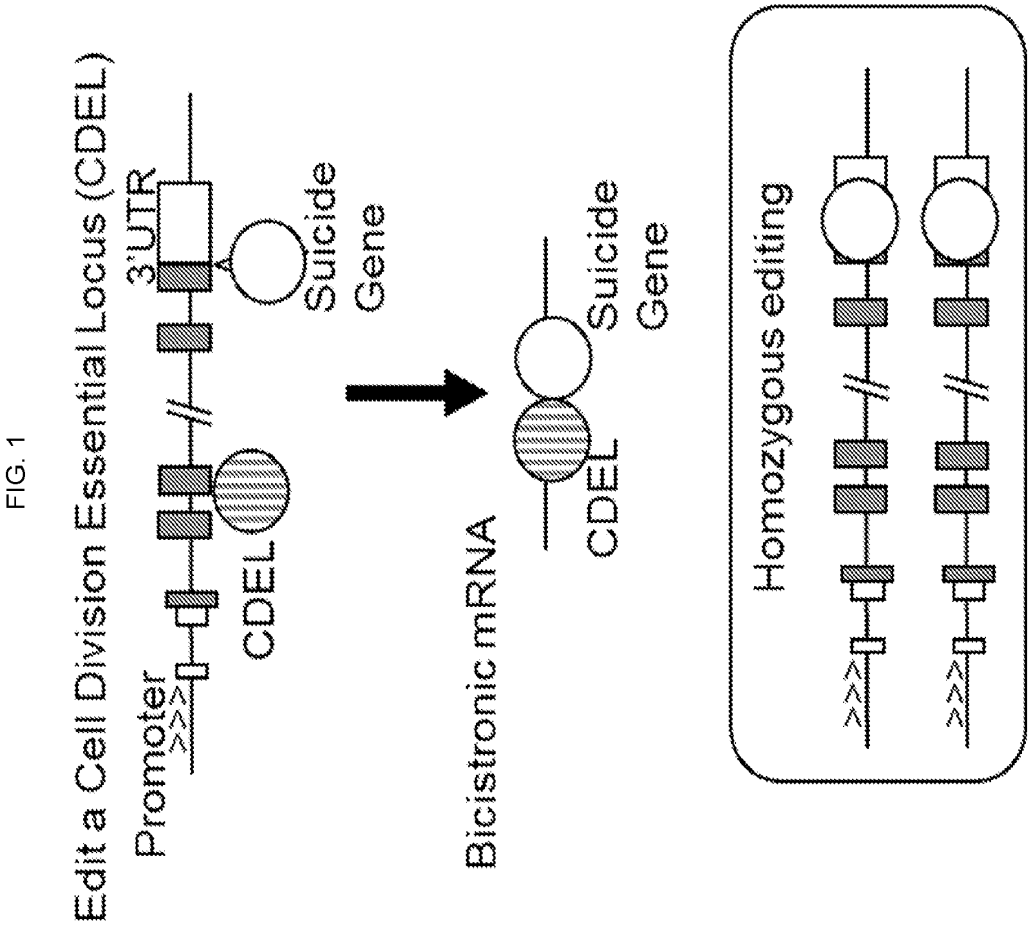




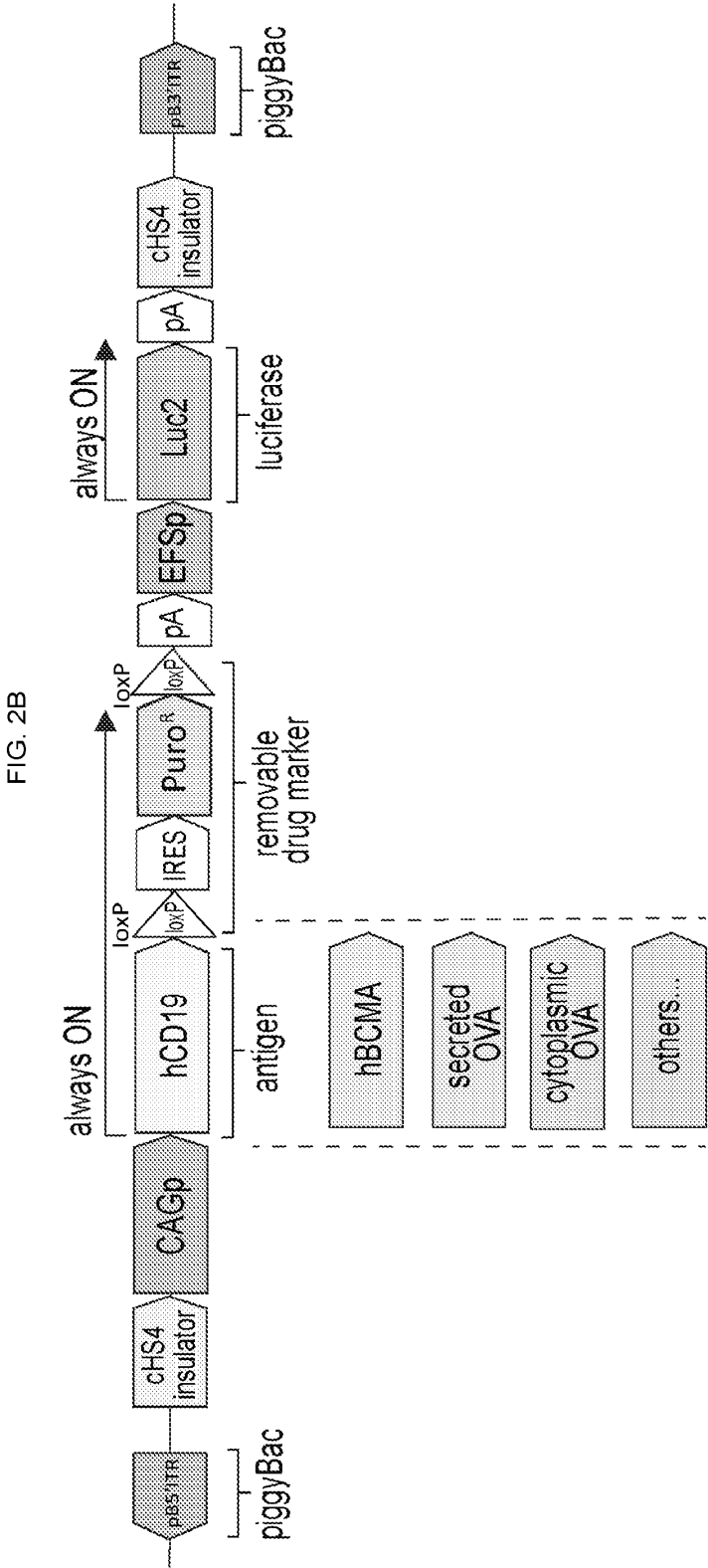
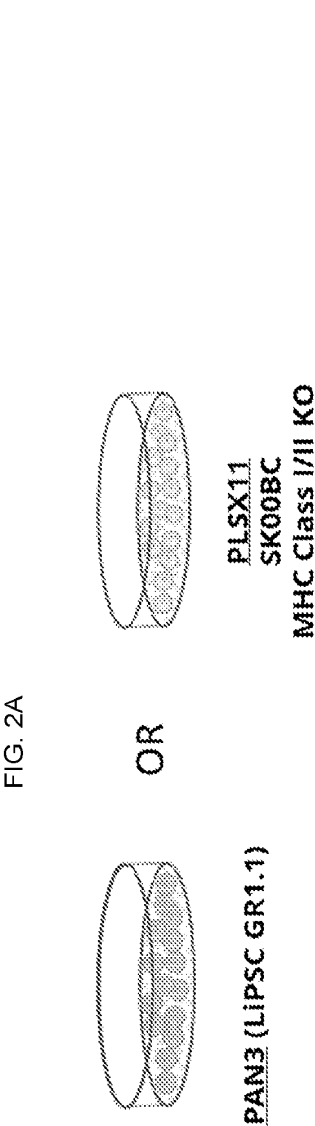


