

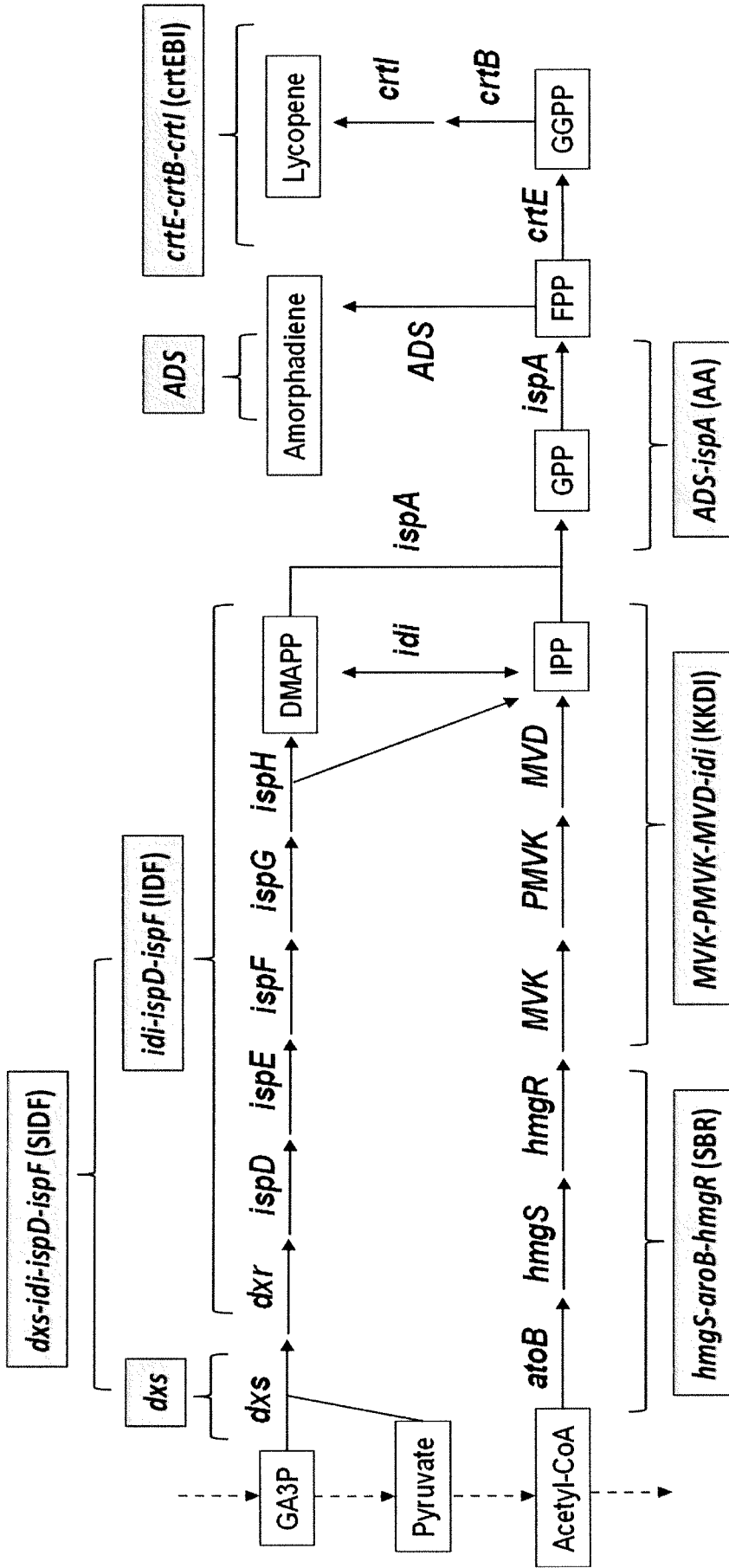


FIG. 1

