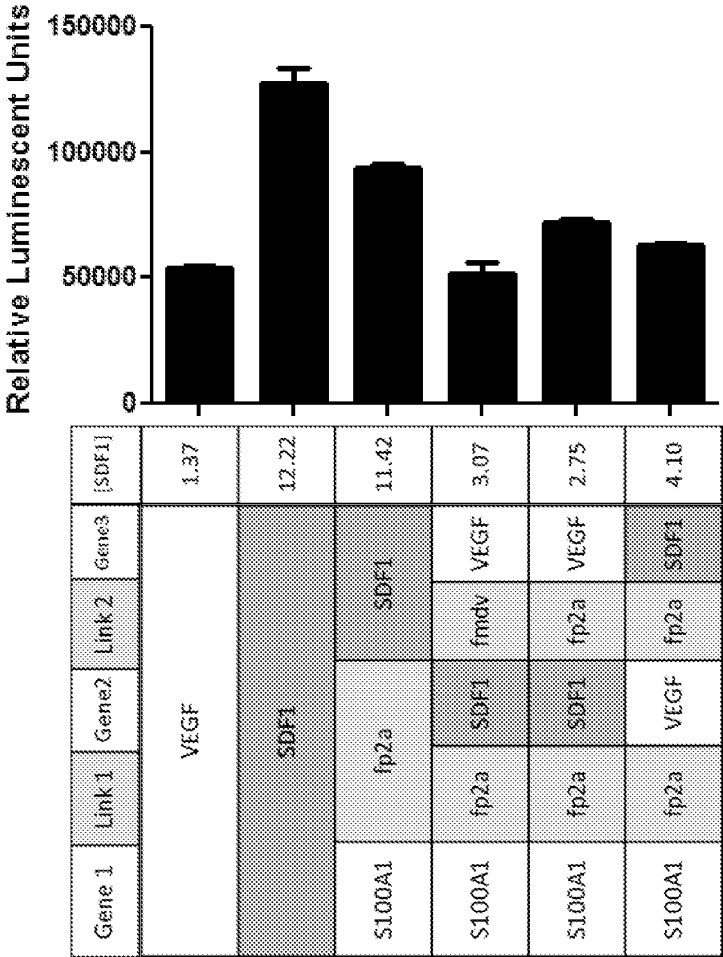


FIG. 13

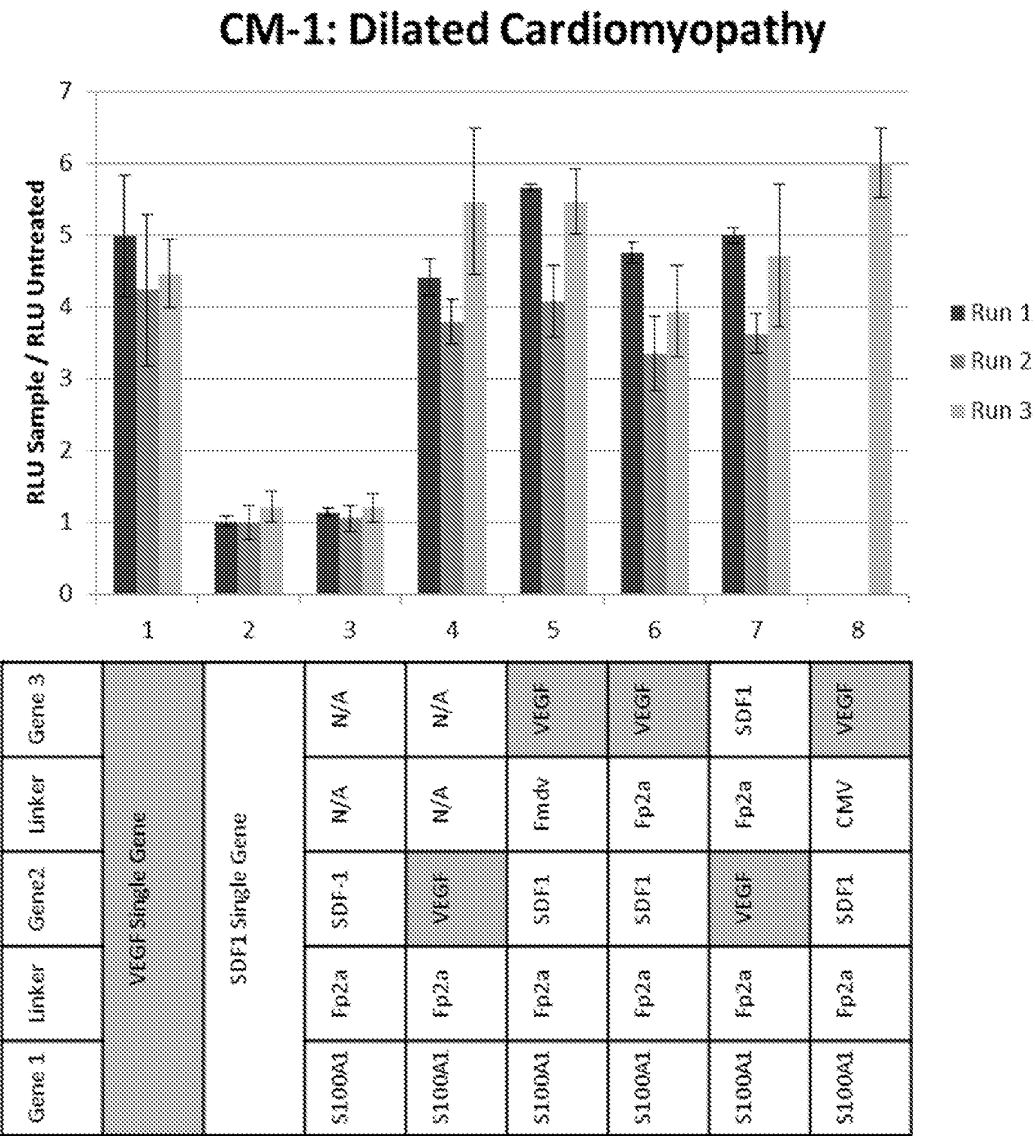


FIG. 14 A

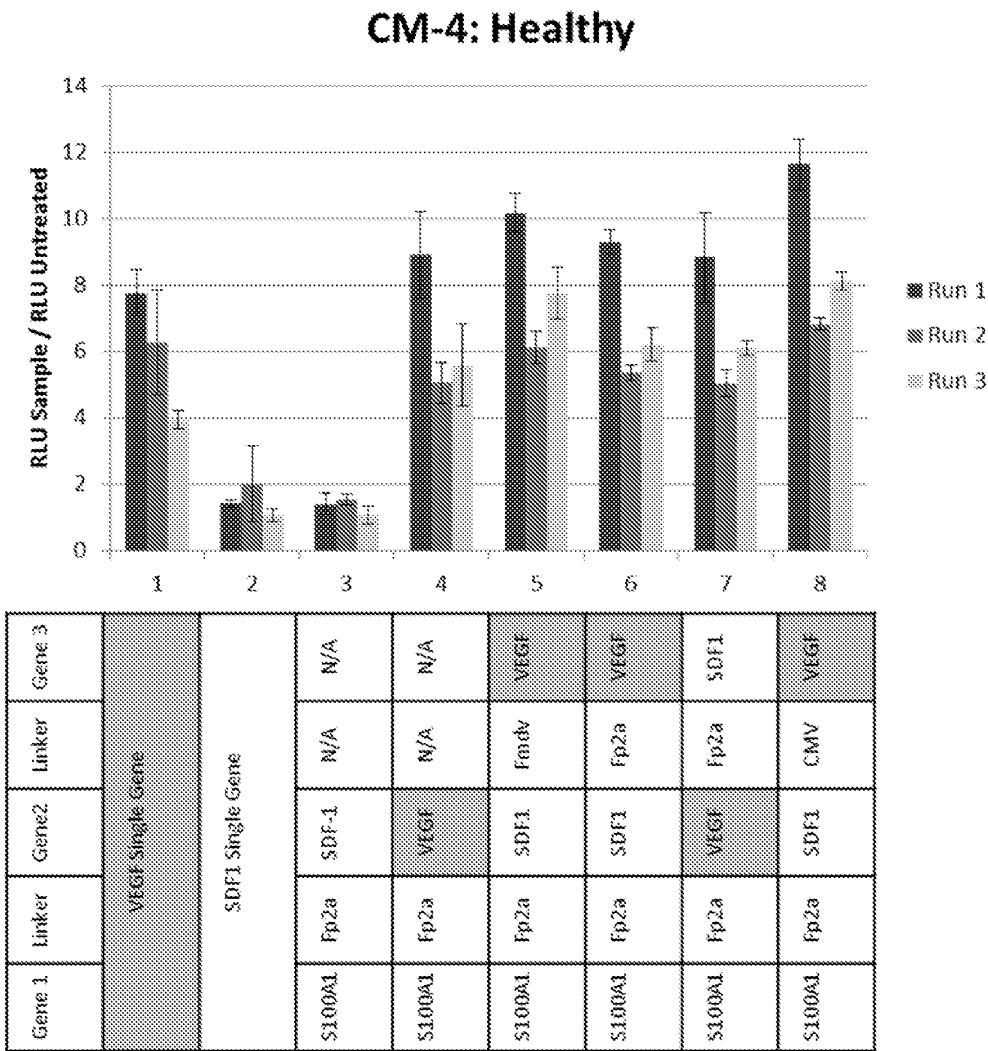
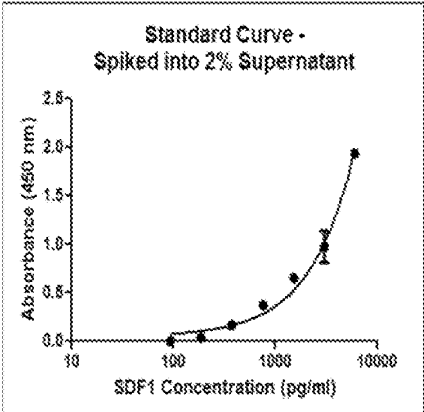
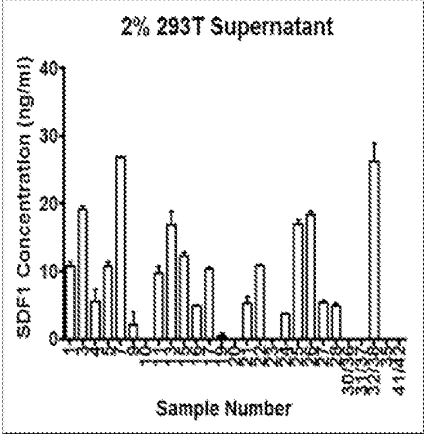