FIG. 2C

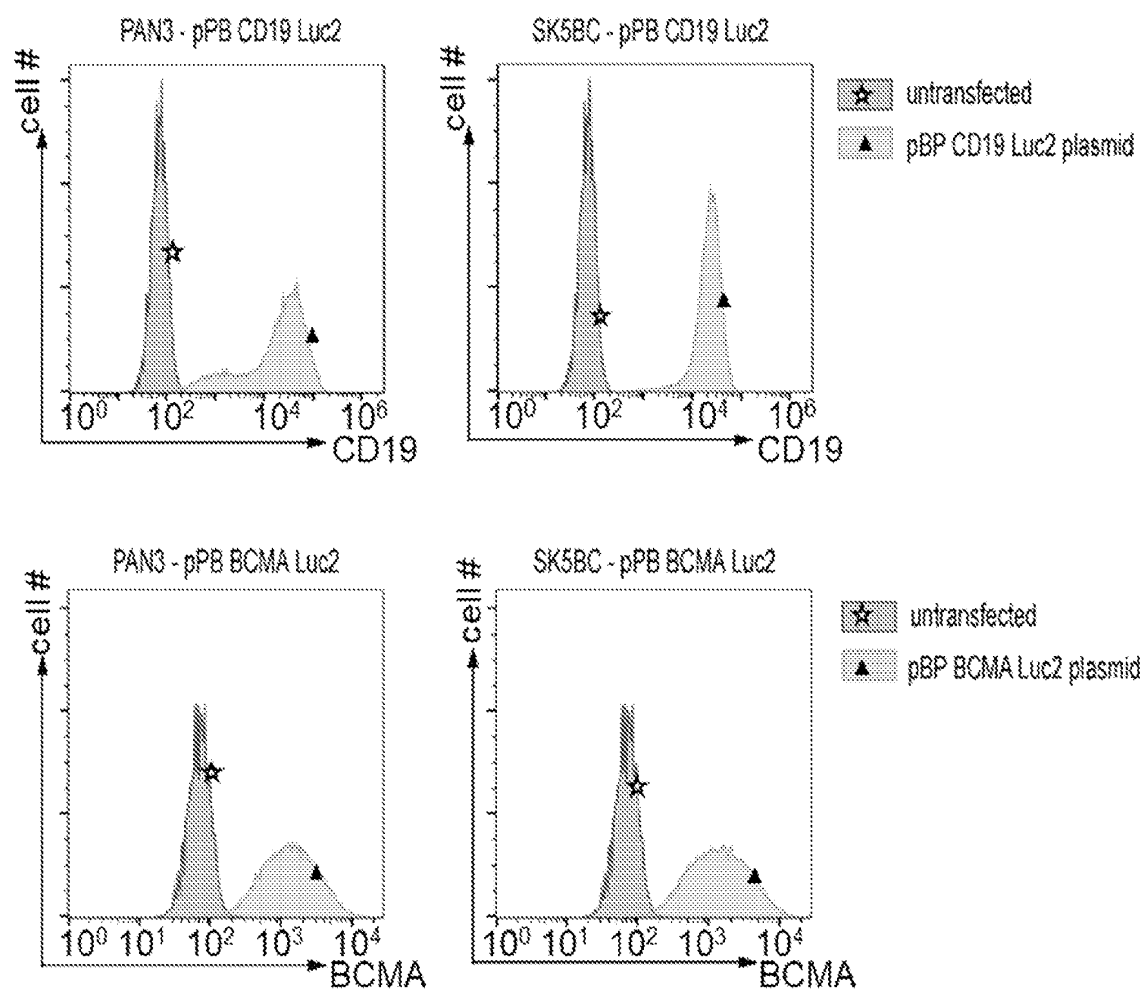


FIG. 2D

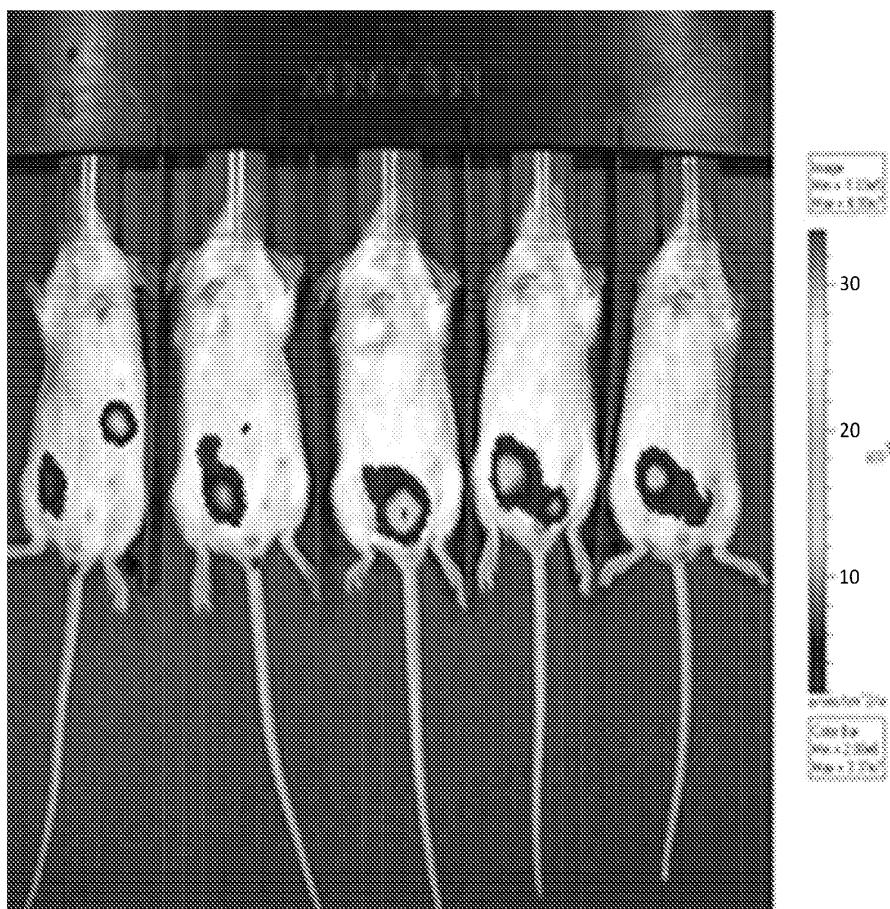


FIG. 3

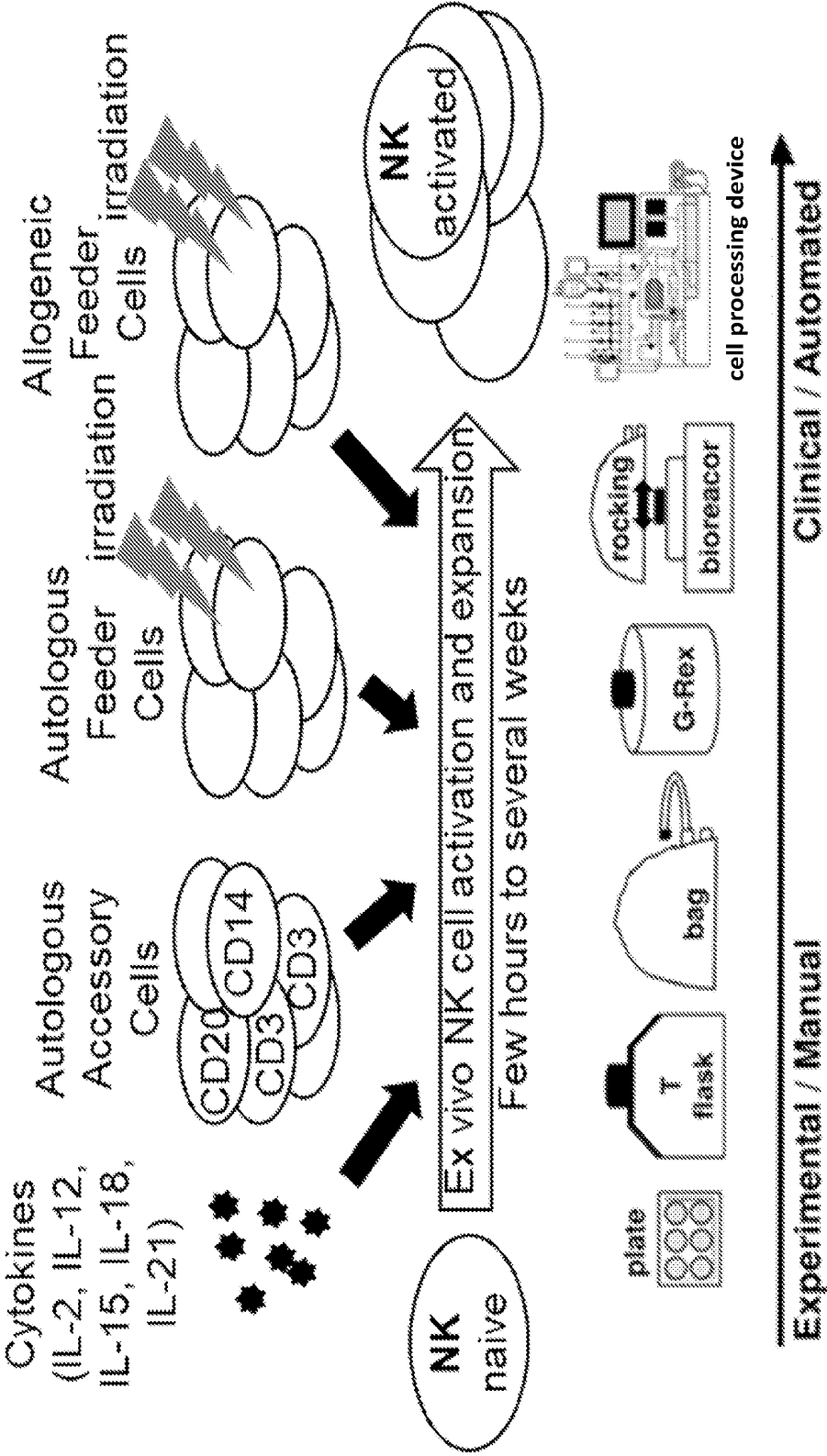


FIG. 4

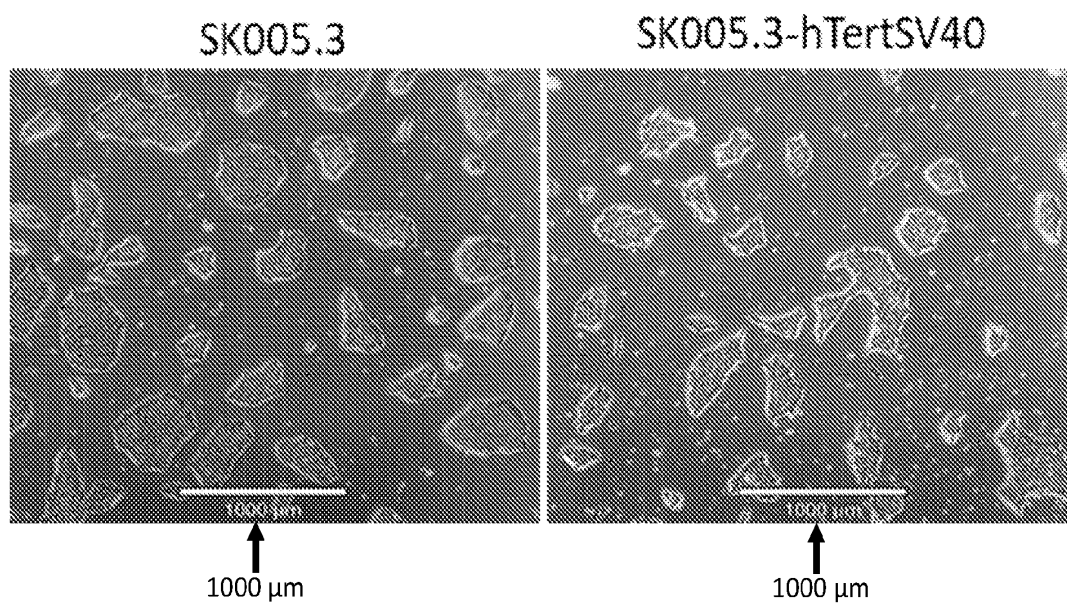


FIG. 5

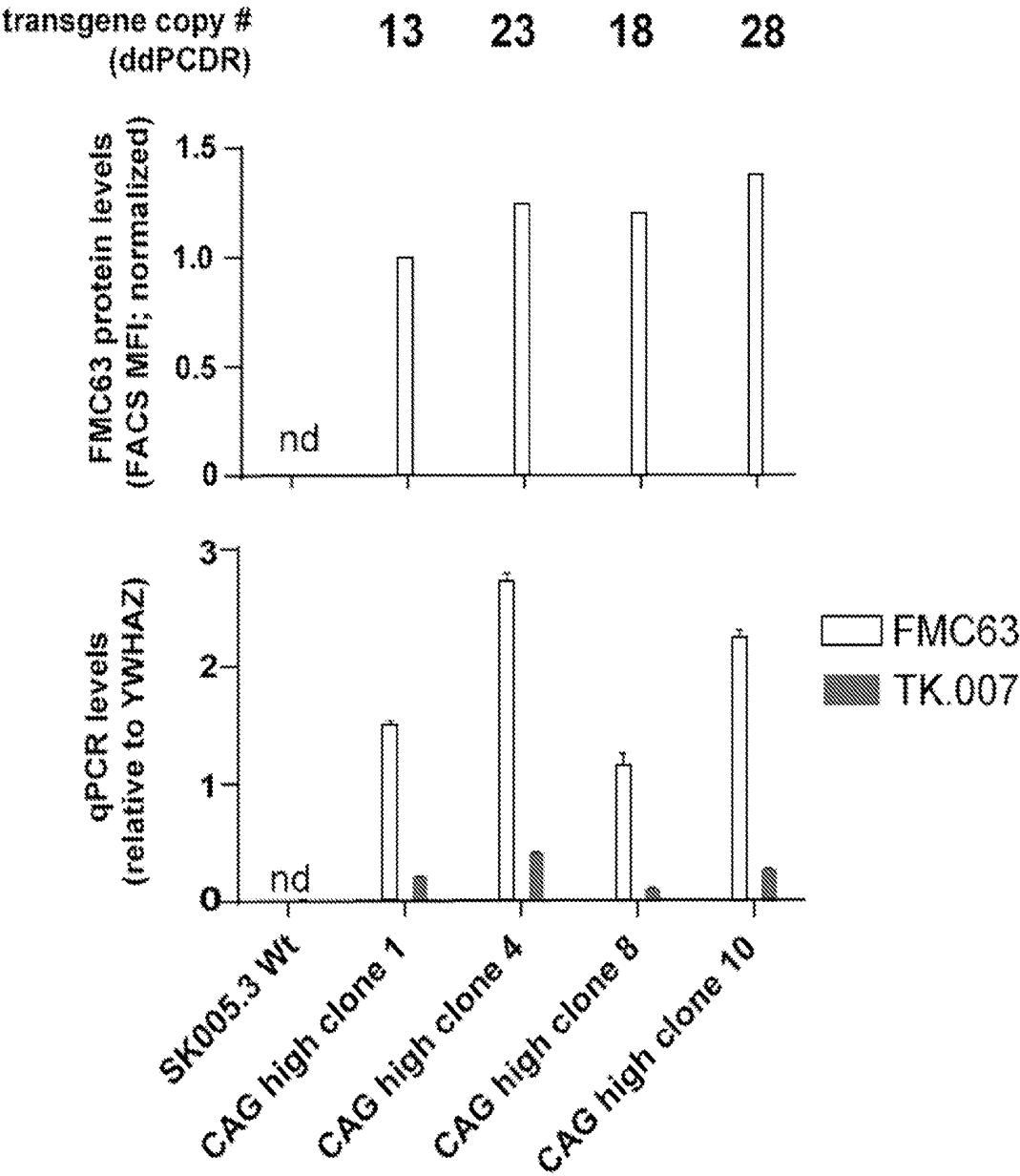
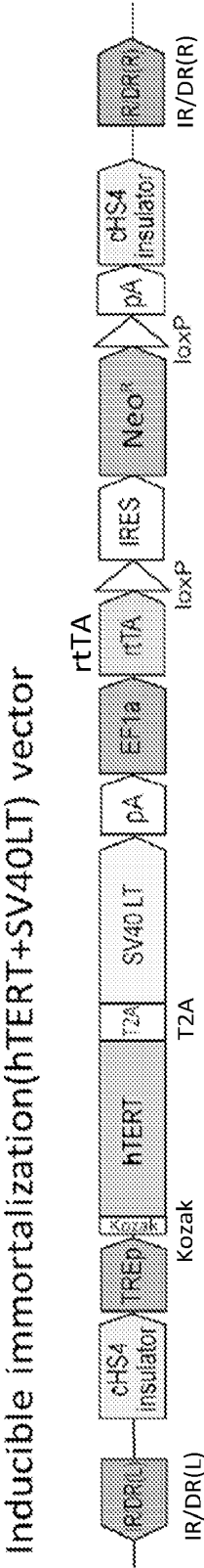


FIG. 6A



Gene	RefSeq transcript ID	RefSeq protein ID
Telomerase reverse transcriptase (TERT)	NM_198253.3	NP_937983.2
SV40gp6 Large T Antigen (SV40 LT)	NC_001669.1	NP_043127.1

