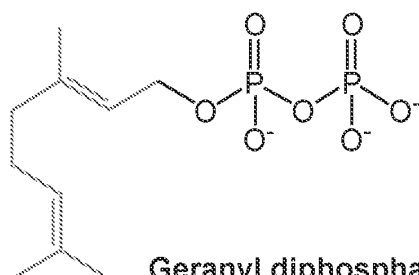


Olivetolic acid (OA)

FIG. 1A



Geranyl diphosphate (GPP)

FIG. 1B

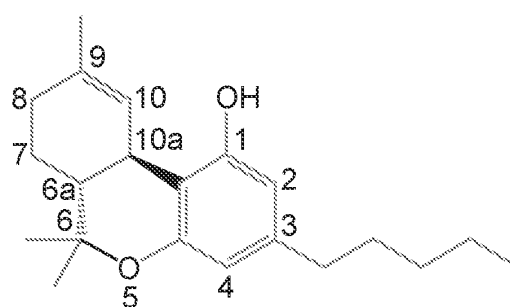
 Δ^9 -tetrahydrocannabinol (Δ^9 -THC)

FIG. 1C



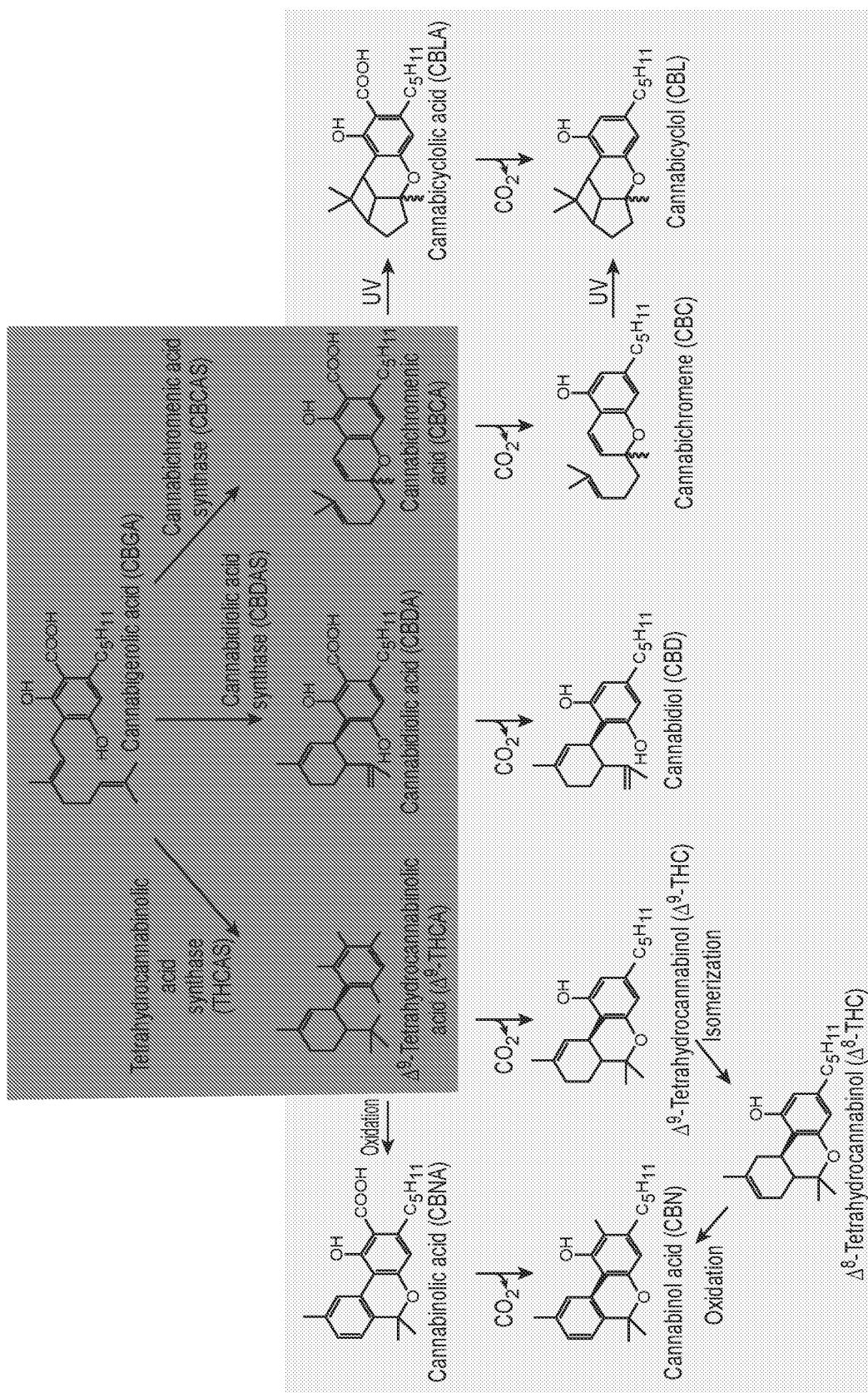


FIG. 3

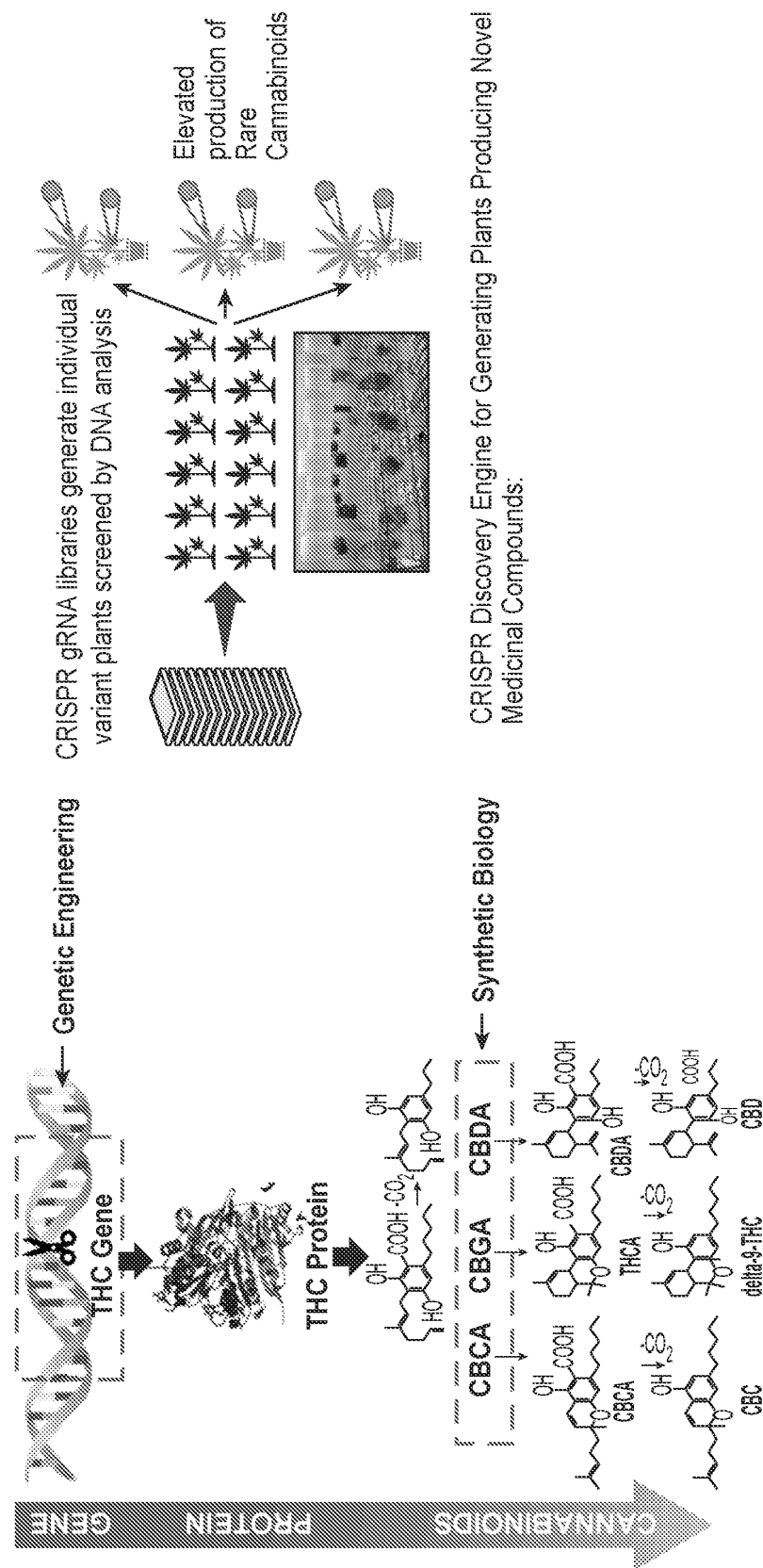


FIG. 4