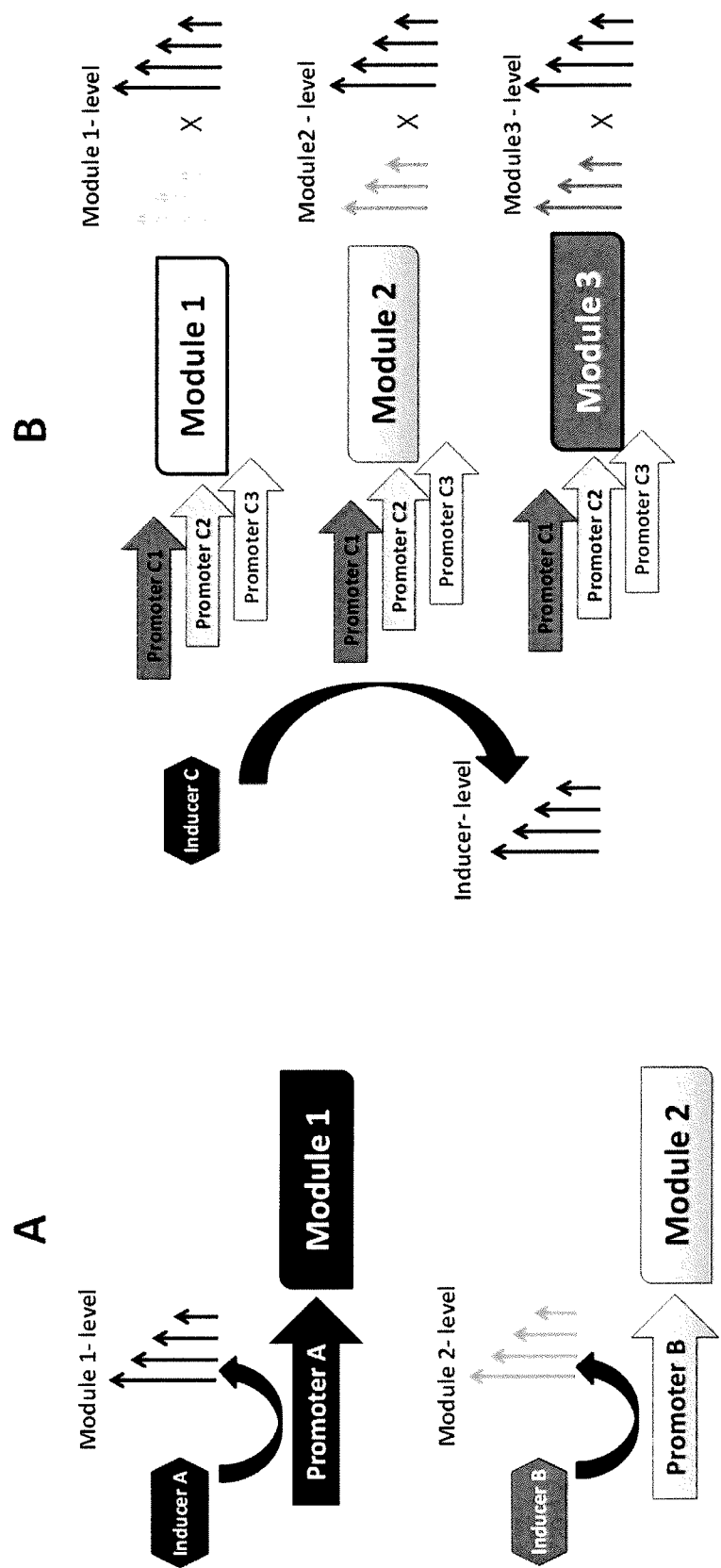


FIG. 2

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