

Initially Explored the Sequence Space of Oxidases

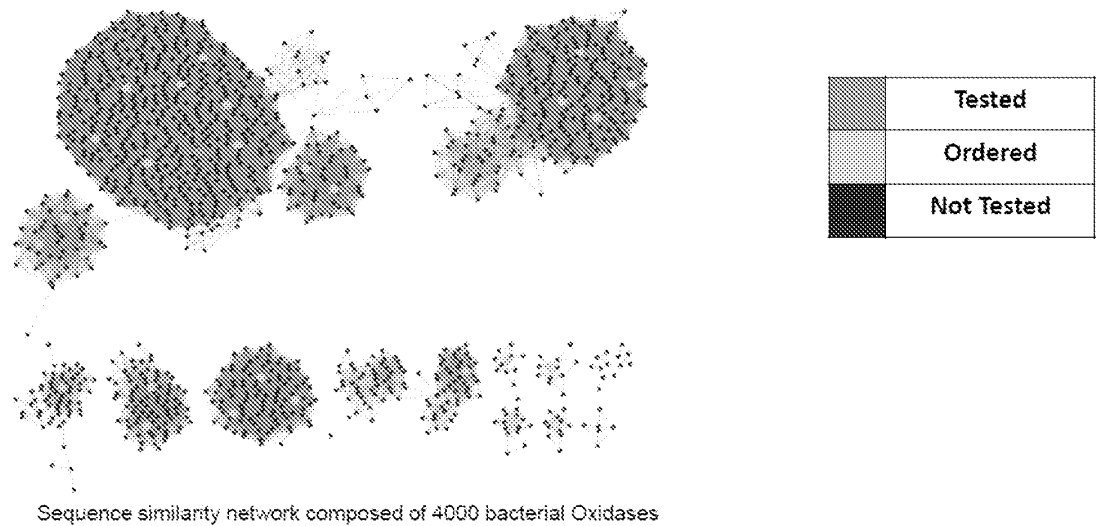


FIG. 1

Parallel Designs in ShCOB and Oxidase 8

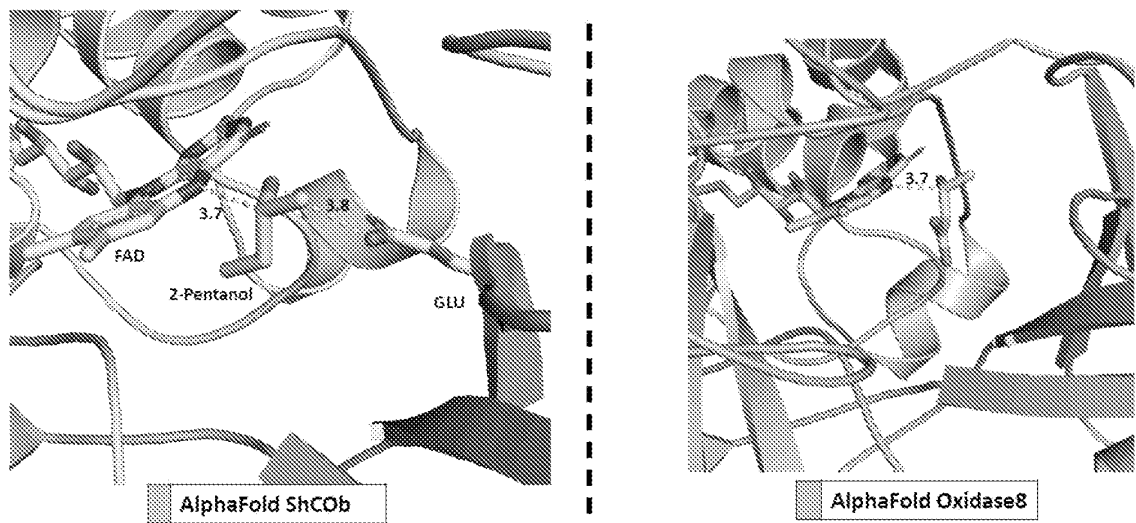