FIG. 14 B

A.



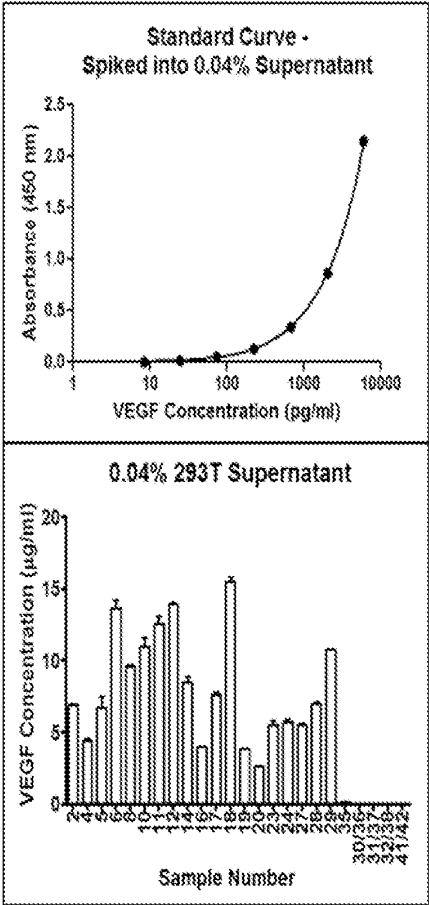
B.



	Kozak	Linker	GOI	[SDF1] (ng/ml)
1	No	Furin-(AP)-F2A	S100A1-SDF1	10.84
3			SDF1-S100A1	19.17
4			SDF1-VEGF191	5.56
5			VEGF191-SDF1	10.77
7		(GSG)-P2A	S100A1-SDF1	26.90
9			SDF1-S100A1	2.09
10			SDF1-VEGF191	0
11			VEGF191-SDF1	9.77
13		Furin-(APVKQGSG)-P2A	S100A1-SDF1	16.88
15			SDF1-S100A1	12.27
16			SDF1-VEGF191	4.99
17			VEGF191-SDF1	10.36
19	Yes	Furin-(AP)-F2A	SDF1-VEGF191	0.43
20			VEGF191-SDF1	0
21		(GSG)-P2A	S100A1-SDF1	5.33
22			SDF1-S100A1	10.94
23			SDF1-VEGF191	0
24			VEGF191-SDF1	3.74
25		Furin-(APVKQGSG)-P2A	S100A1-SDF1	16.95
26			SDF1-S100A1	18.45
27			SDF1-VEGF191	5.42
28			VEGF191-SDF1	4.96
30/36	No	N/A	VEGF191	0
31/37			S100A1	0
32/38			SDF1	26.22
35			Mock	0
41/42			Untransfected	0

FIG. 15

A.

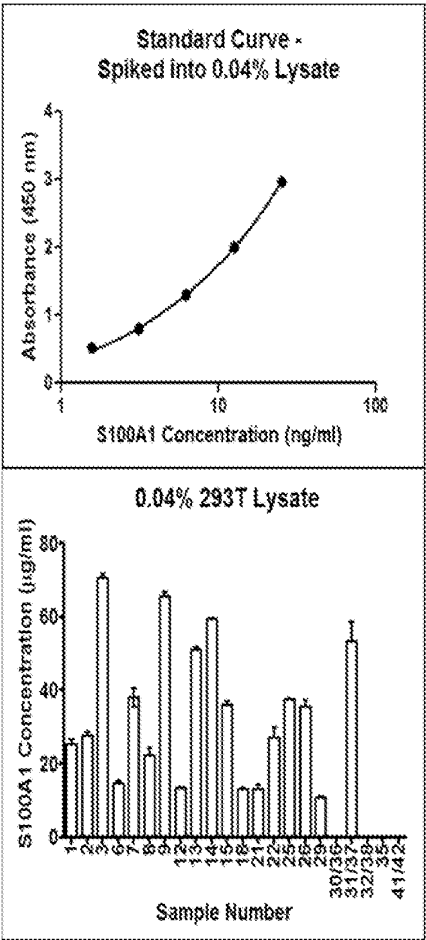


B.

	Kozak	Linker	GOI	[VEGF] (µg/ml)
2	No	Furin-(AP)-F2A	S100A1-VEGF191	6.95
4			SDF1-VEGF191	4.43
5			VEGF191-SDF1	6.72
6			VEGF191-S100A1	13.60
8		(GSG)-P2A	S100A1-VEGF191	9.64
10			SDF1-VEGF191	10.95
11			VEGF191-SDF1	12.57
12			VEGF191-S100A1	13.94
14		Furin-(APVKQSGS)-P2A	S100A1-VEGF191	8.49
16			SDF1-VEGF191	3.97
17			VEGF191-SDF1	7.58
18			VEGF191-S100A1	15.49
19	Yes	Furin-(AP)-F2A	SDF1-VEGF191	3.86
20			VEGF191-SDF1	2.65
23		(GSG)-P2A	SDF1-VEGF191	5.53
24			VEGF191-SDF1	5.69
27		Furin-(APVKQSGS)-P2A	SDF1-VEGF191	5.53
28			VEGF191-SDF1	6.96
29			VEGF191-S100A1	10.78
30/36*	No	N/A	VEGF191	0.18
31/37			S100A1	0
32/38			SDF1	0
35			Mock	0
41/42			Untransfected	0

FIG. 16

A.



B.

	Kozak	Linker	GOI	[S100A1] (µg/ml)
1	No	Furin-(AP)-F2A	S100A1-SDF1	25.4
2			S100A1-VEGF191	27.6
3			SDF1-S100A1	70.7
6			VEGF191-S100A1	14.5
7		(GSG)-P2A	S100A1-SDF1	38.0
8			S100A1-VEGF191	22.2
9			SDF1-S100A1	65.4
12			VEGF191-S100A1	13.4
13		Furin-(APVKQGSG)-P2A	S100A1-SDF1	51.1
14			S100A1-VEGF191	59.3
15			SDF1-S100A1	36.0
18			VEGF191-S100A1	13.0
21	Yes	(GSG)-P2A	S100A1-SDF1	13.1
22			SDF1-S100A1	27.0
25		Furin-(APVKQGSG)-P2A	S100A1-SDF1	37.4
26			SDF1-S100A1	35.5
29	No	N/A	VEGF191-S100A1	10.9
30/36*			VEGF191	0
31/37			S100A1	53.2
32/38			SDF1	0
35			Mock	0
41/42			Untransfected	0

