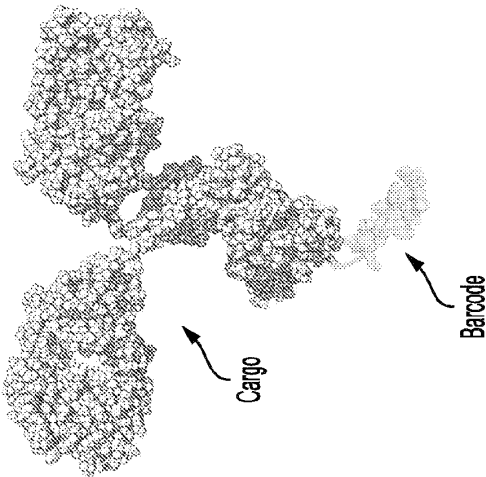


barcoded cargo



DNA encoding a barcoded cargo



FIG. 1A

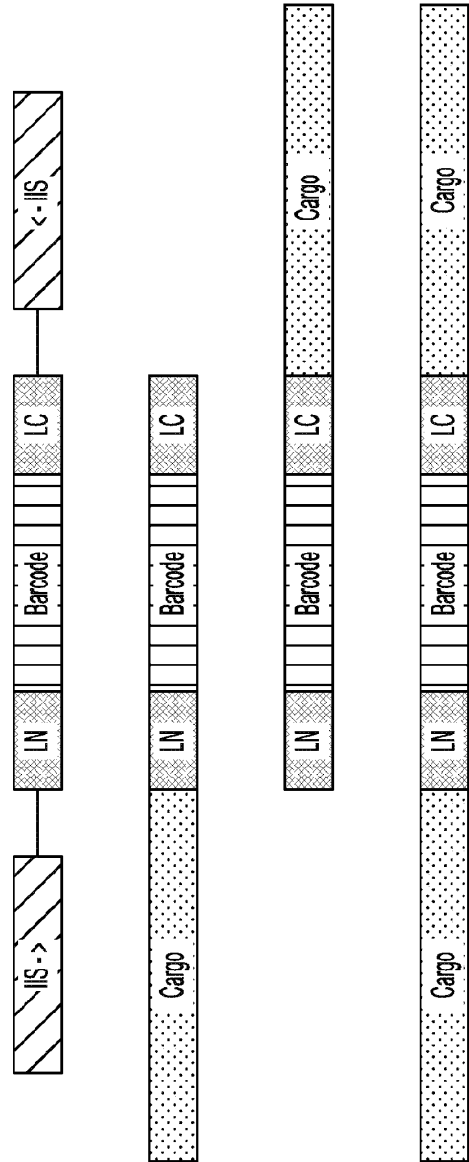


FIG. 1B

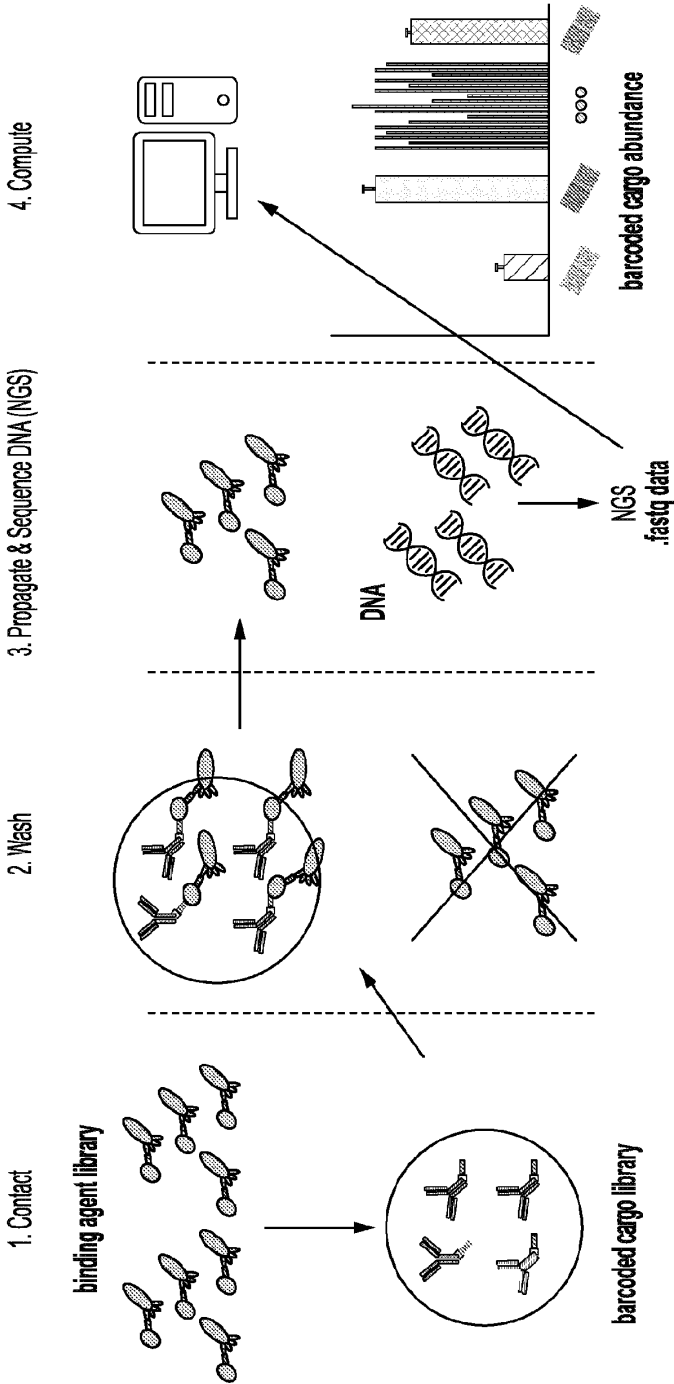


FIG. 2

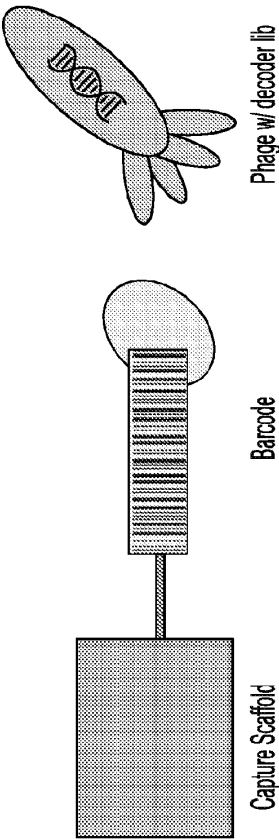


FIG. 3A

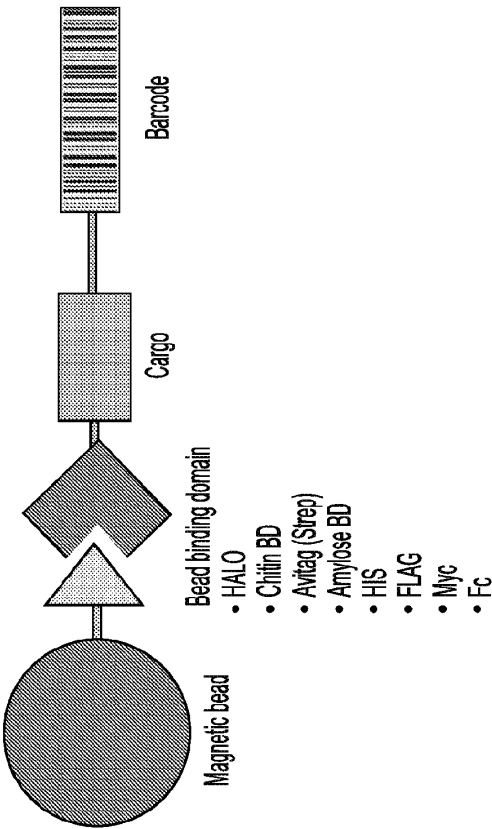


FIG. 3B