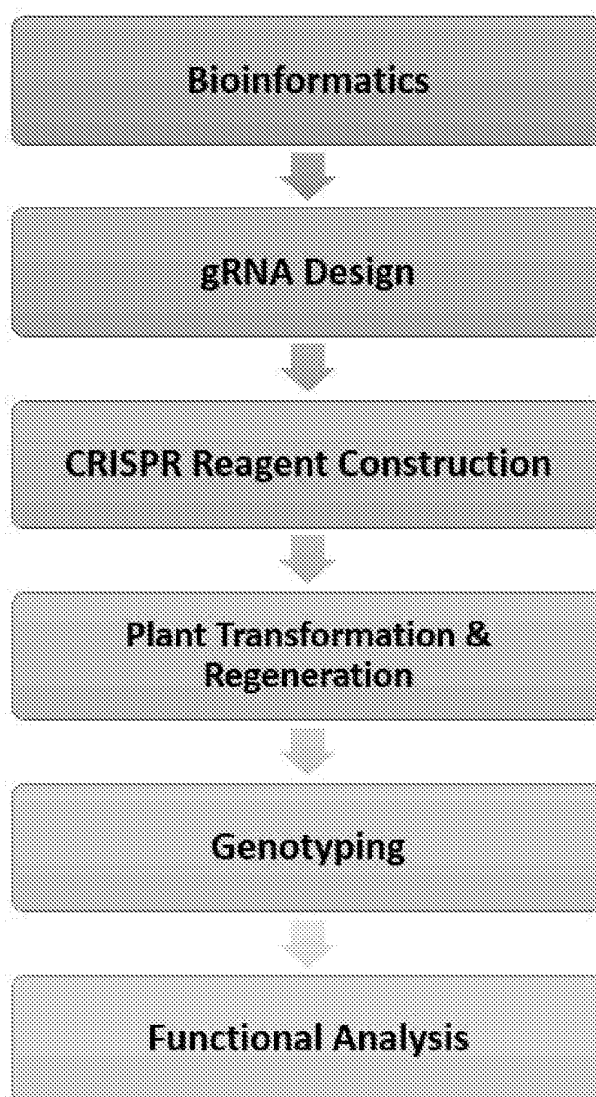


FIG. 5

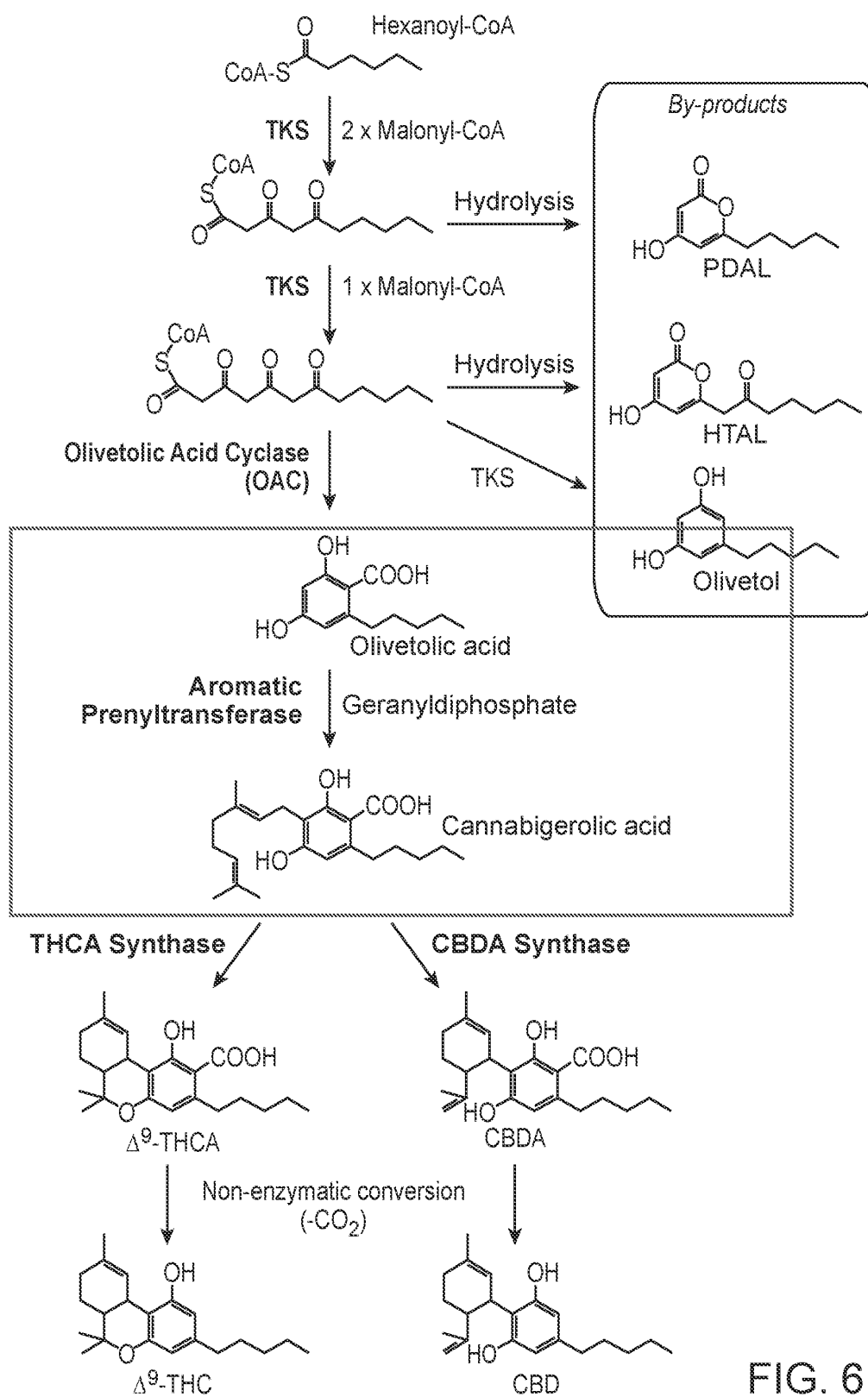
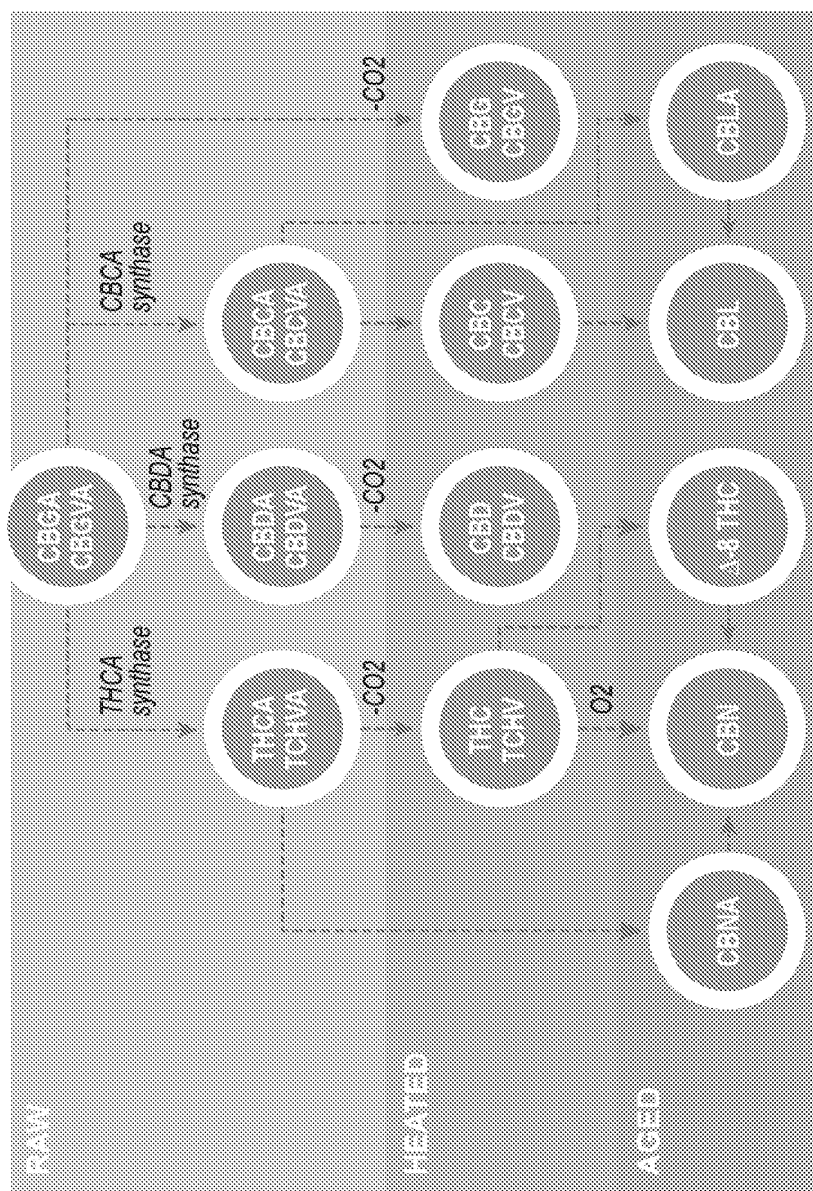
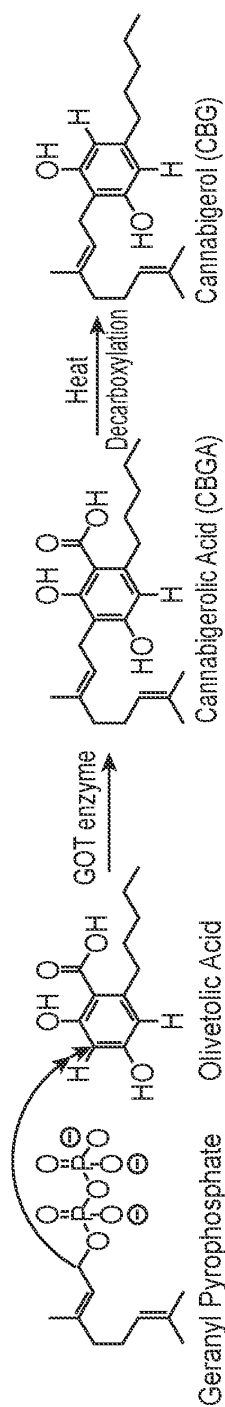


