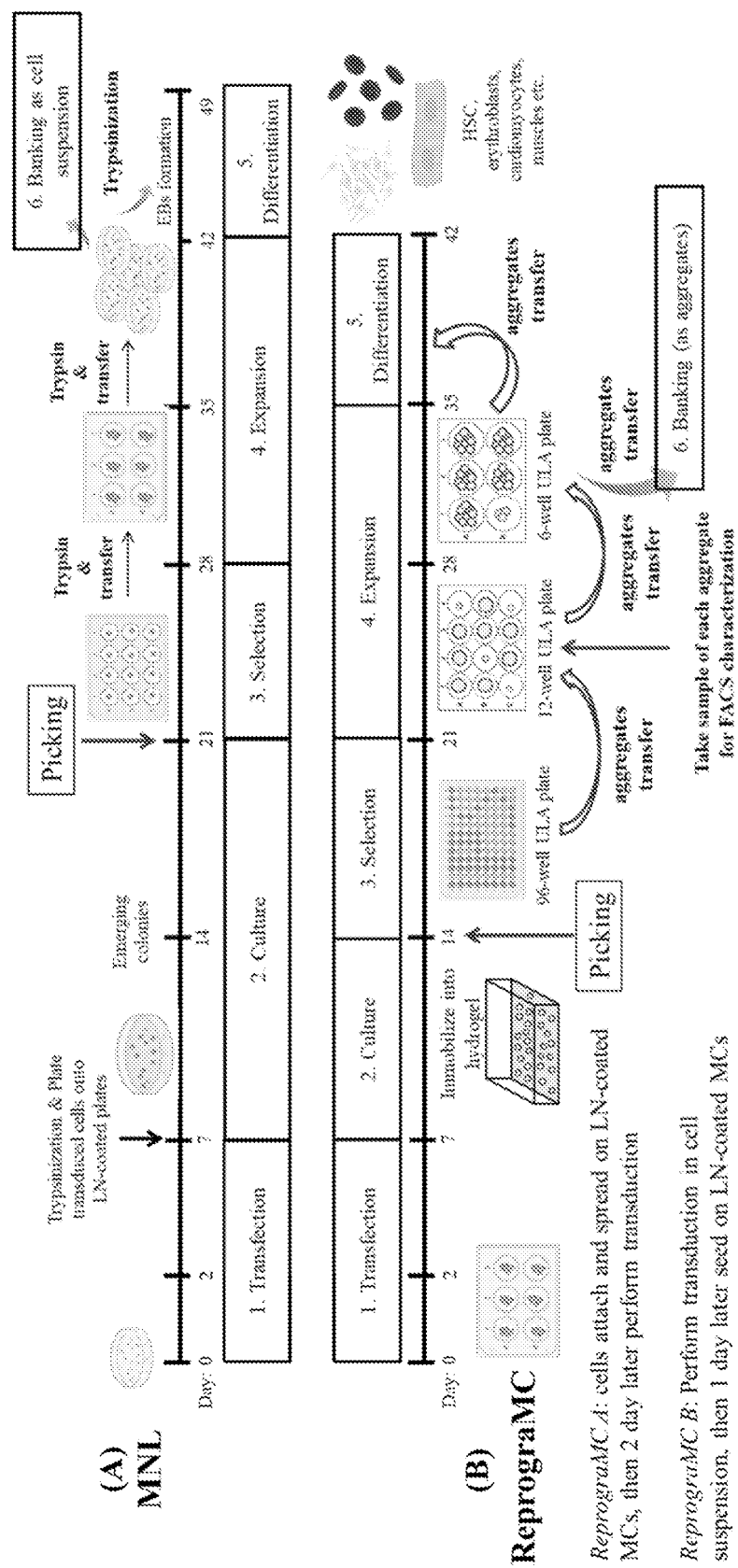
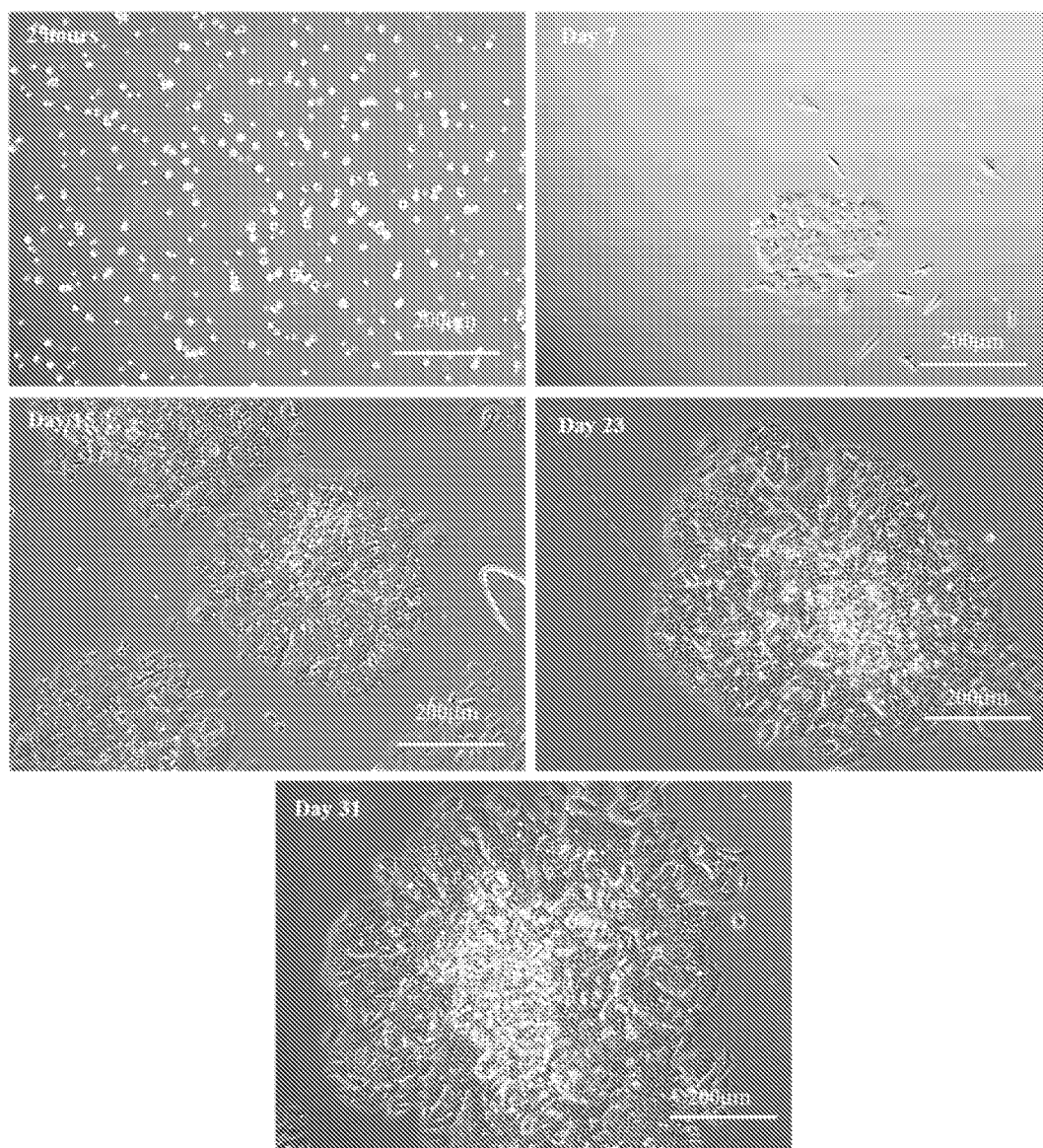
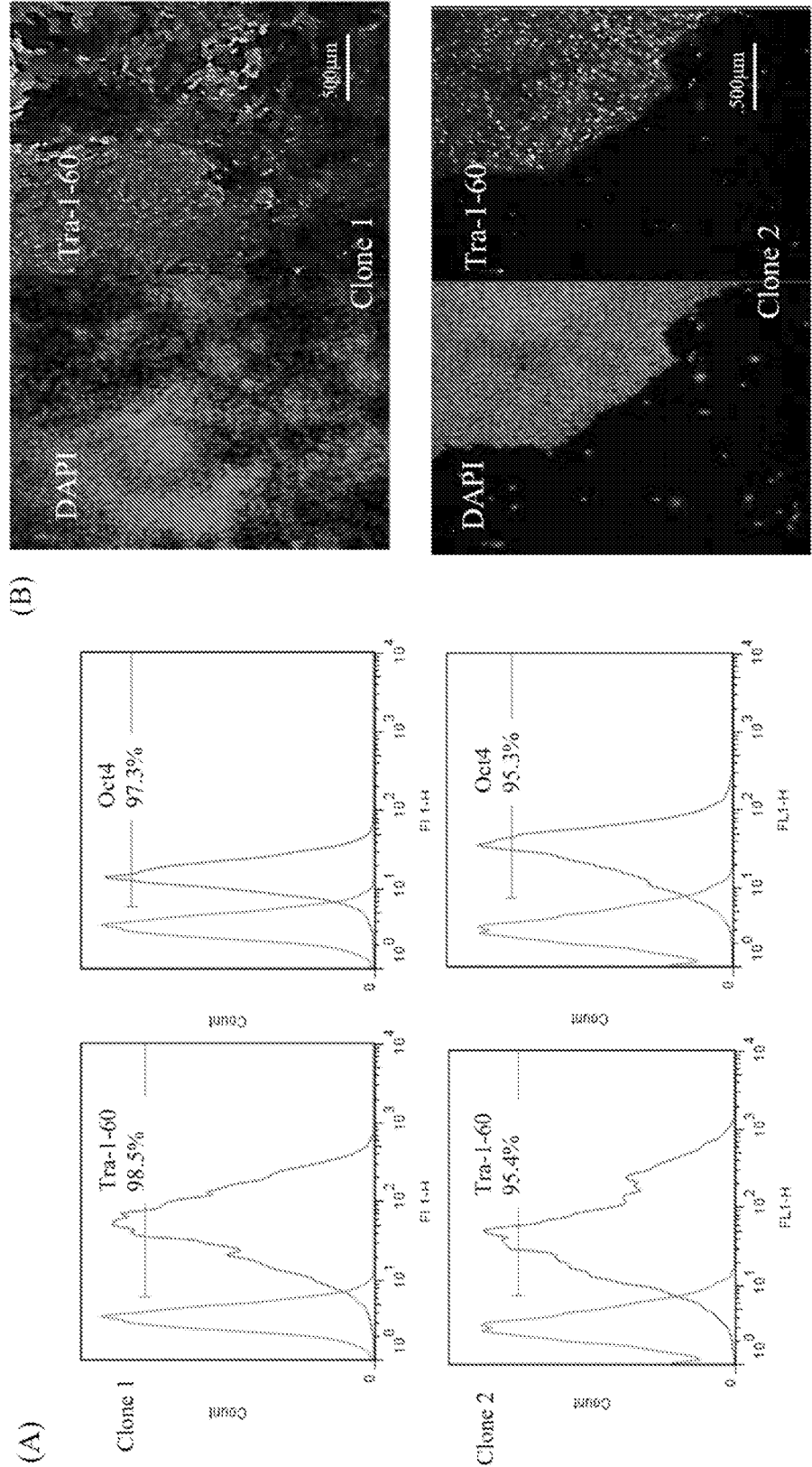