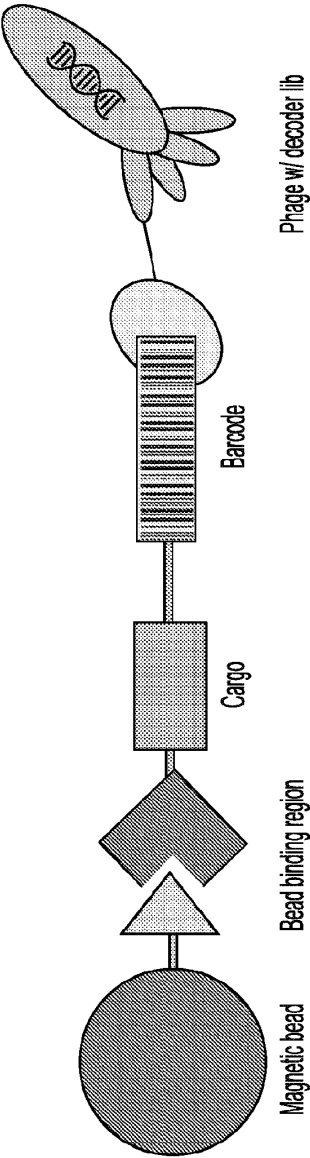


FIG. 3C

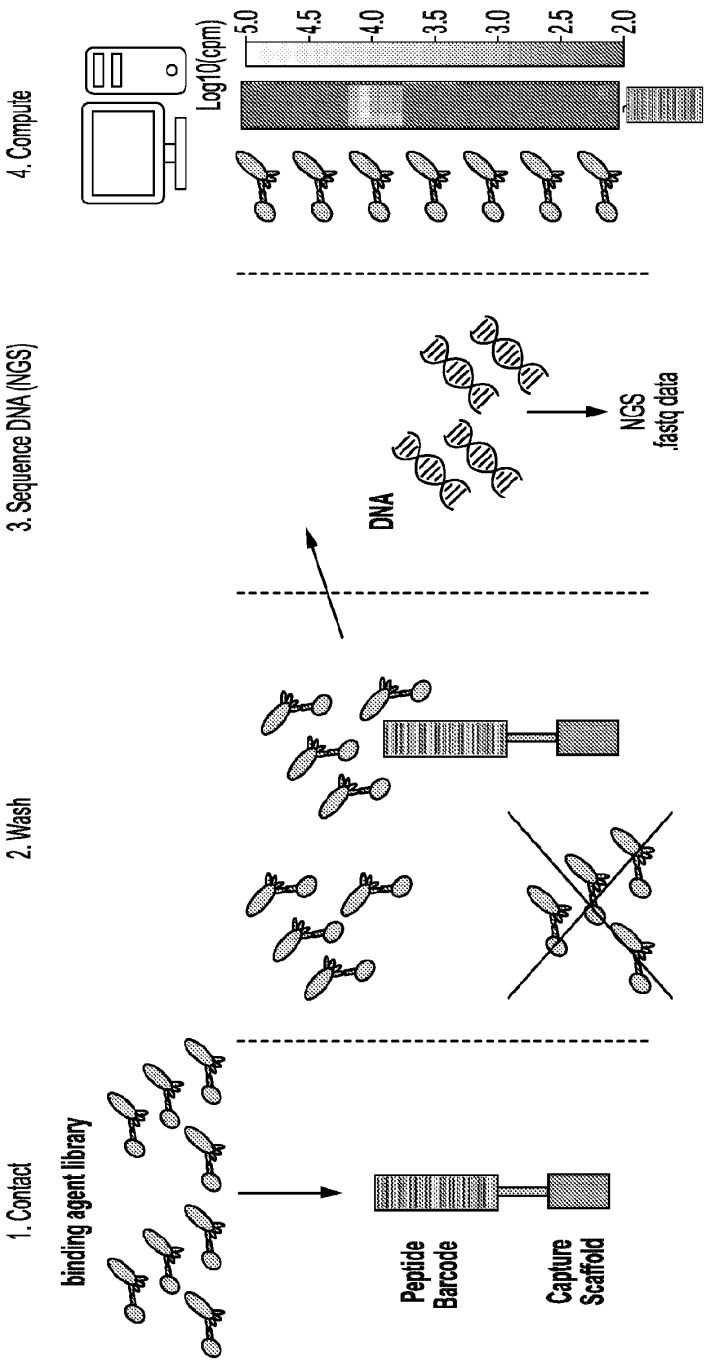


FIG. 4

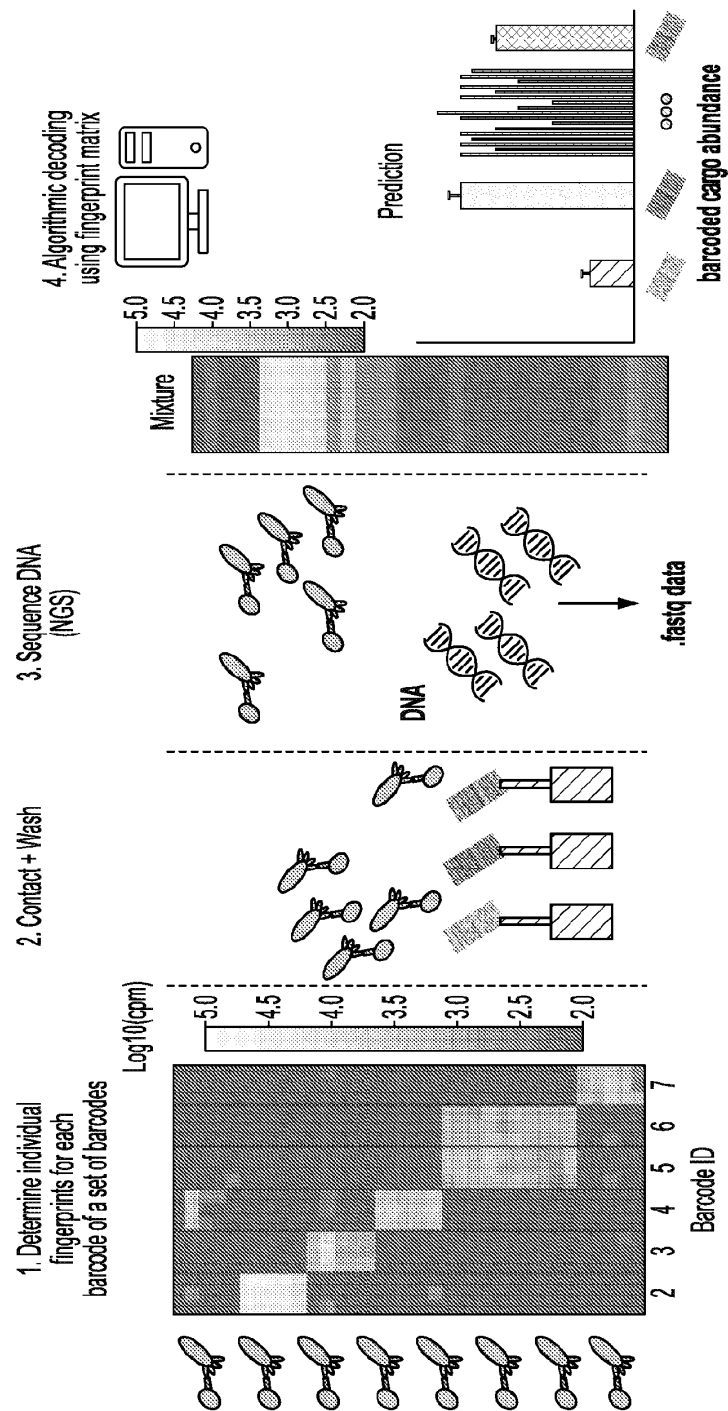


FIG. 5

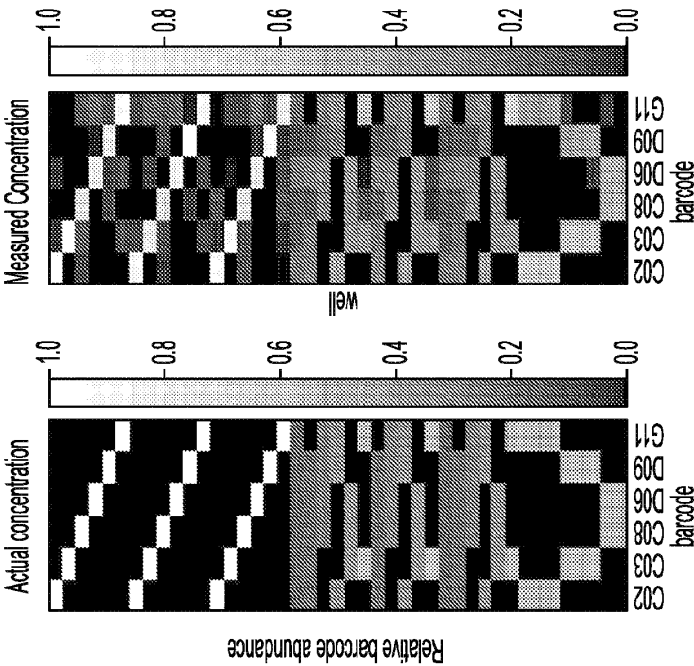


FIG. 6A

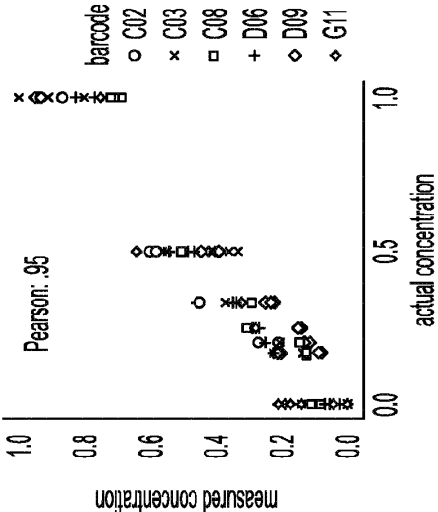
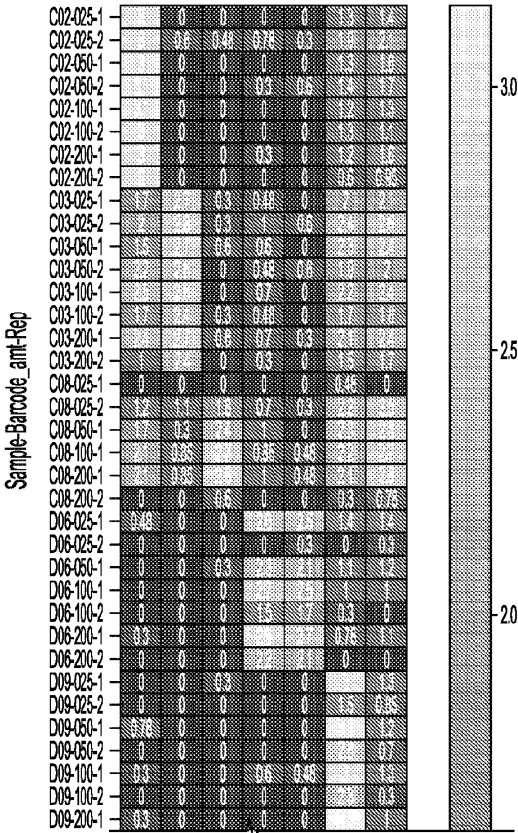
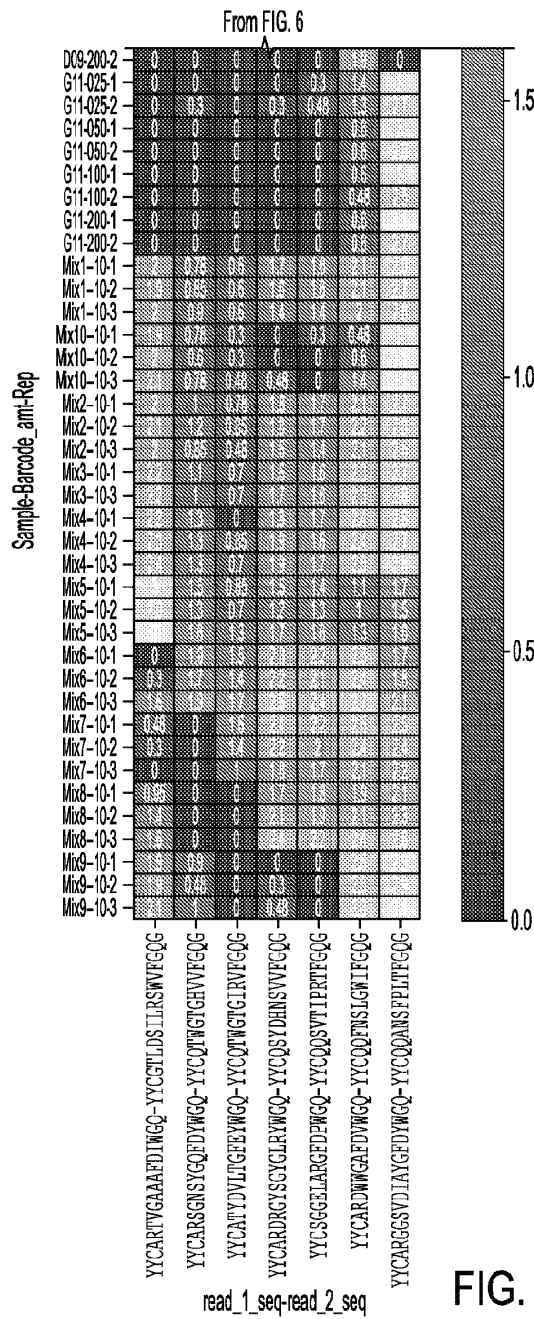