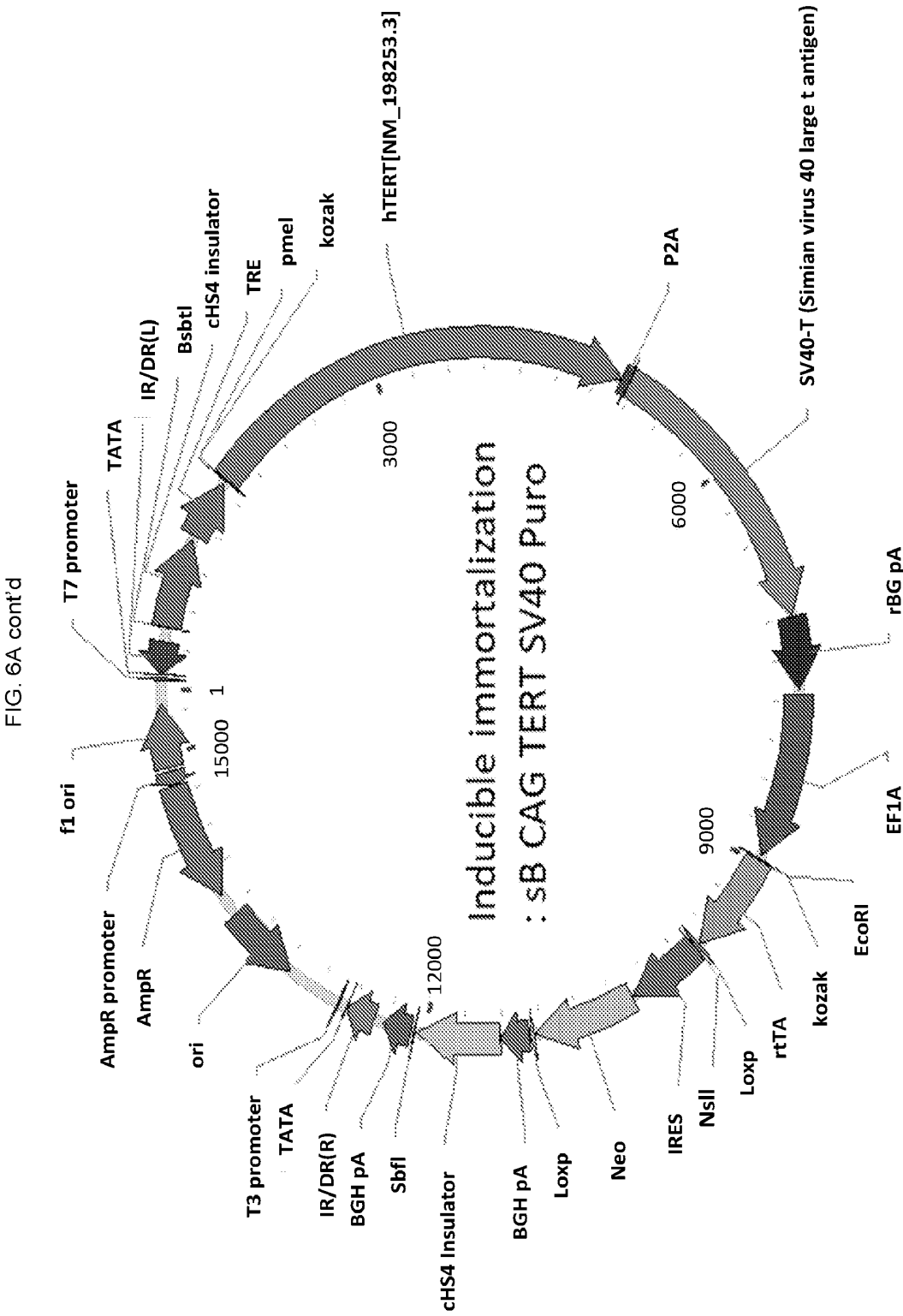
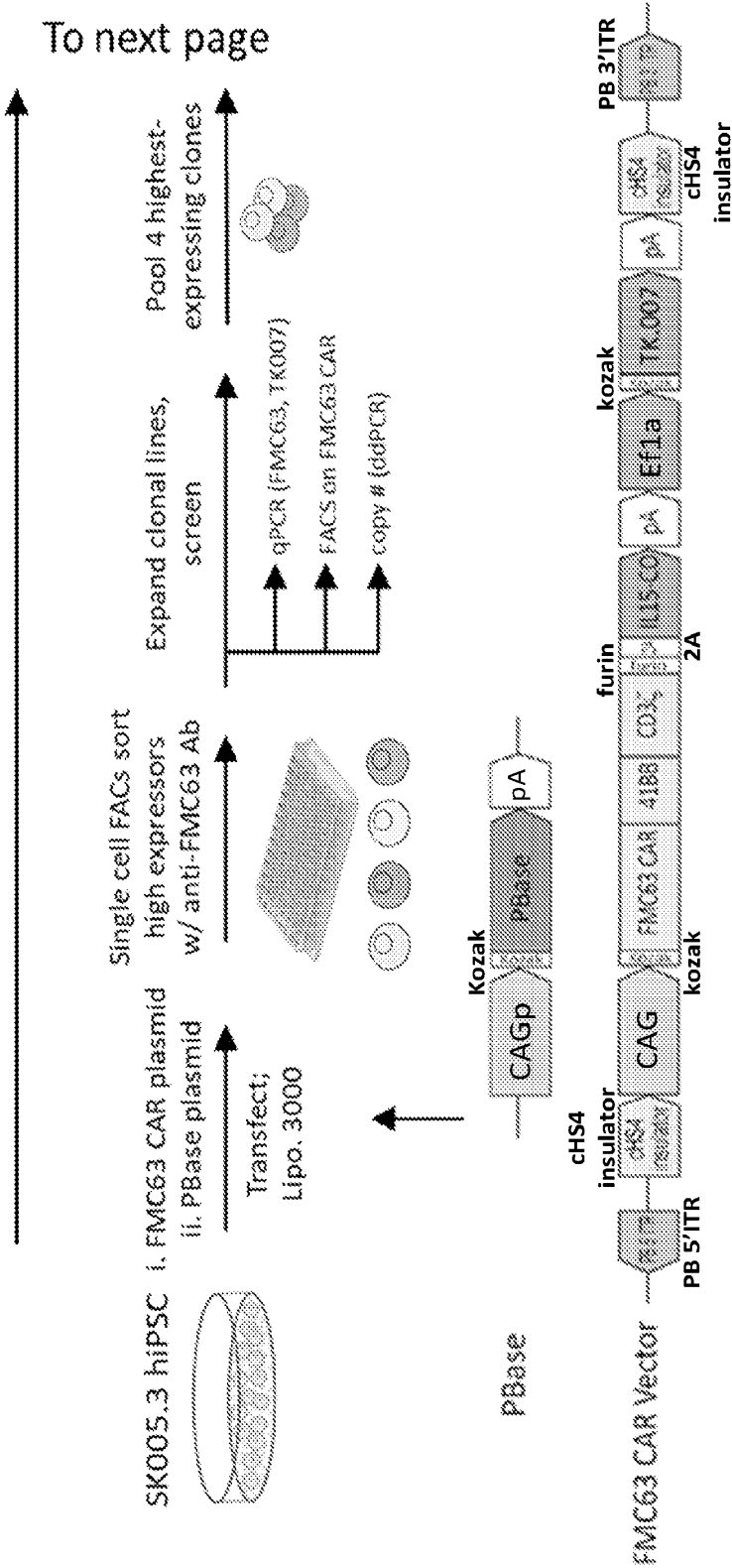