FIG. 17

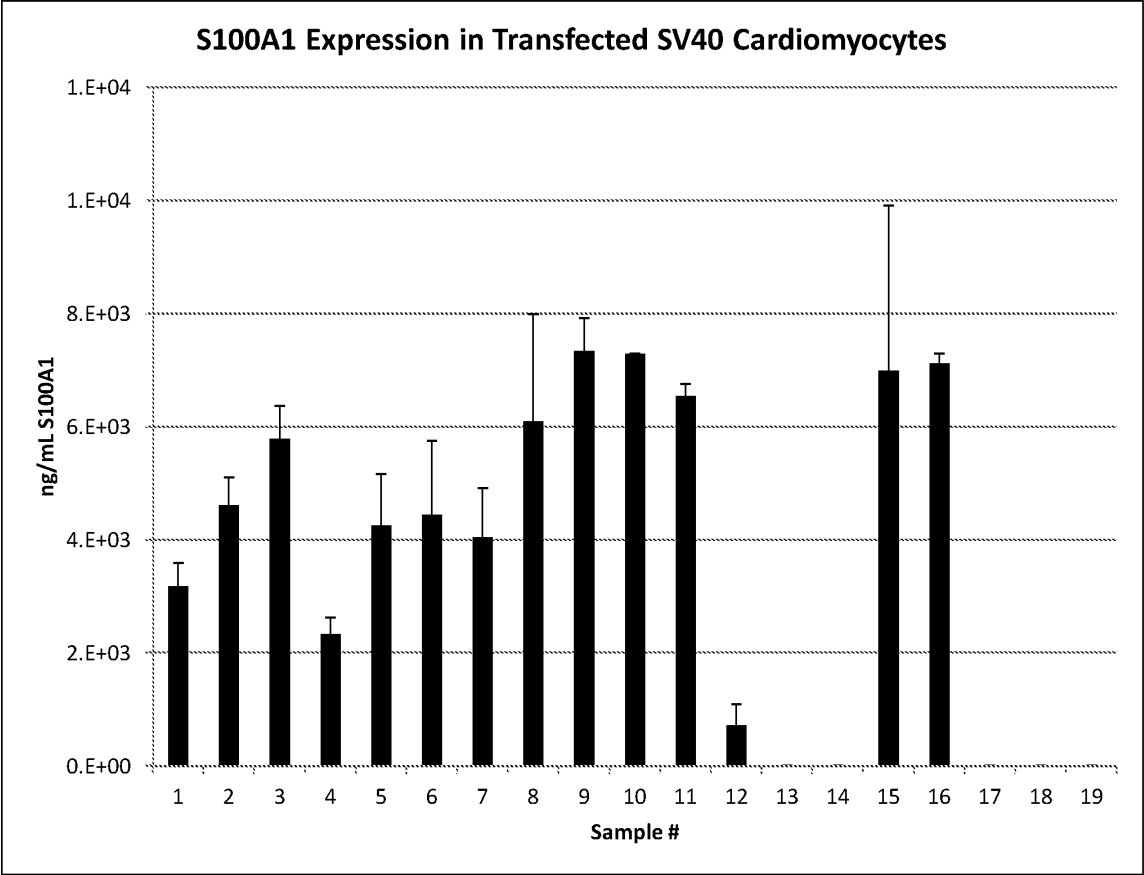


FIG. 18

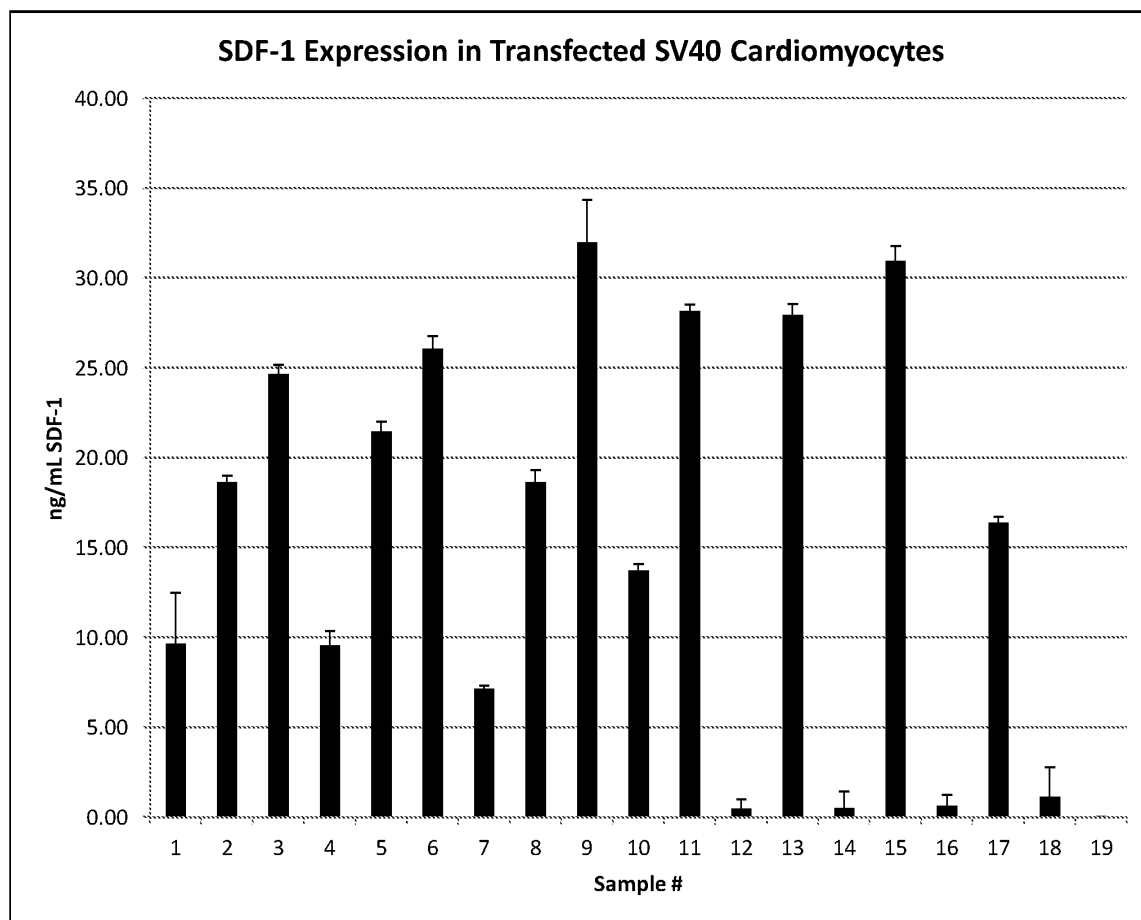


FIG. 19

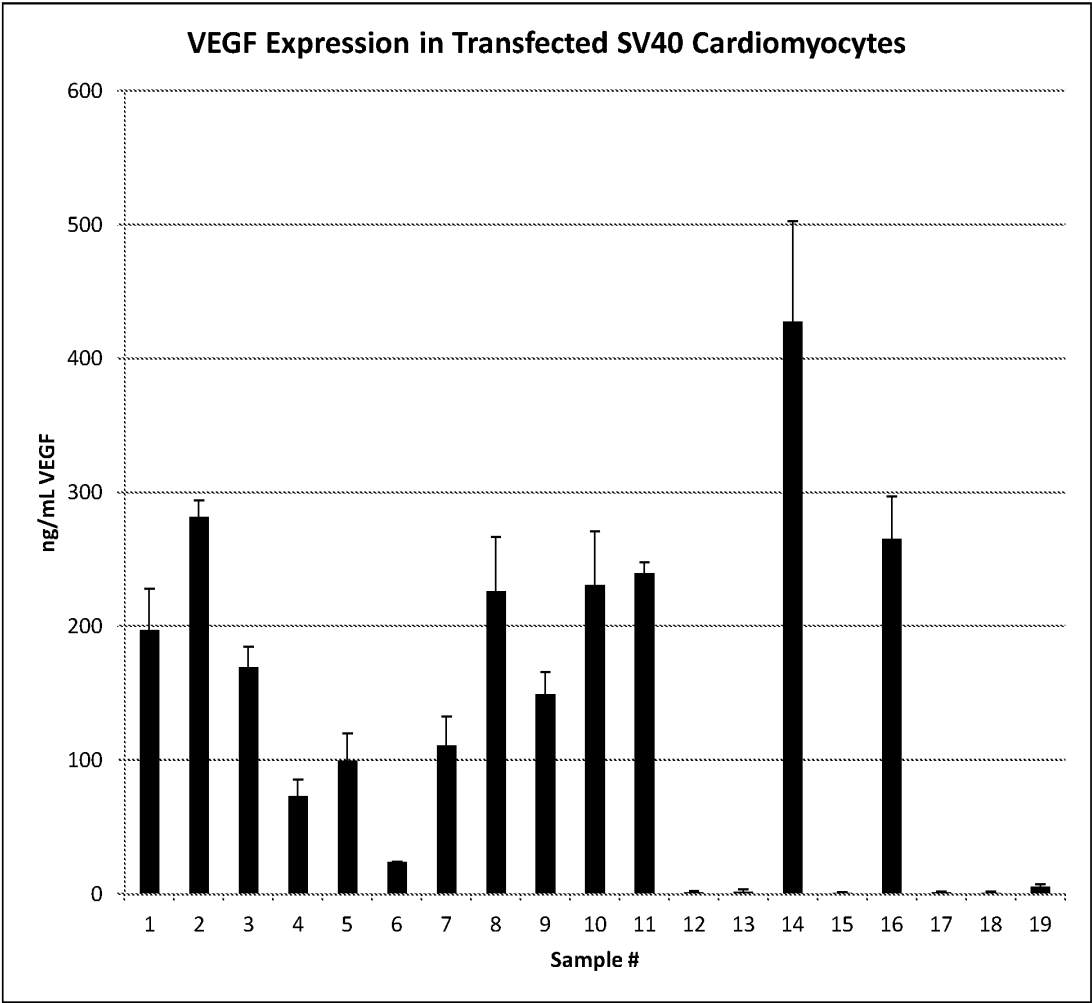


FIG. 20

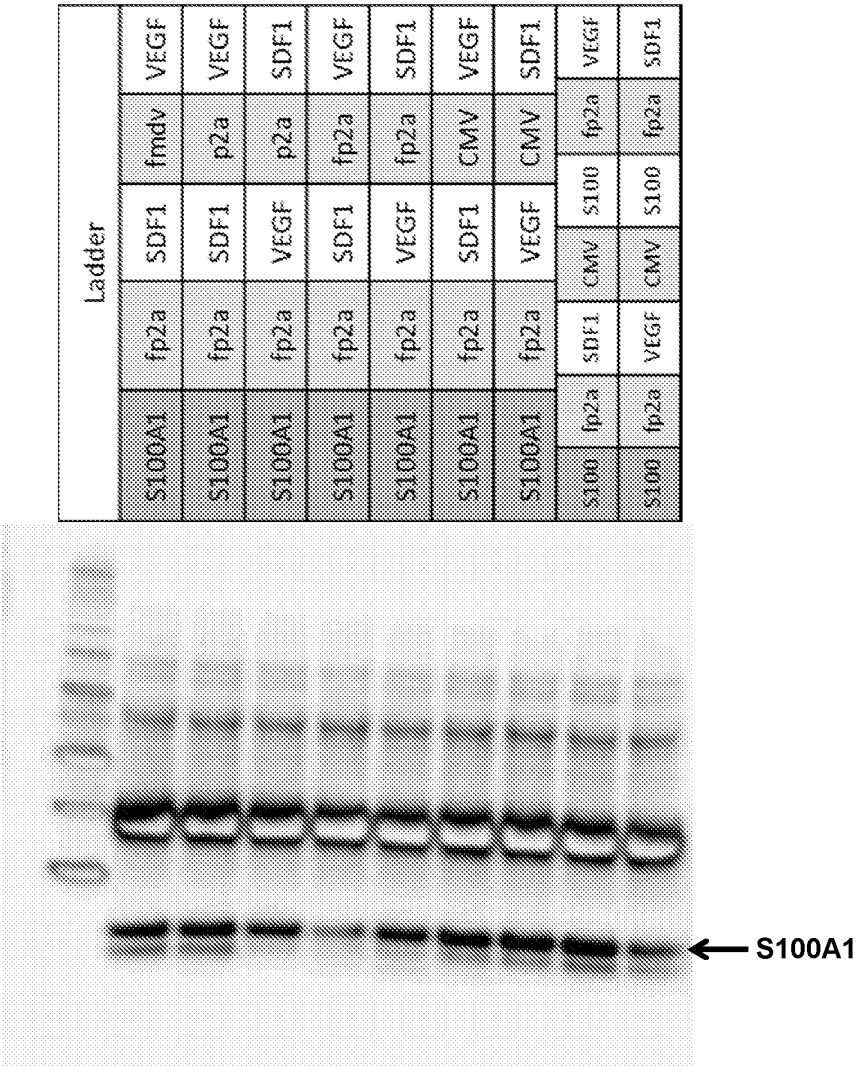


FIG. 21

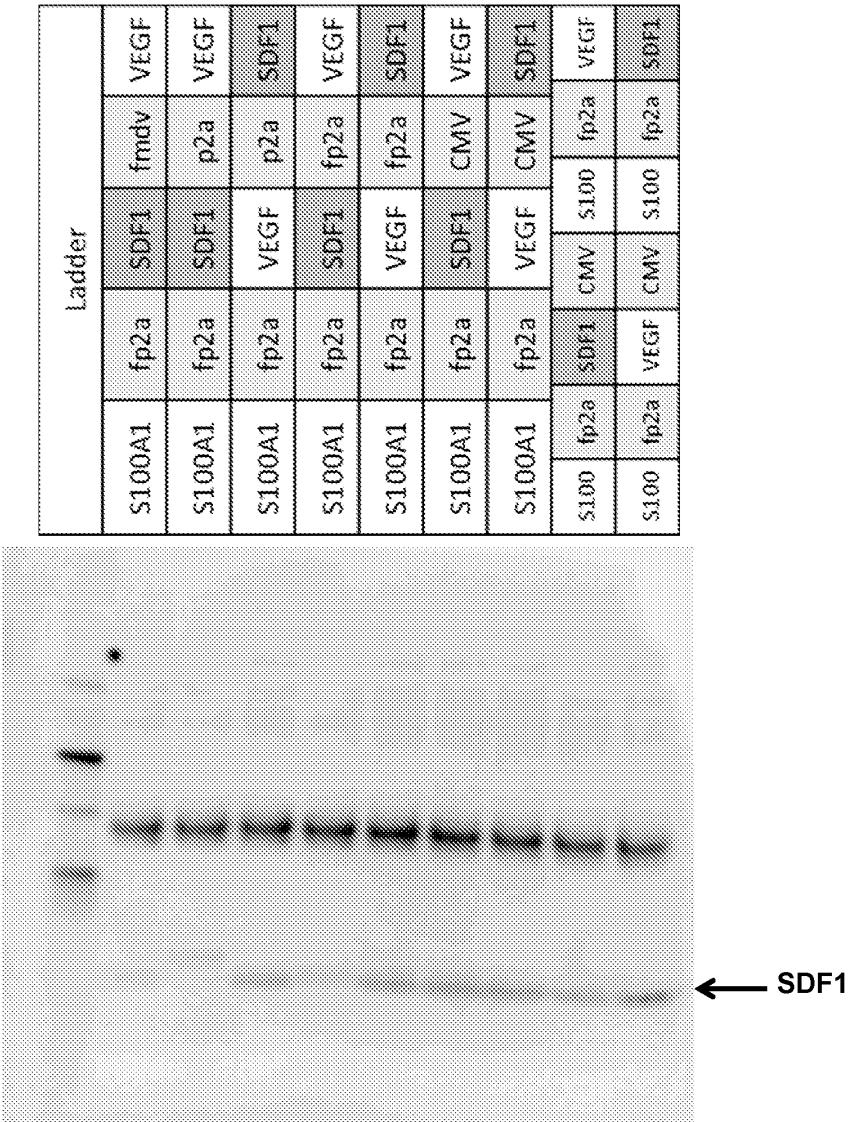


FIG. 22