**FIG. 2**



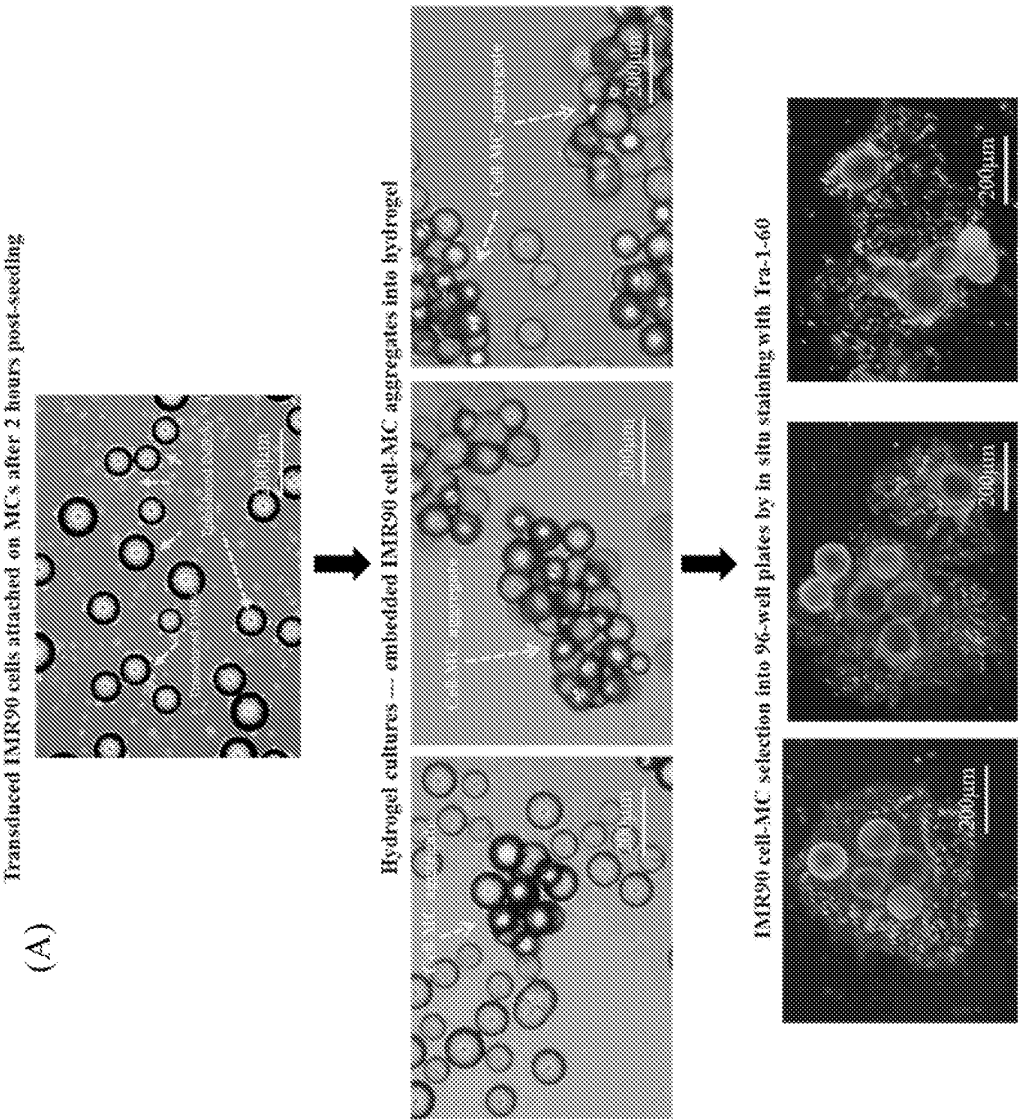
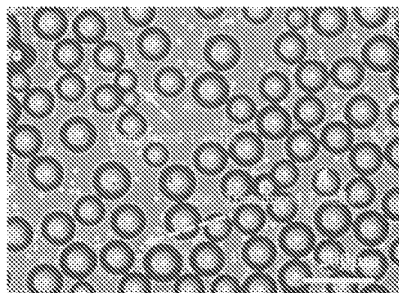


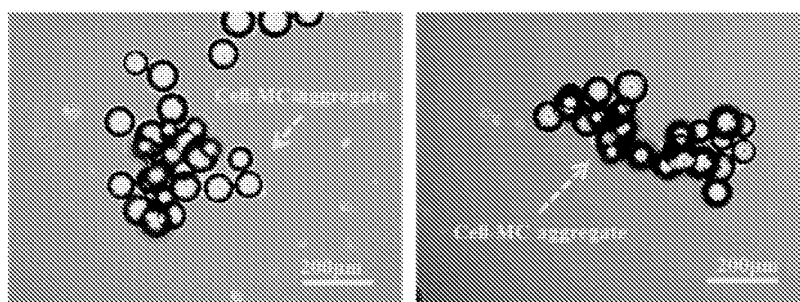
FIG. 4

Transduced T-cells attached on MCs after 2 hours post-seeding

(B)



Hydrogel cultures --- embedded T cell-MC aggregates into hydrogel



T cell-MC selection into 96-well plates by in situ staining with Tra-1-60

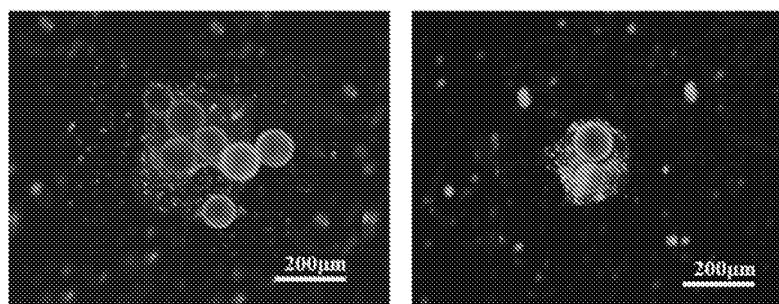


FIG. 4 (CONTINUED)

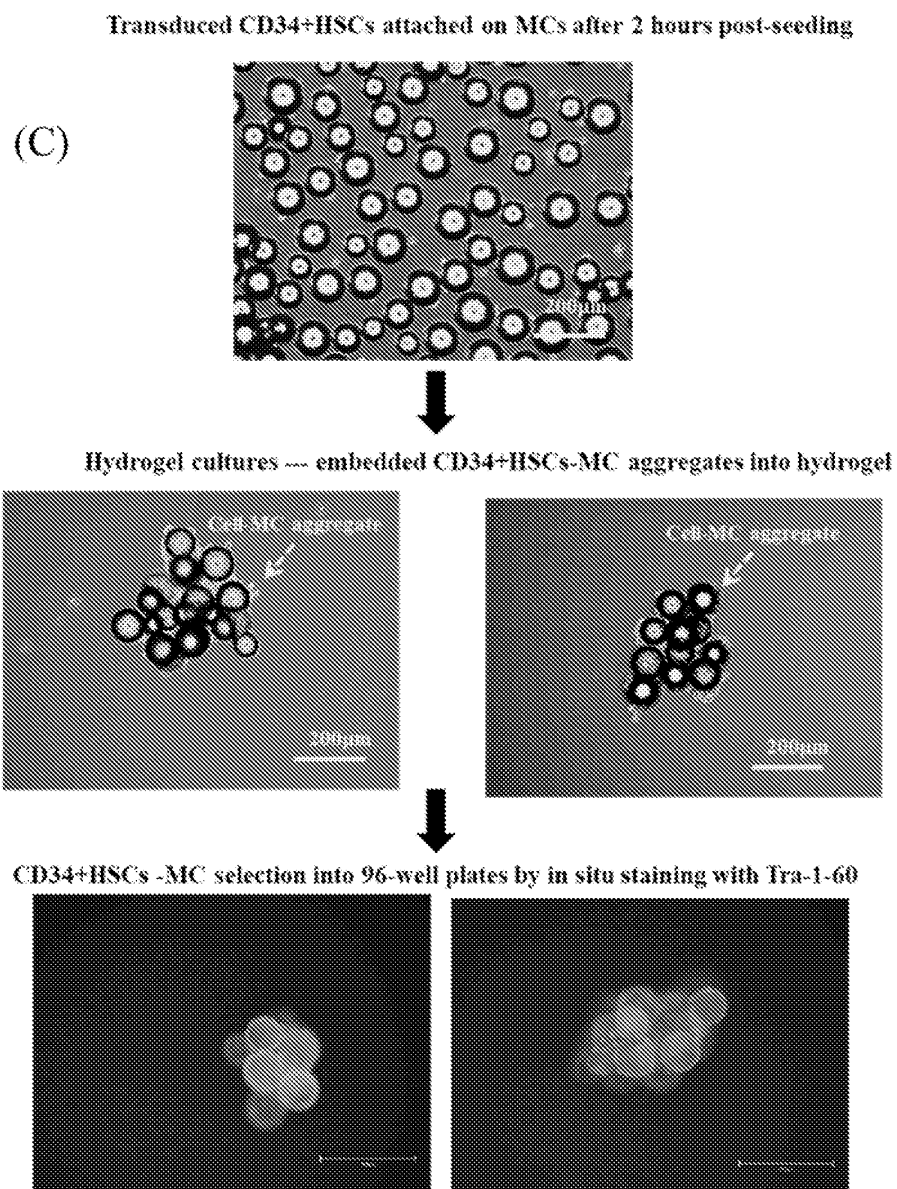
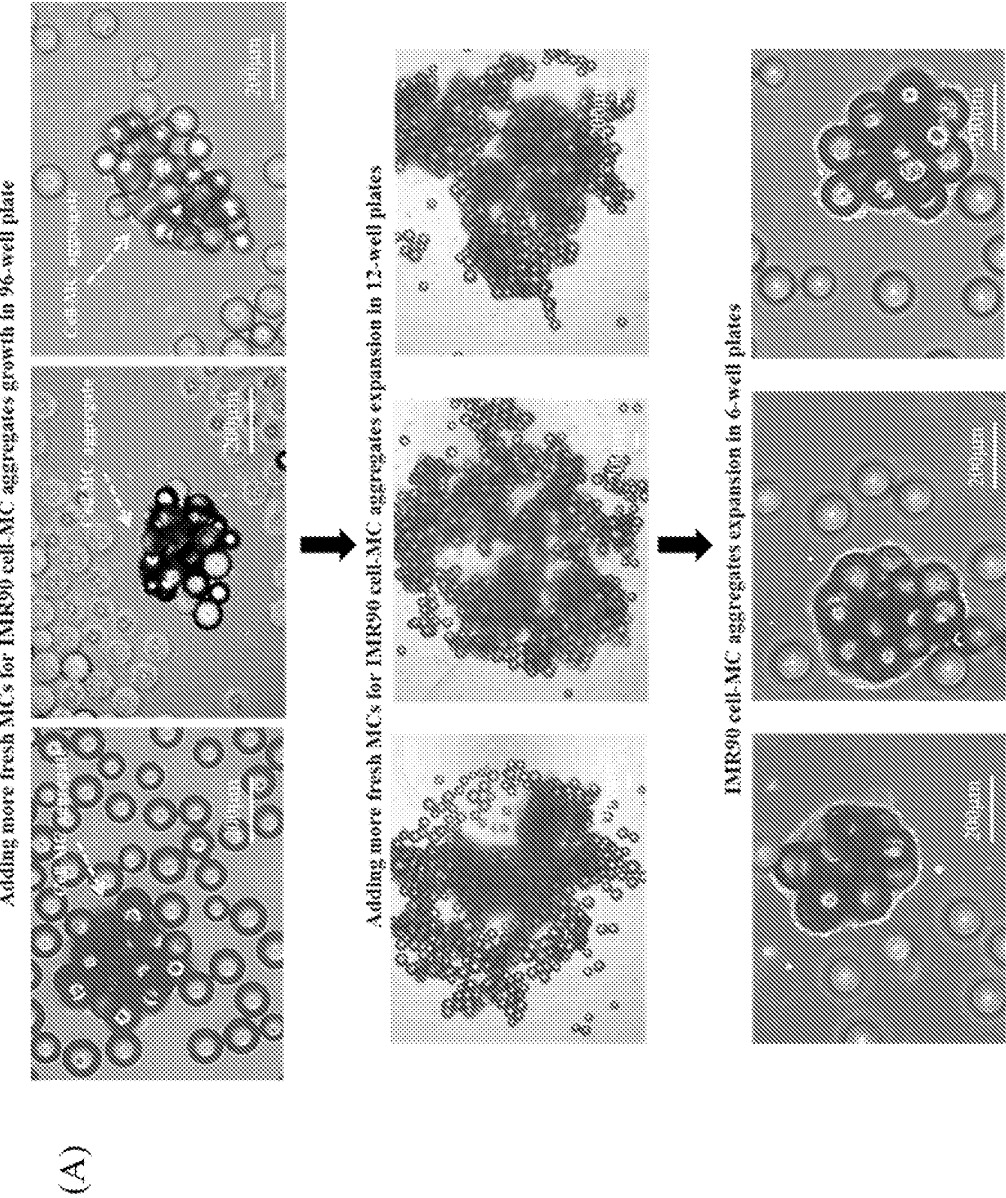