FIG. 6



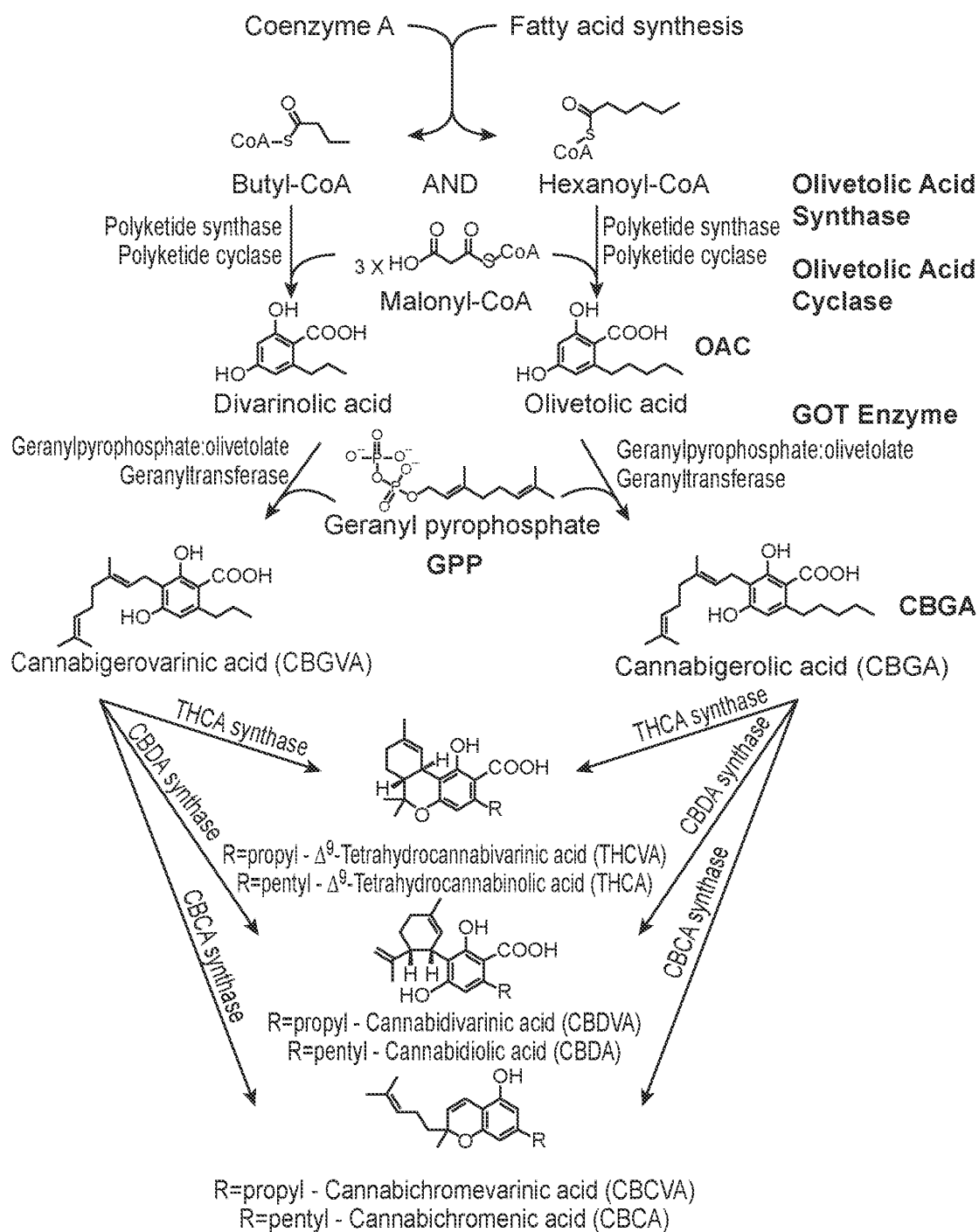


FIG. 8

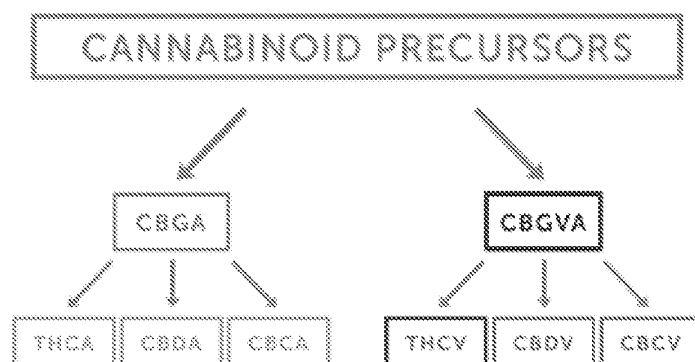


FIG. 9A

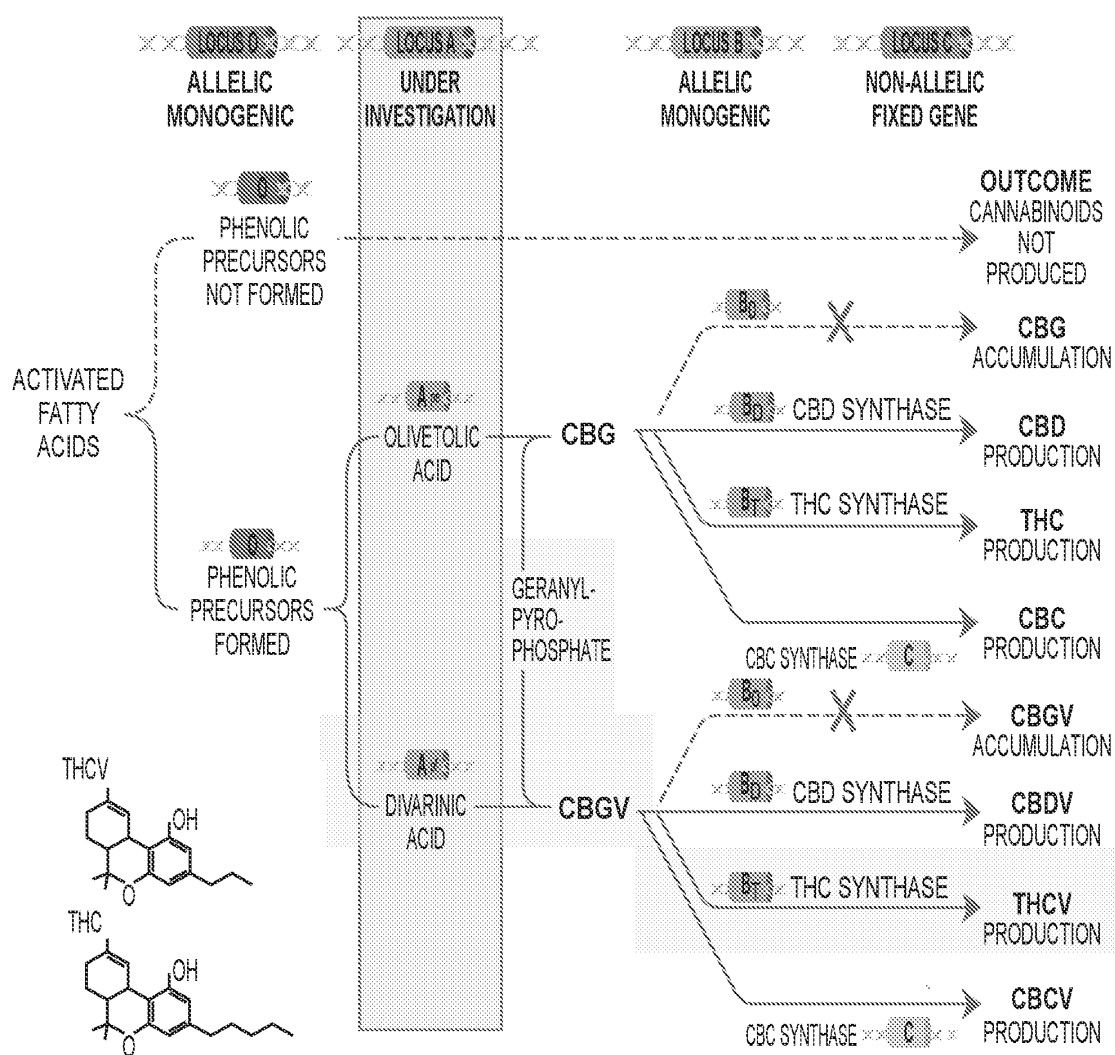


FIG. 9B

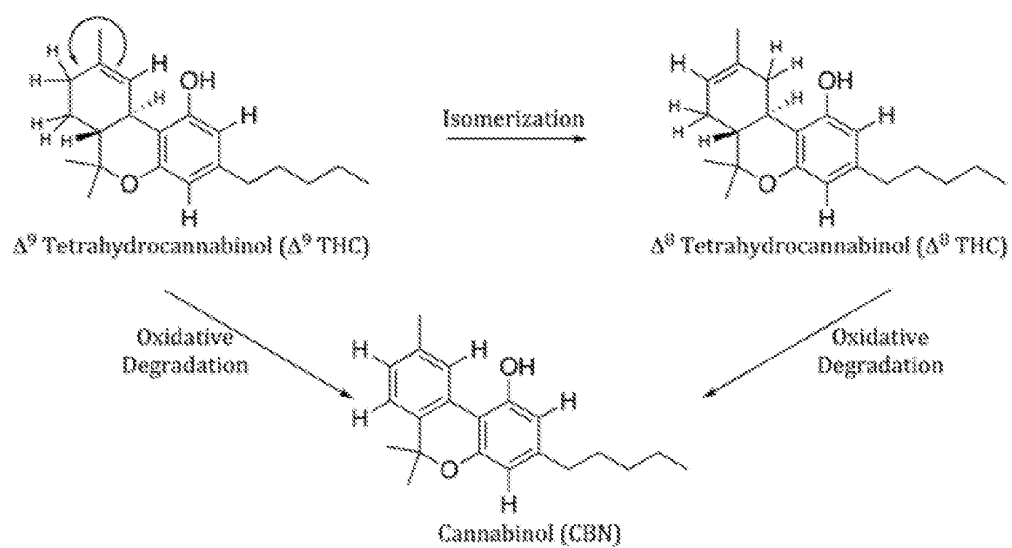


FIG. 10



FIG. 11A