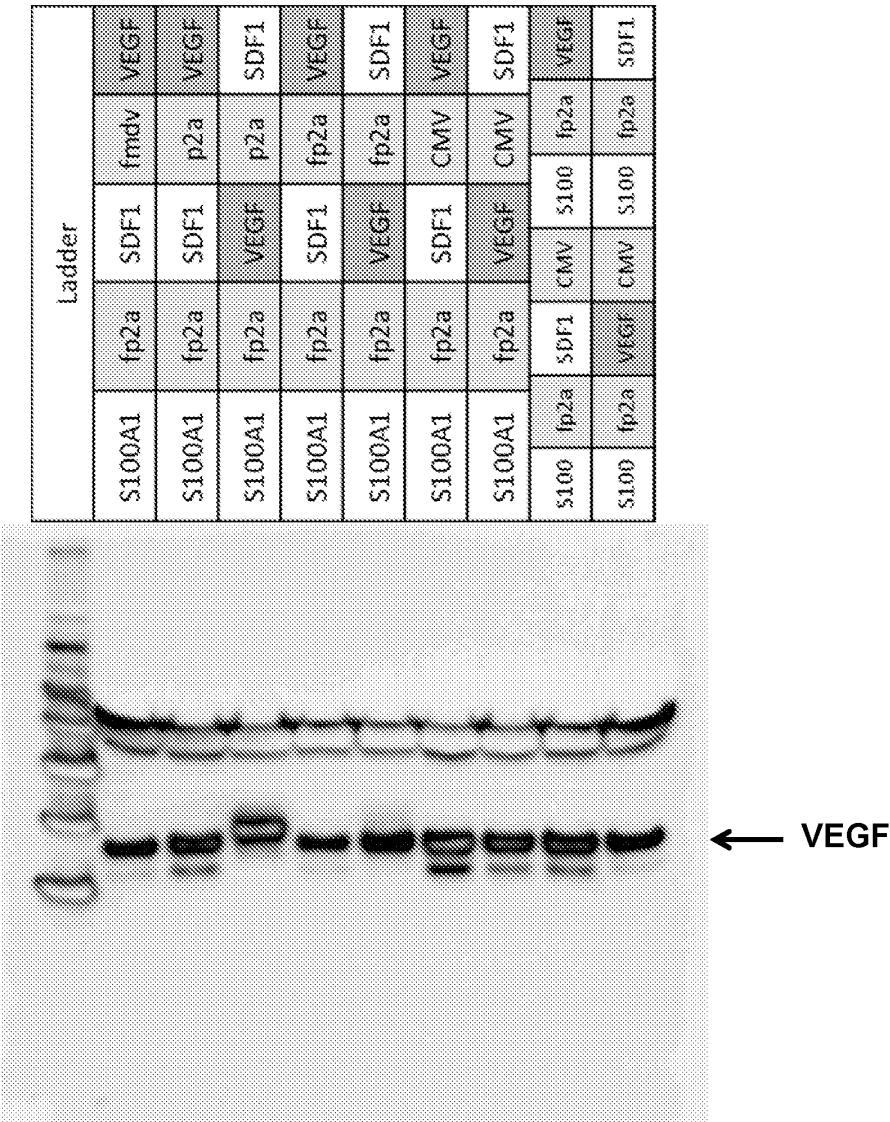


FIG. 23

Gene 1	Link 1	Gene2	Link 2	Gene3
Ladder				
Recombinant S100A1 (1 ul)				
S100A1				
SDF1				
S100A1	fp2a	fp2a	SDF1	
S100A1	fp2a	fp2a	VEGF	
S100A1	fp2a	SDF1	fp2a	VEGF
S100A1	fp2a	VEGF	fp2a	SDF1
S100A1	CMV	SDF1	fp2a	VEGF