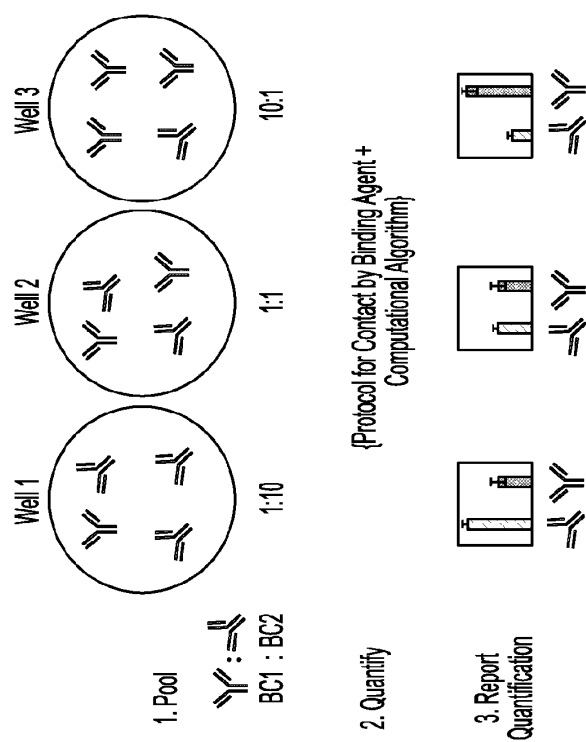
FIG. 6B



To FIG. 6 Continued

FIG. 6C





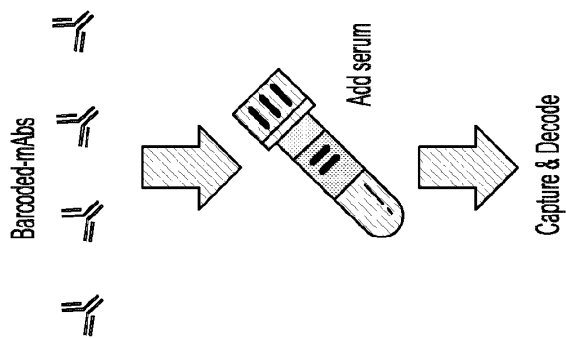


FIG. 8A

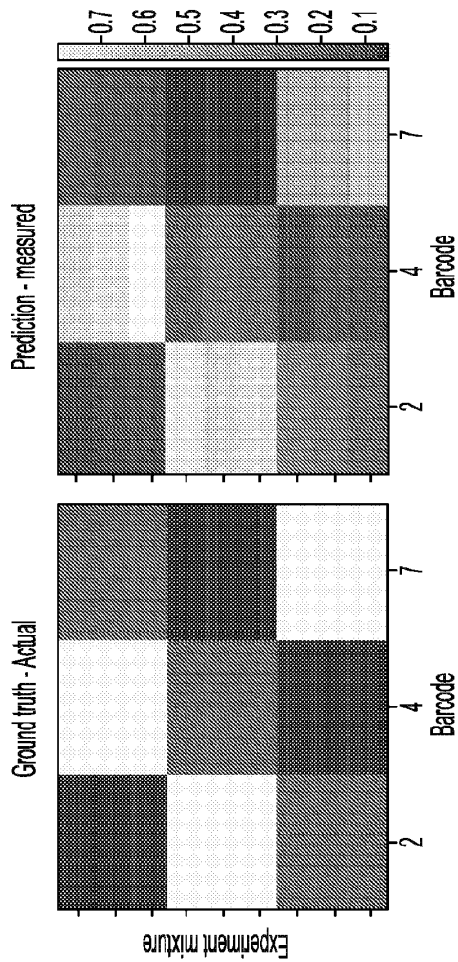


FIG. 8B

spearman corr: 0.926 pval: 4.51e-12

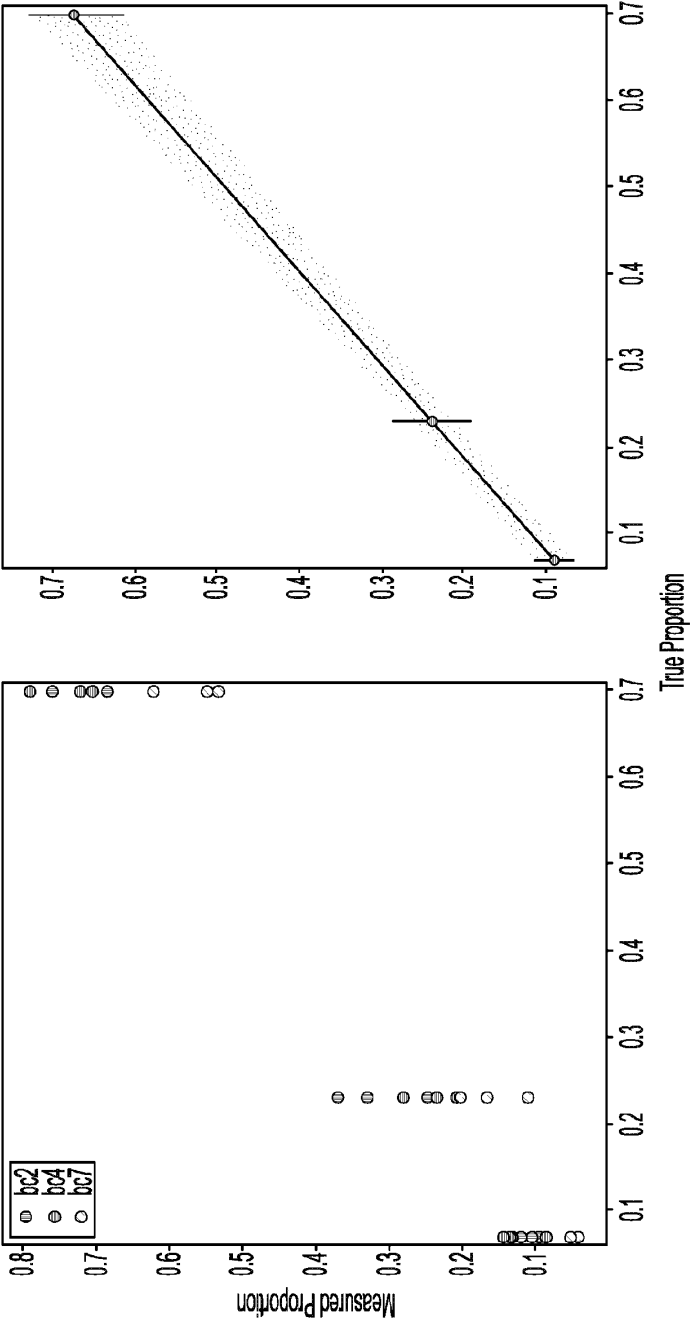


FIG. 8C

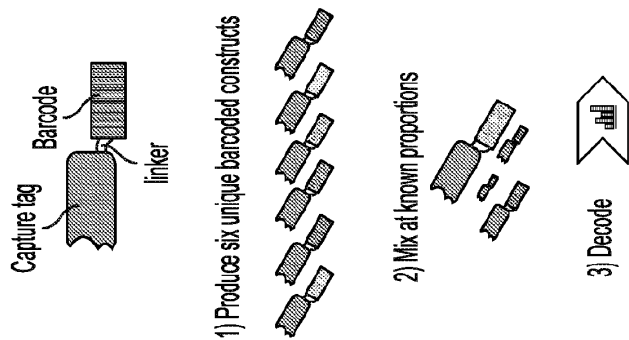


FIG. 9A

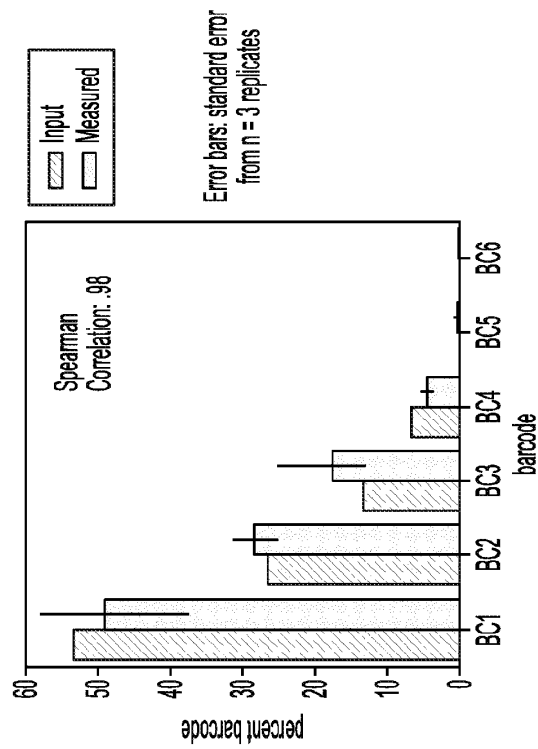
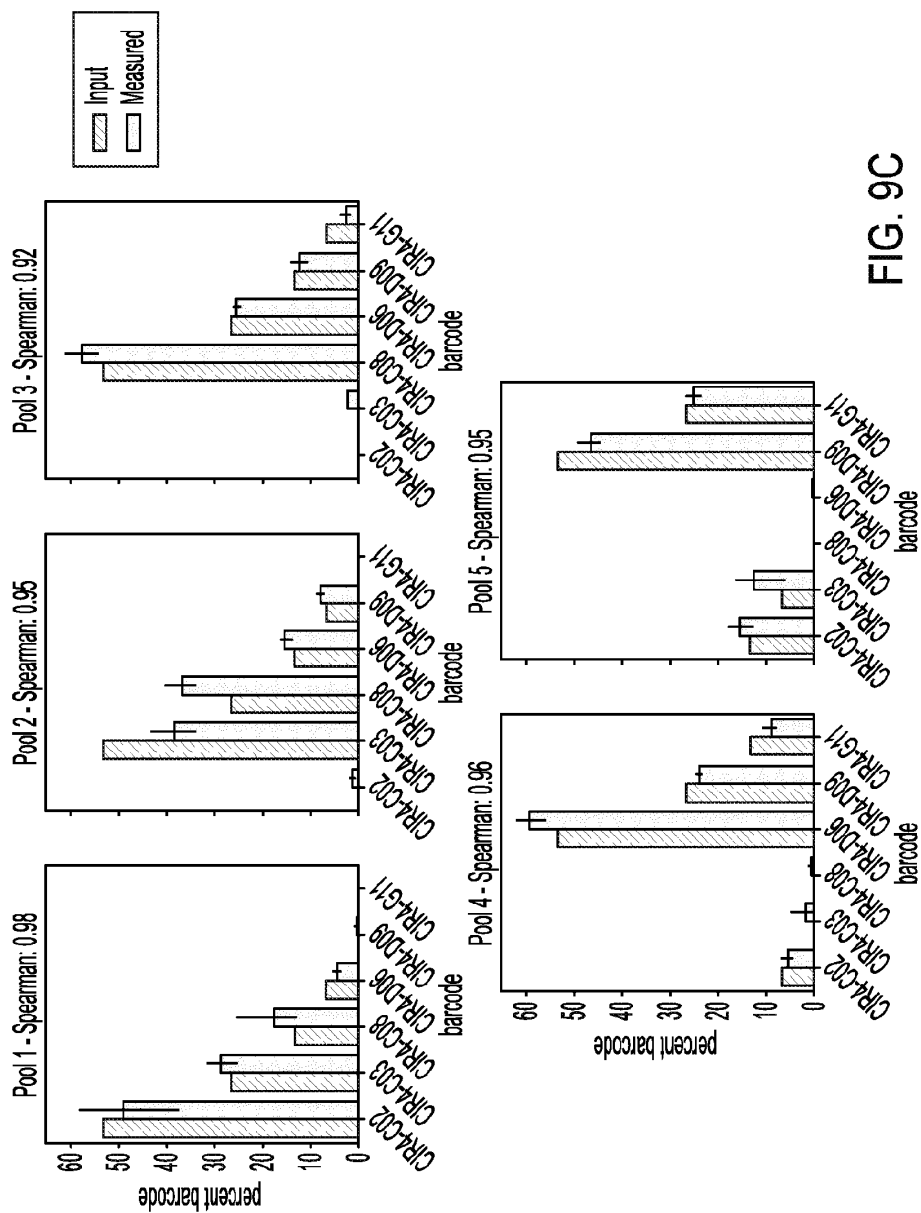


FIG. 9B



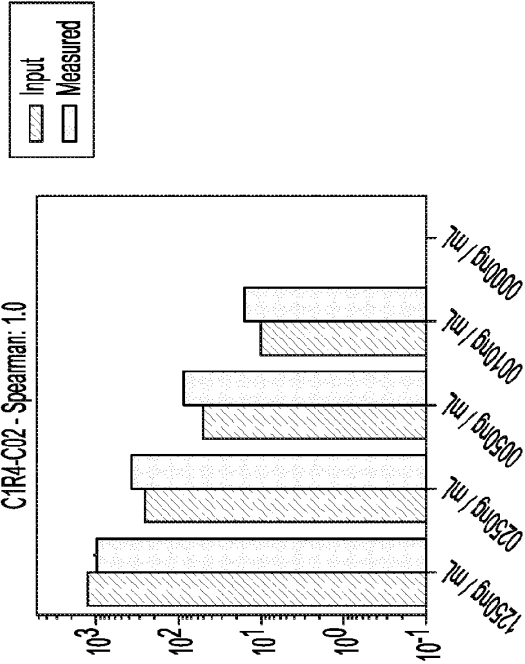


FIG. 10B

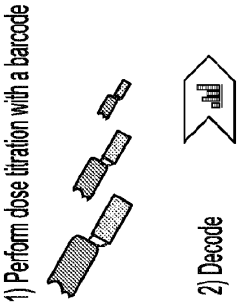
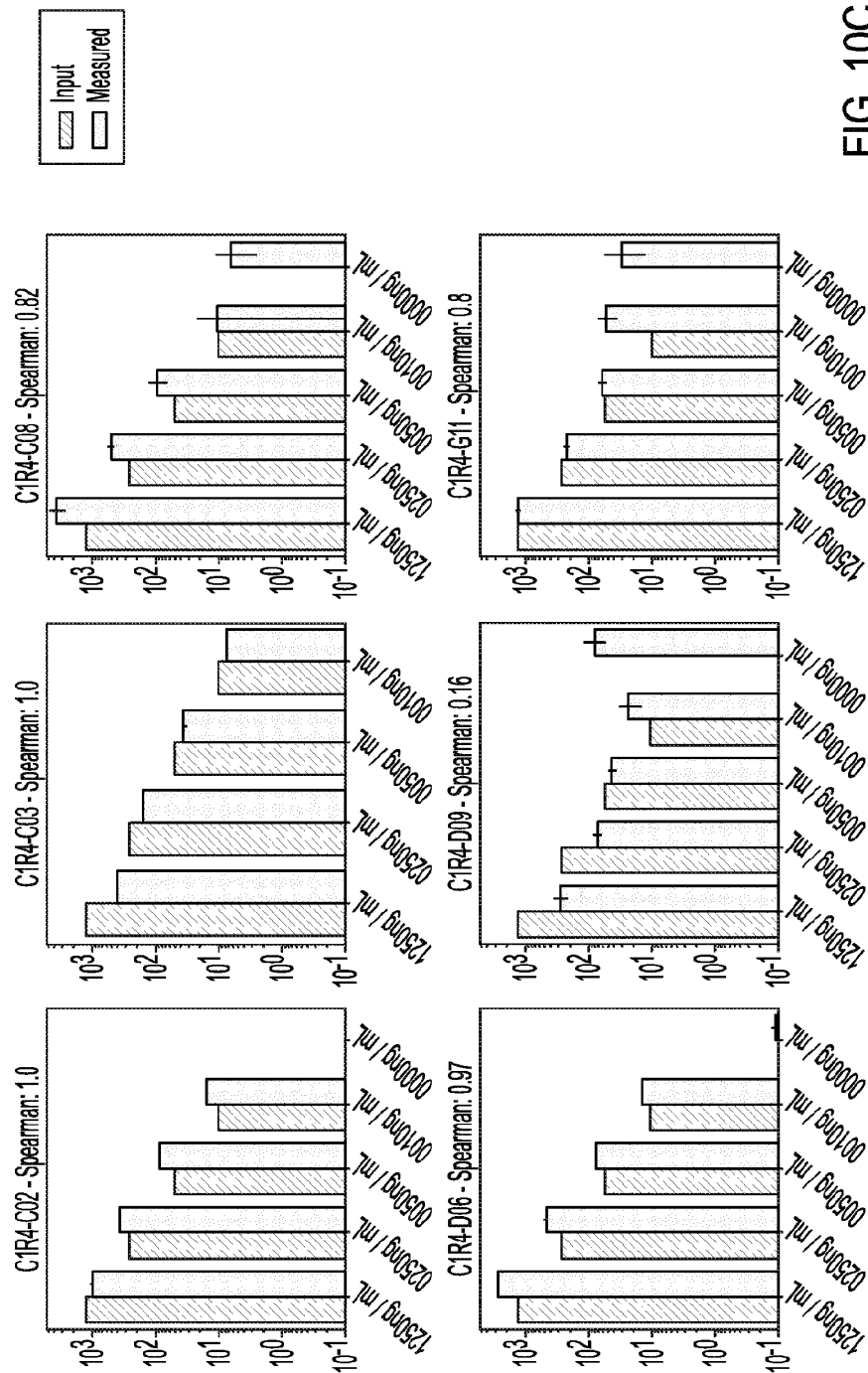