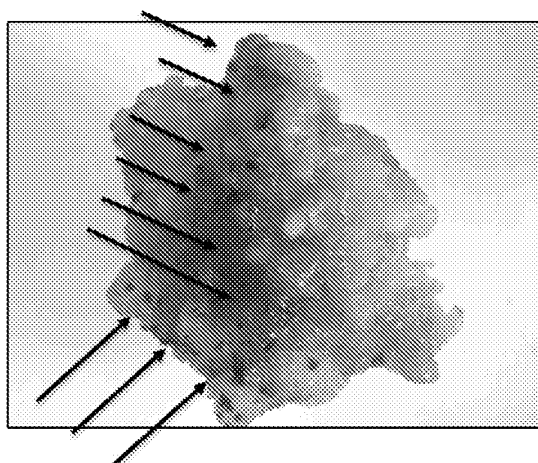


FIG. 11B

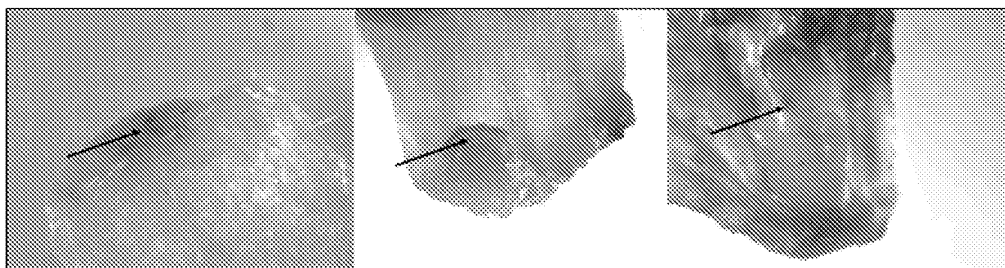


FIG. 12A

FIG. 12B

FIG. 12C

FIG. 13A

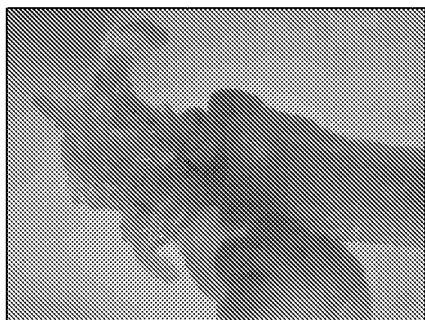


FIG. 13B

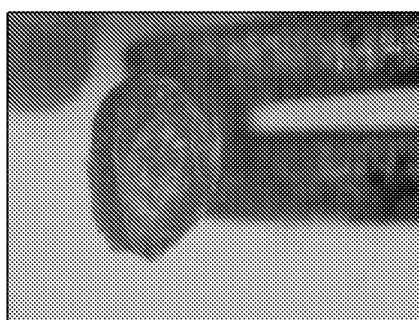


FIG. 13C