S100A1	CMV	VEGF	fp2a	SDF1

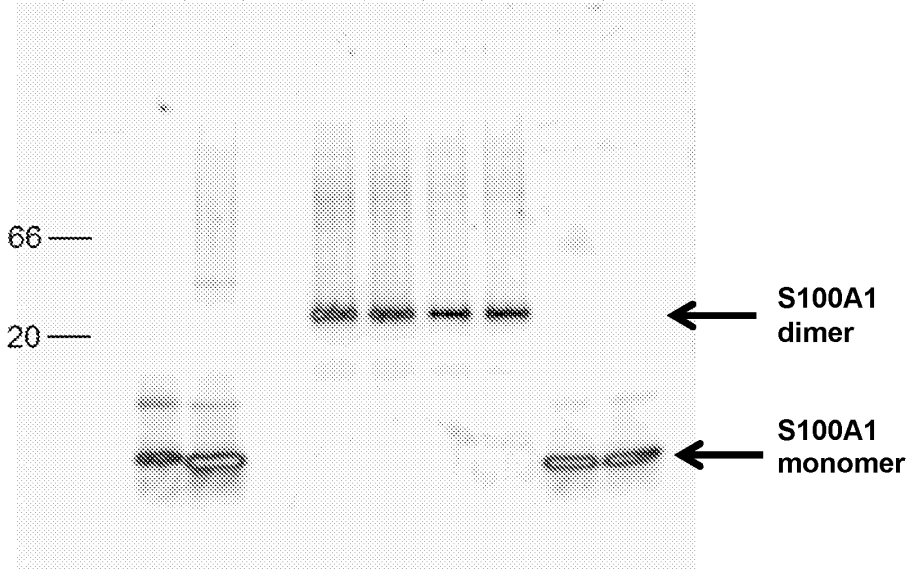
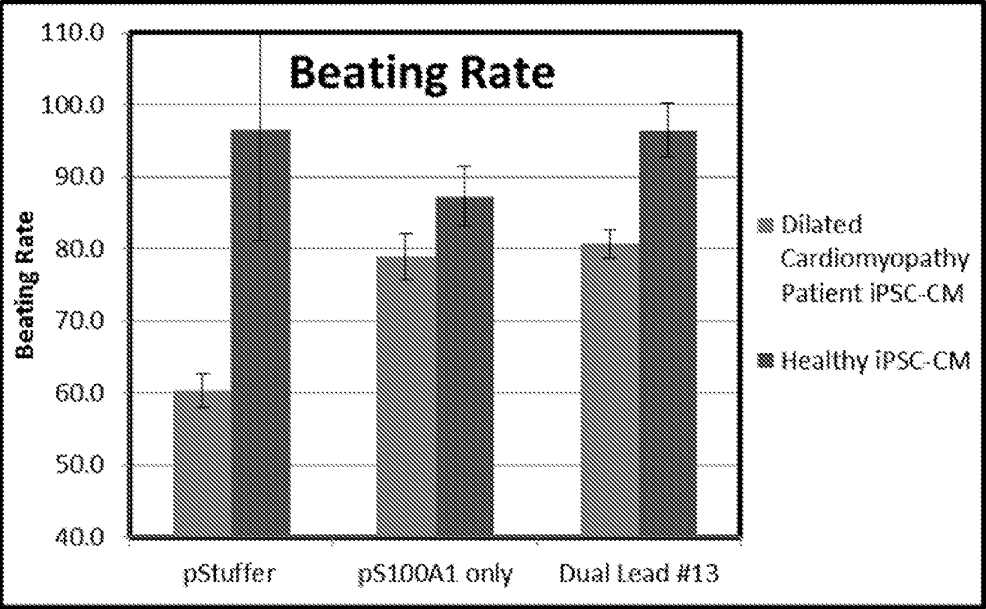


FIG. 24

A.



B.

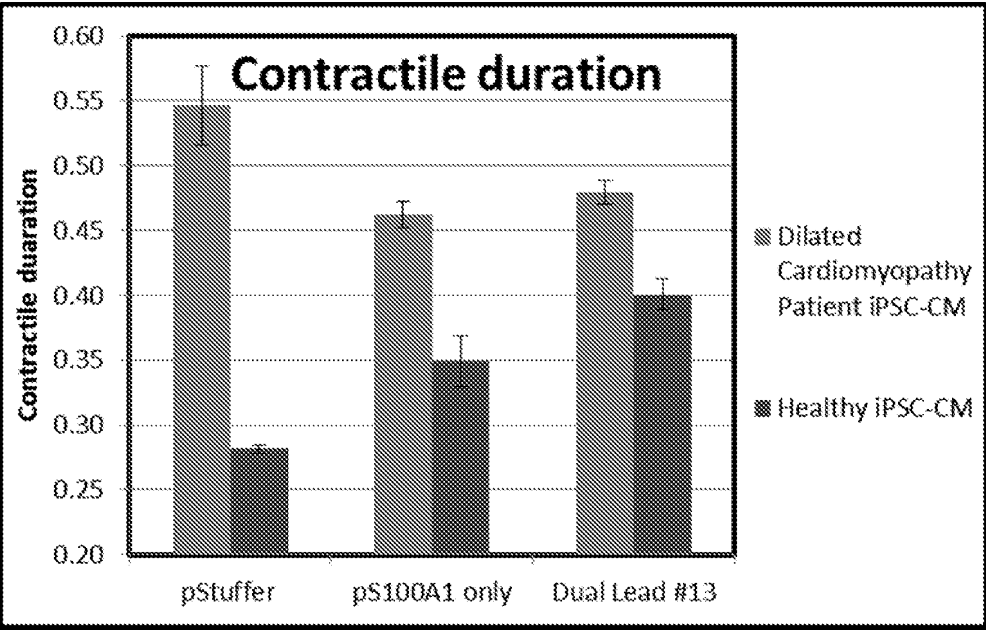
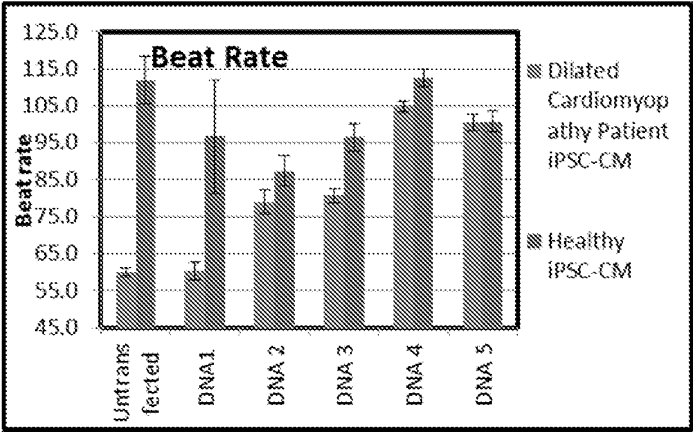
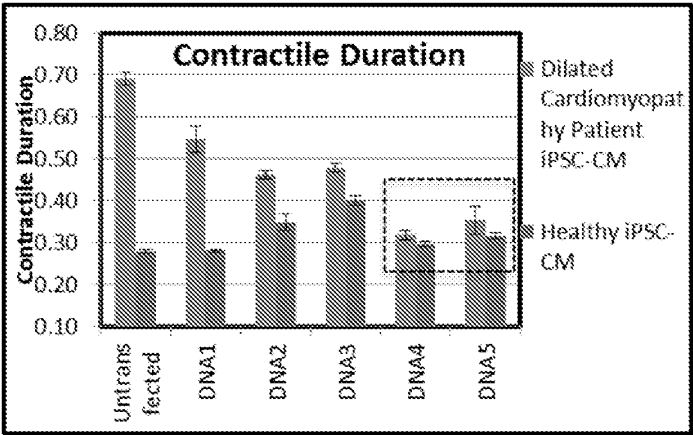


FIG. 25

A.