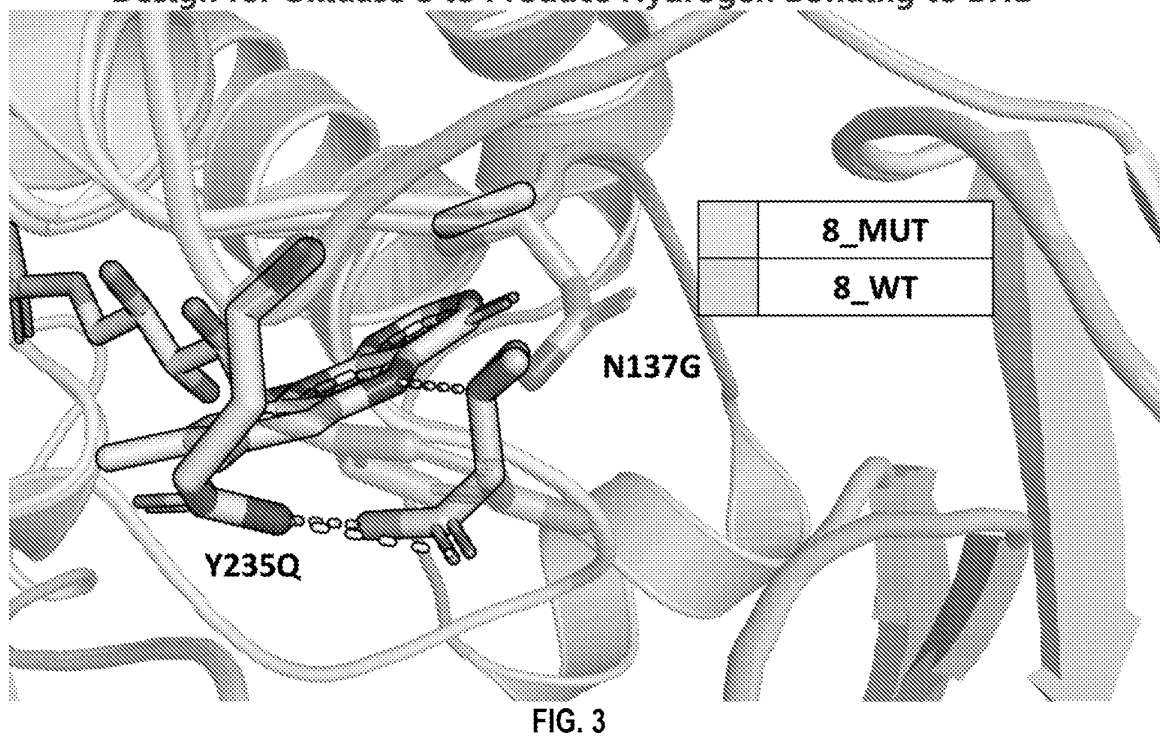


FIG. 2

Design for Oxidase 8 to Produce Hydrogen Bonding to BHB



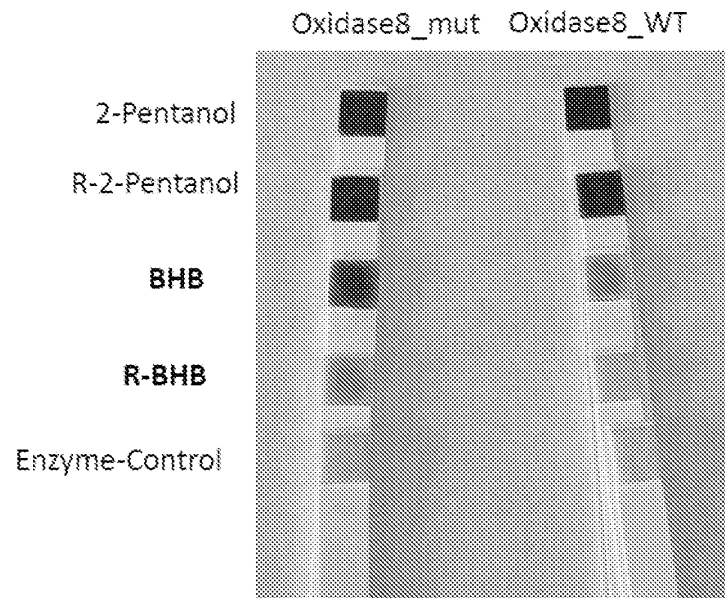
Peroxide Detection:

FIG. 4

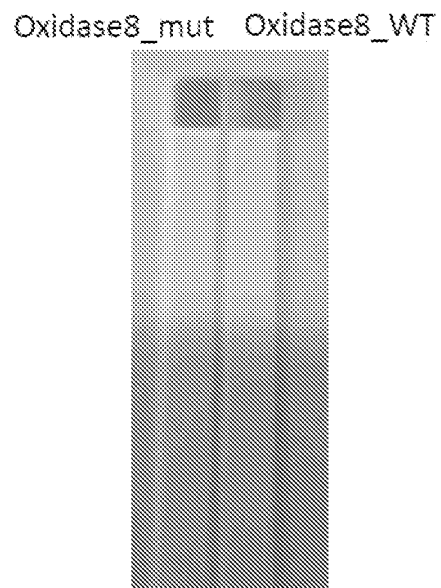
Acetoacetate Detection:

FIG. 5

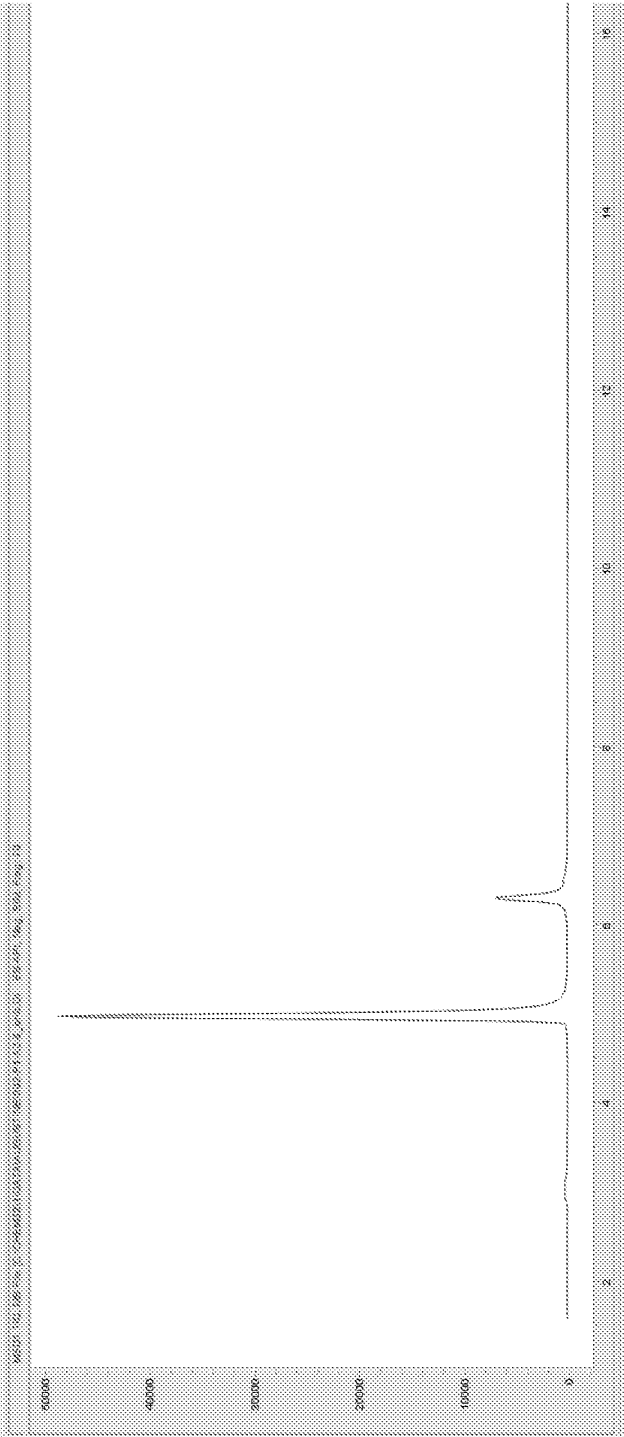


FIG. 6

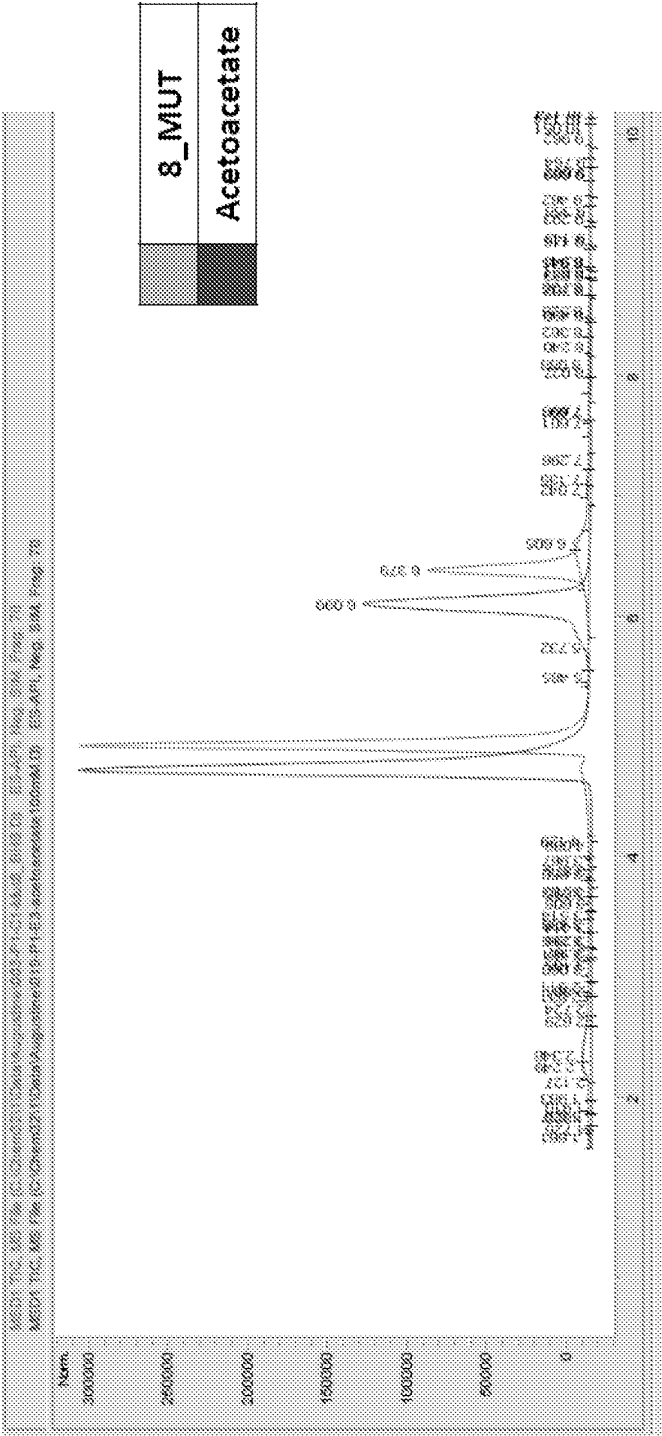


FIG. 7