FIG. 4 (CONTINUED)



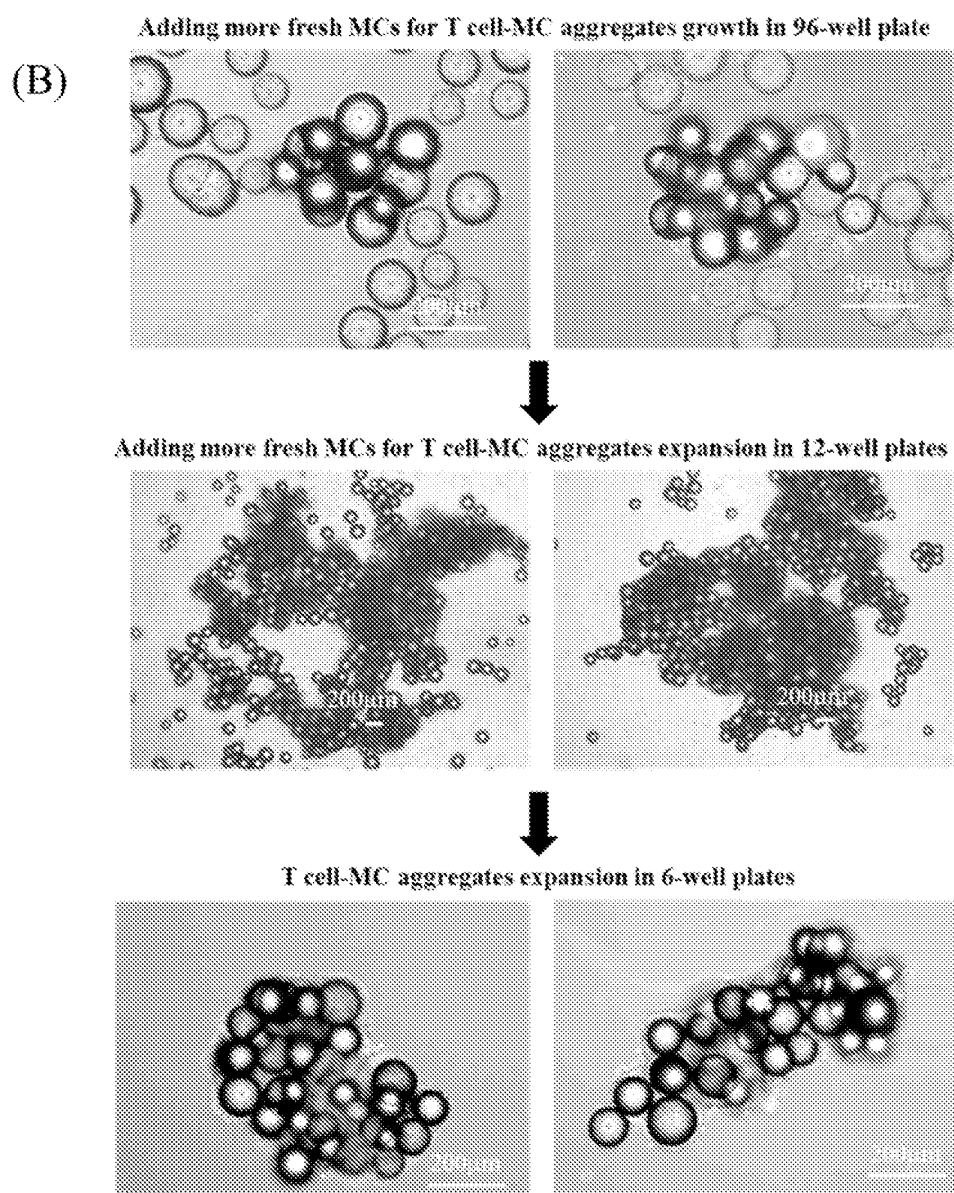
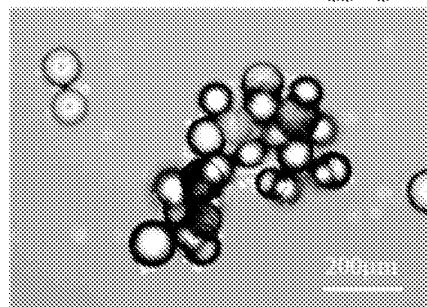


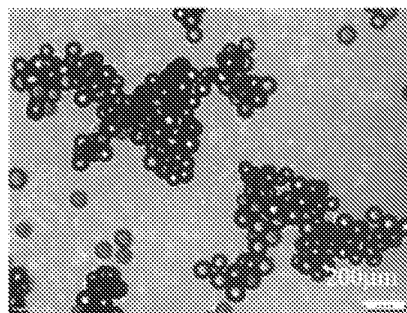
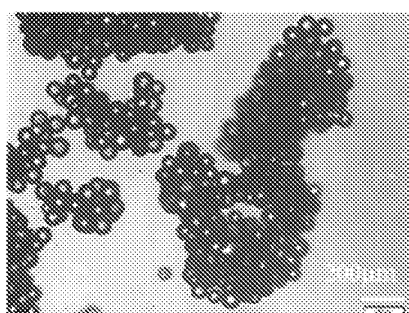
FIG. 5 (CONTINUED)

Adding more fresh MCs for CD34+HSCs -MC aggregates growth in 96-well plate

(C)



Adding more fresh MCs for CD34+HSCs -MC aggregates expansion in 12-well plates



CD34+HSCs -MC aggregates expansion in 6-well plates

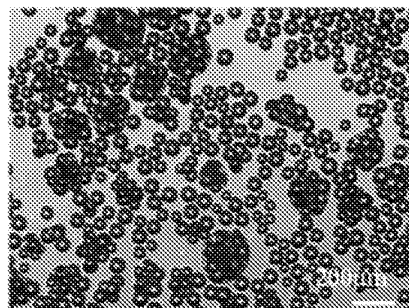
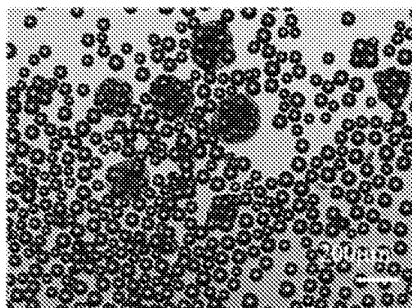


FIG. 5 (CONTINUED)