B.



C.

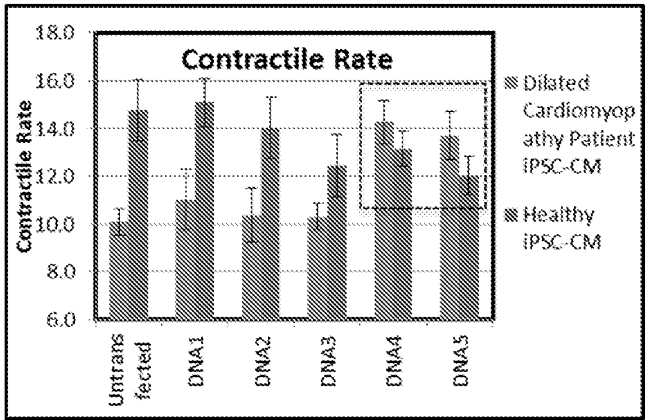
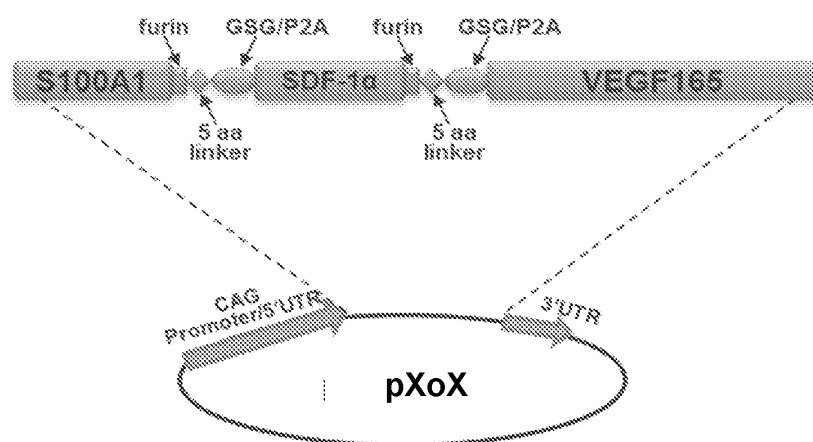


FIG. 26

A.



B.