FIG. 10A



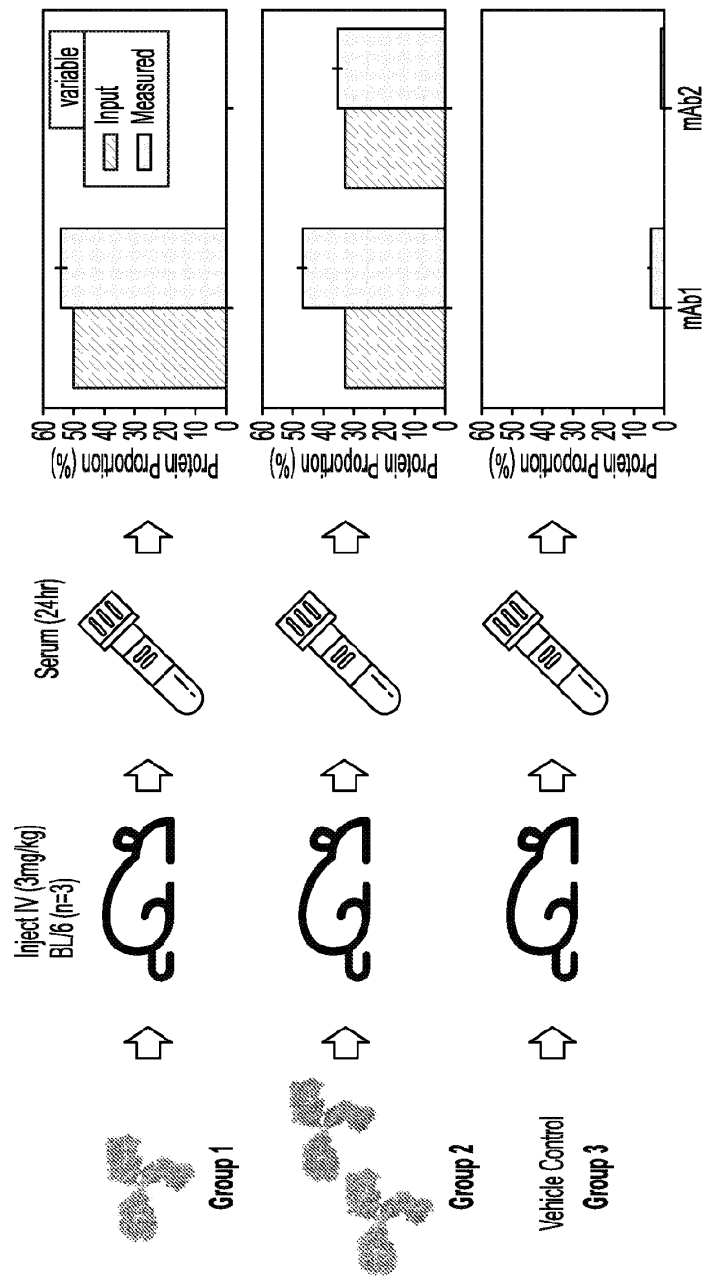


FIG. 11

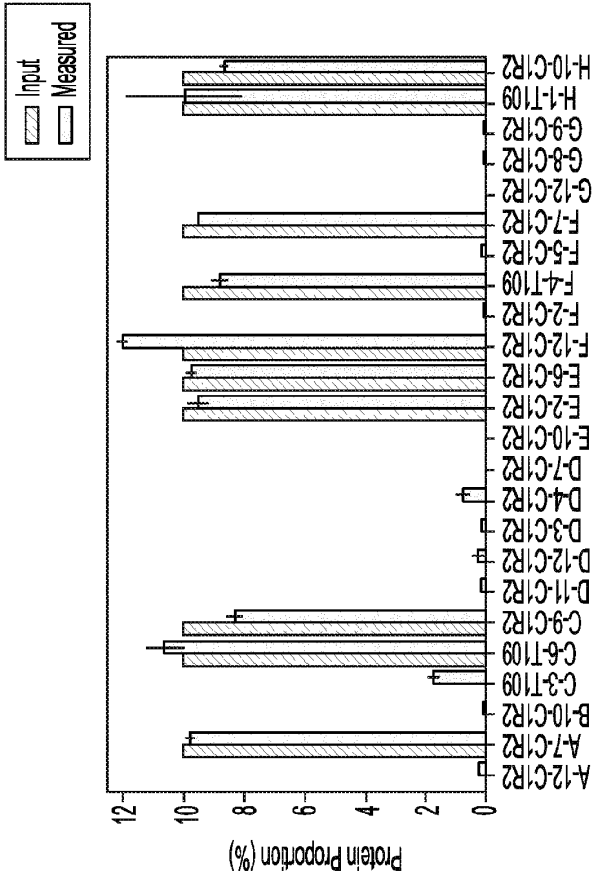


FIG. 12B

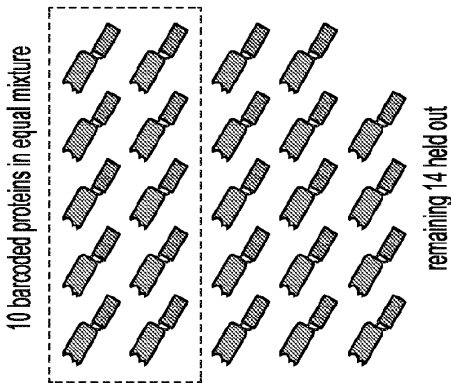


FIG. 12A

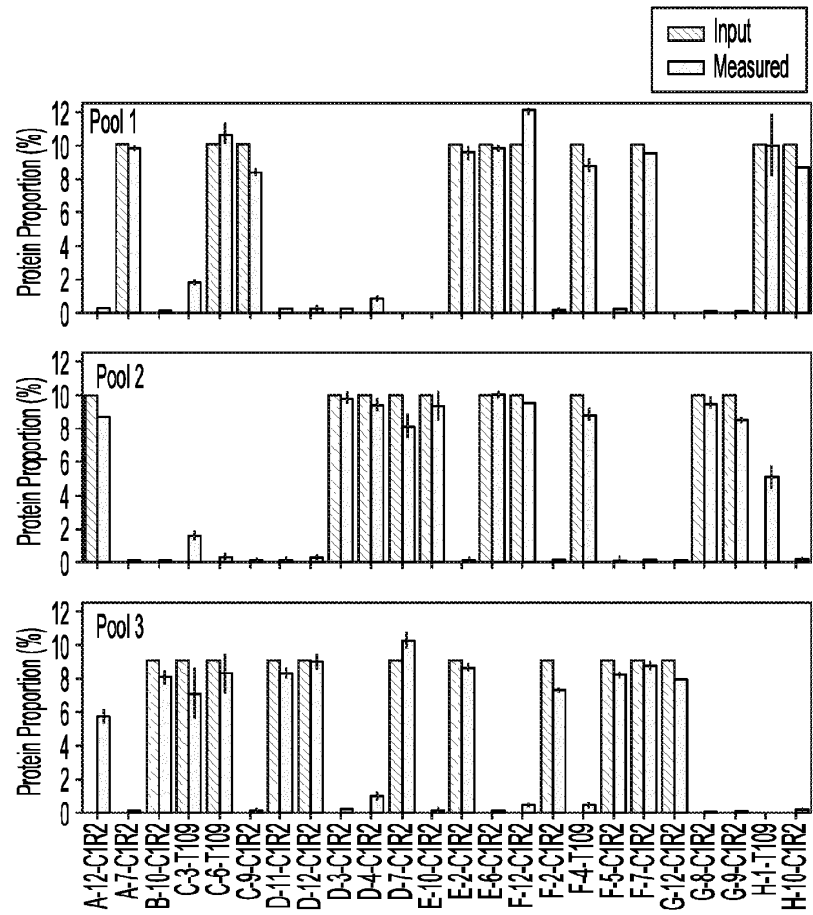
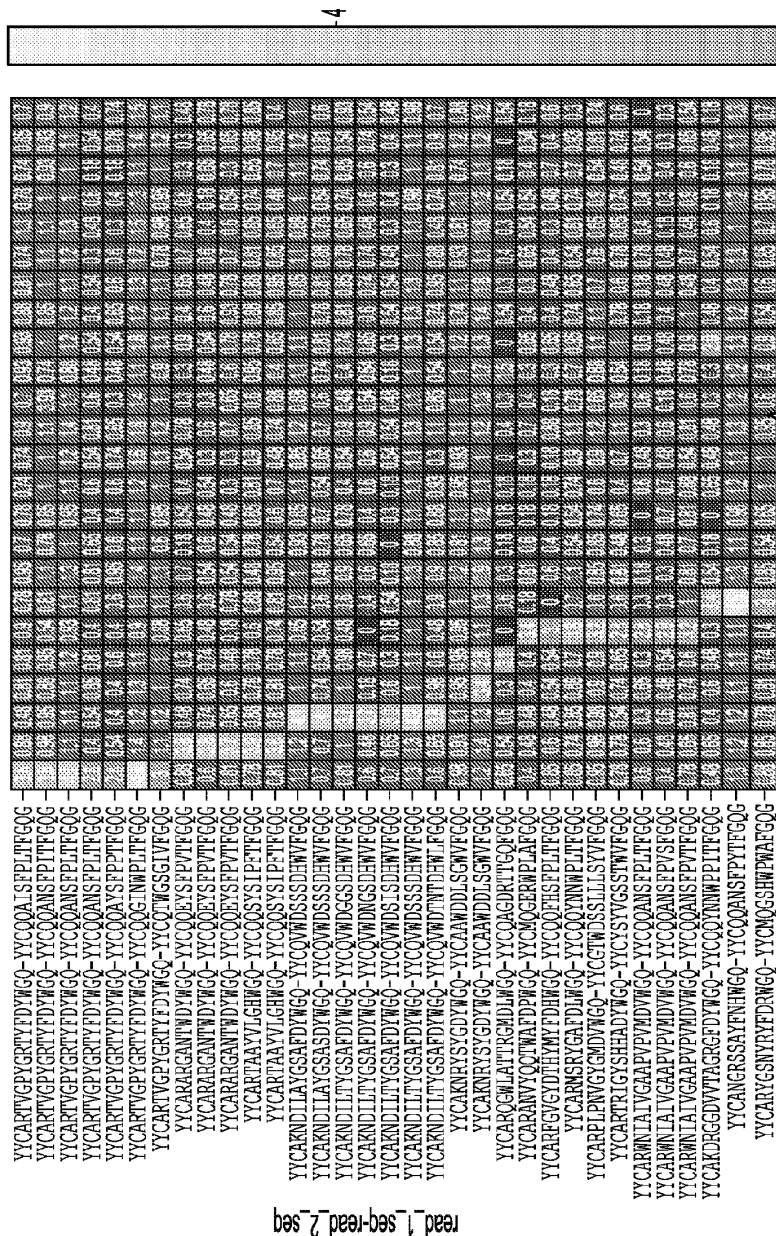
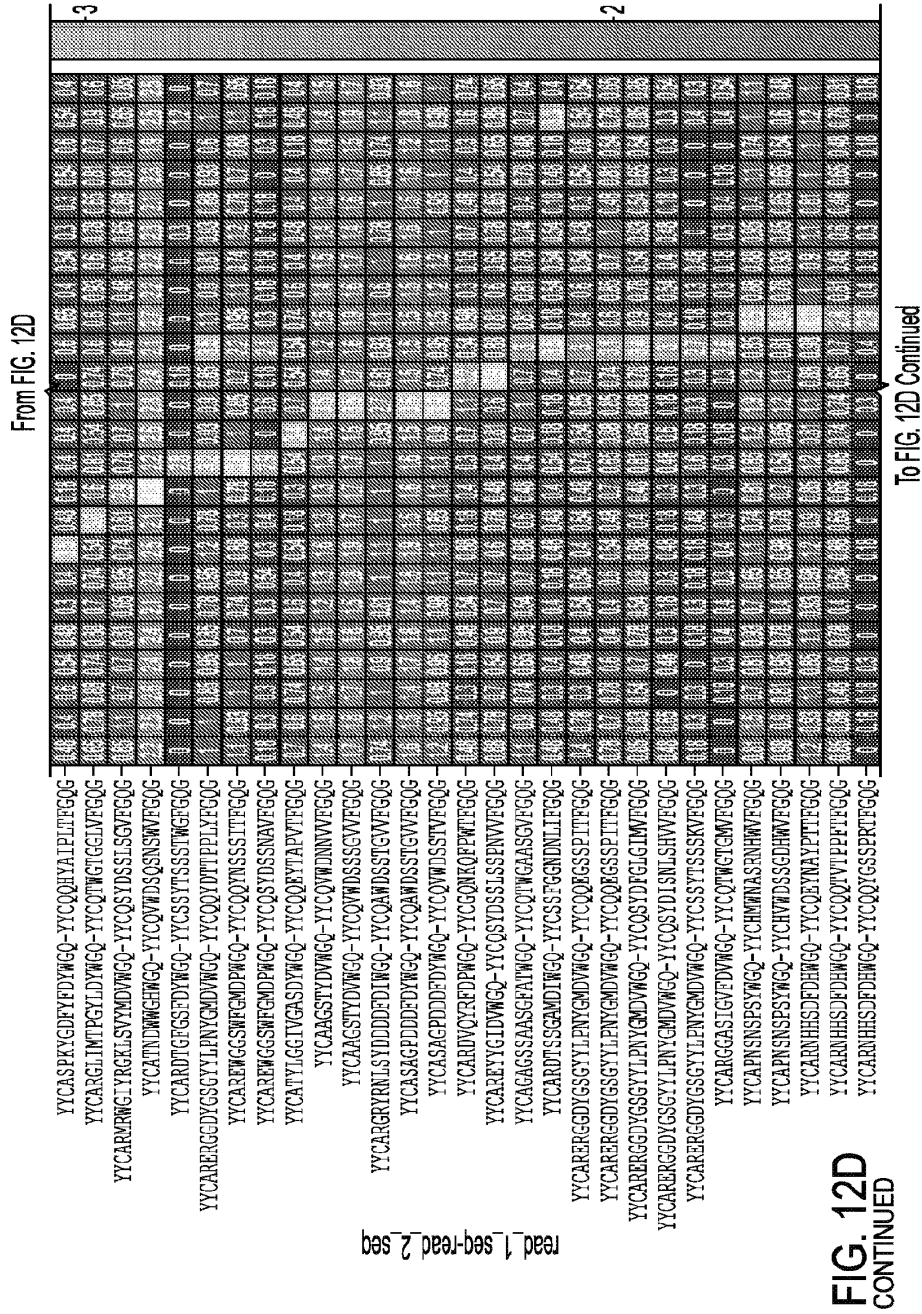