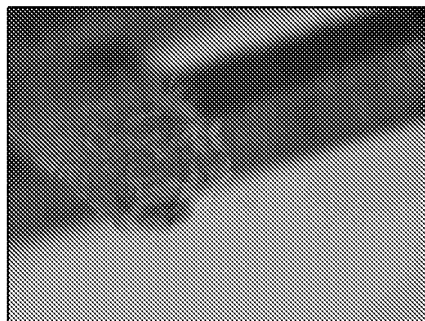


FIG. 13D

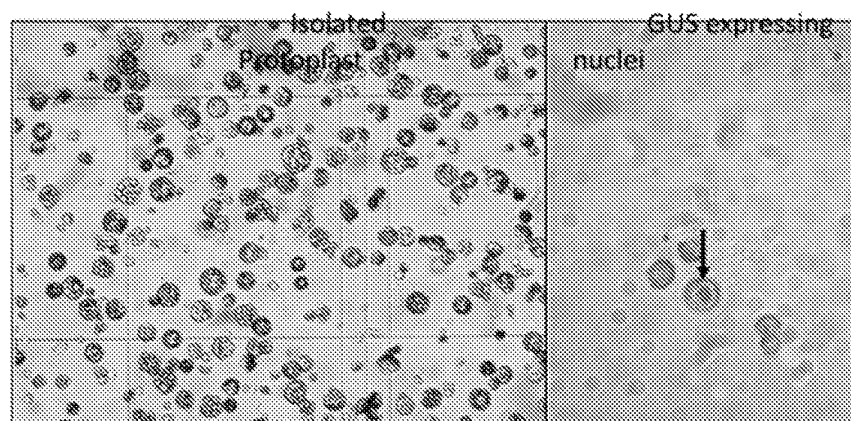


FIG. 14



FIG. 15

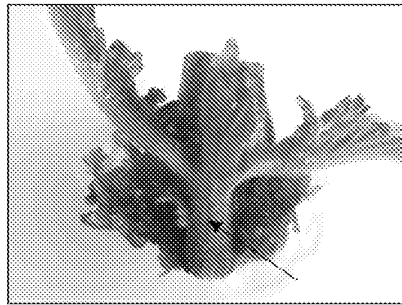


FIG. 16A

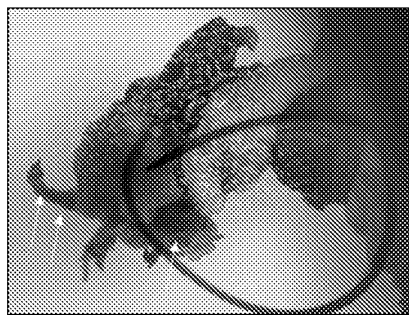


FIG. 16B

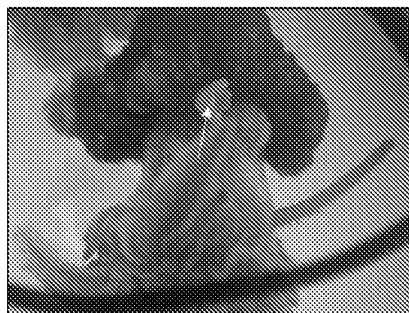