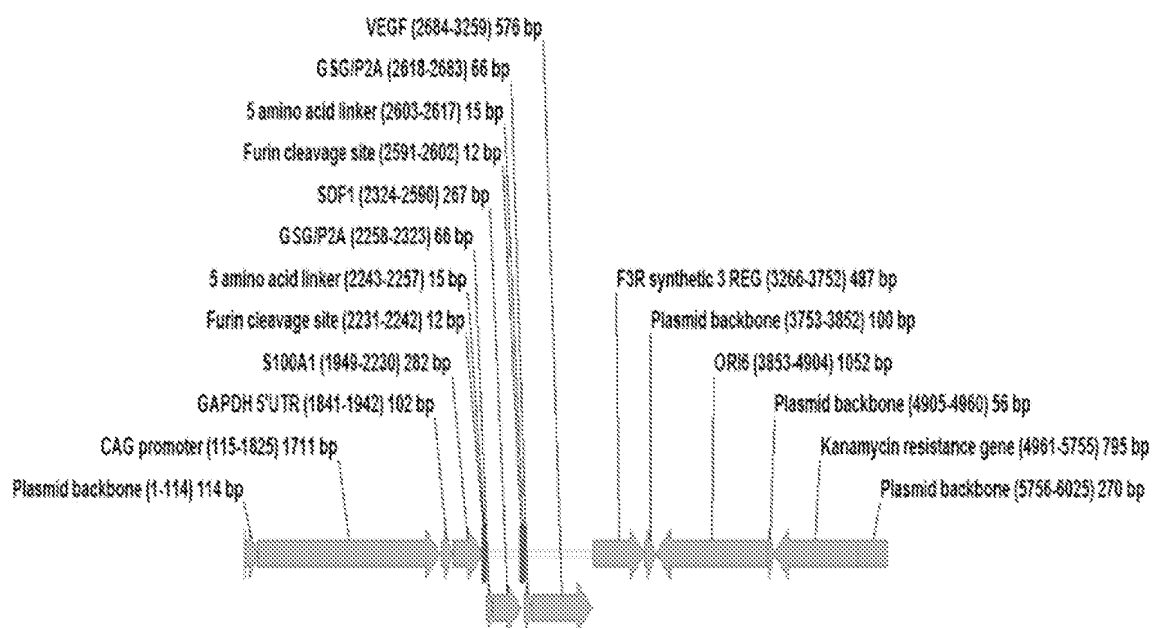


FIG. 27

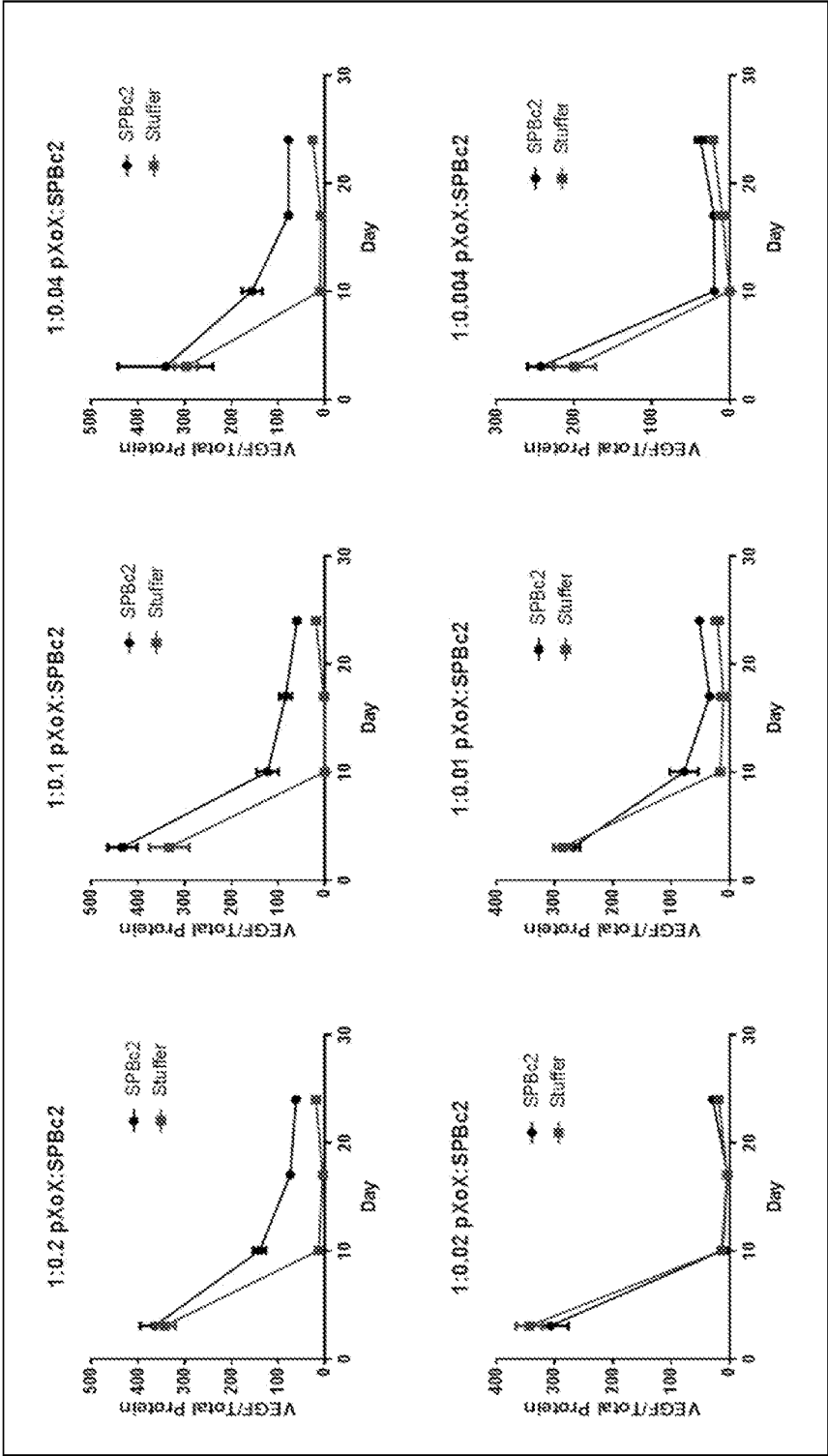


FIG. 28

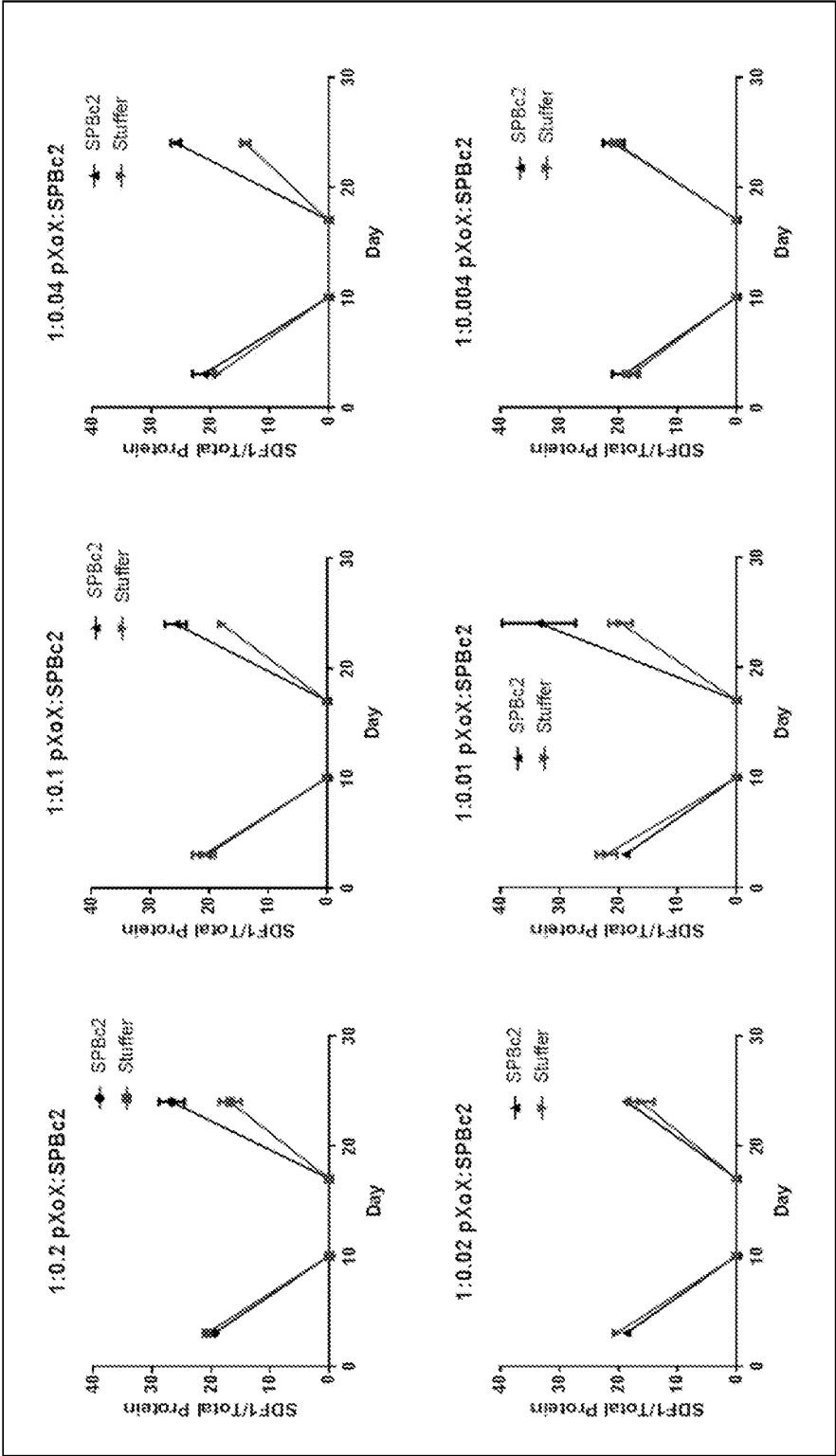


FIG. 29

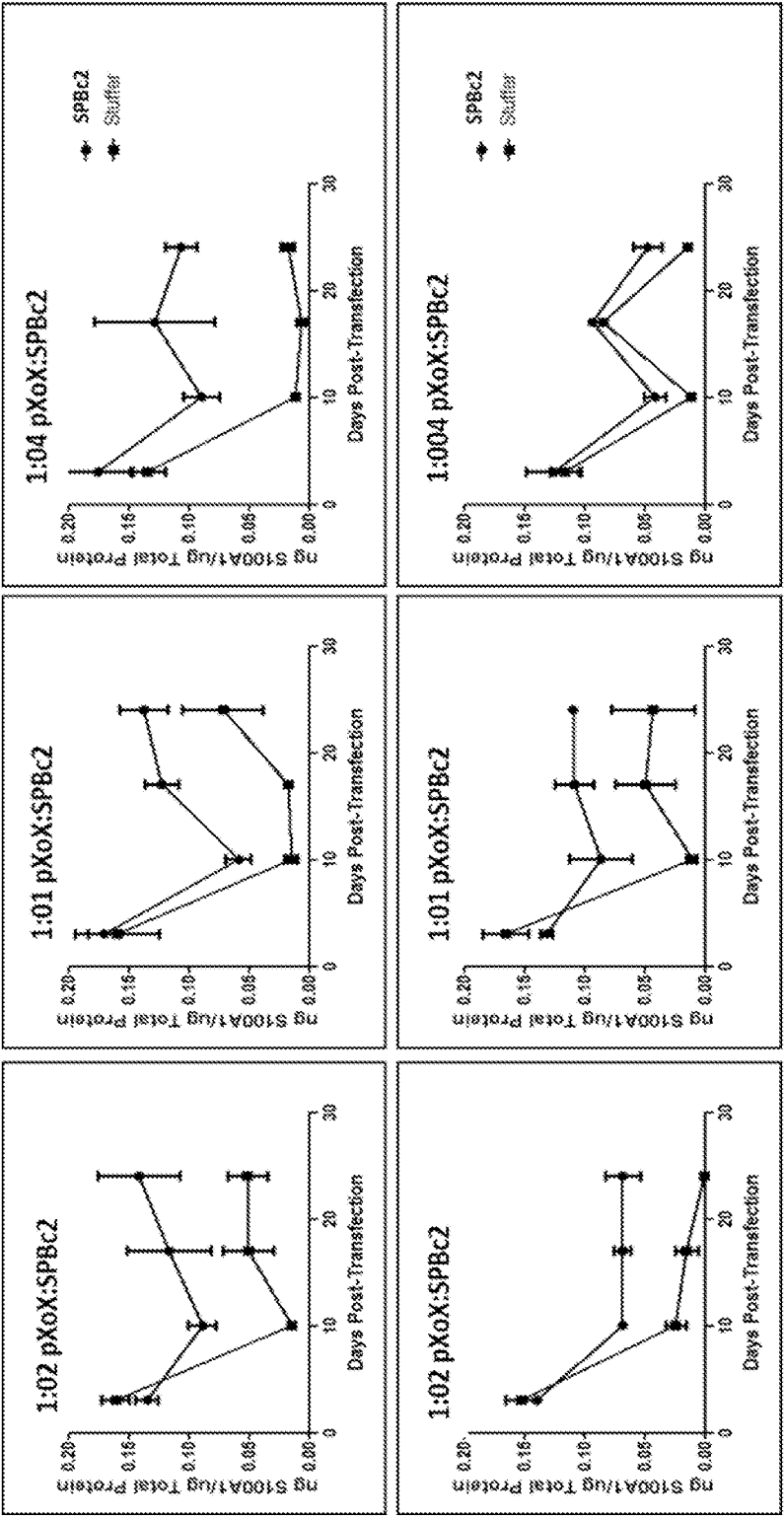
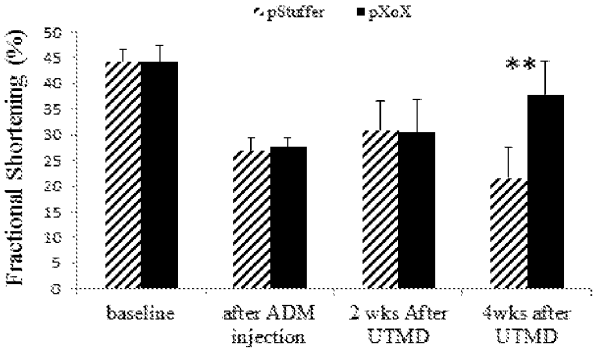
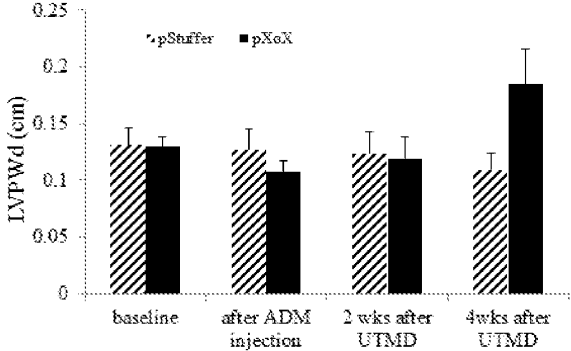


FIG. 30

A.