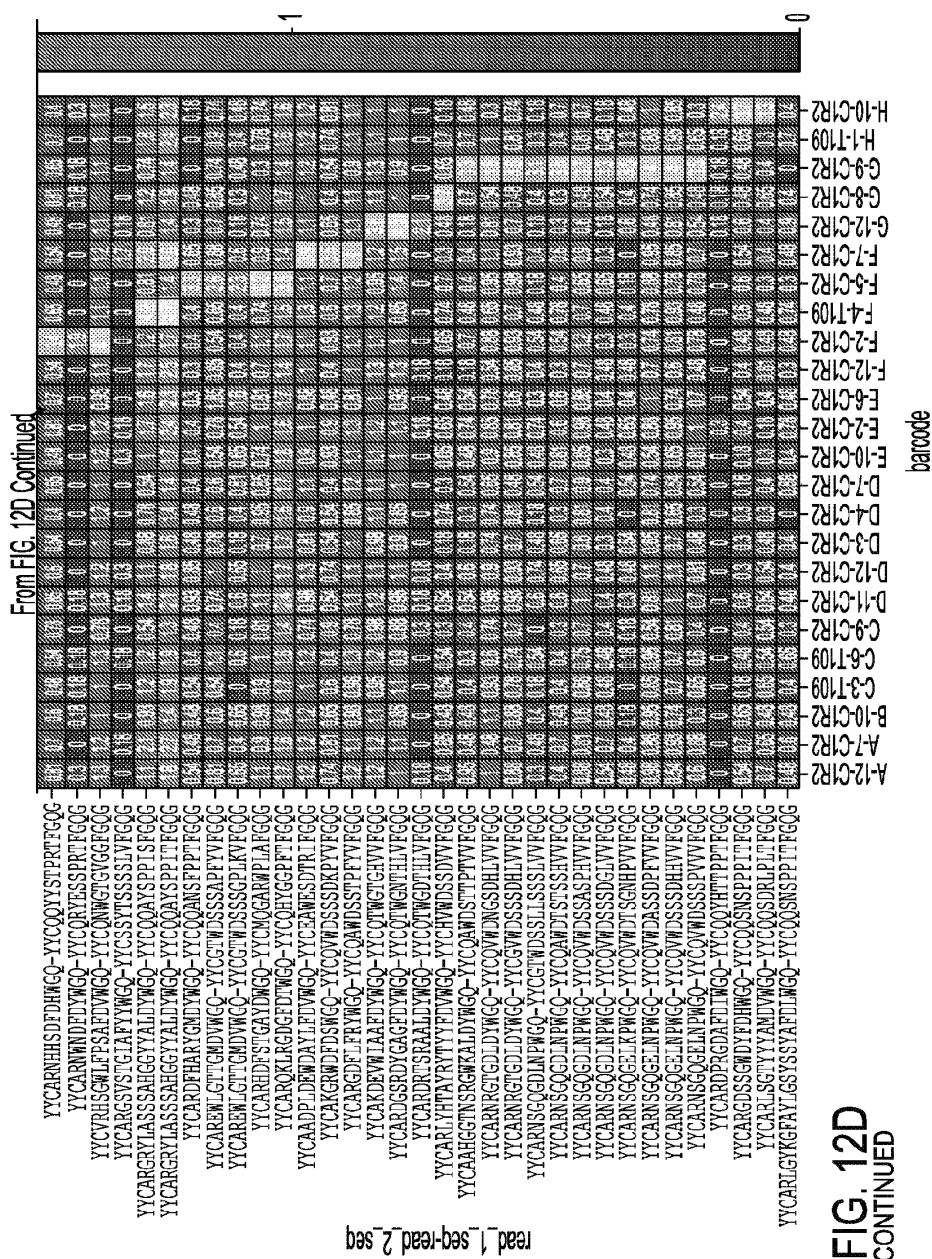
FIG. 12C



To FIG. 12D Continued

FIG. 12D





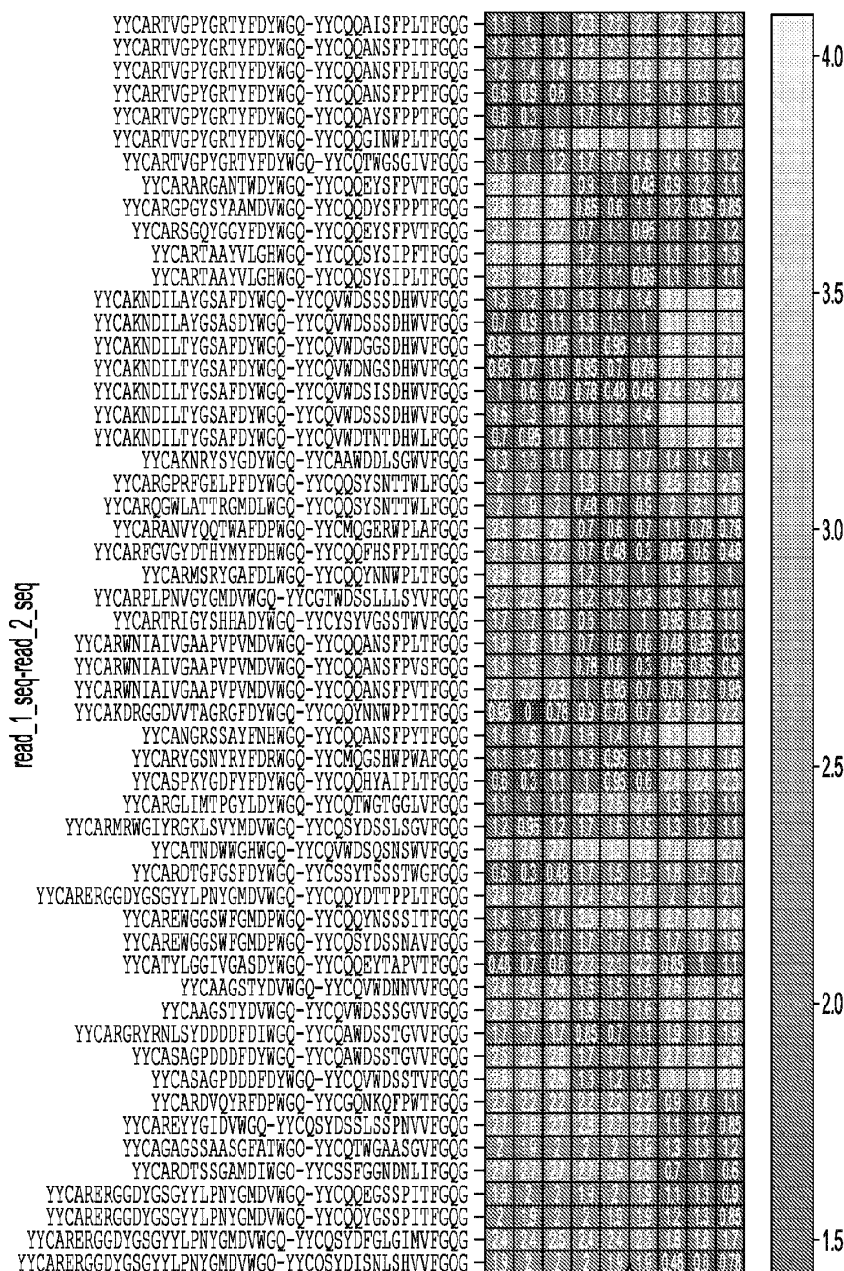


FIG. 12E To FIG. 12E Continued

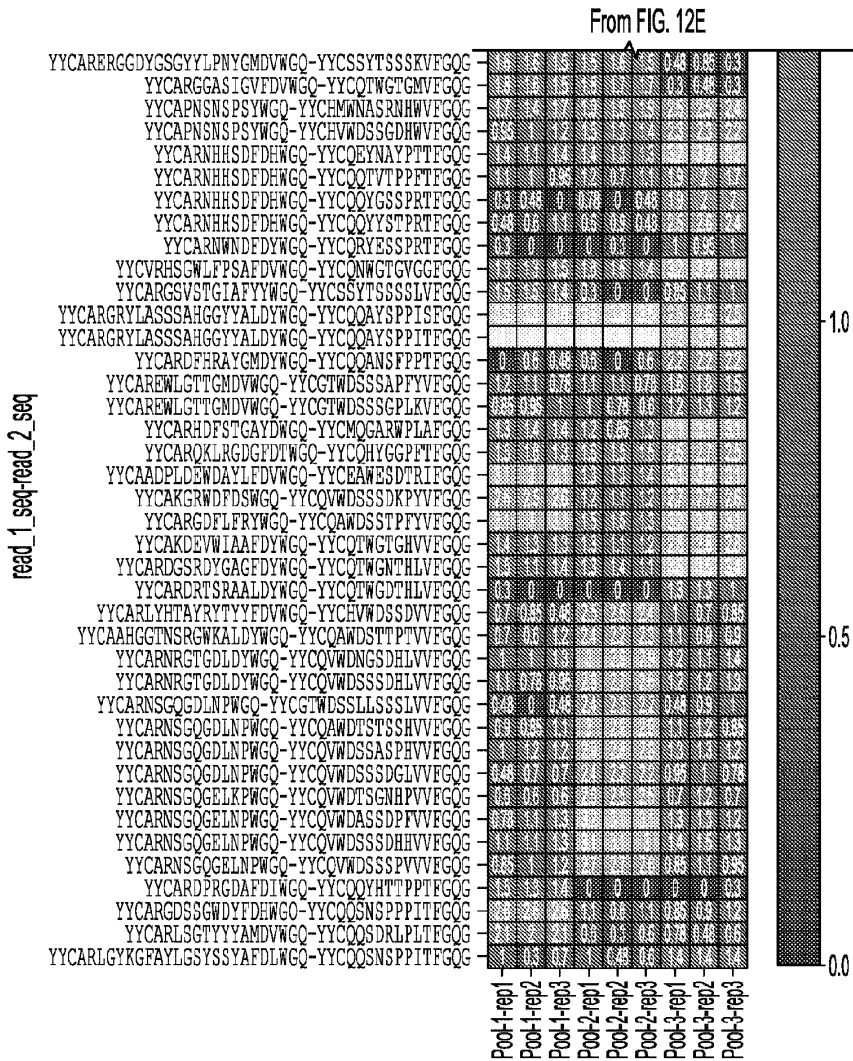


FIG. 12E
CONTINUED

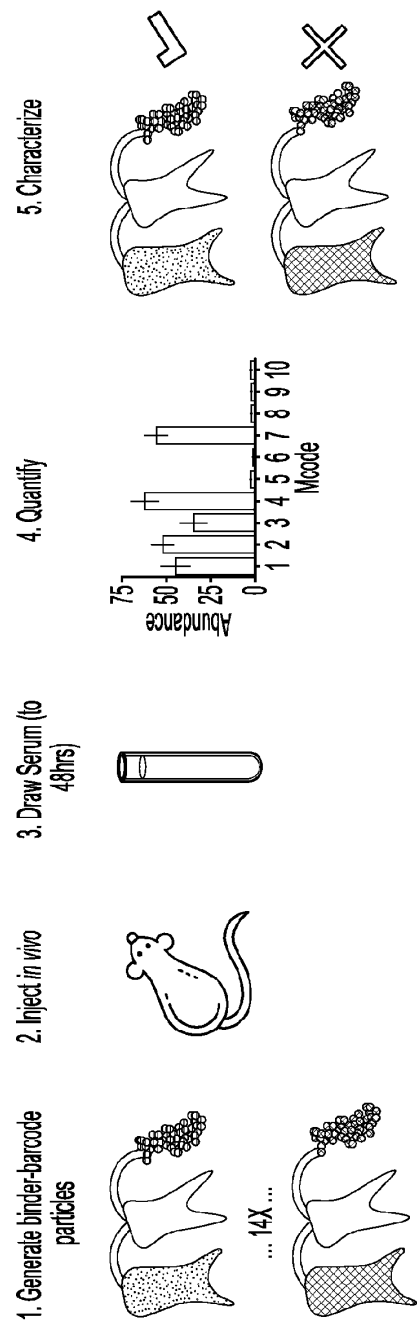


FIG. 13A

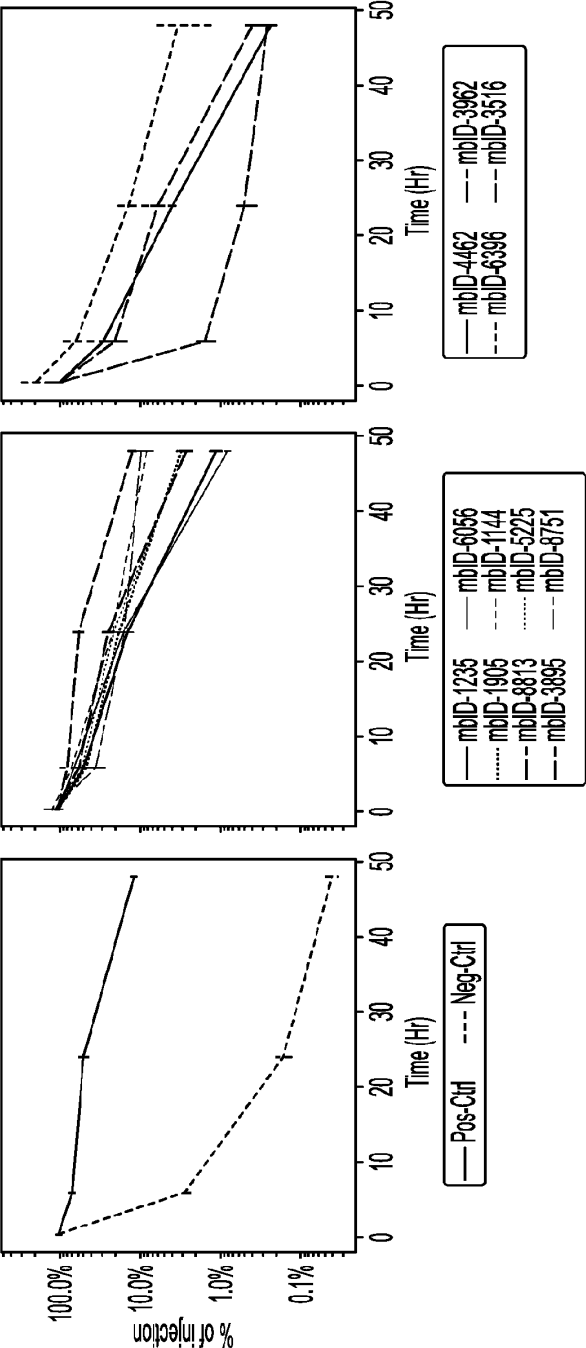


FIG. 13B

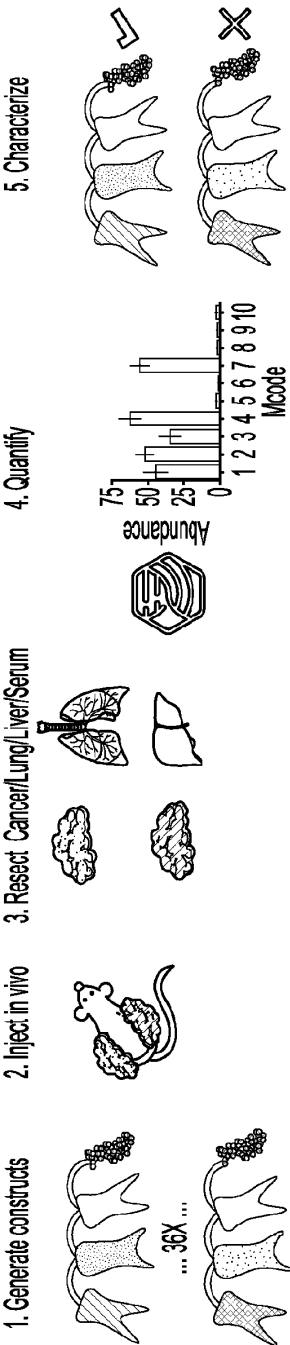


FIG. 14A