FIG. 16C



FIG. 17

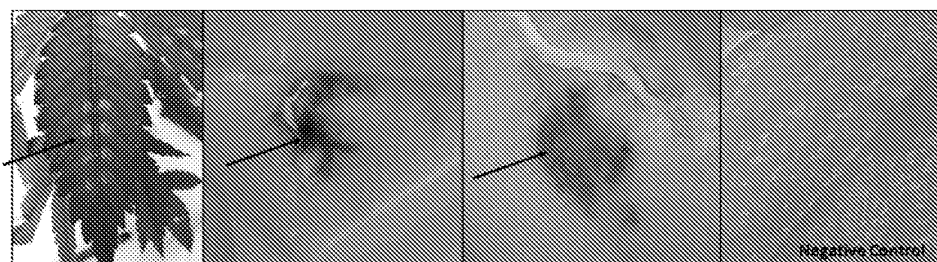


FIG. 18

Base vector for CRISPR Expression vector for Cas9 and gRNAs

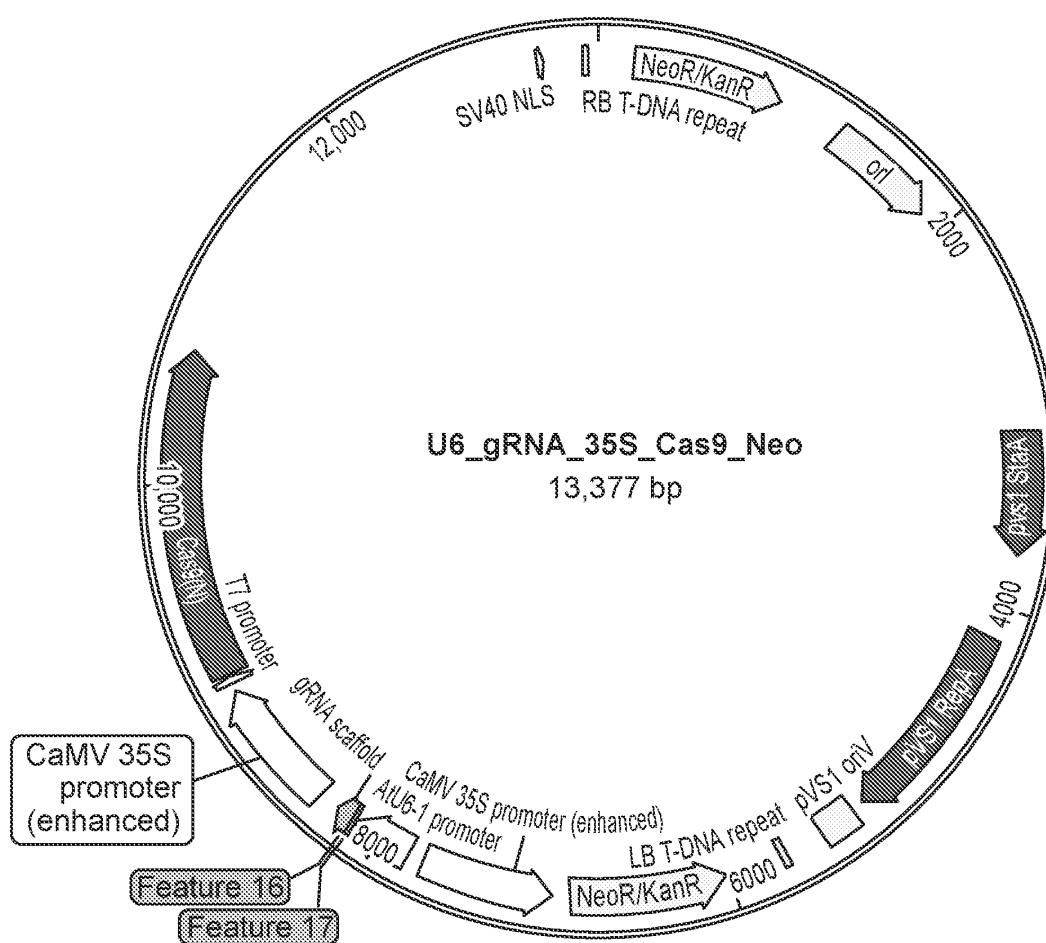


FIG. 19A

CRISPR Expression vector for Cas9 and 3 x THC gRNAs