B.



C.

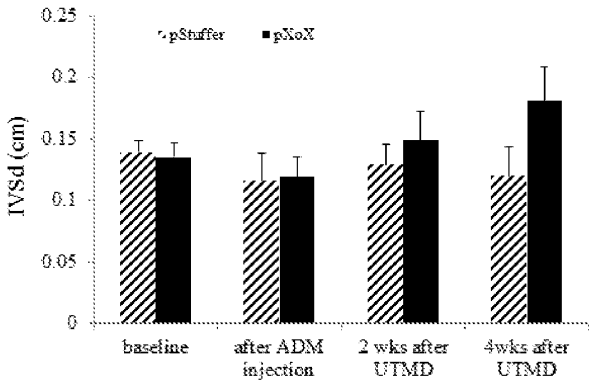


FIG. 31

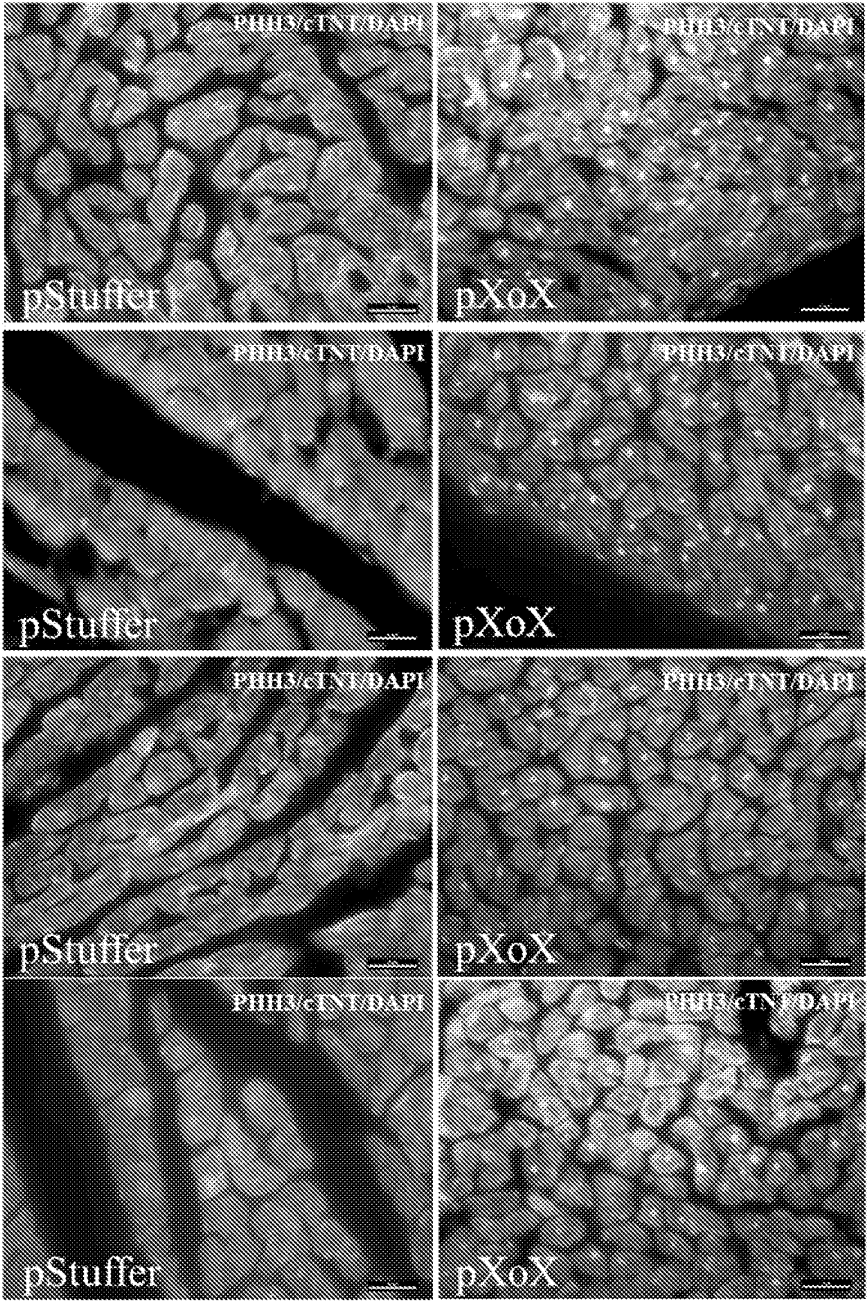


FIG. 32

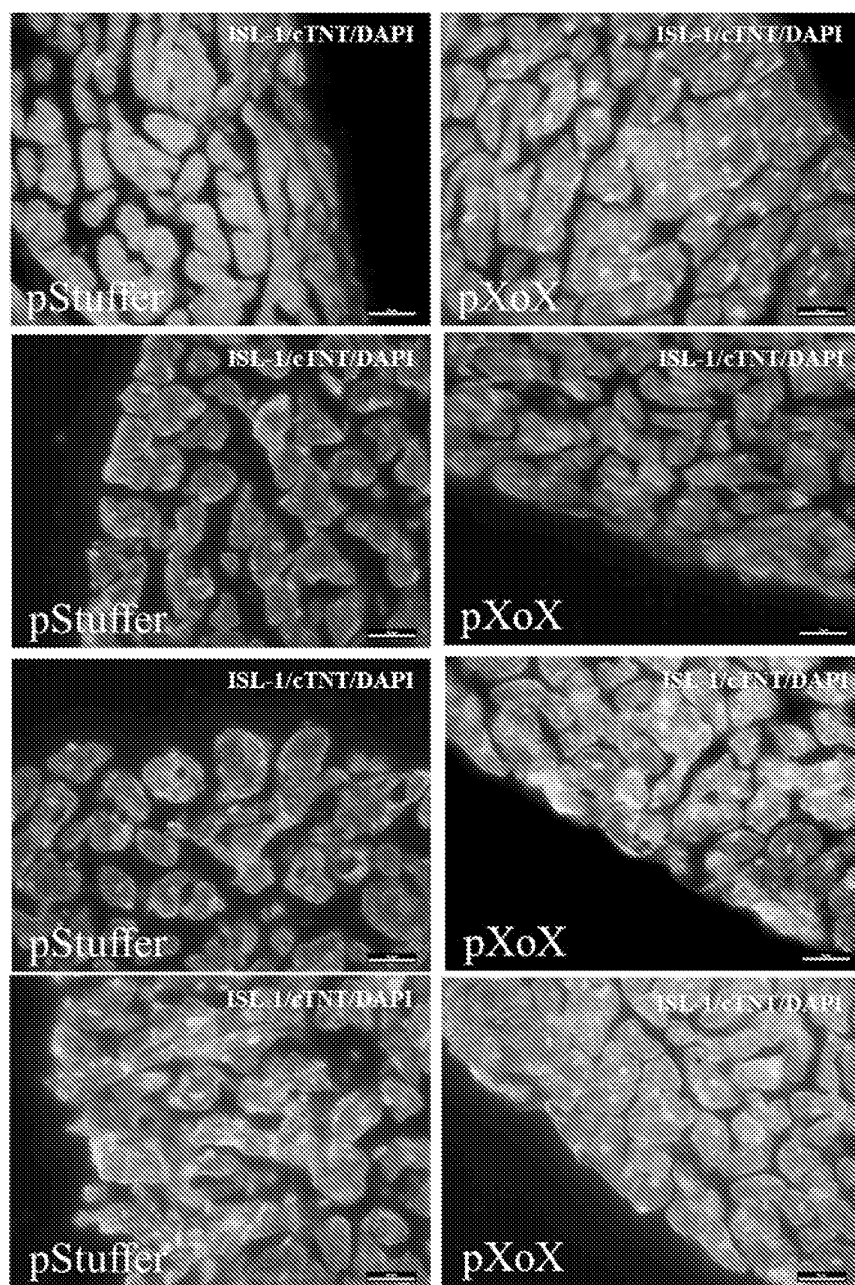


FIG. 33