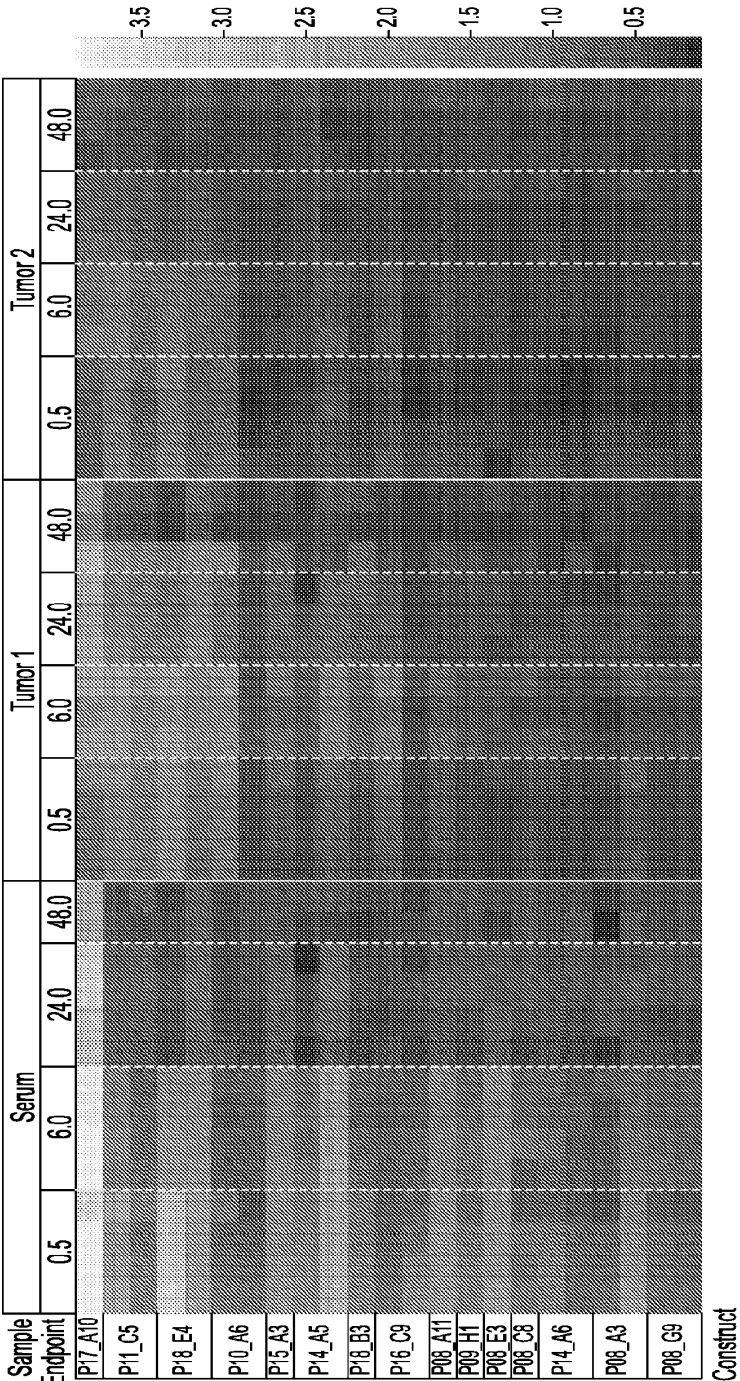


FIG. 14B

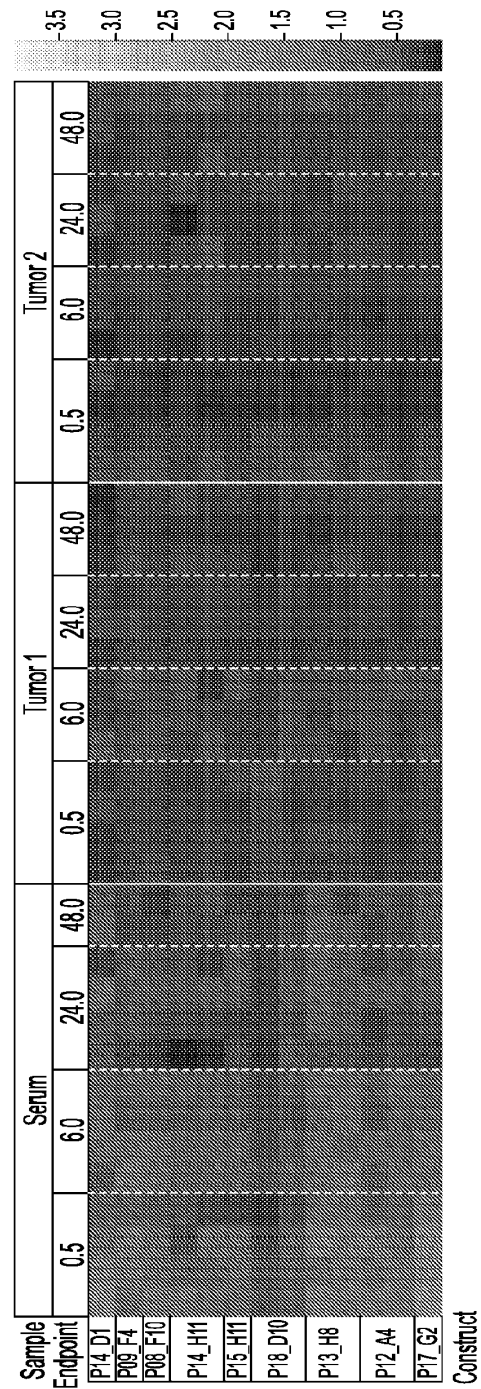


FIG. 14B
CONTINUED

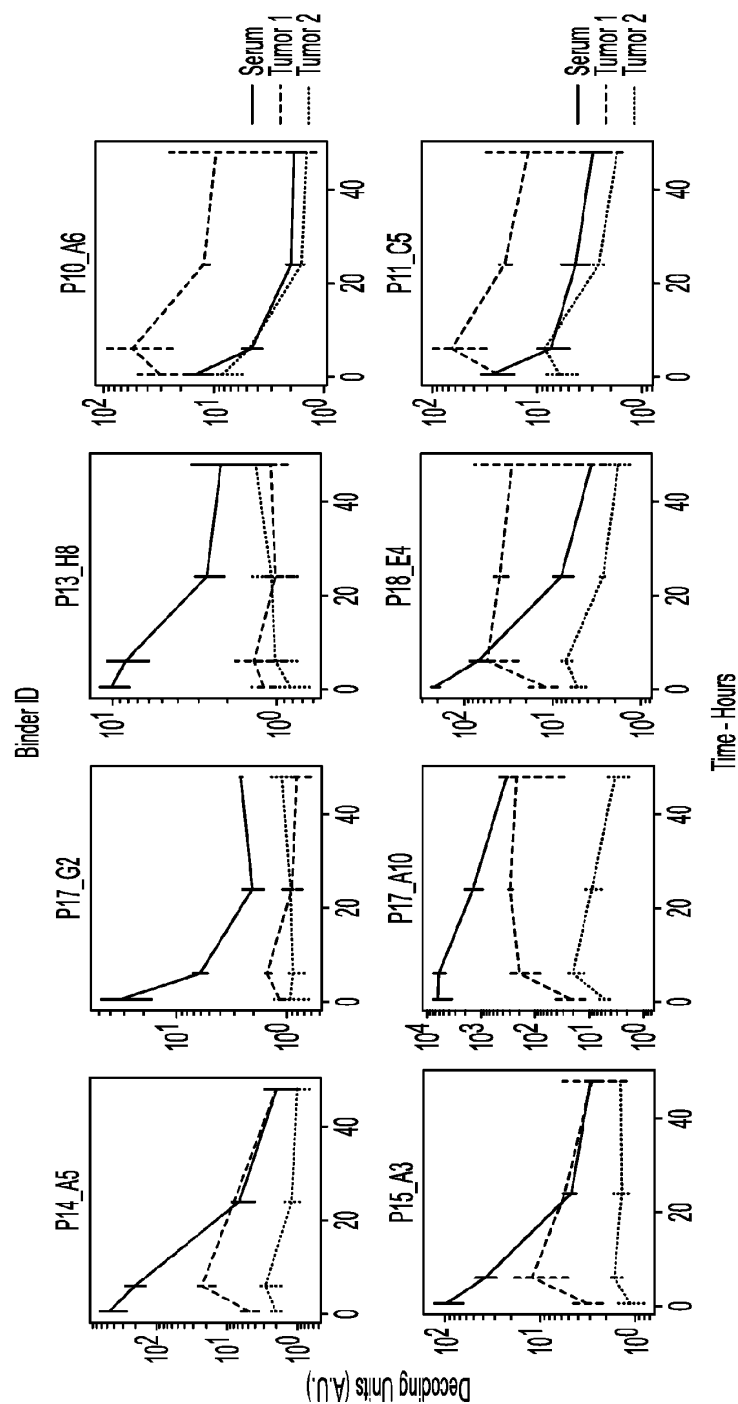


FIG. 14C

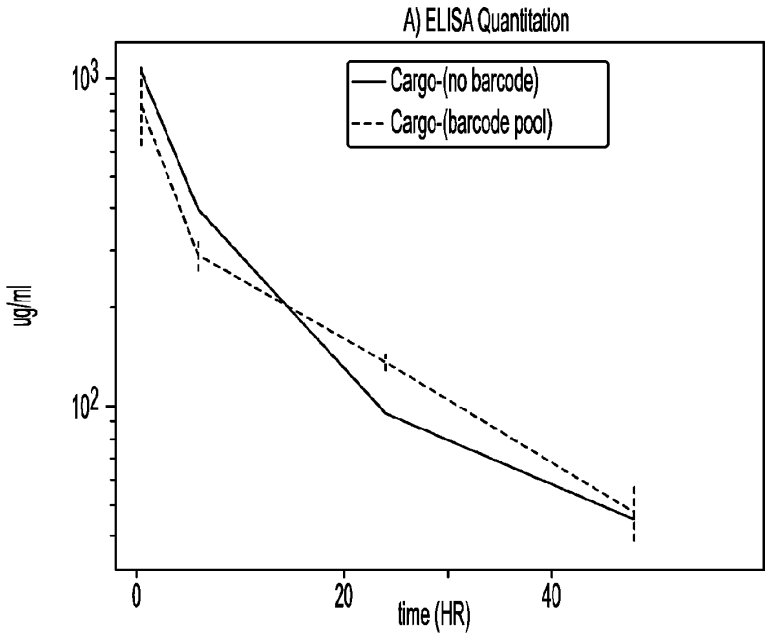


FIG. 15A

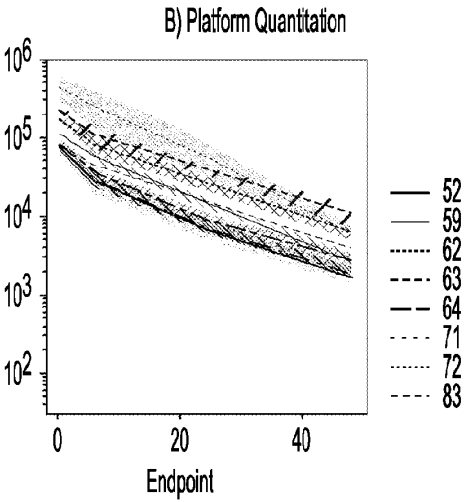


FIG. 15B

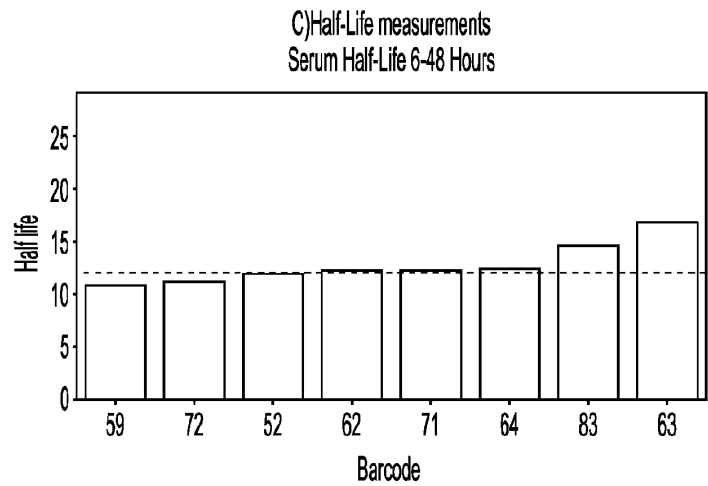
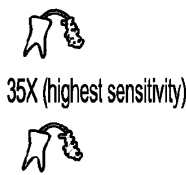
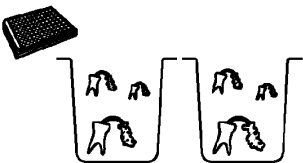