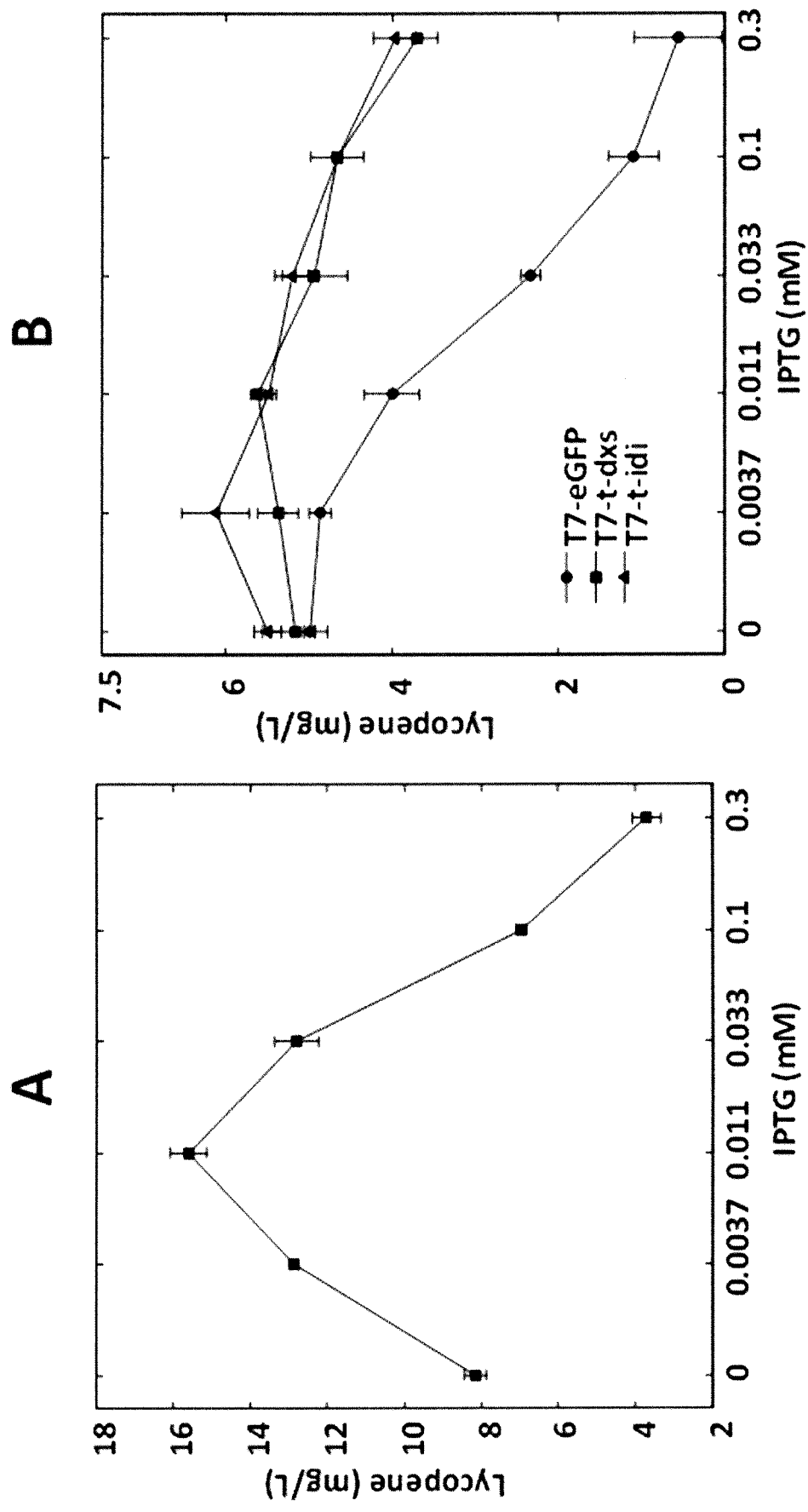