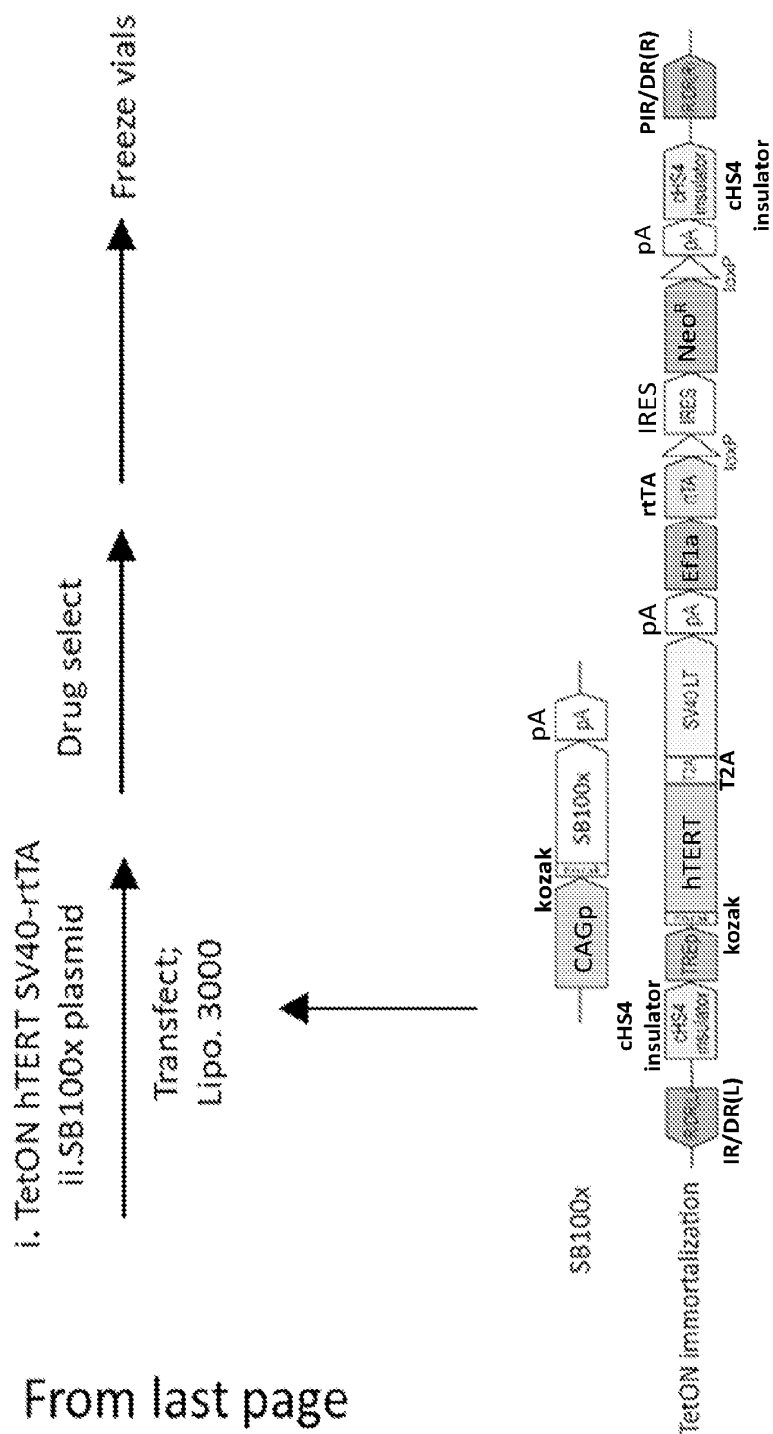
FIG. 6B

Step 1: Insertion of FMC63-IL15 CAR + TK vector



Step 2: Insertion of immortalization (hTERT+SV40LT) vector

FIG. 6B cont'd



From last page

FIG. 7

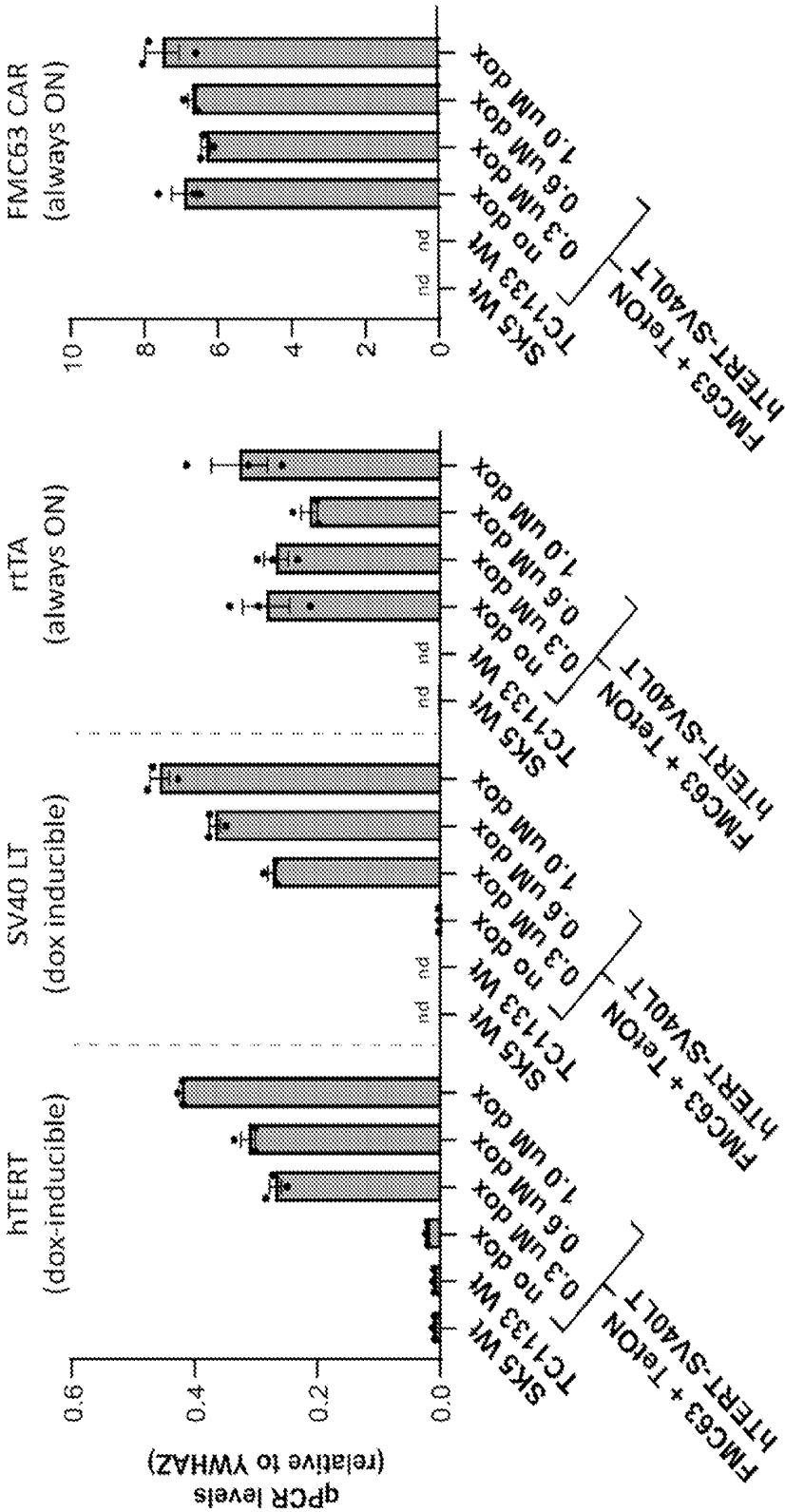


FIG. 8A

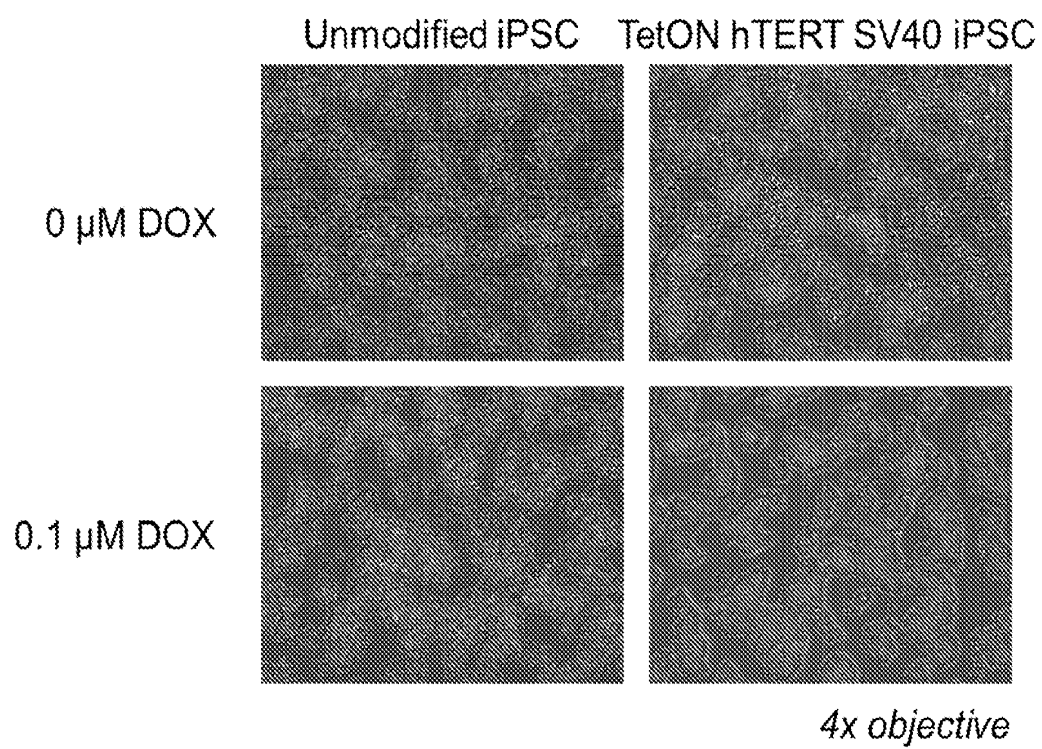


FIG. 8B

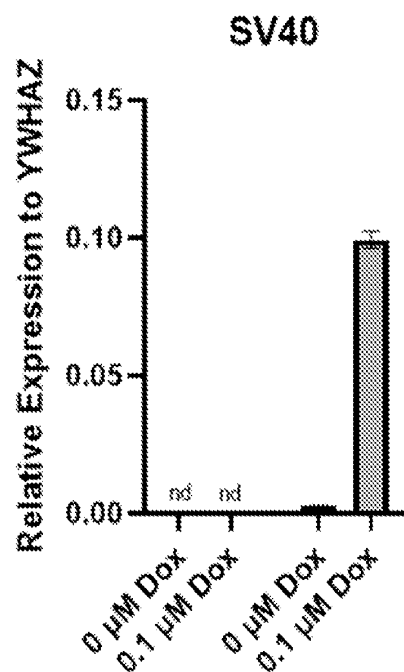
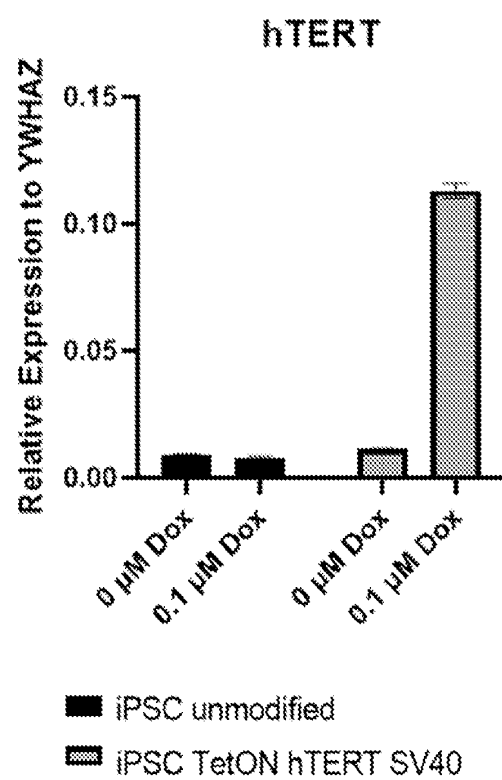


FIG. 8B cont'd

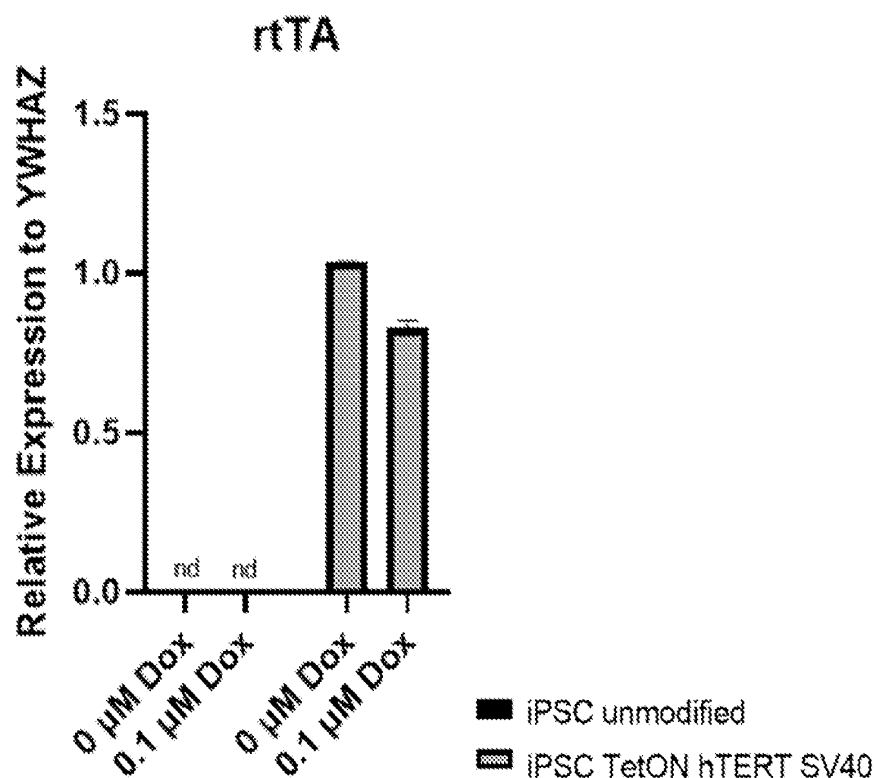


FIG. 8C

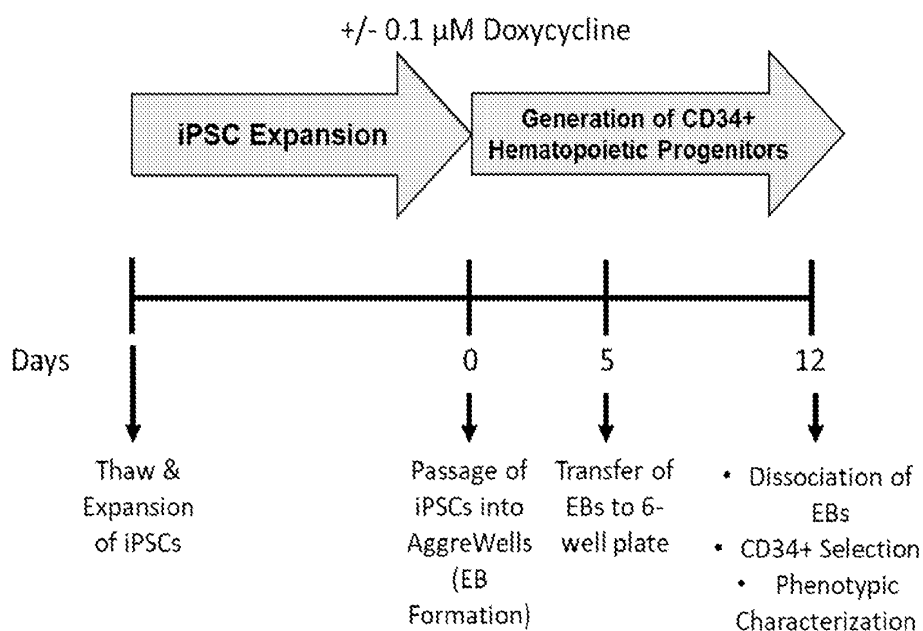


FIG. 8D

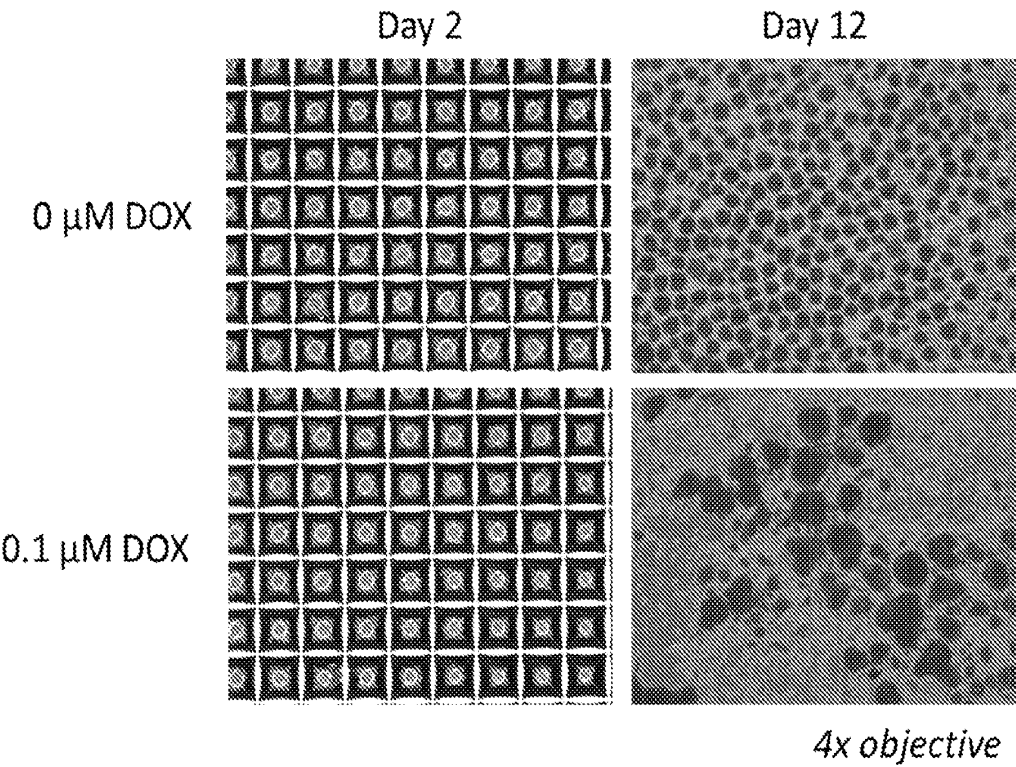
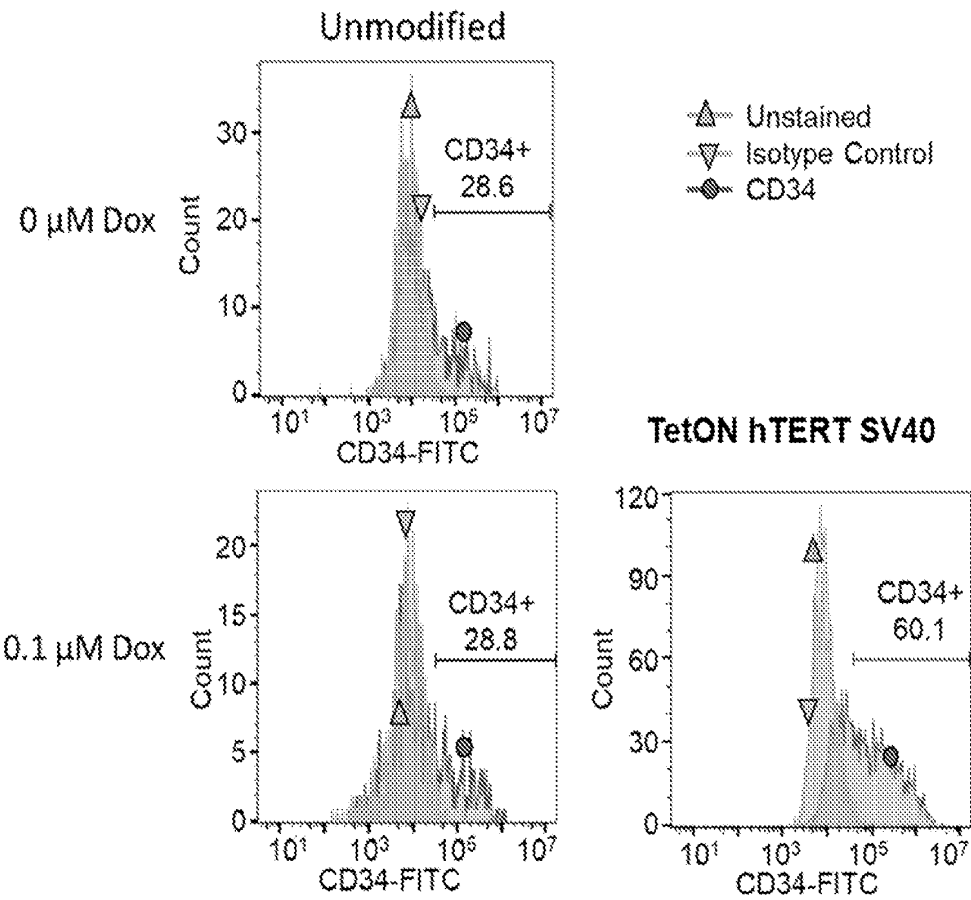