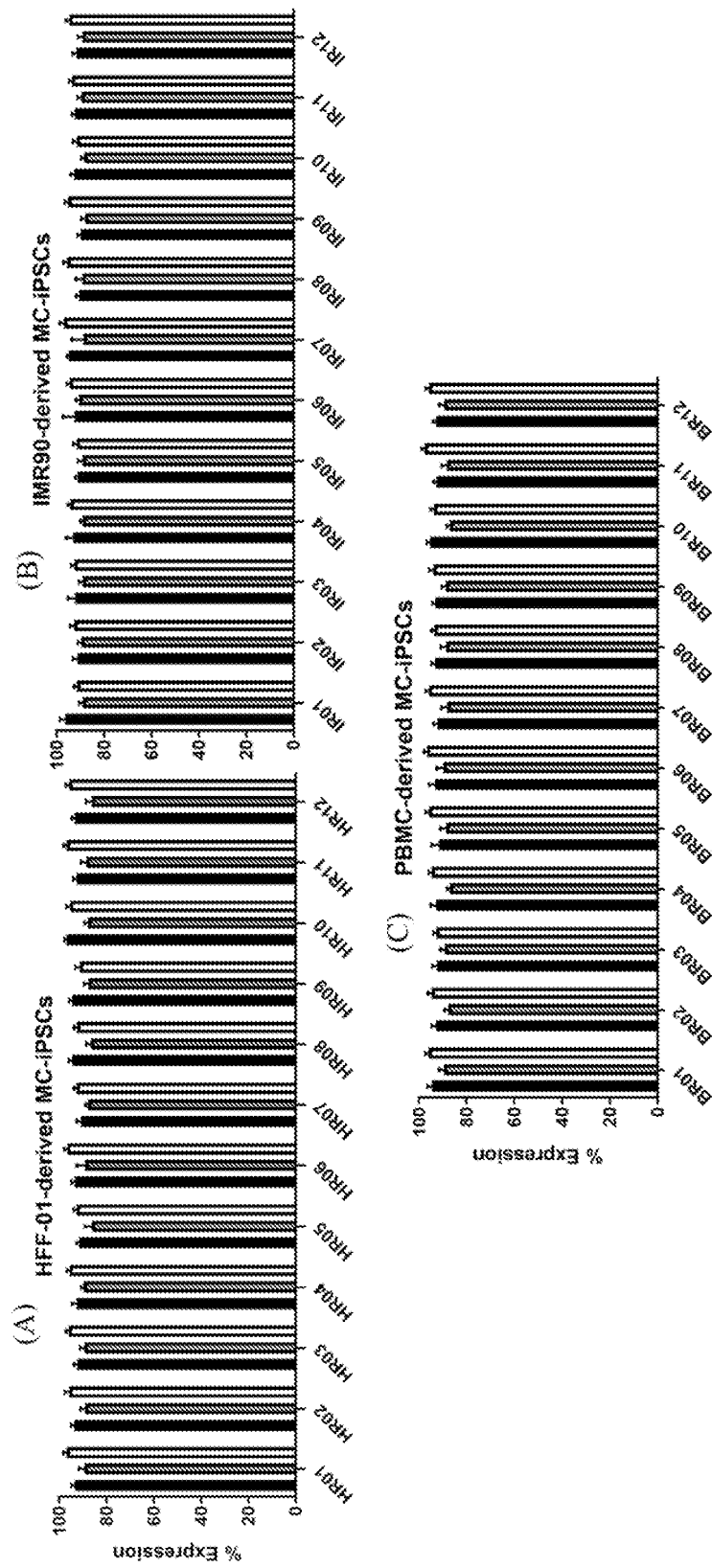


FIG. 6

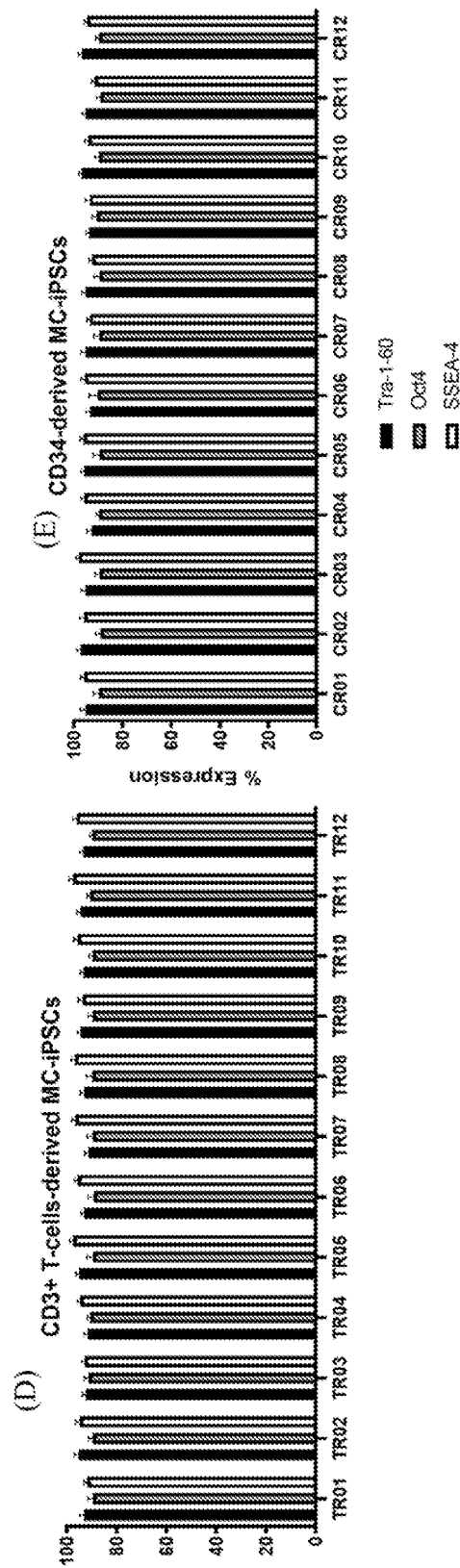


FIG. 6 (CONTINUED)

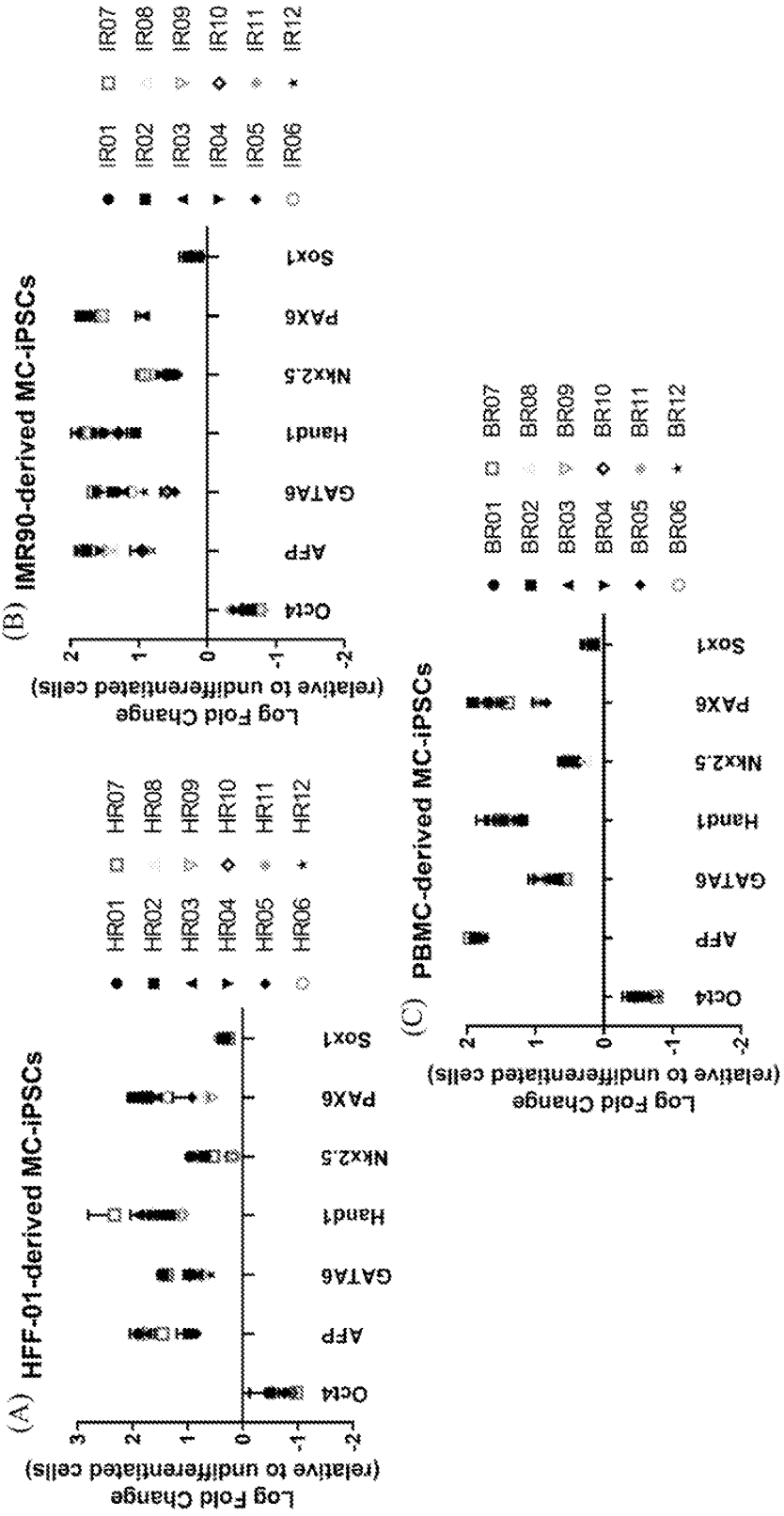


FIG. 7

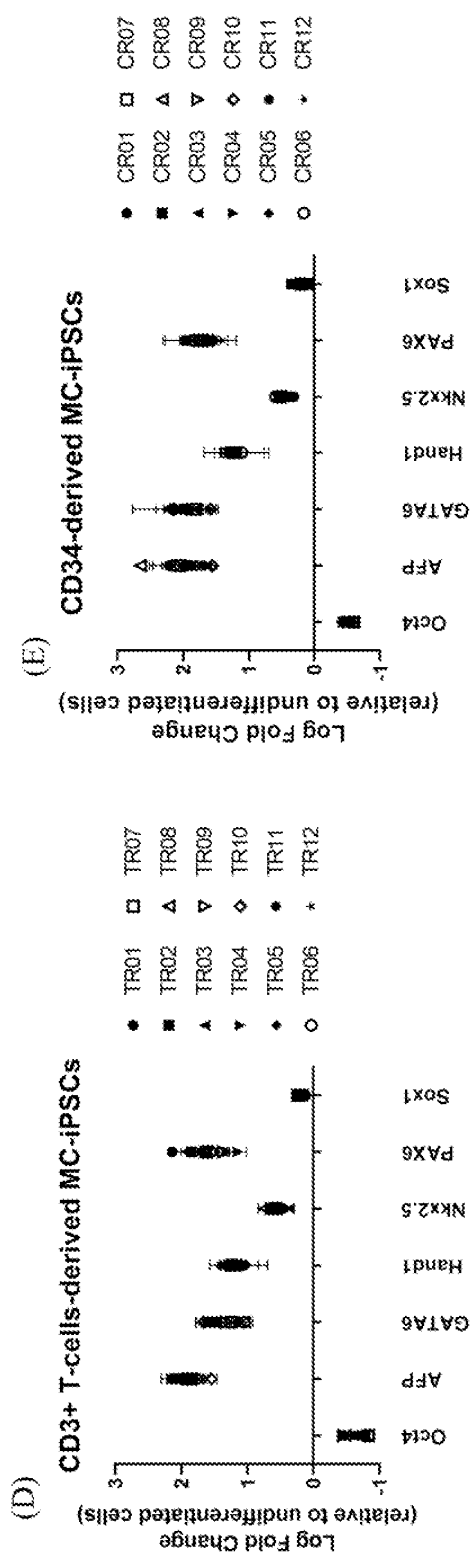
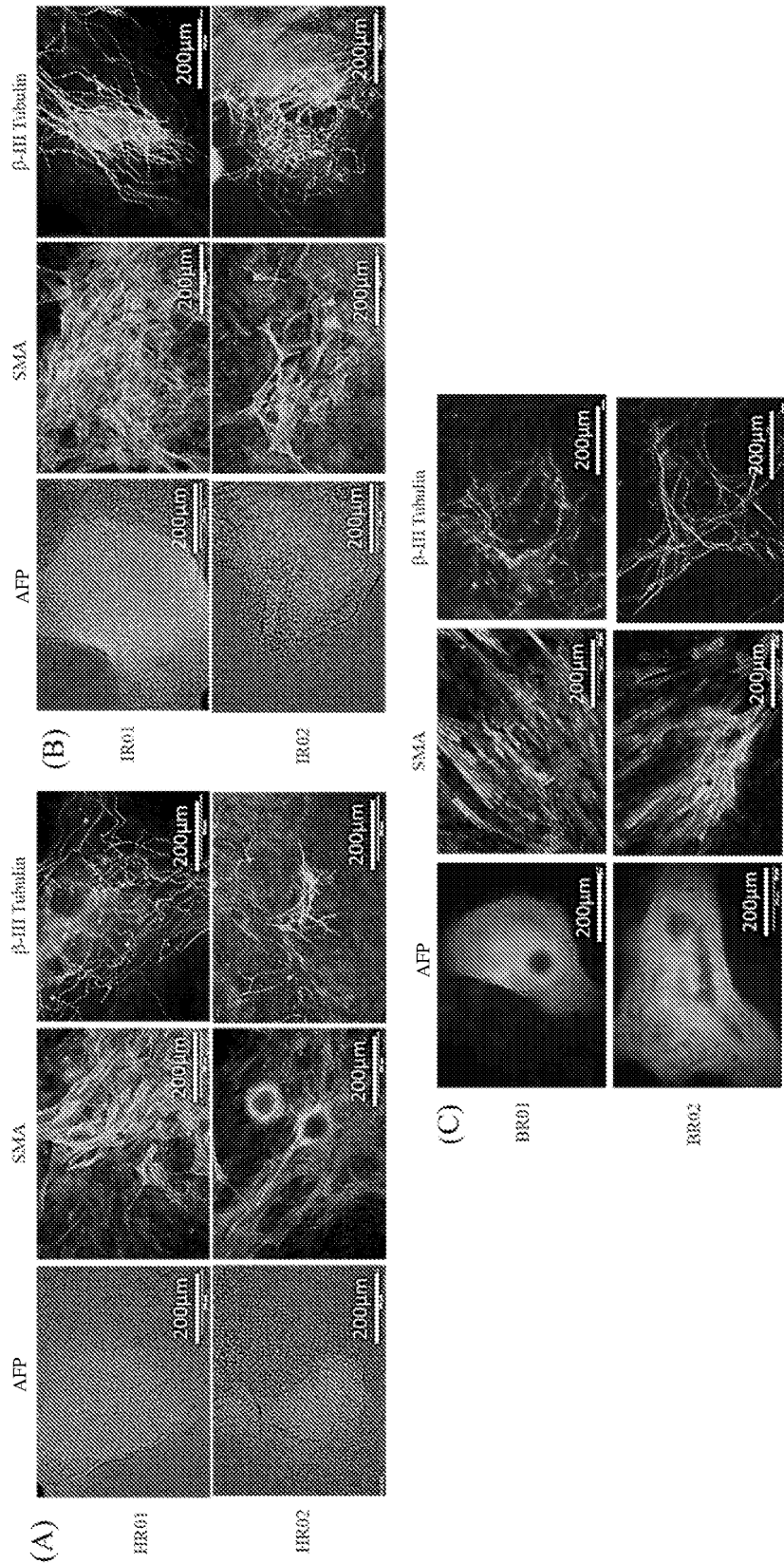