FIG. 15C

1. Produce {constant scaffold}-barcode



2. Array in mixtures



3. Quantify

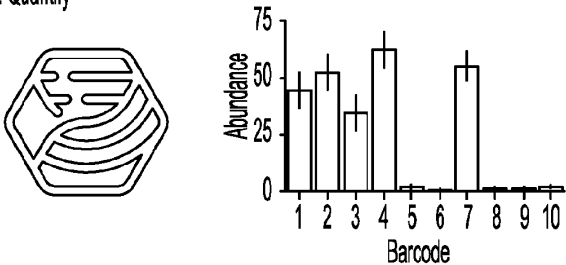


FIG. 16A

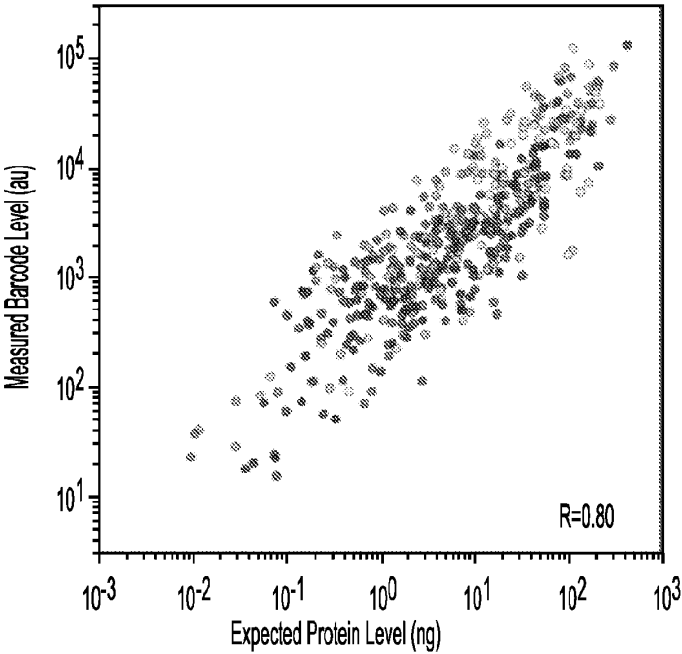


FIG. 16B

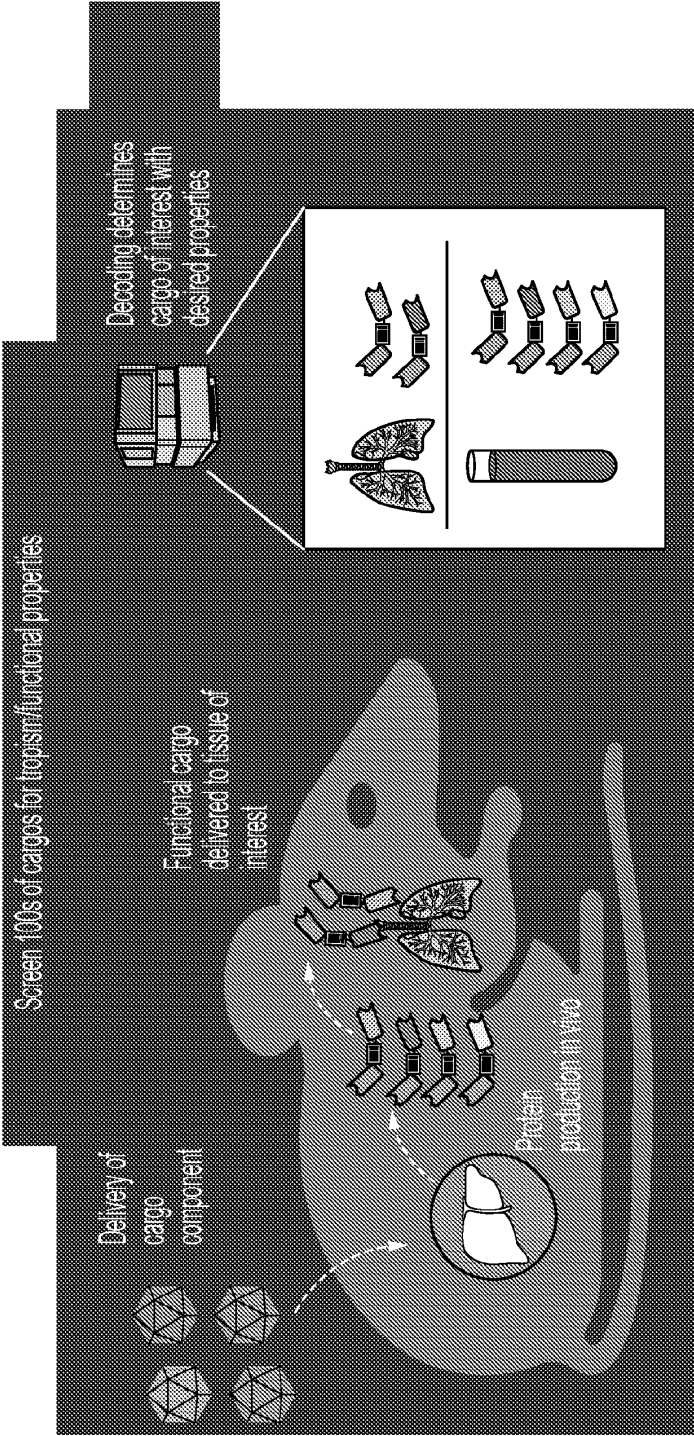


FIG. 17

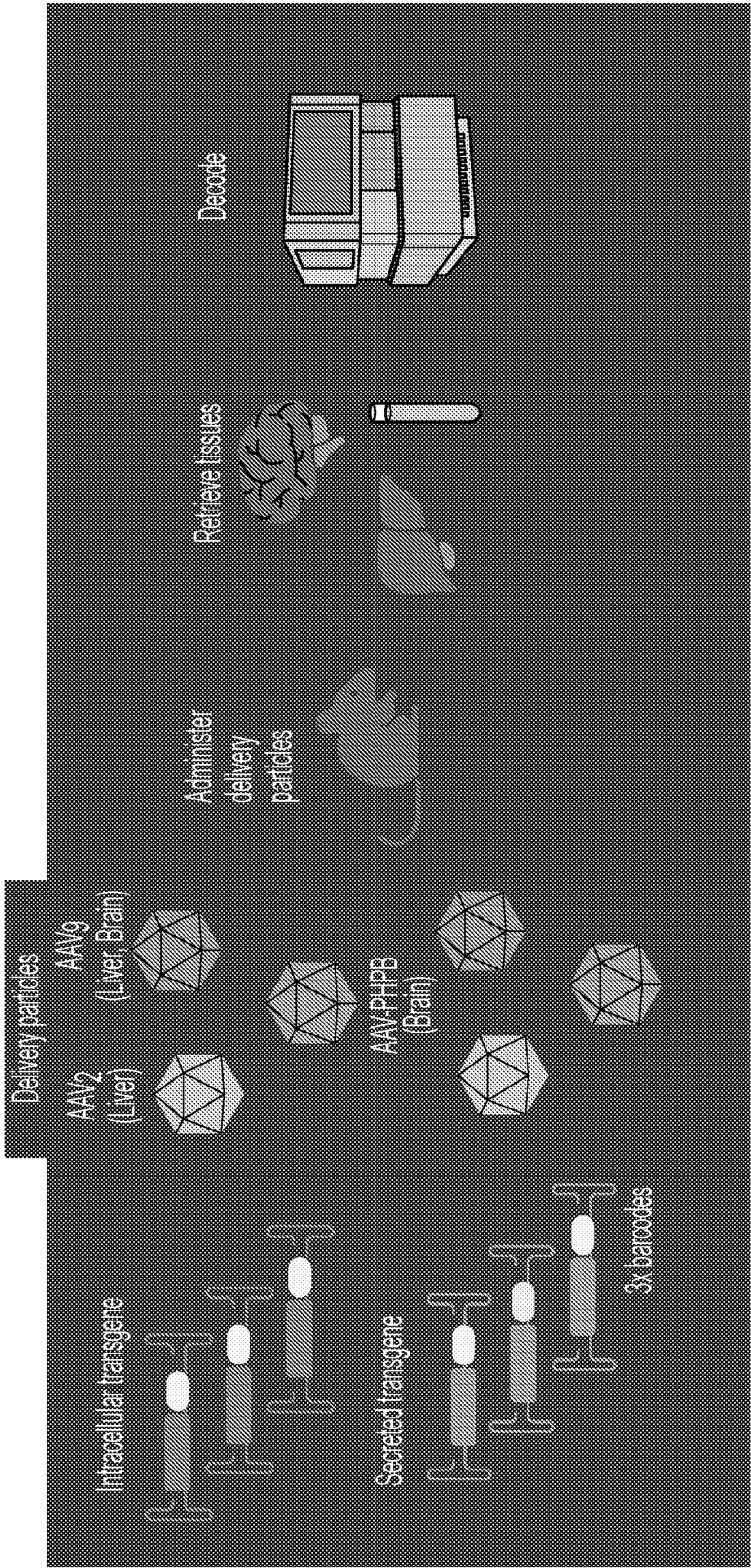


FIG. 18

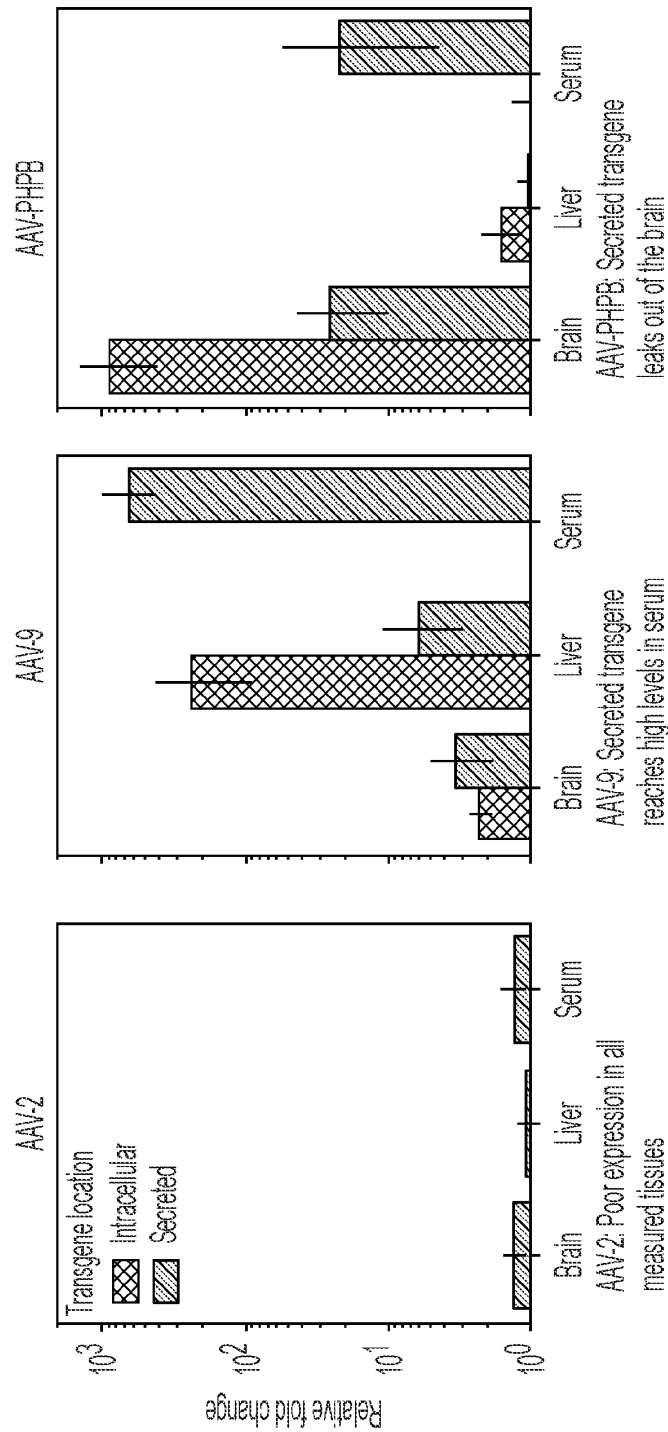


FIG. 19C

FIG. 19B

FIG. 19A

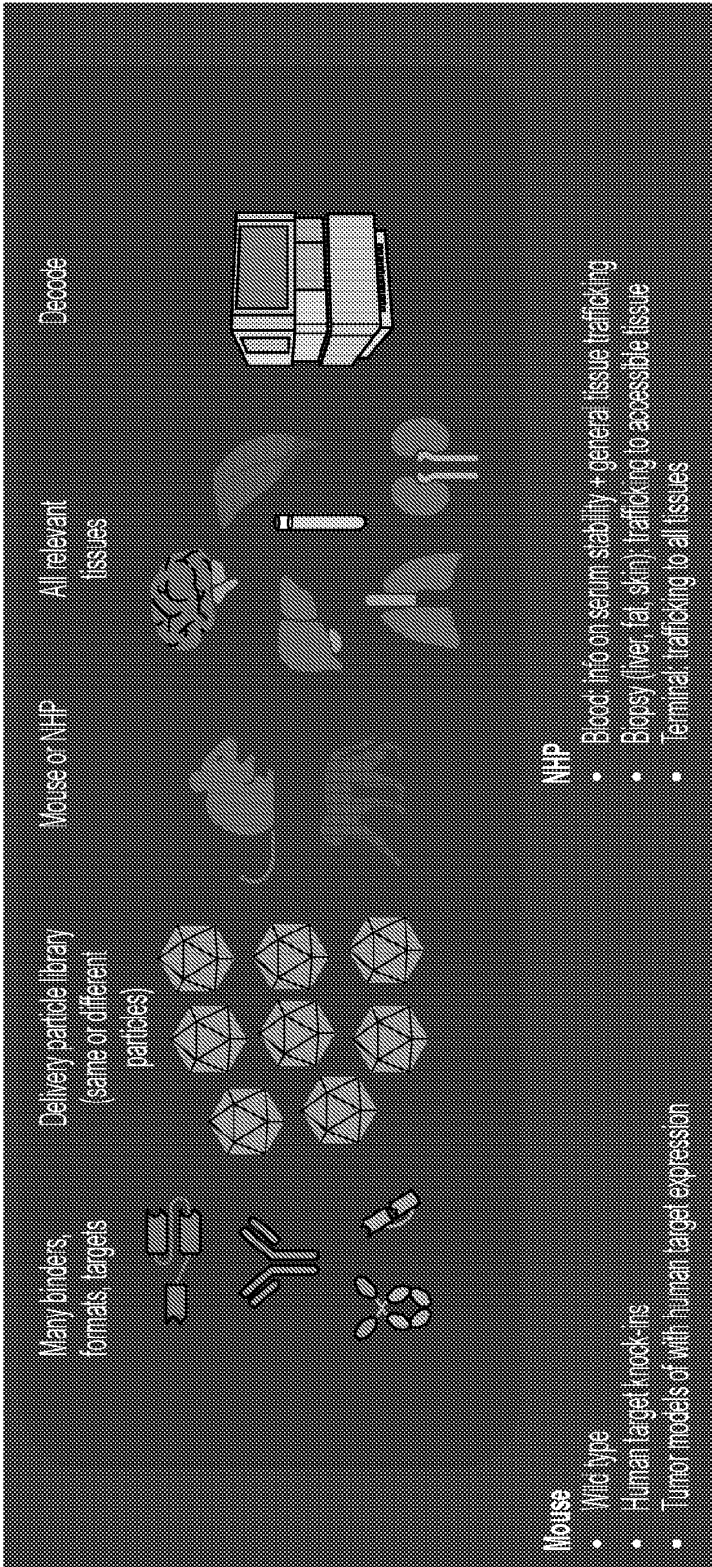


FIG. 20

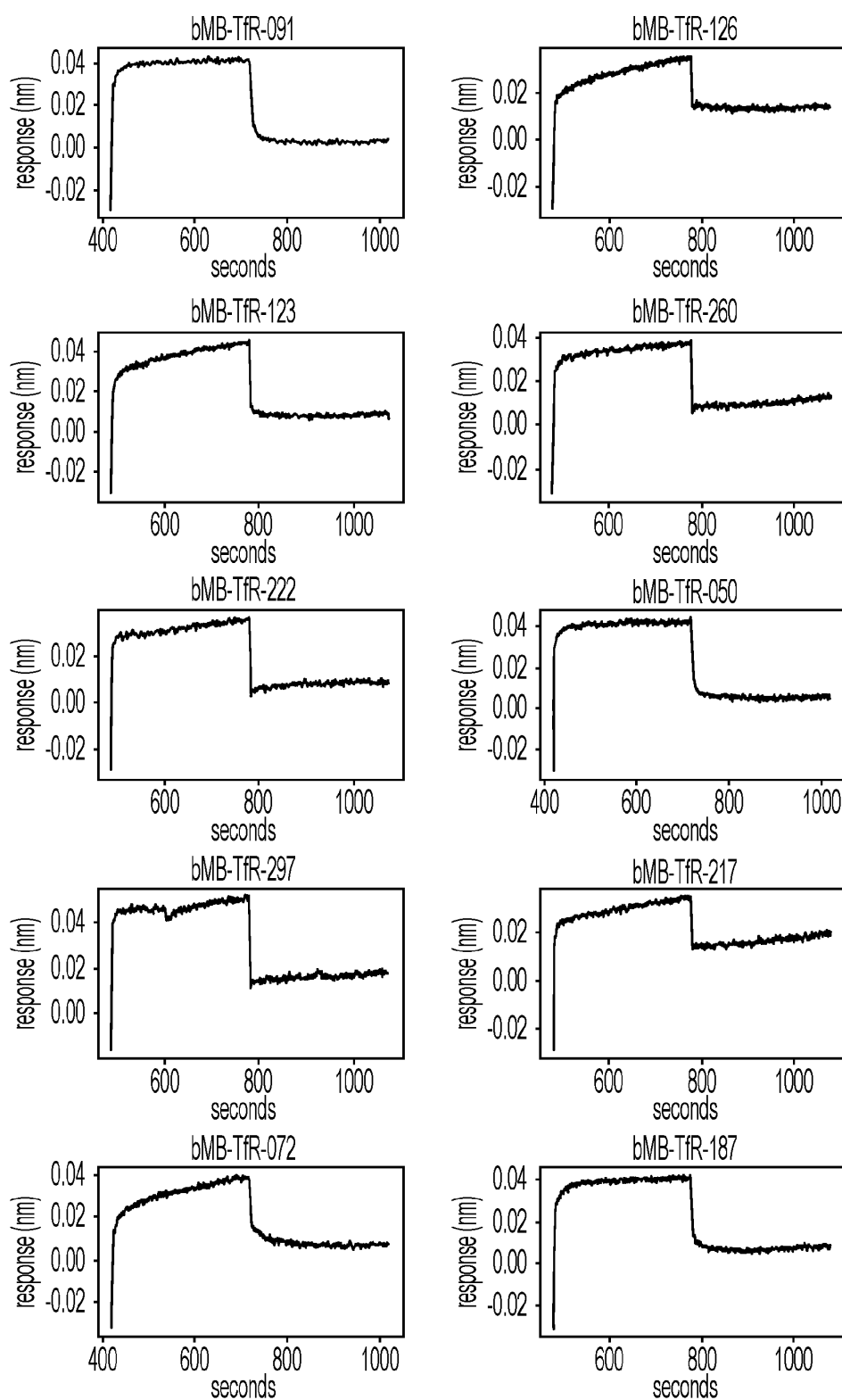


FIG. 21

SUBSTITUTE SHEET (RULE 26)