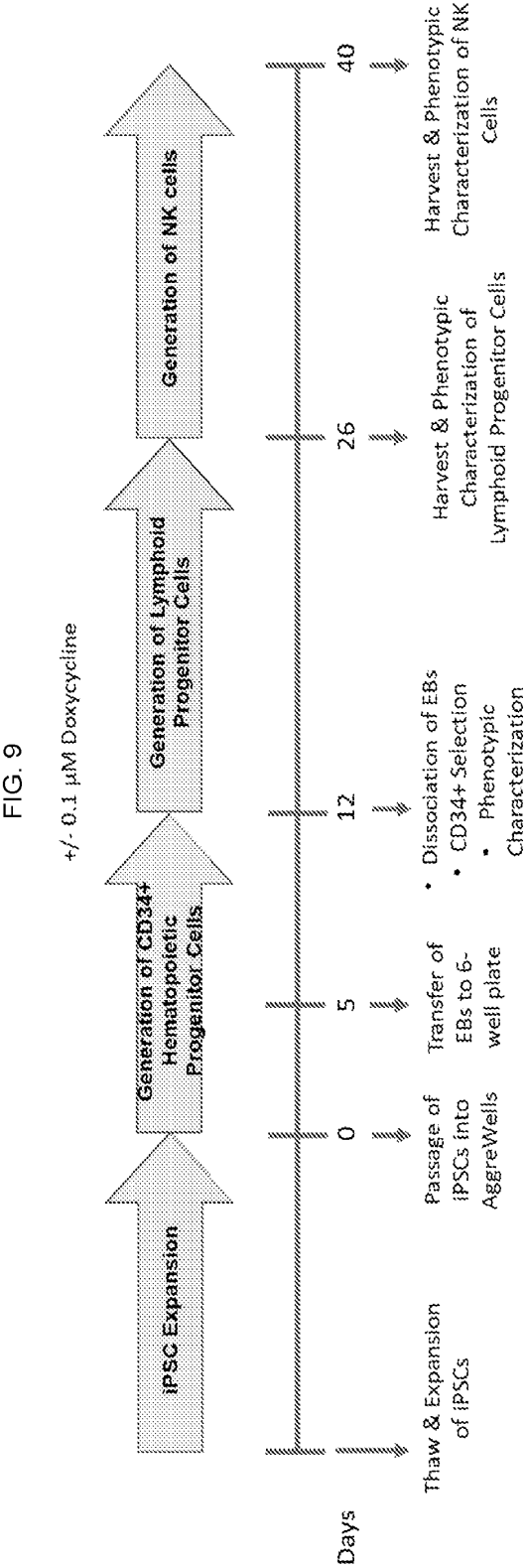
FIG. 8E

Cell Line	DOX (μM)	Viability	% Viable Cell Yield
Unmodified iPSC	0	95.4	6.92
	0.1	92.4	3.94
TetON hTERT SV40 iPSC	0	62.0	5.44
	0.1	96.4	8.61

FIG. 8F



Cell Line	DOX (μ M)	% CD34-positive cells
Unmodified iPSC	0	28.6
	0.1	28.8
TetON hTERT SV40 iPSC	0	n/a
	0.1	60.1



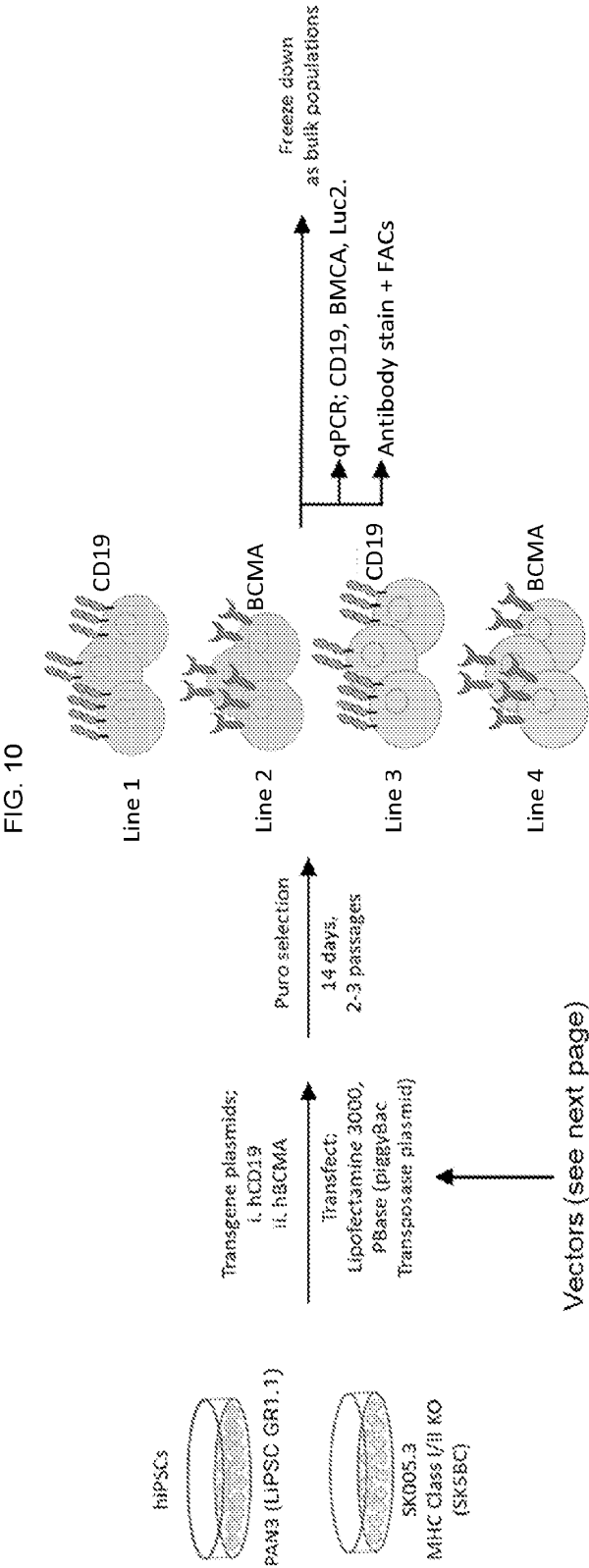


FIG. 10 cont'd

(to previous page)