FIG. 7 (CONTINUED)



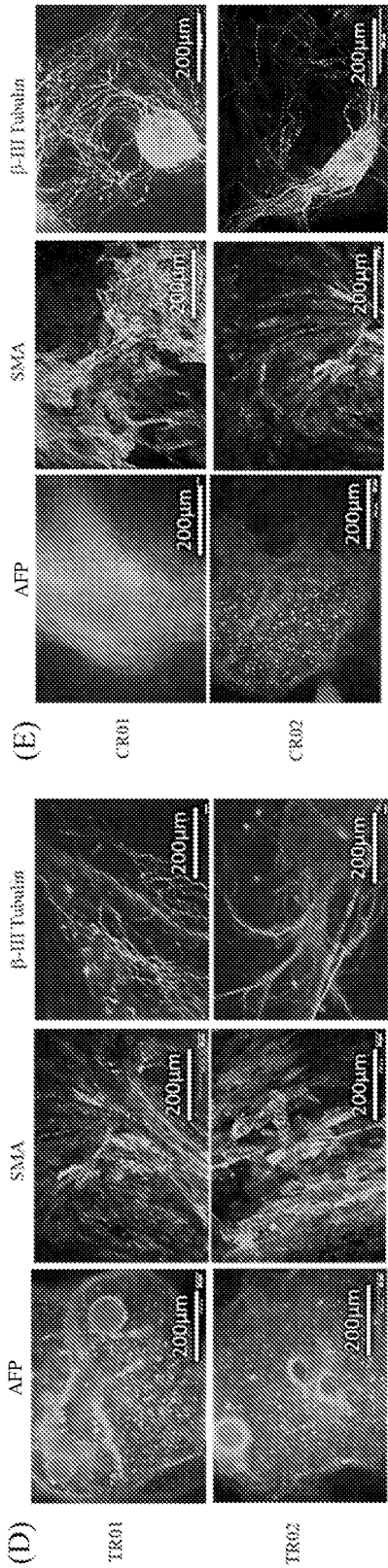


FIG. 8 (CONTINUED)

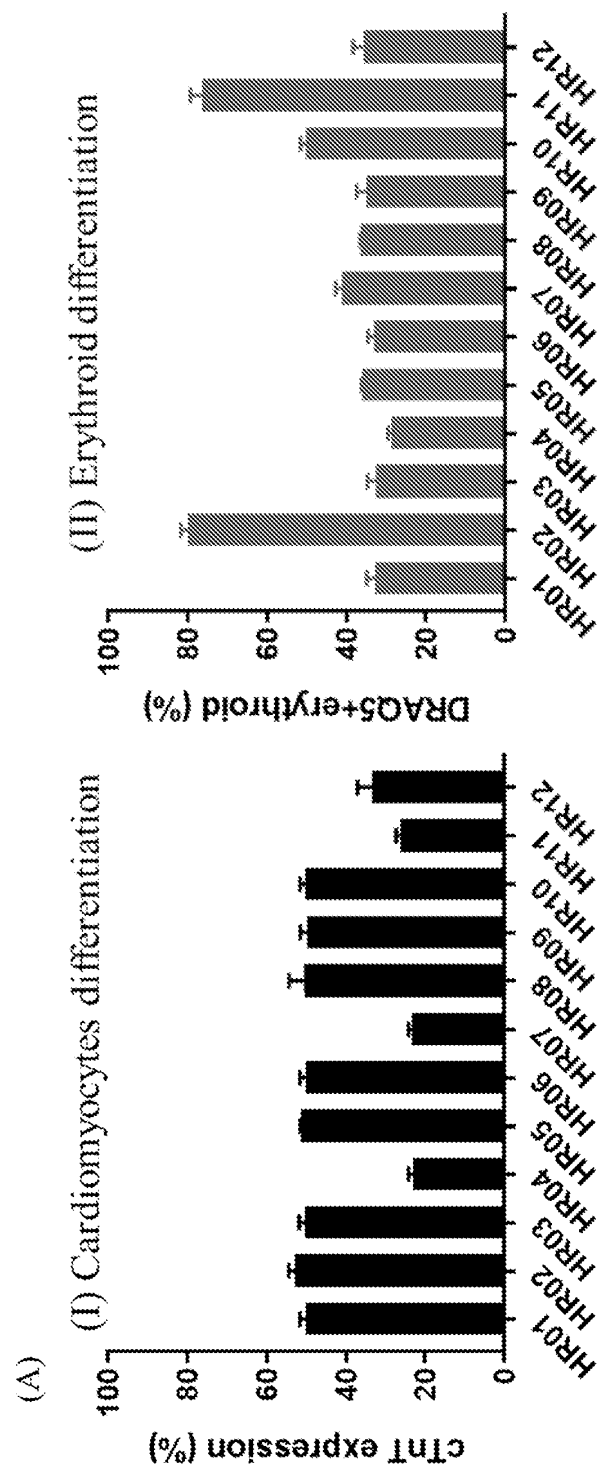


FIG. 9

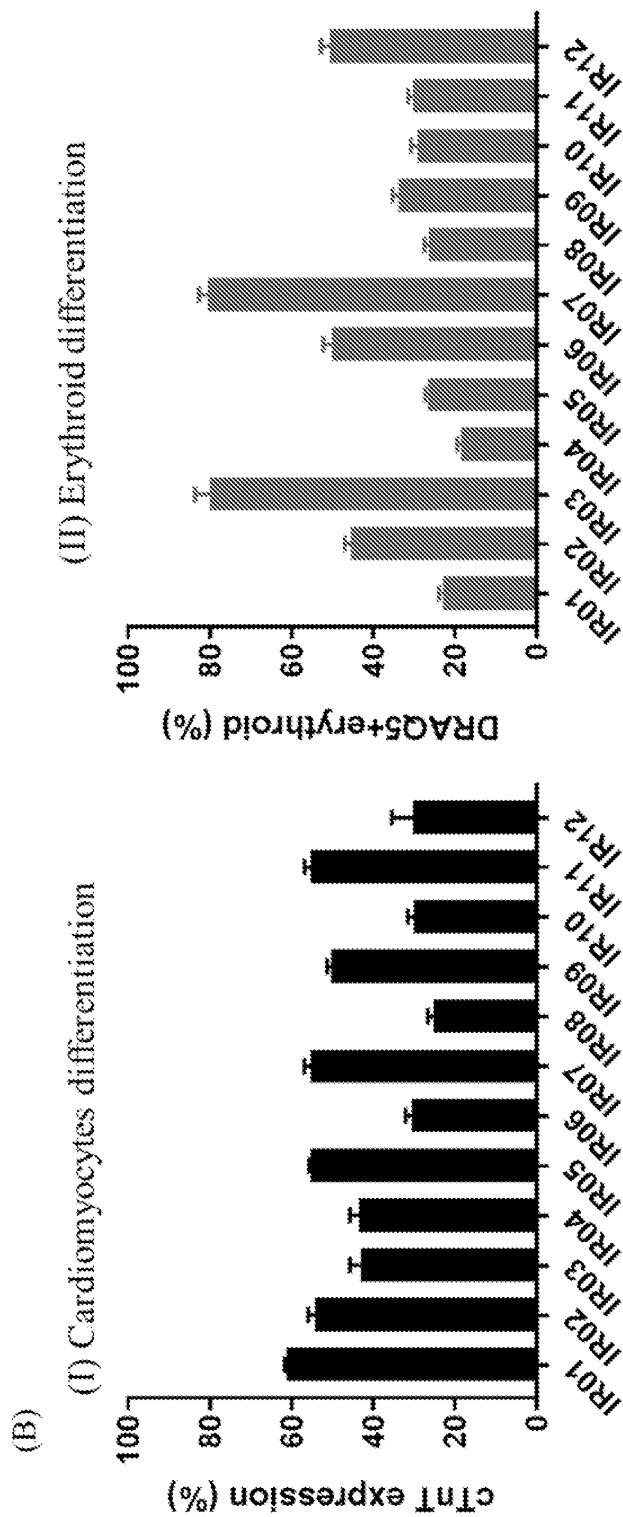


FIG. 9 (CONTINUED)