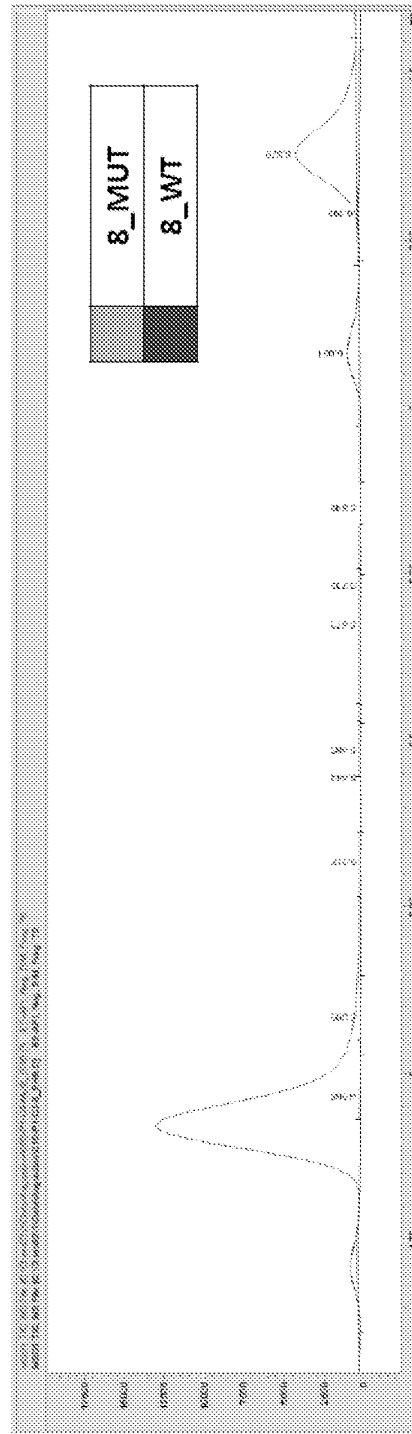


FIG. 8

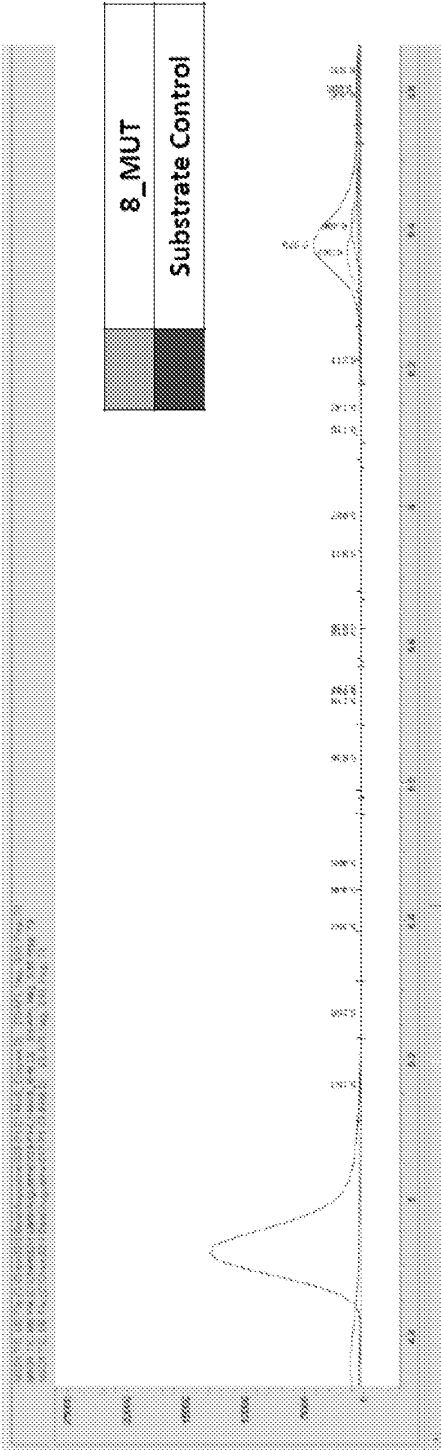


FIG. 9