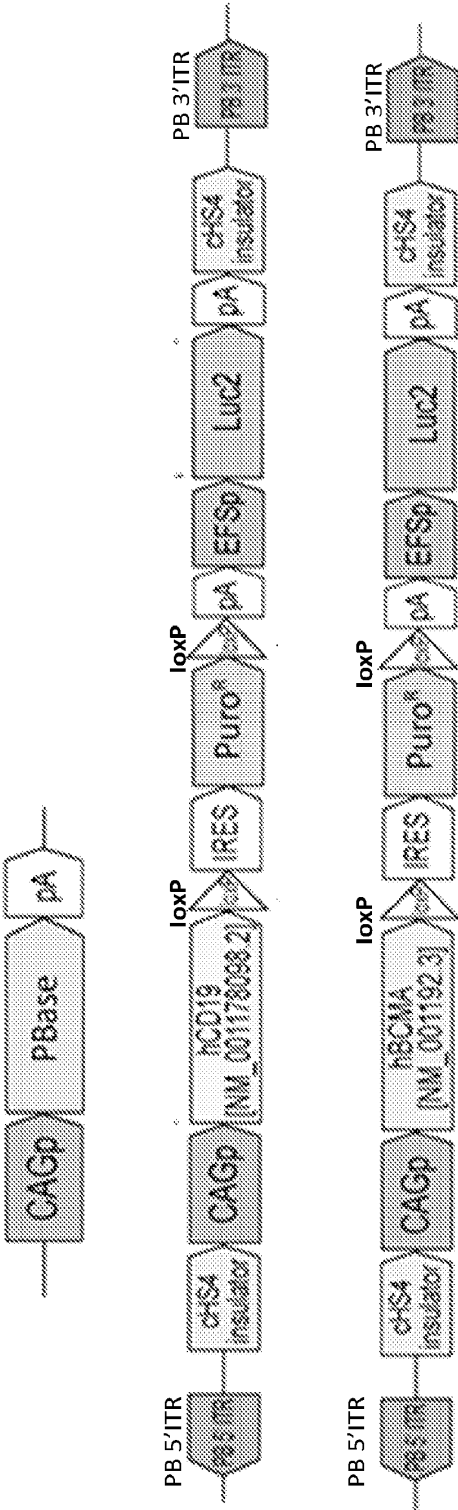


FIG. 11

Antigens
CD19
CD20
CD33
CD138
CD133
CS-1
EGFR/EGFRVII
BCMA
PSCA
HER2
EpCAM
GD2
GPA7
NKG2D
MUC1

FIG. 12
PiggyBac transposon vector

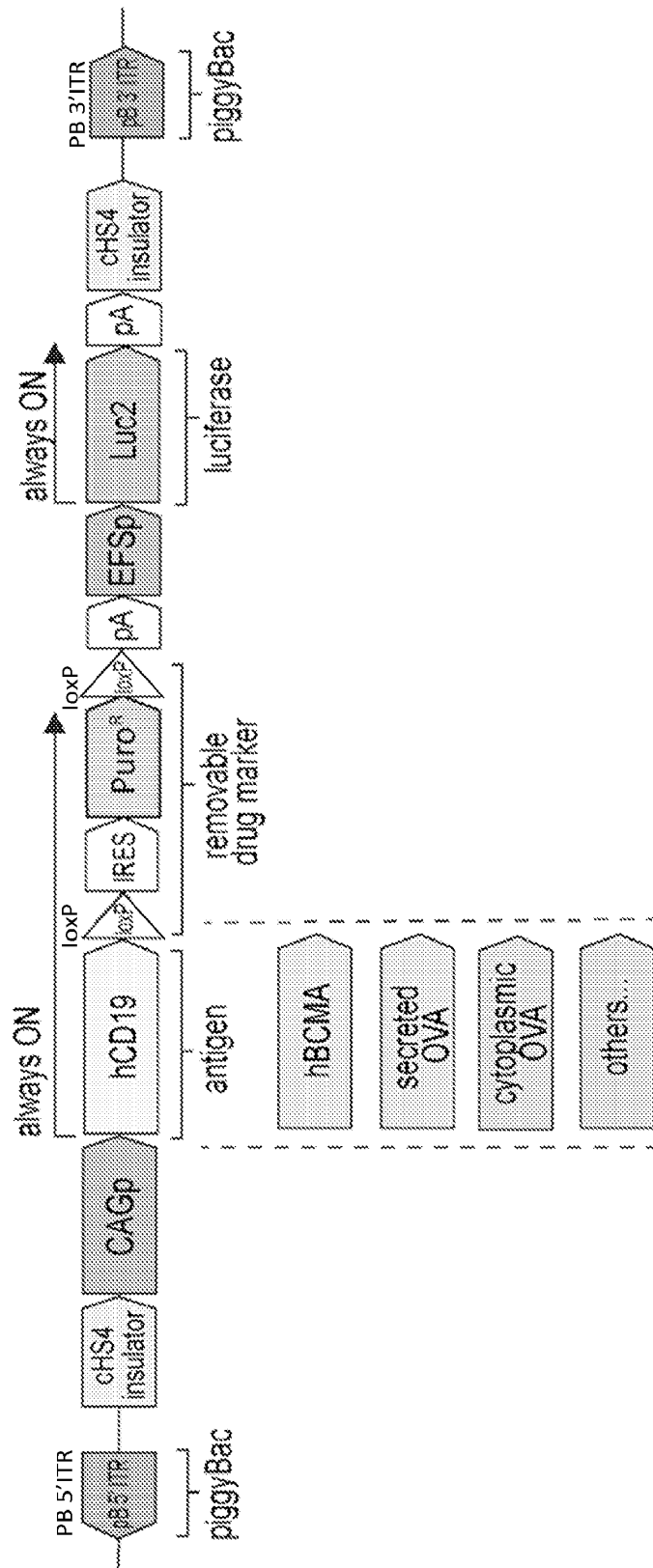


FIG. 12 cont'd

Lentivirus vector

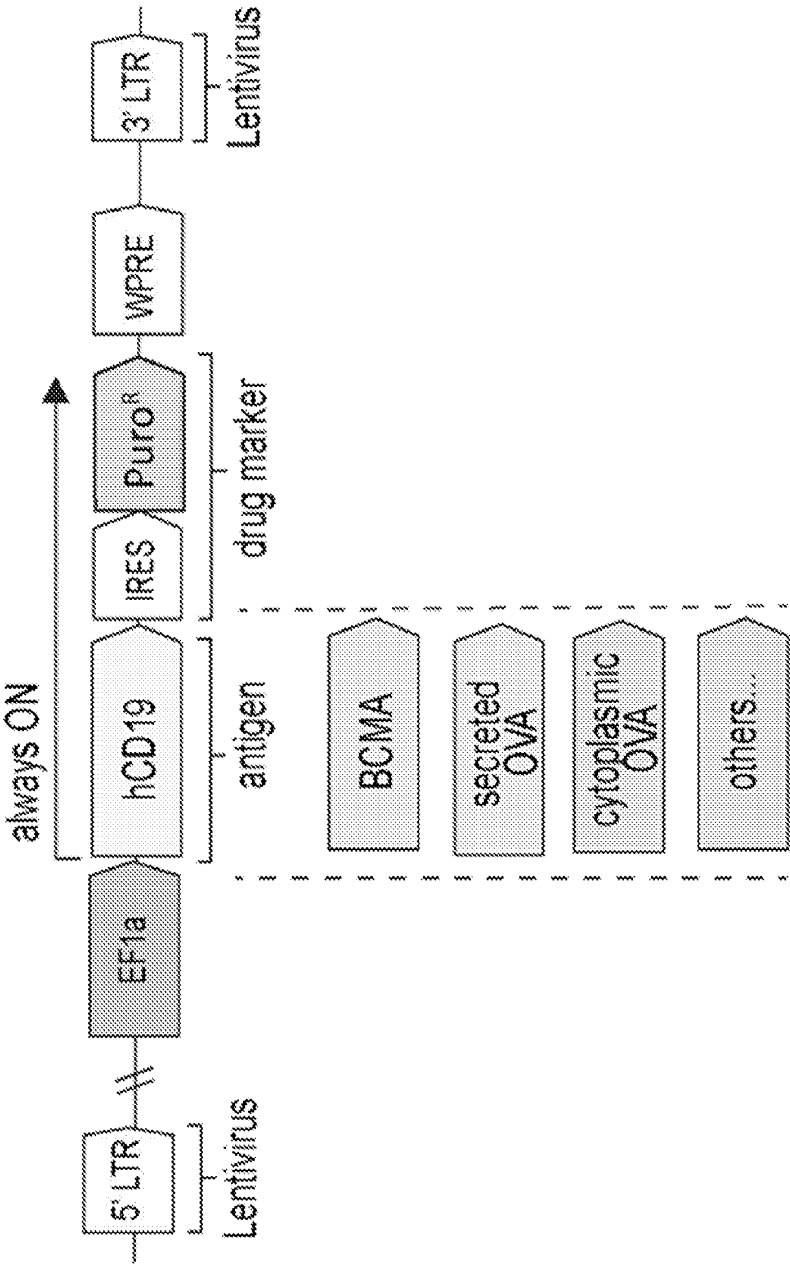


FIG. 13A

Fluorescence and Bioluminescence

Flourescence

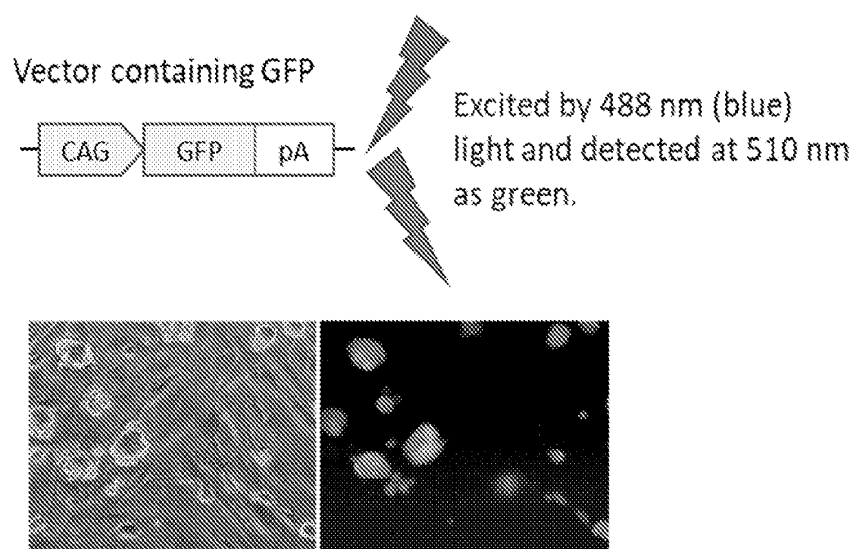


FIG. 13B

Bioluminescence

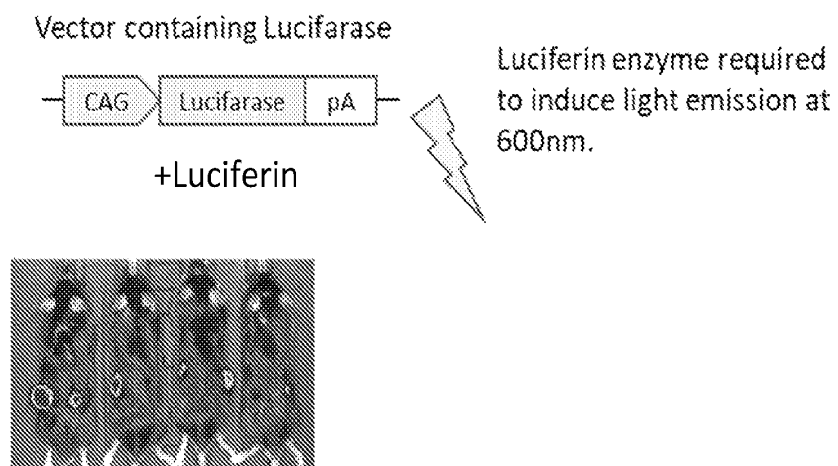
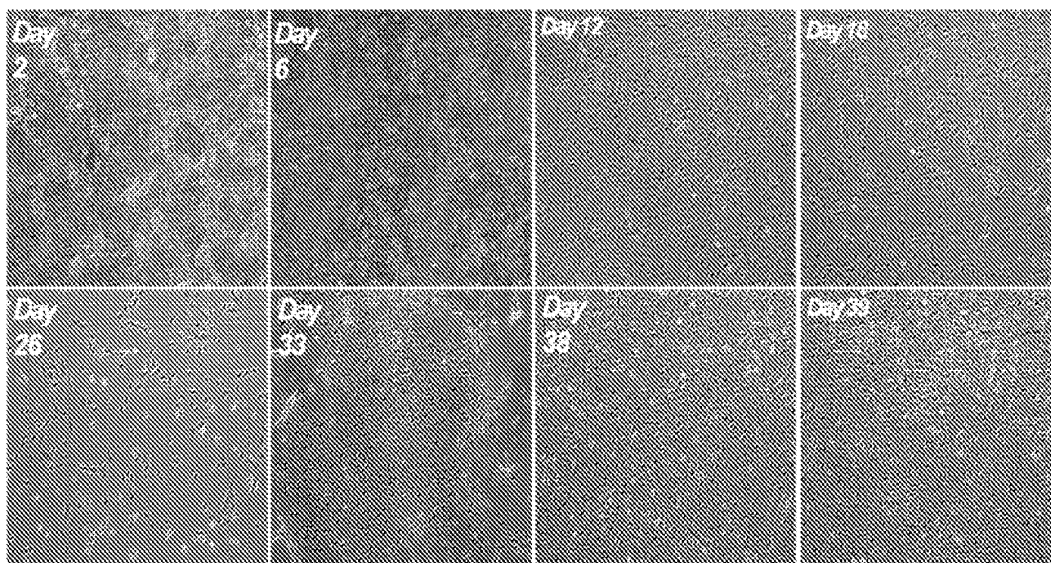
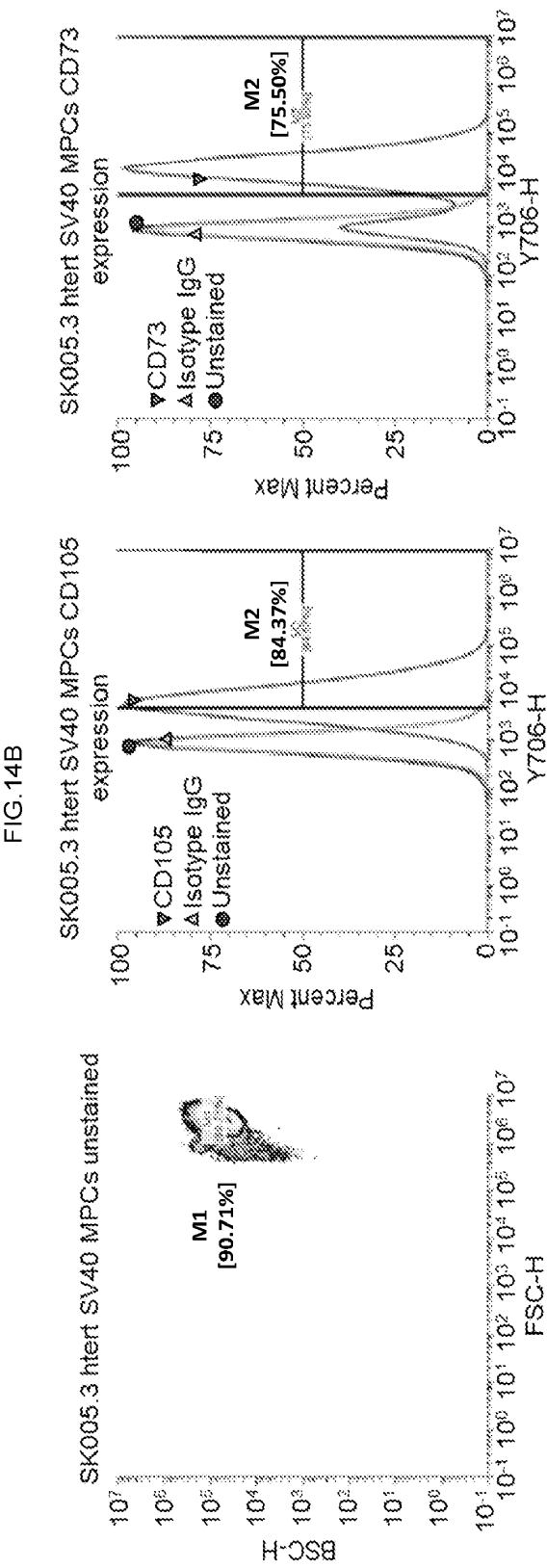