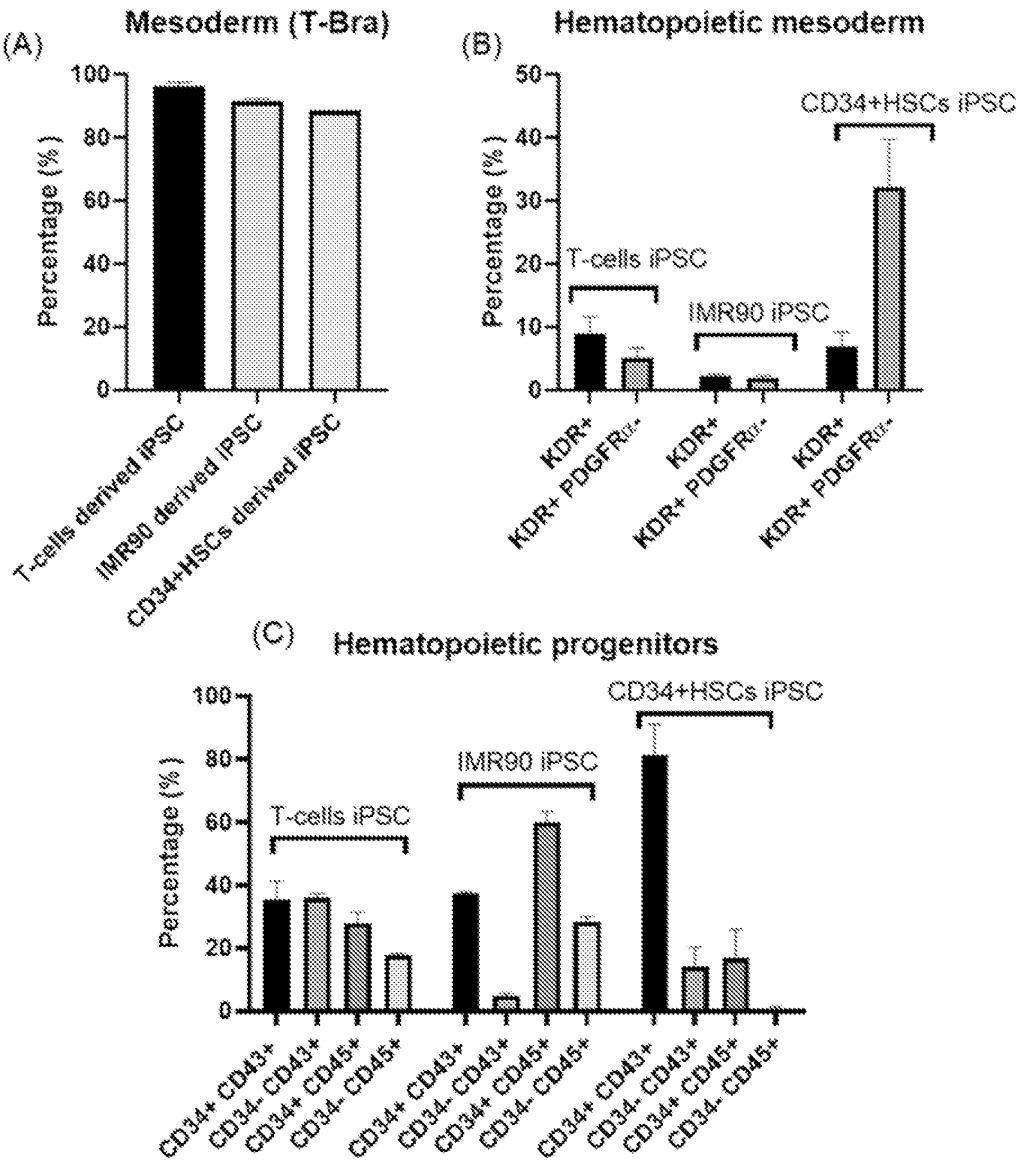


FIG. 10

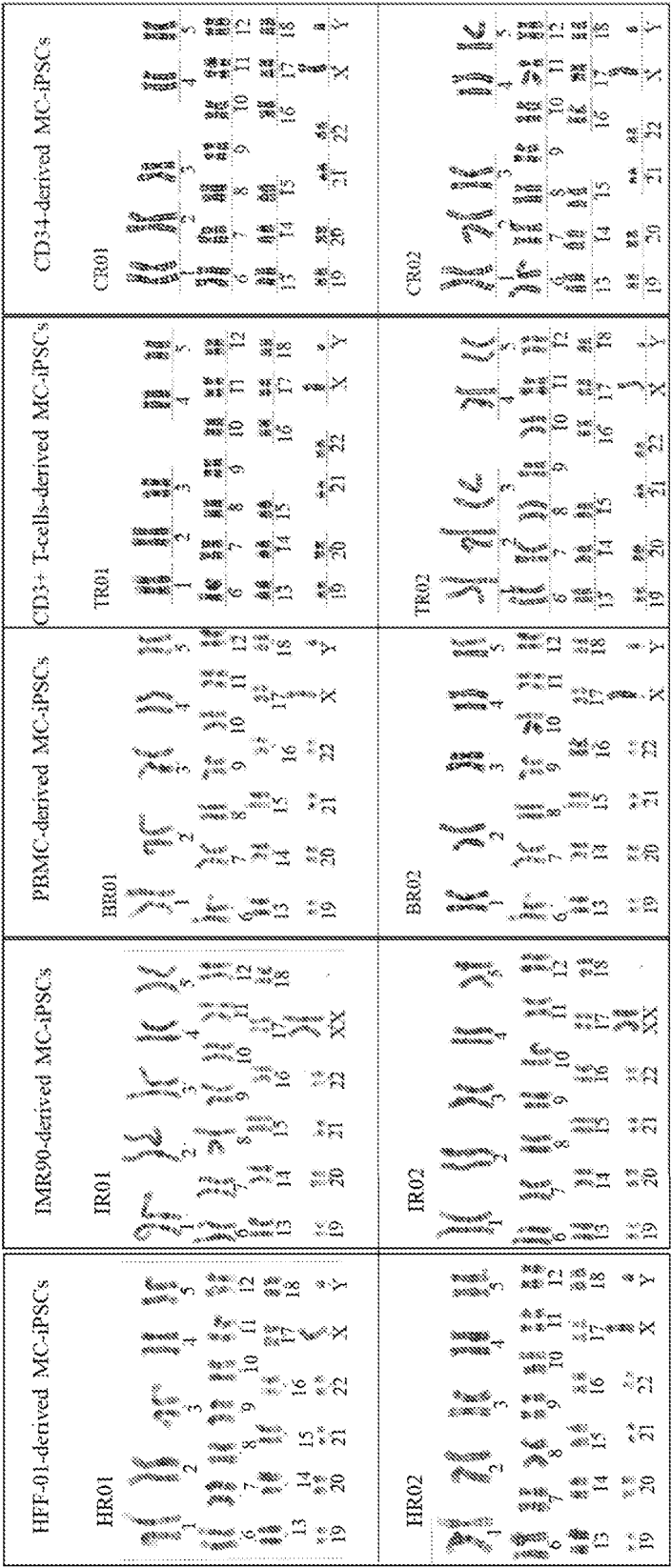


FIG. 11

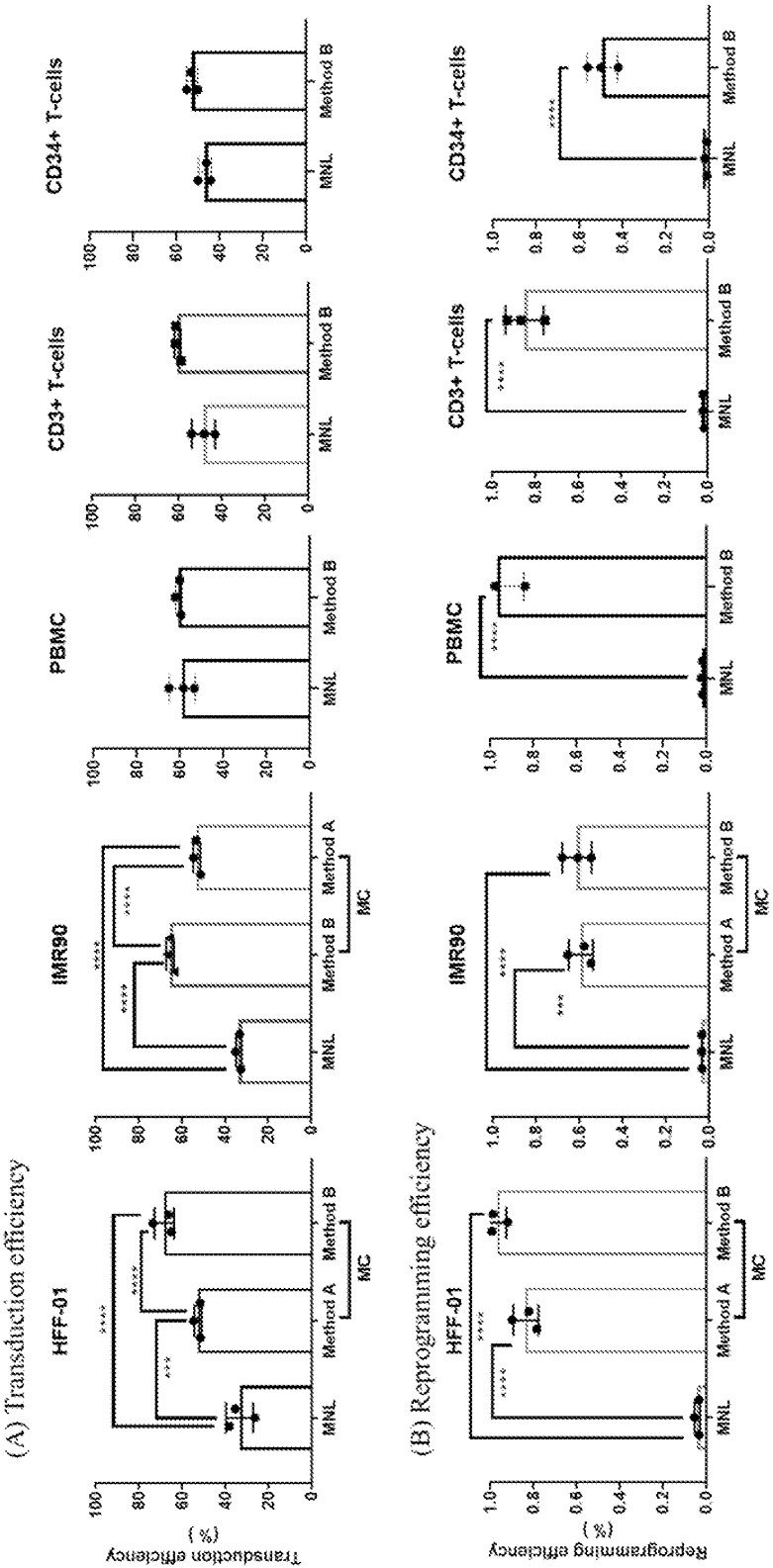


FIG. 12

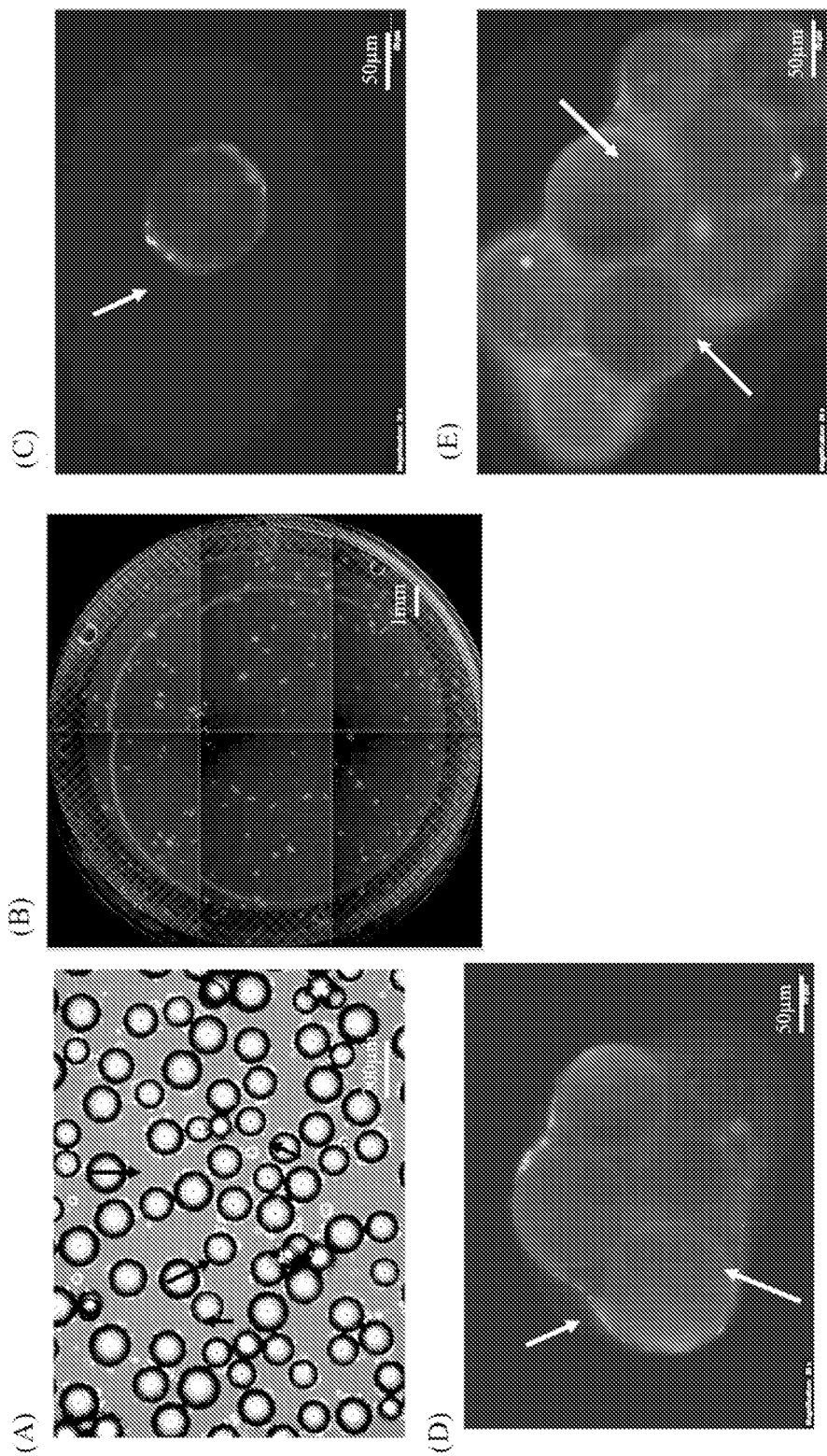


FIG. 13