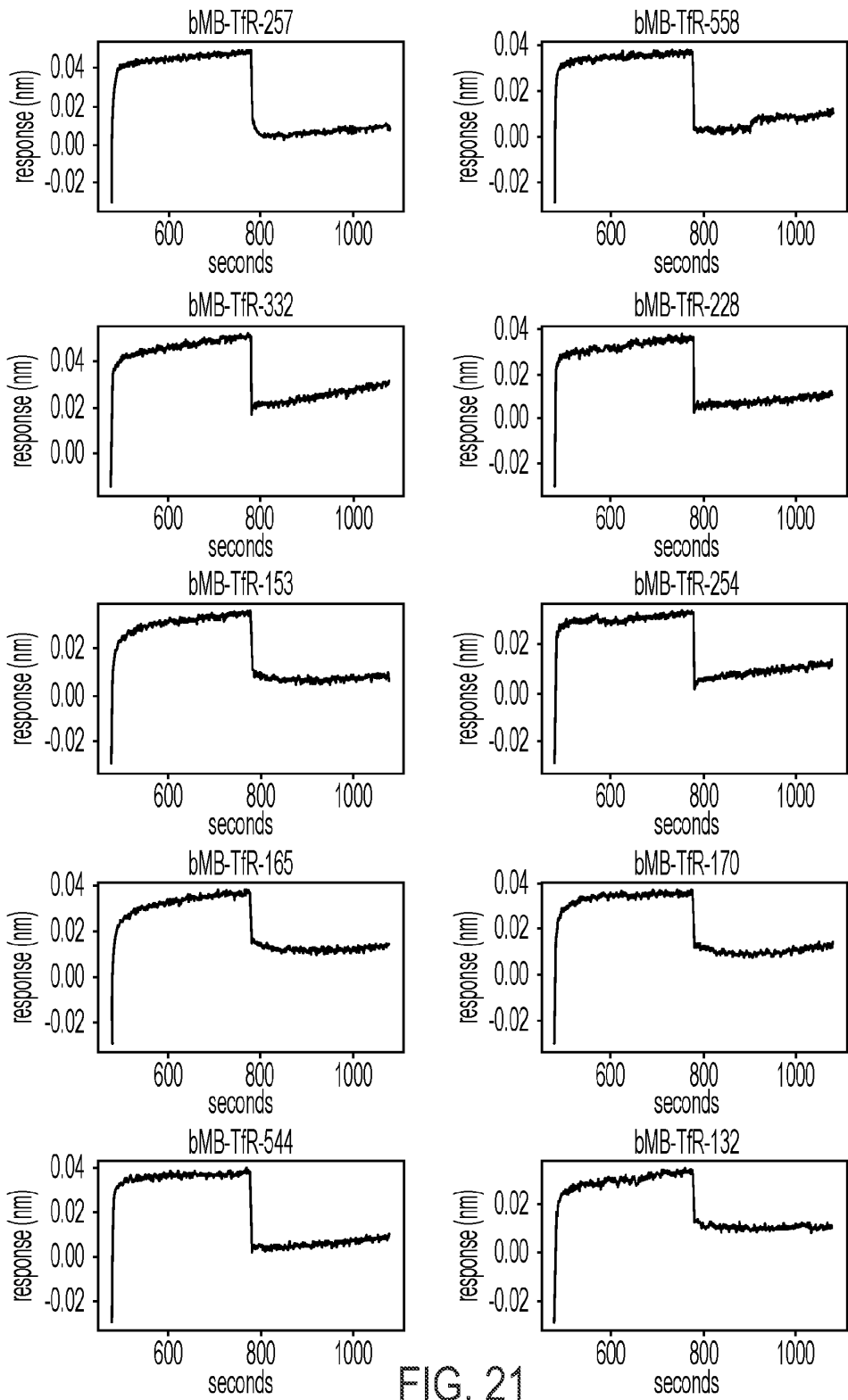


FIG. 21
CONTINUED

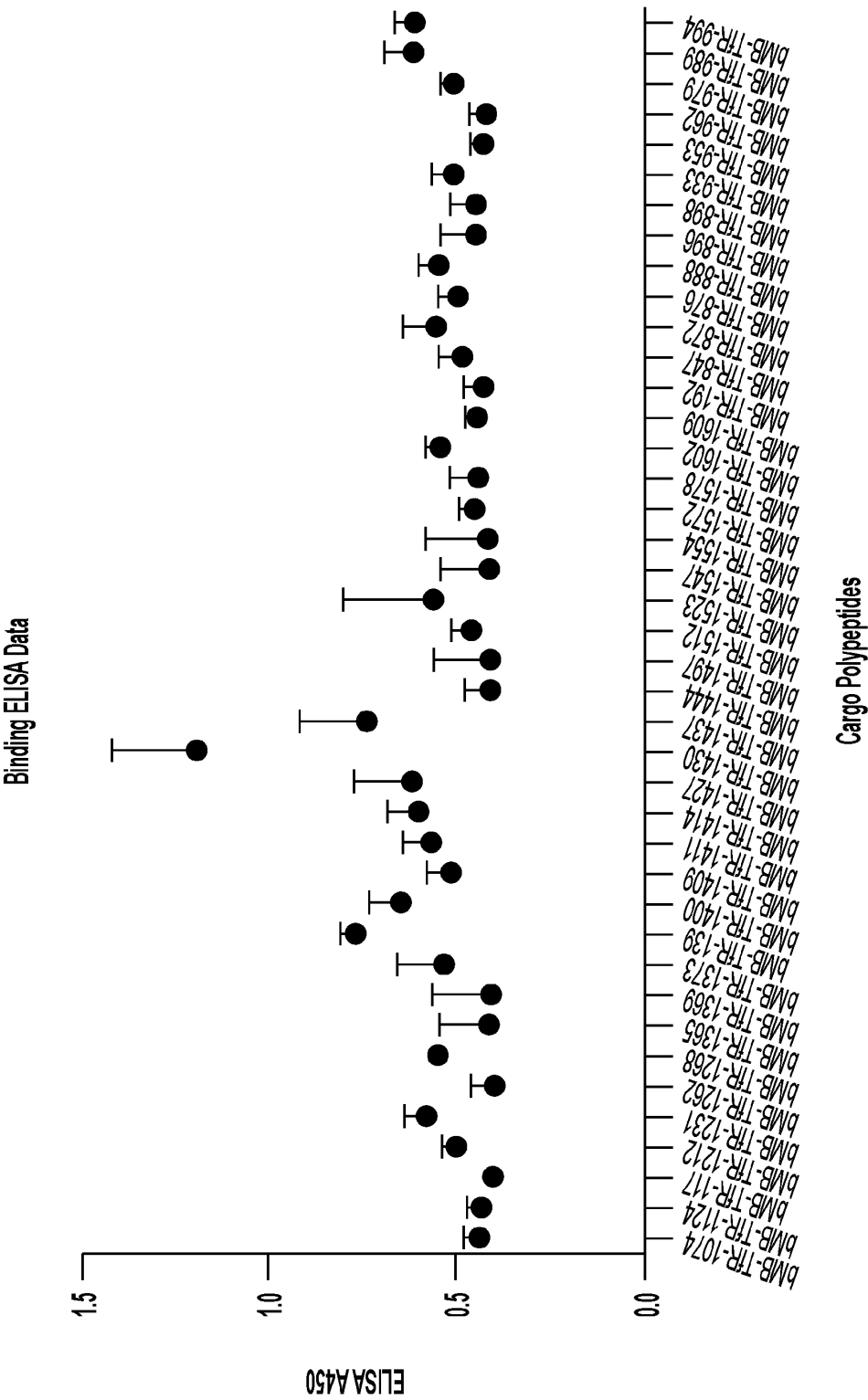


FIG. 22

○ Antibody Property Refinement with Protein Language Models (Affinity Maturation)

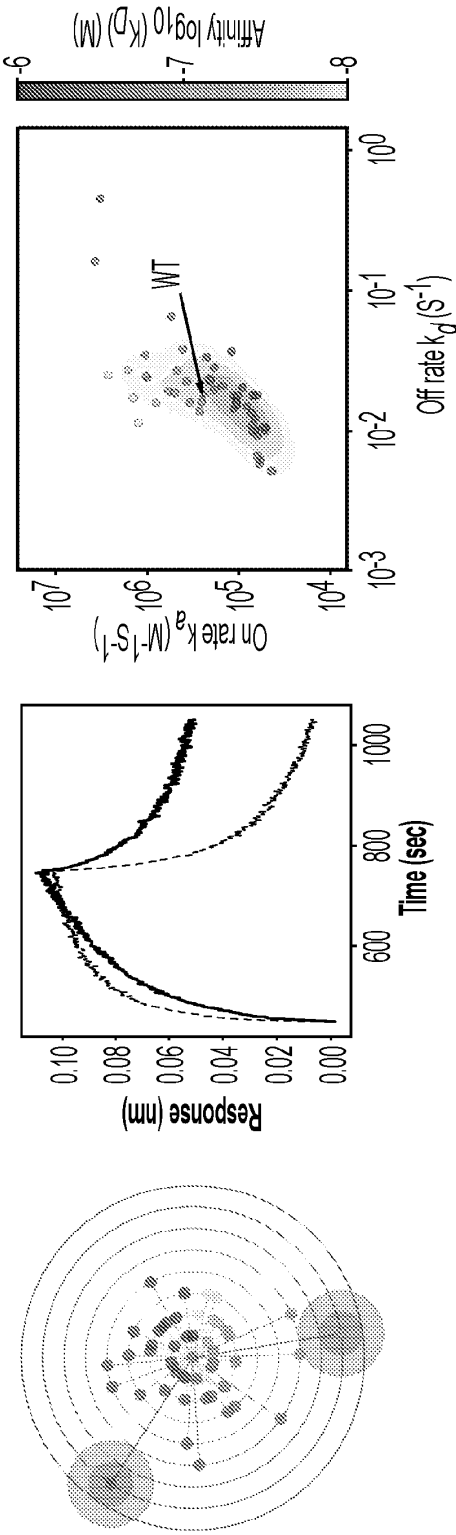
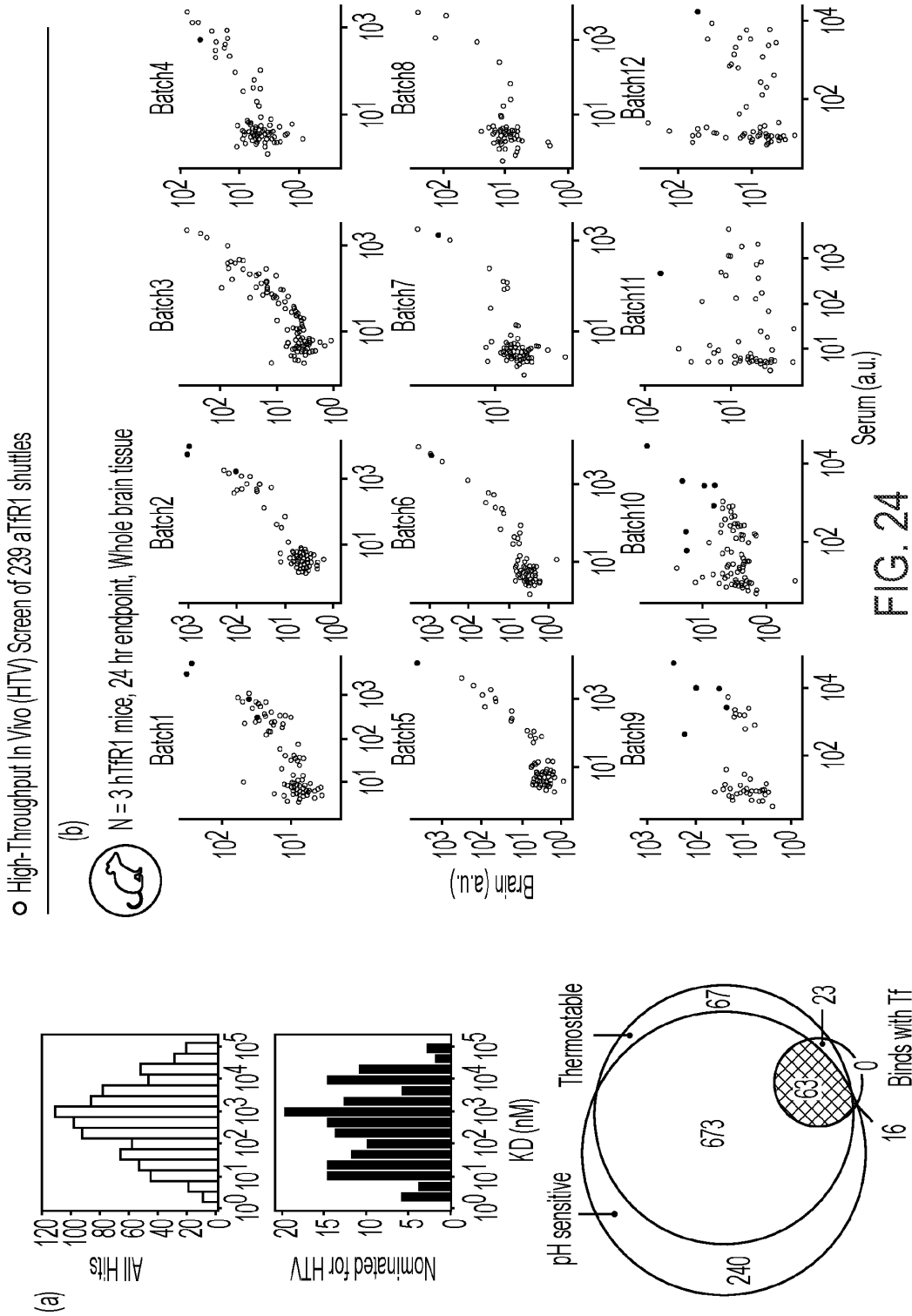


FIG. 23



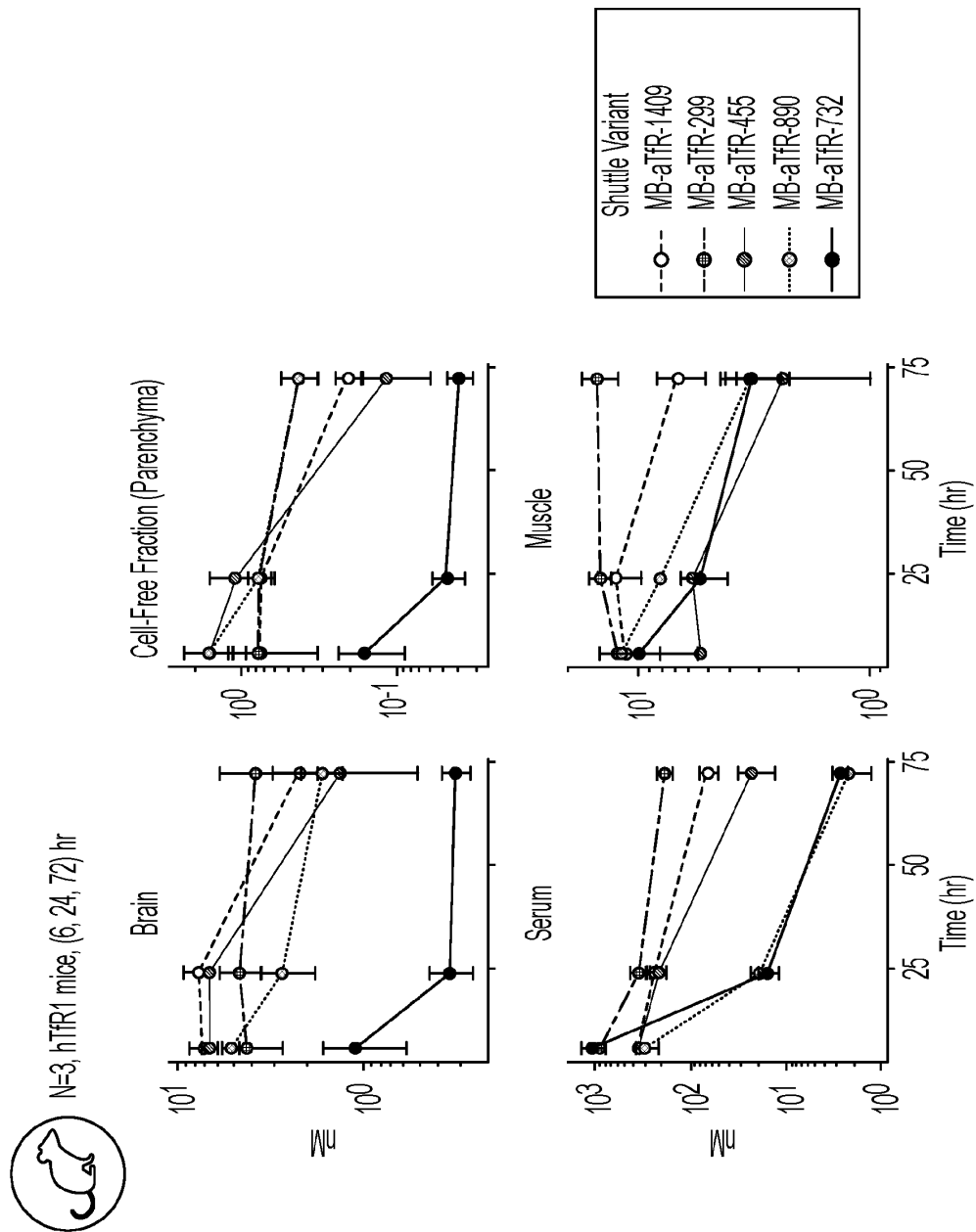


FIG. 25