FIG. 14A





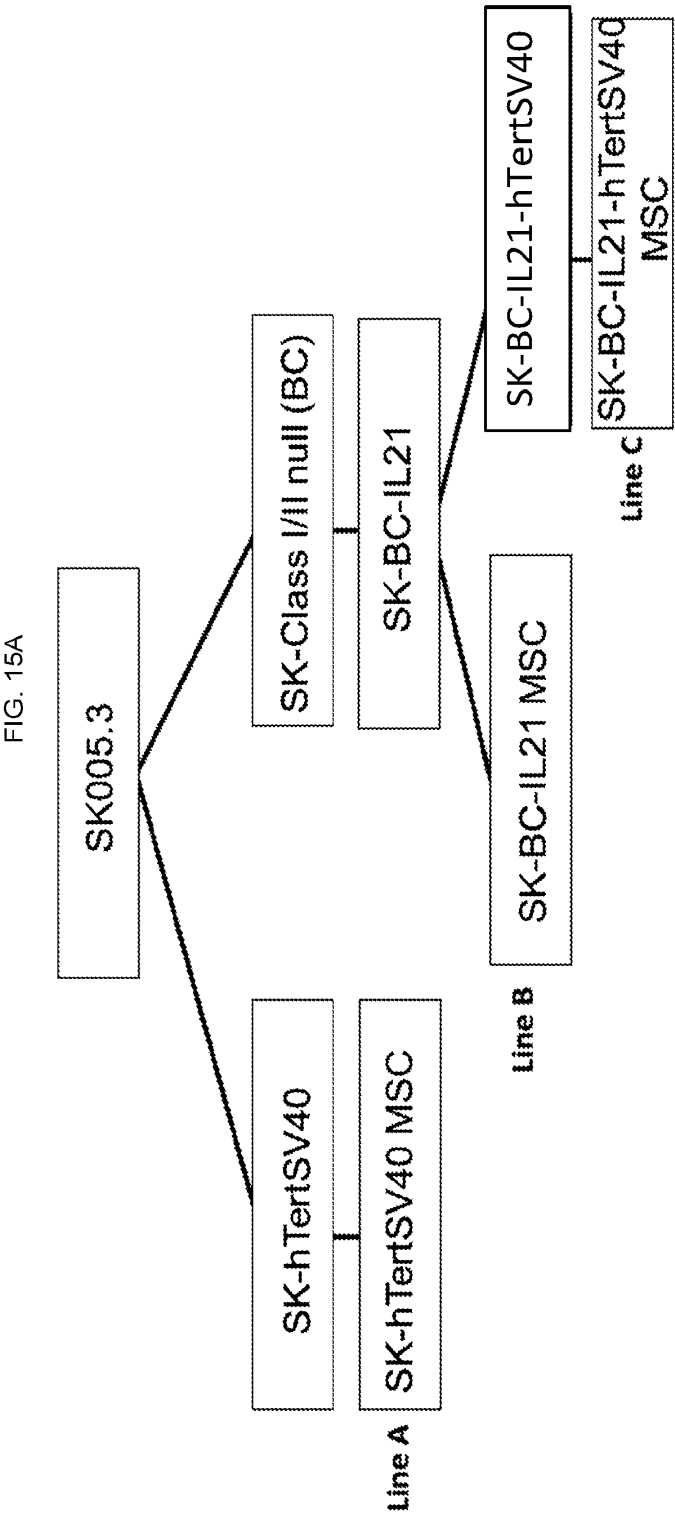


FIG. 15B

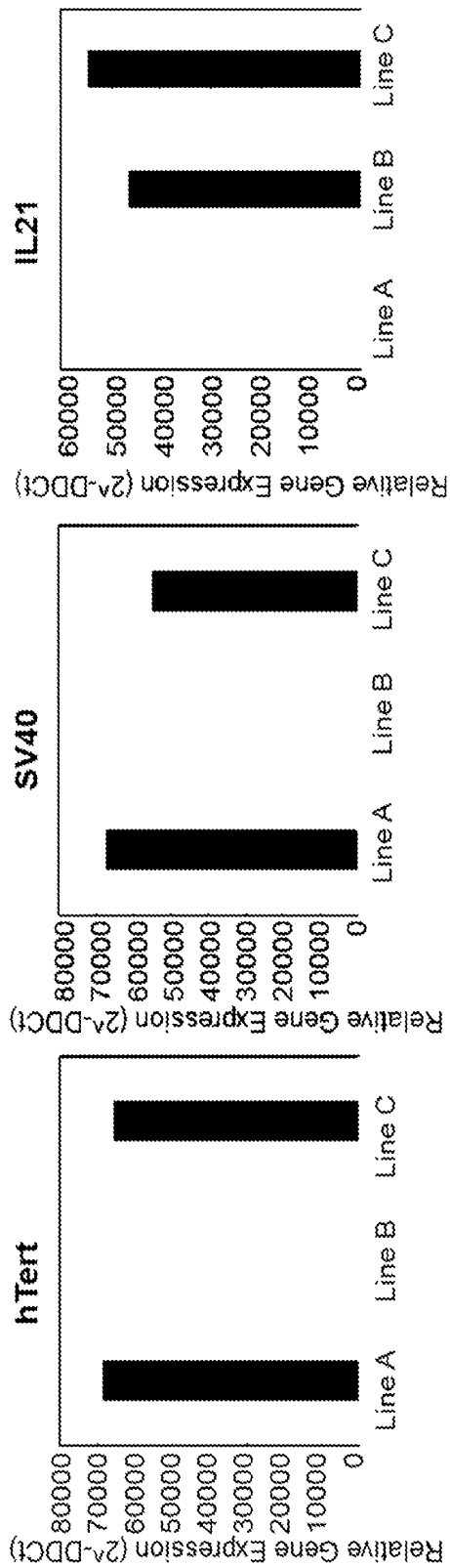


FIG. 16

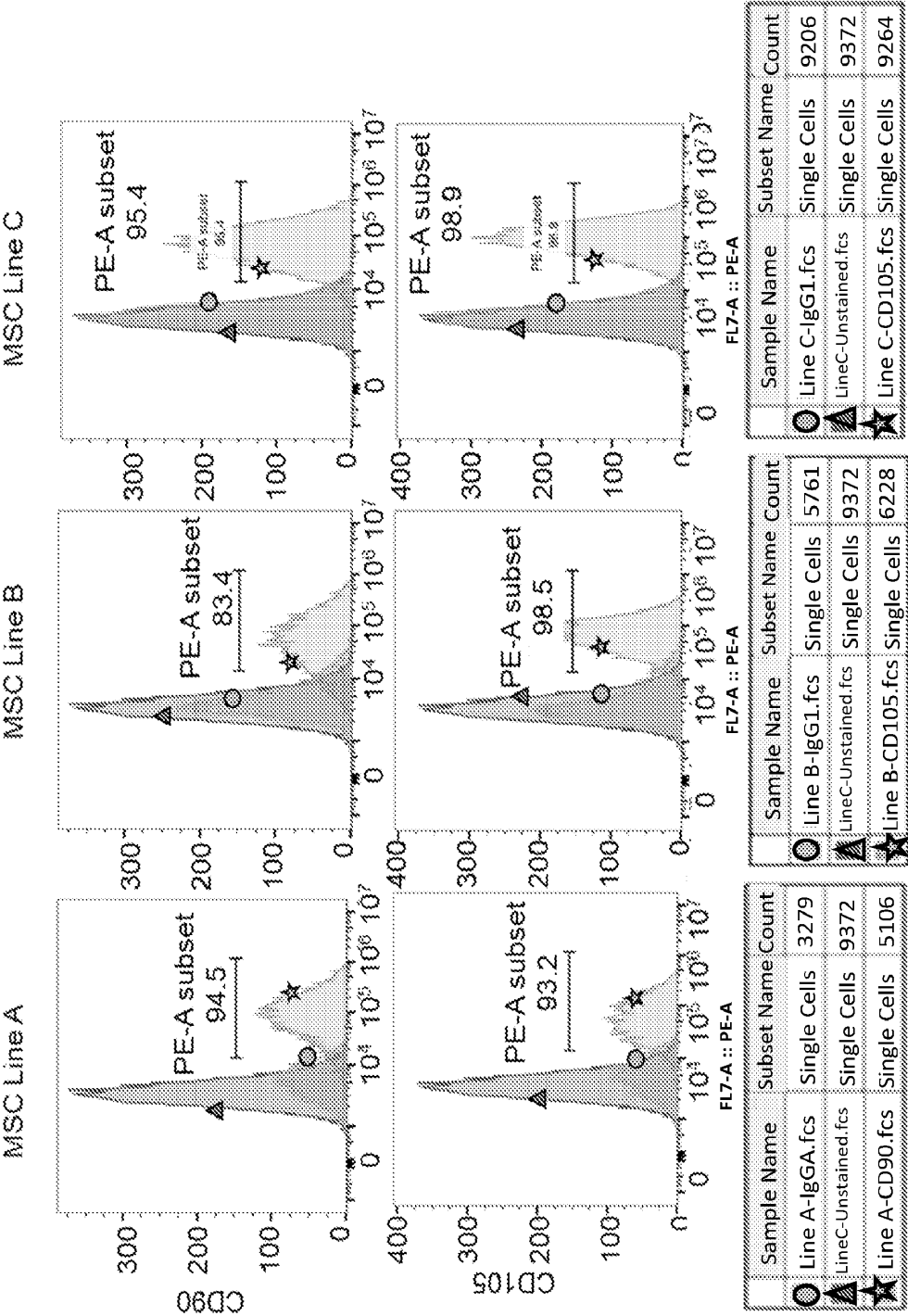
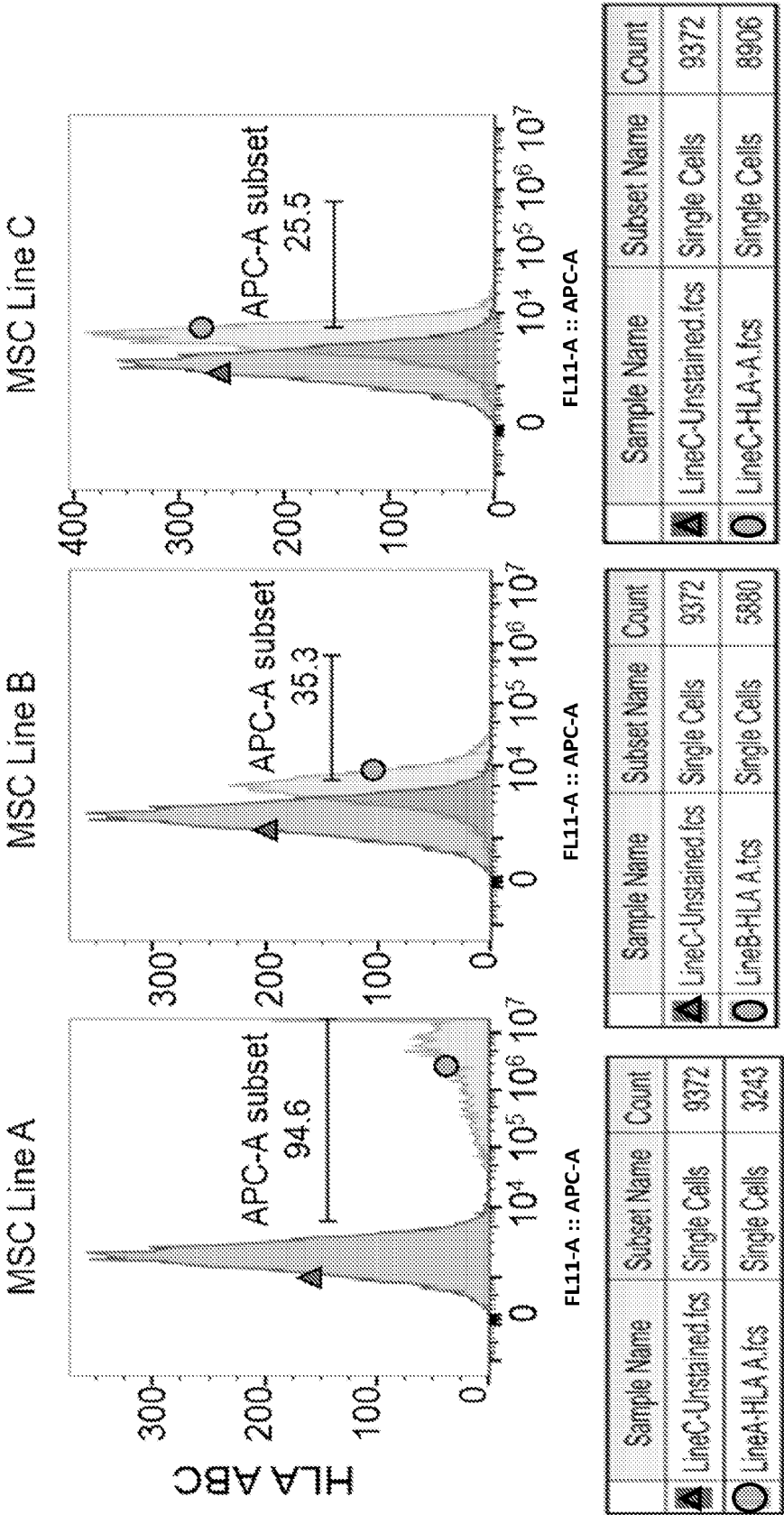