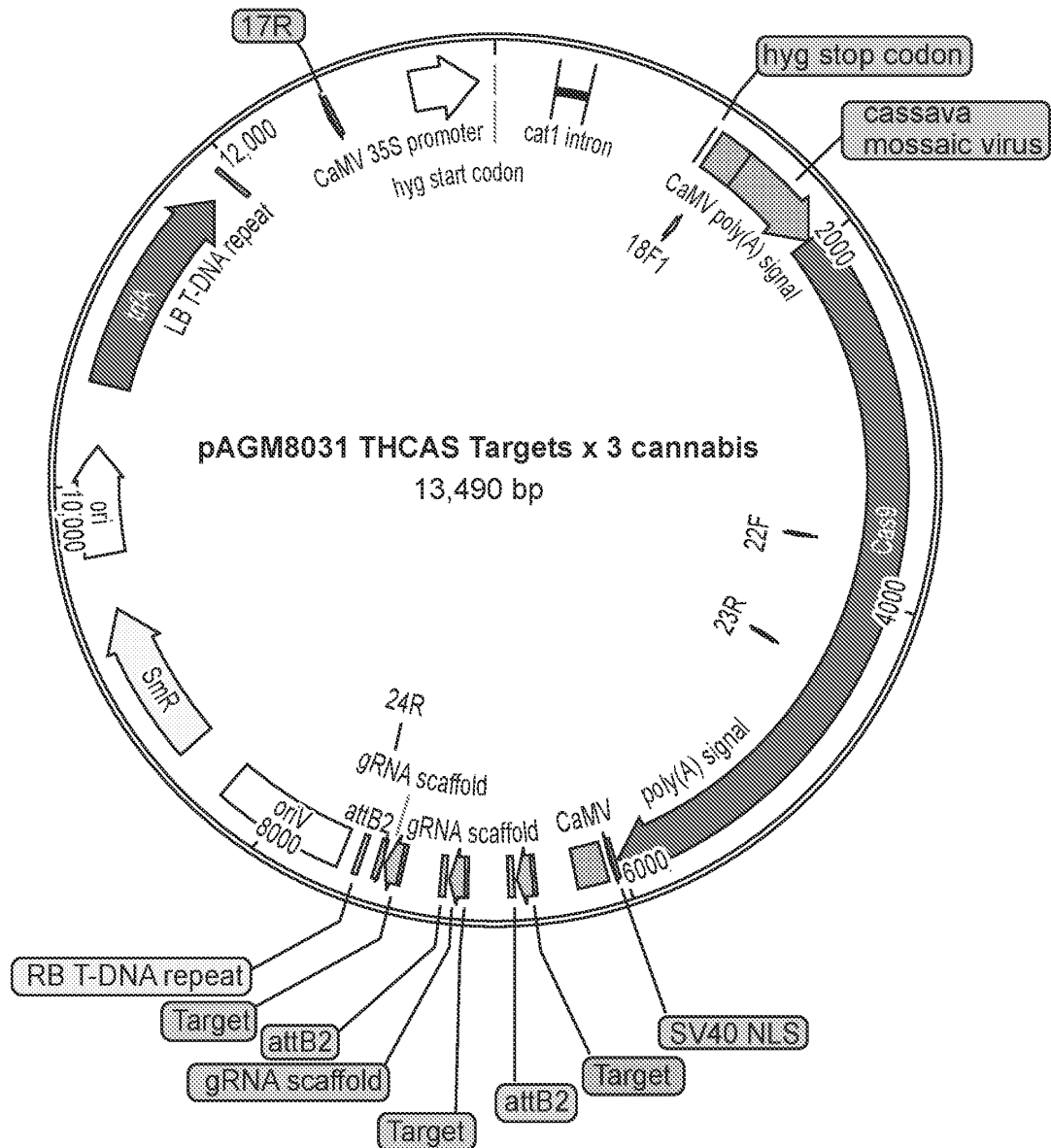


FIG. 19B

Vectors for Overexpression of GUS Reporter gene and Cannabinoid Synthase Genes

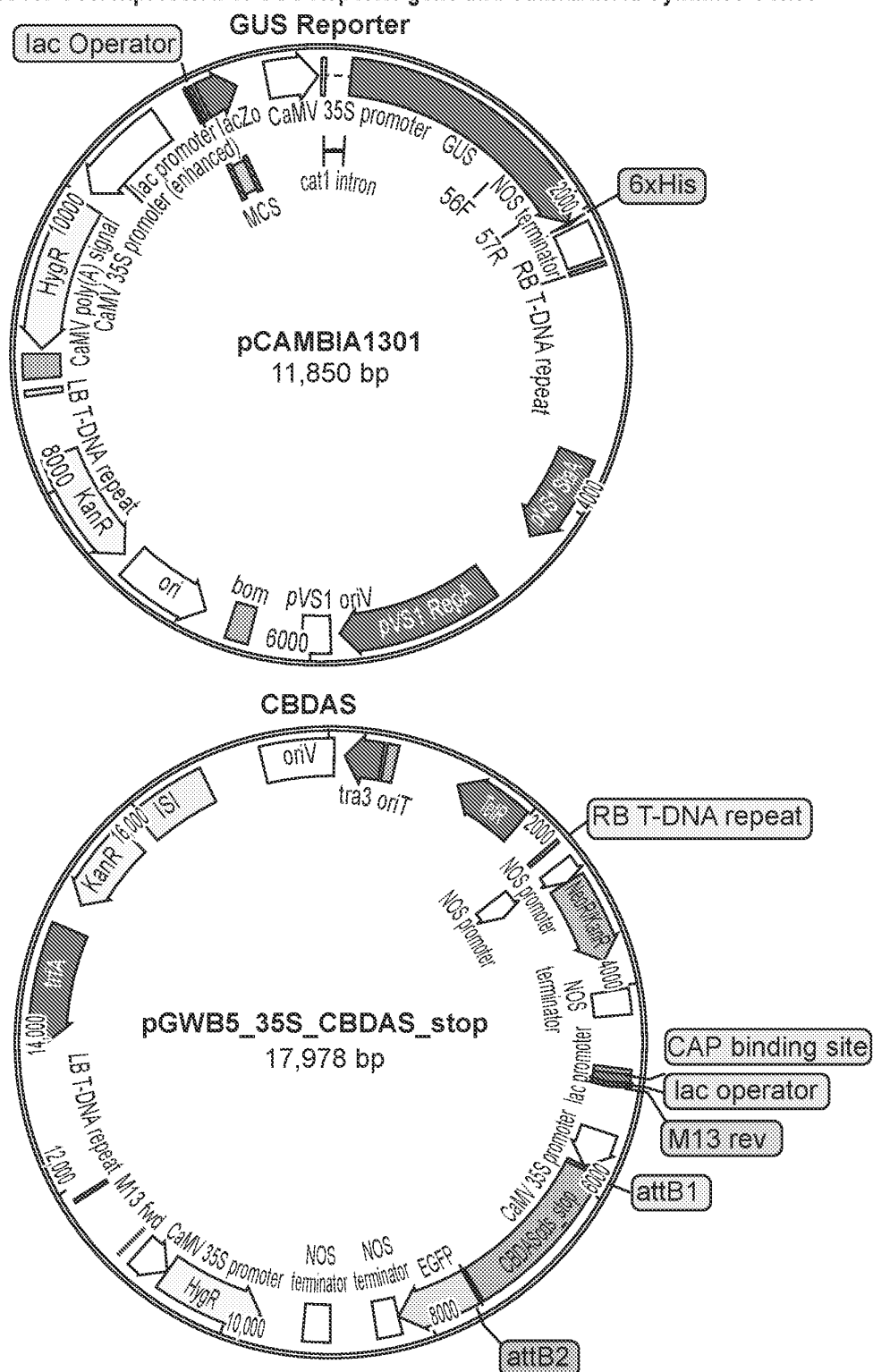


FIG. 19C

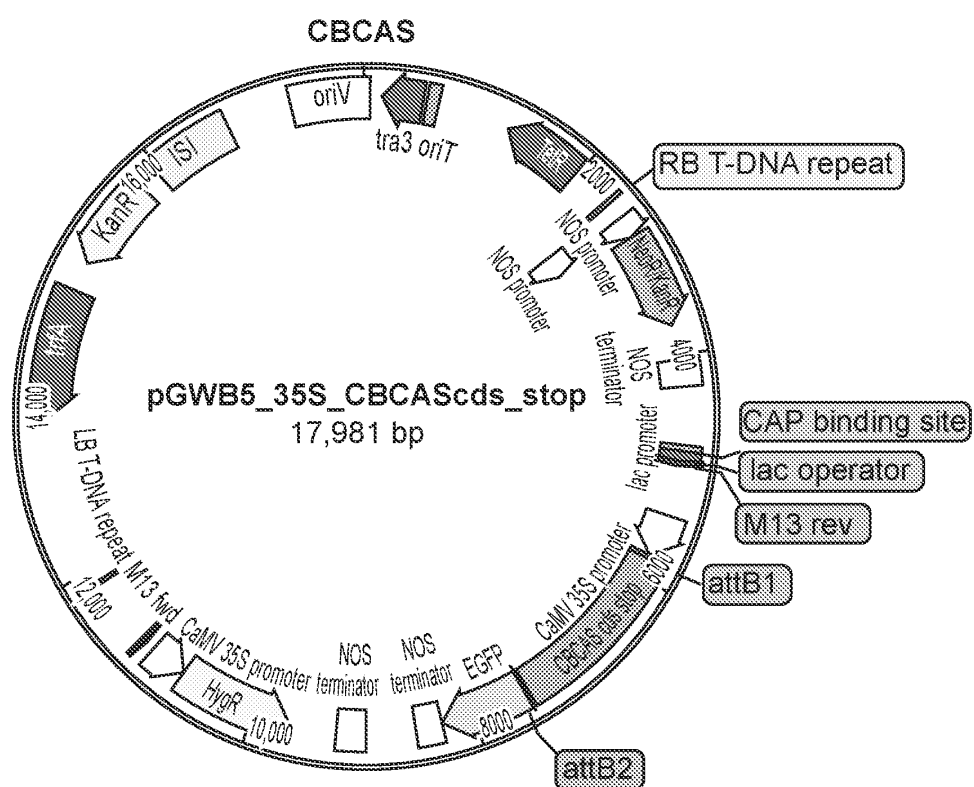


FIG. 19C Continued