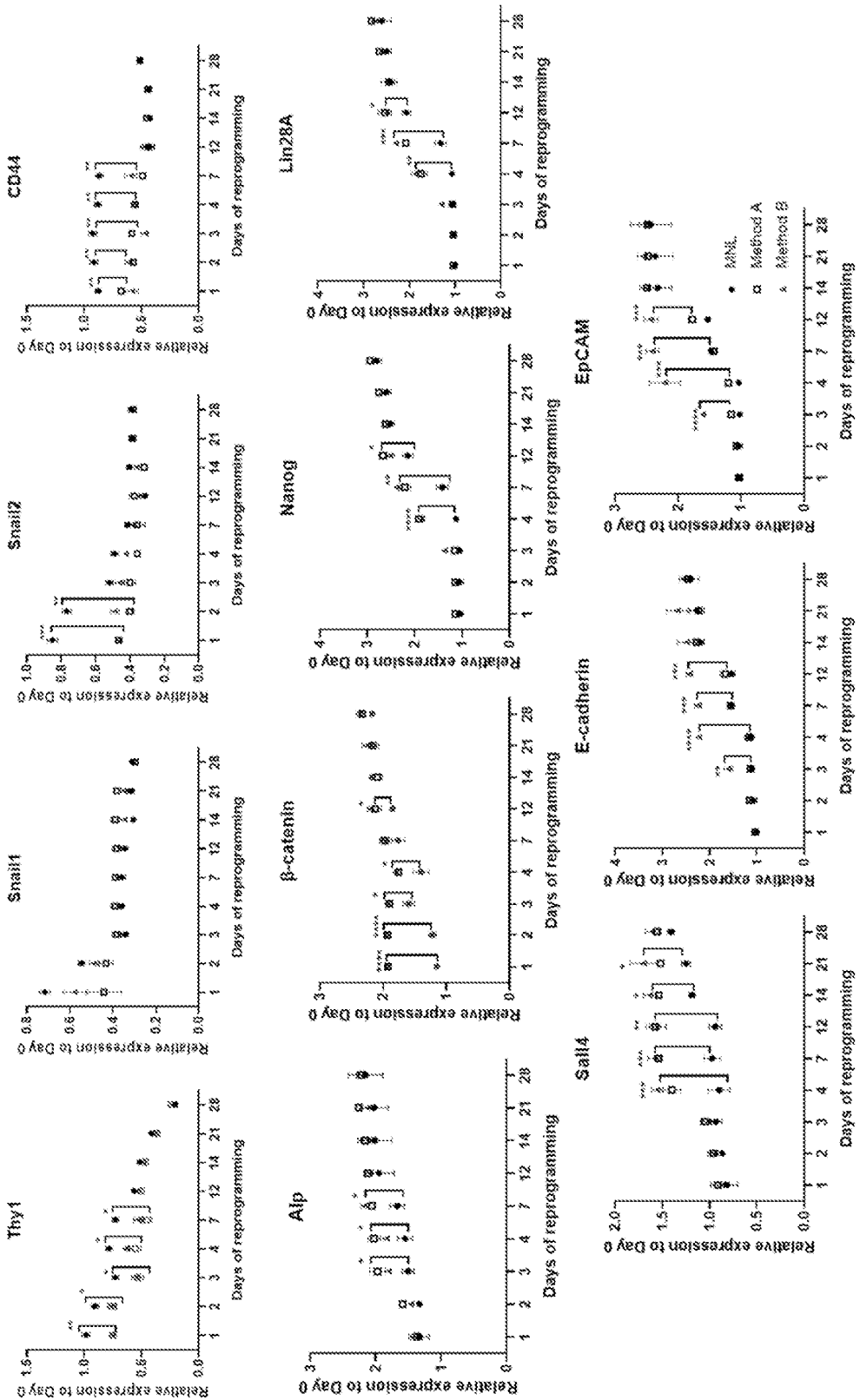


FIG. 14

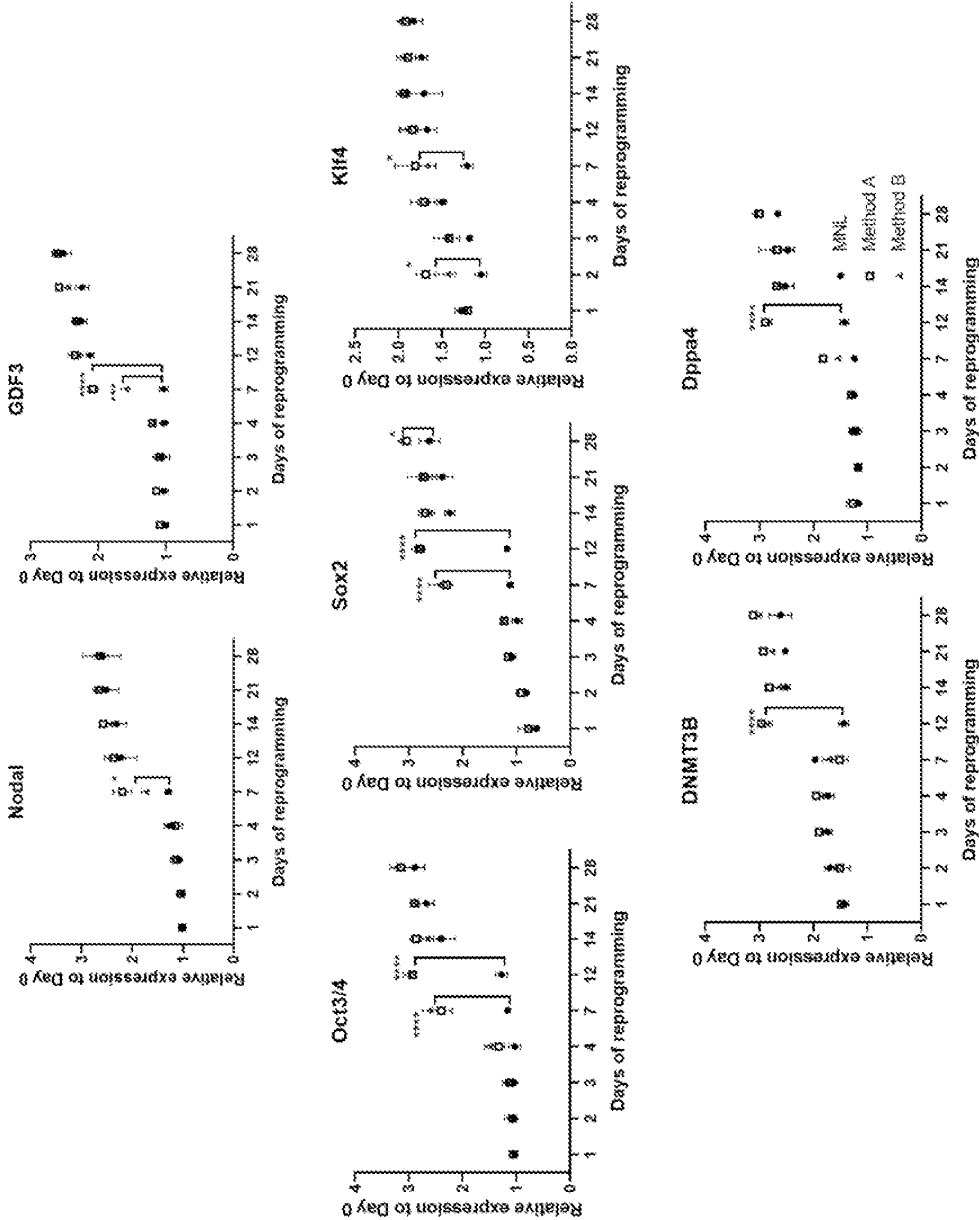


FIG. 15

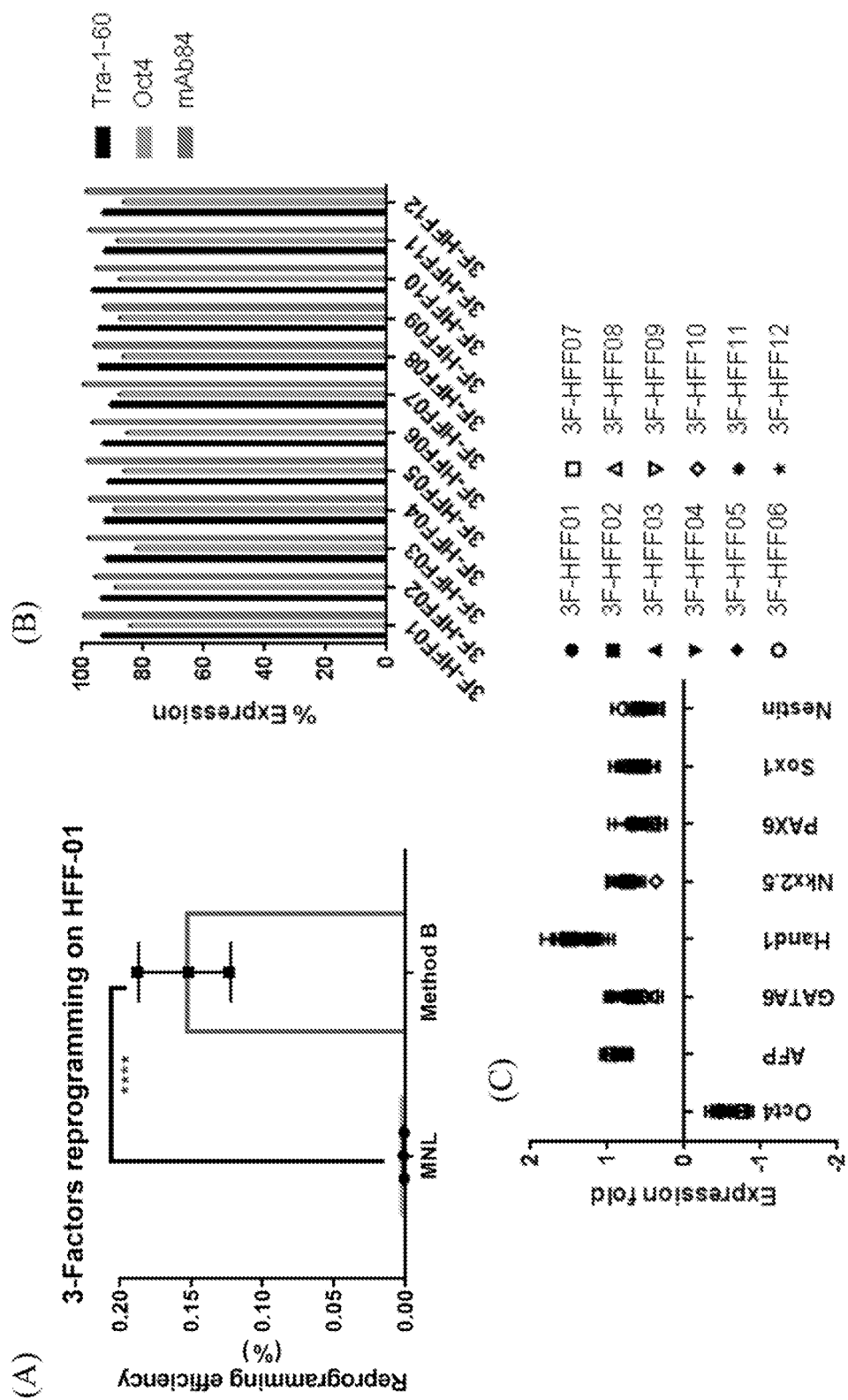


FIG. 16

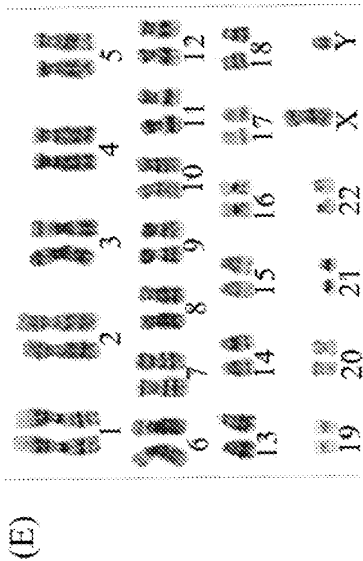