FIG. 17



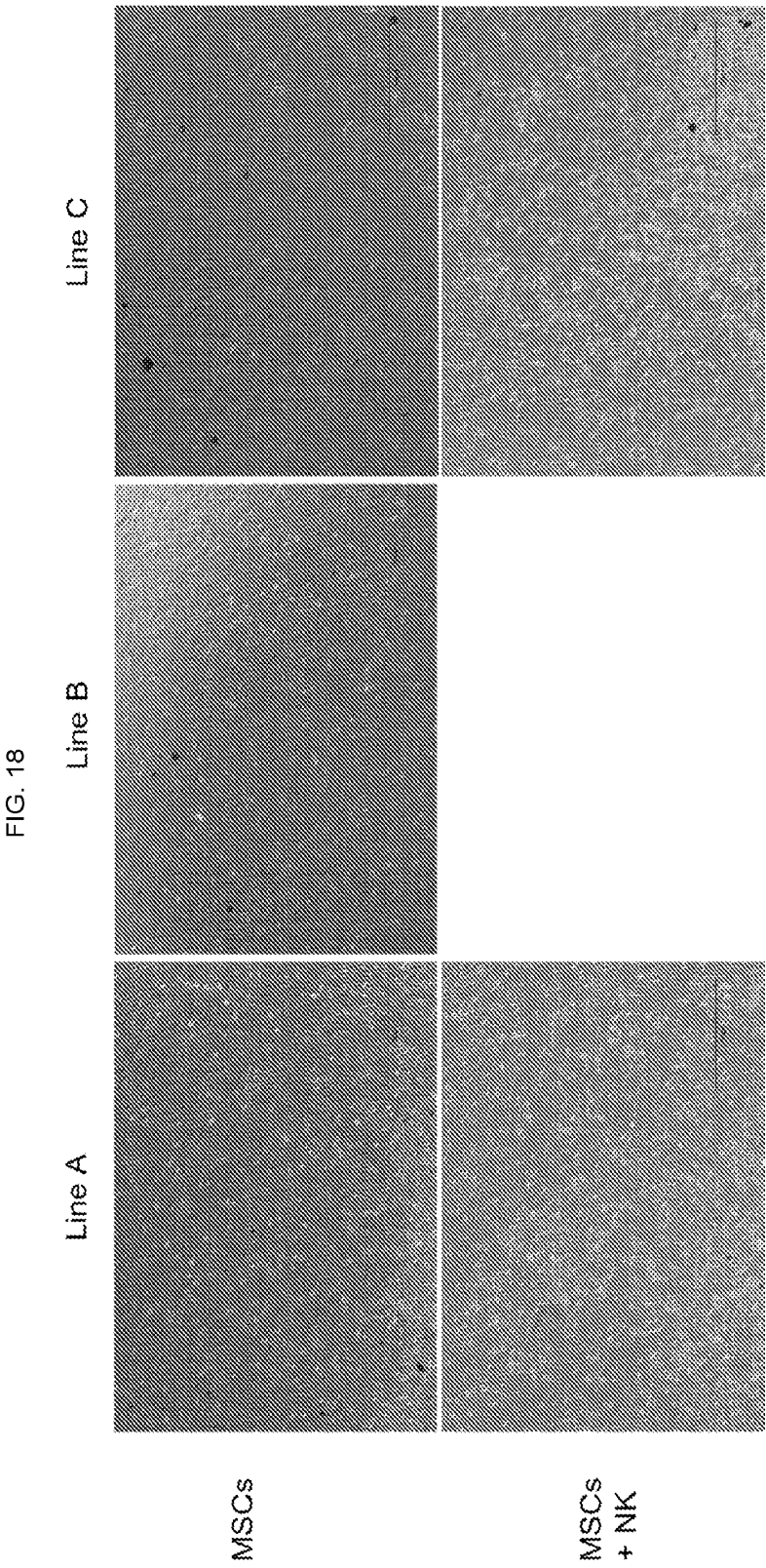


FIG. 19

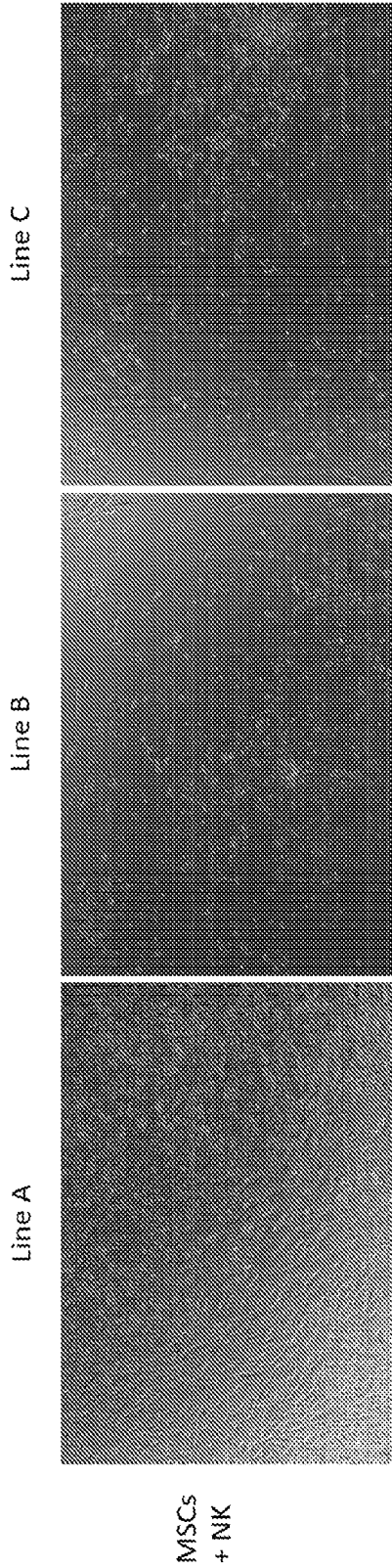


FIG. 20

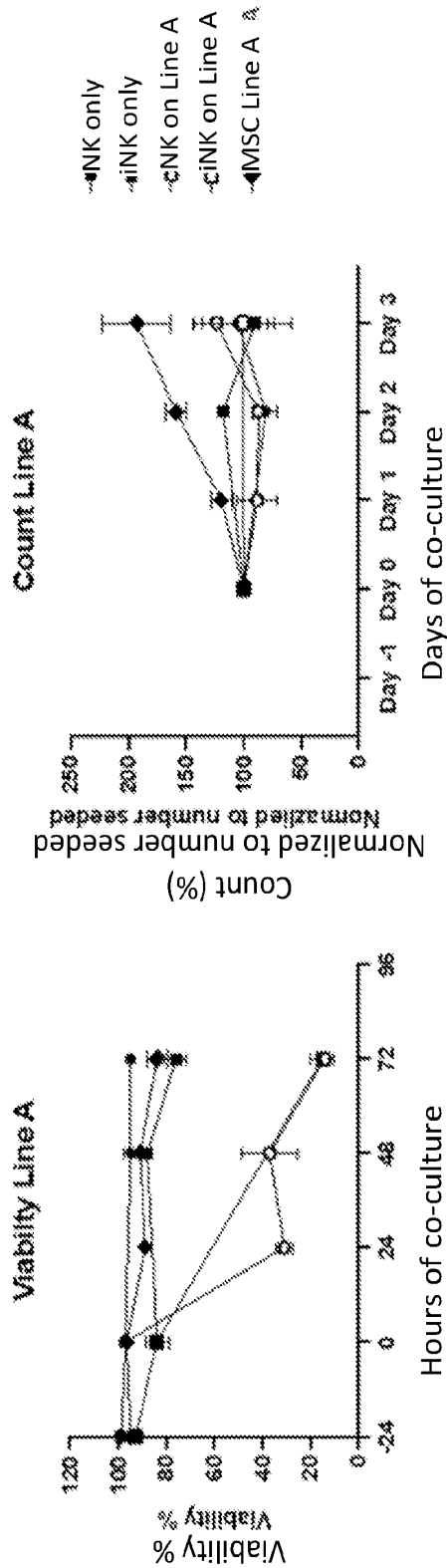


FIG. 20 cont'd

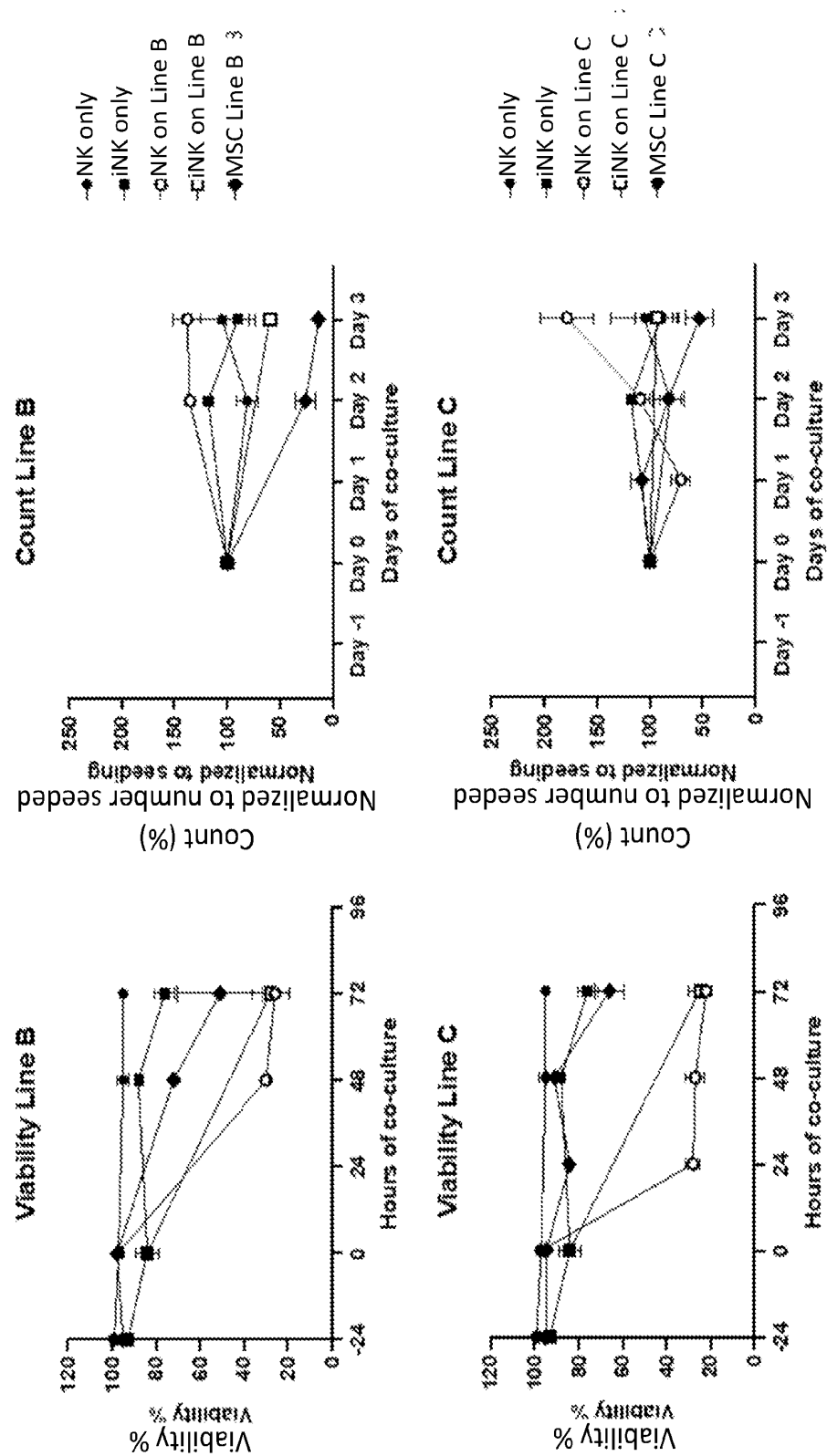


FIG. 21A

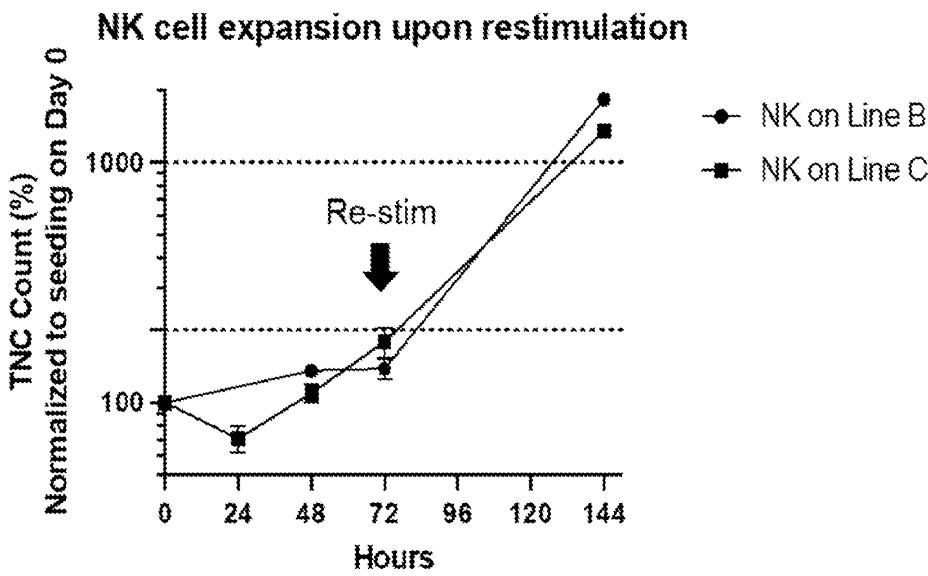


FIG. 21B