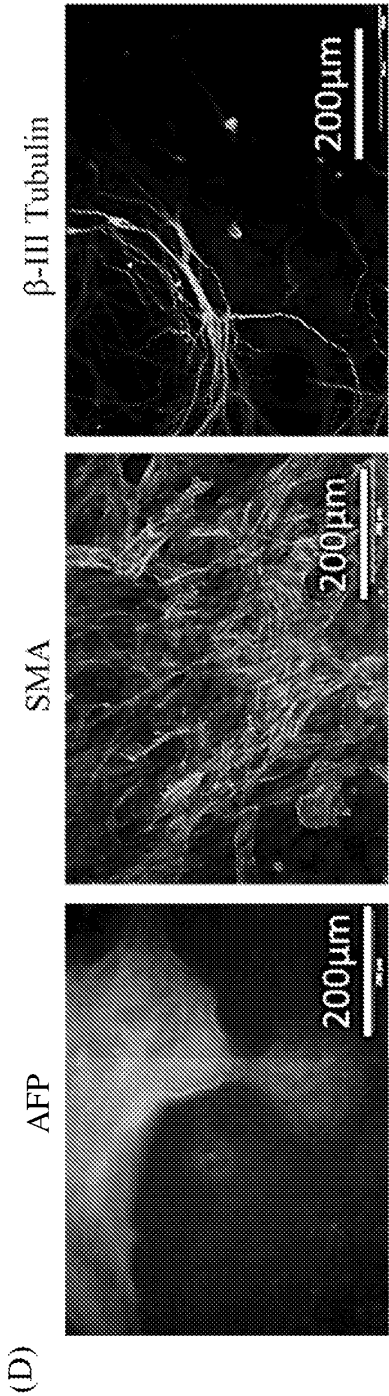


FIG. 16 (CONTINUED)

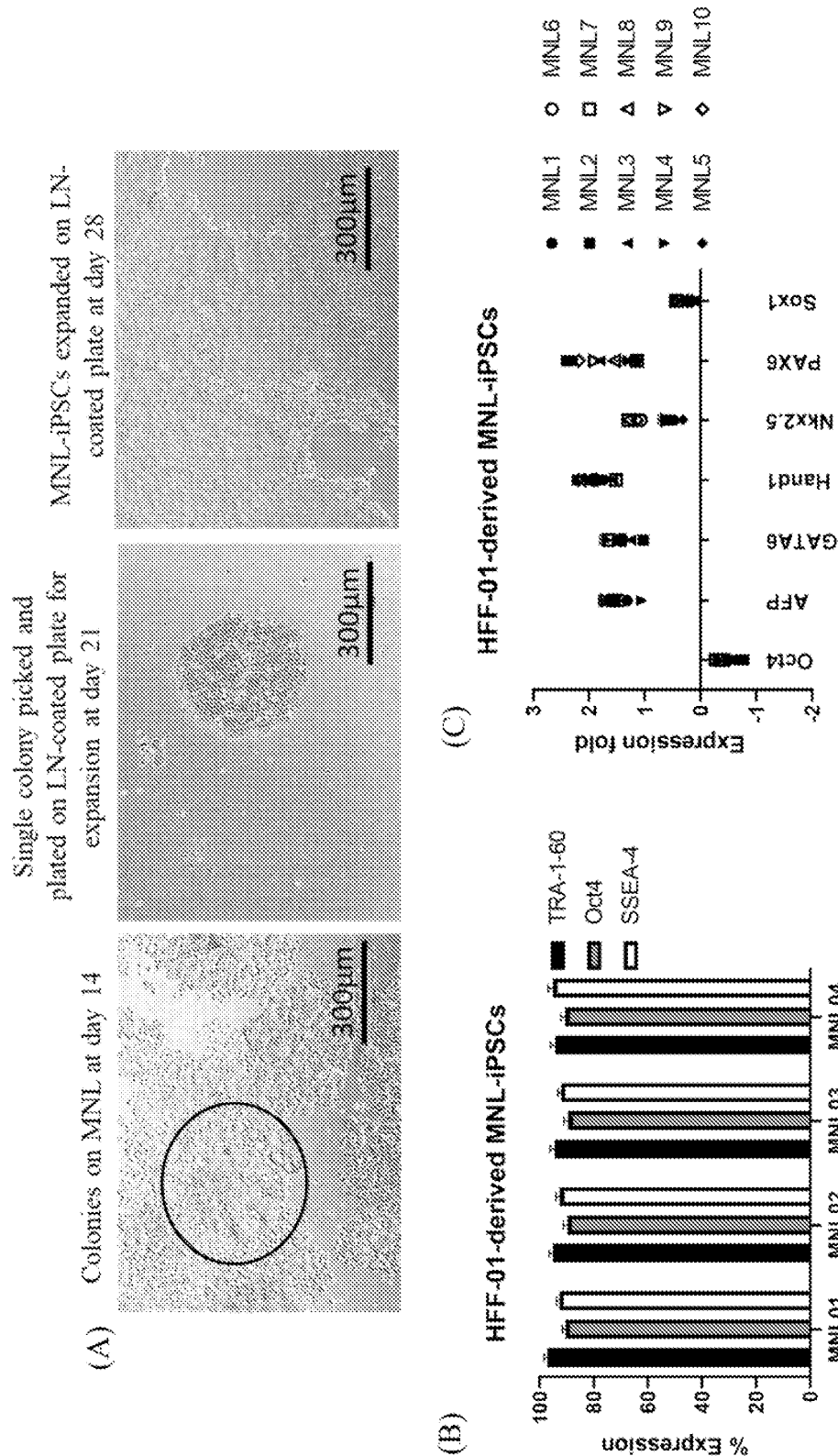
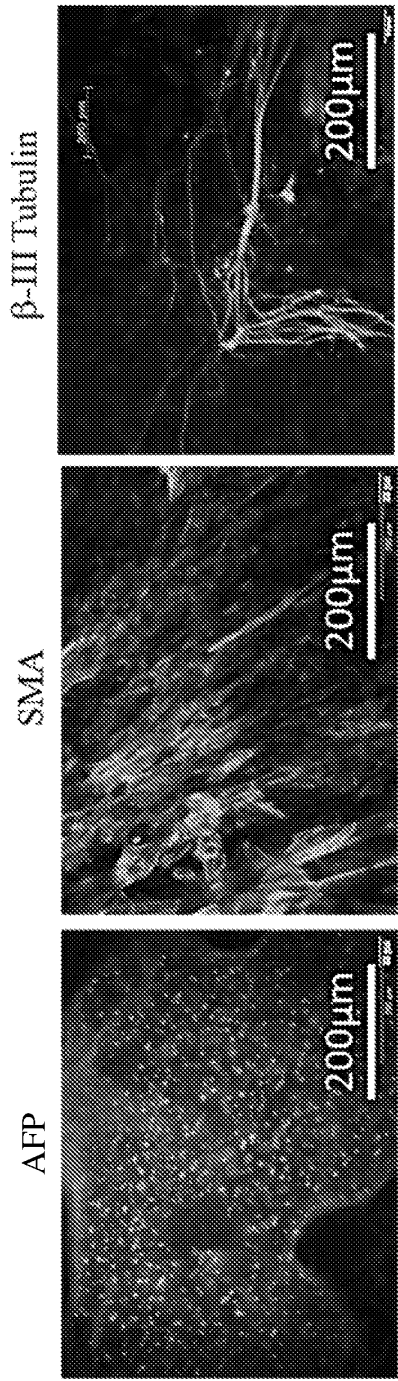
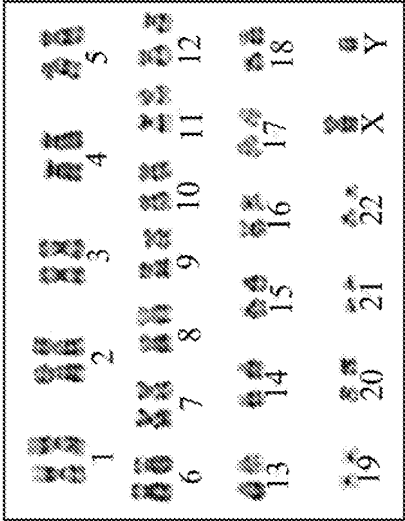


FIG. 17



(D)



(E)

FIG. 17 (CONTINUED)