FIG. 3

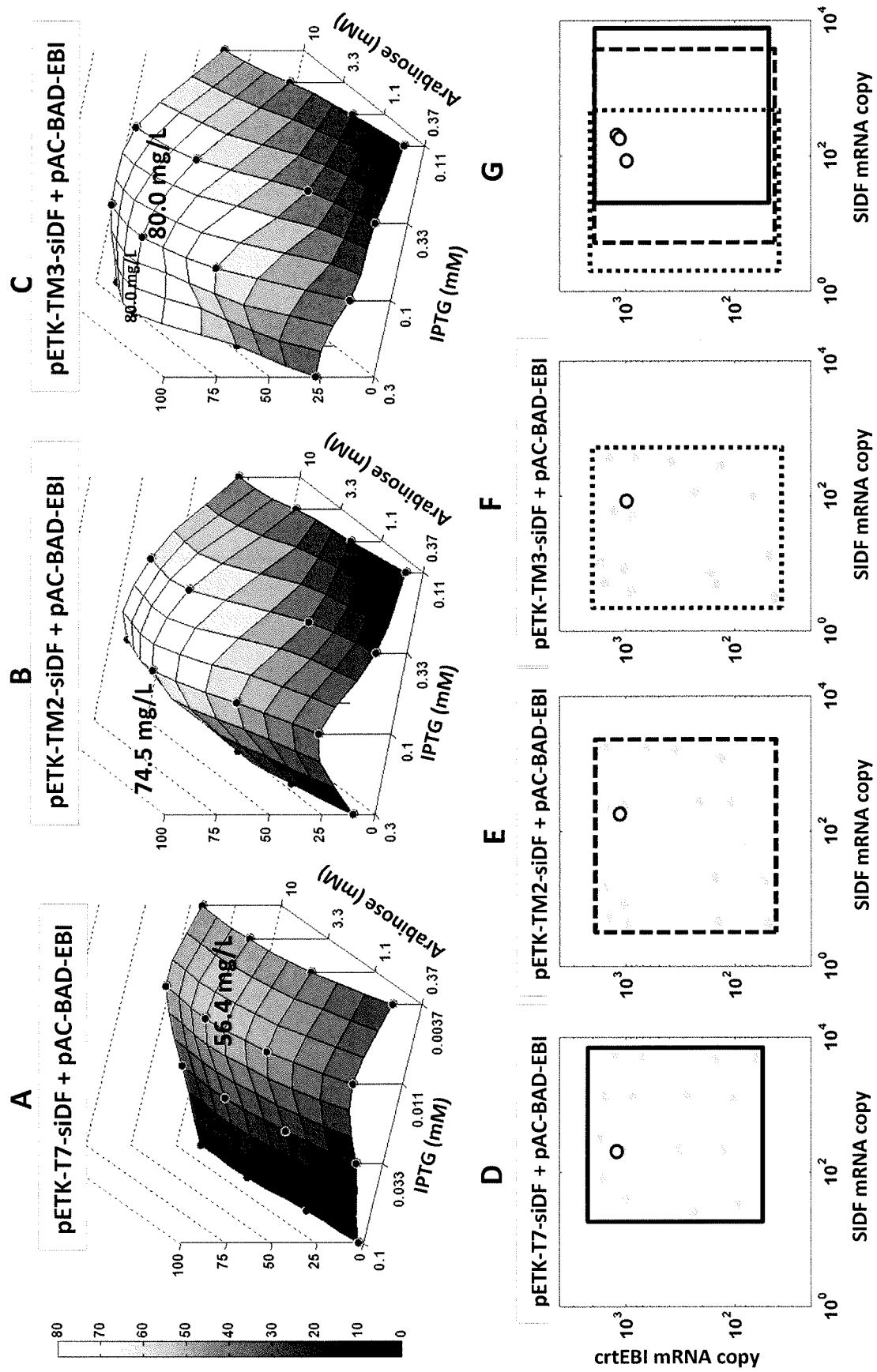


FIG. 4

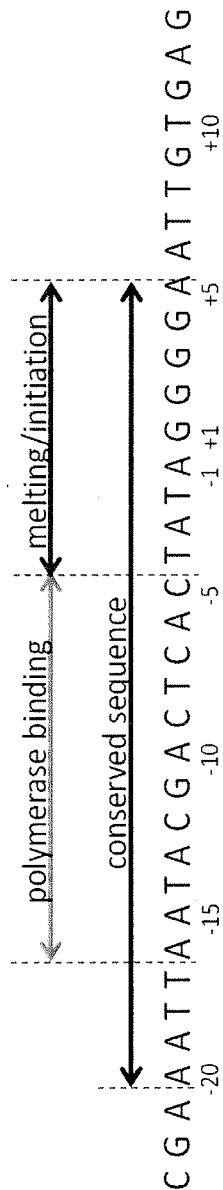


FIG. 5

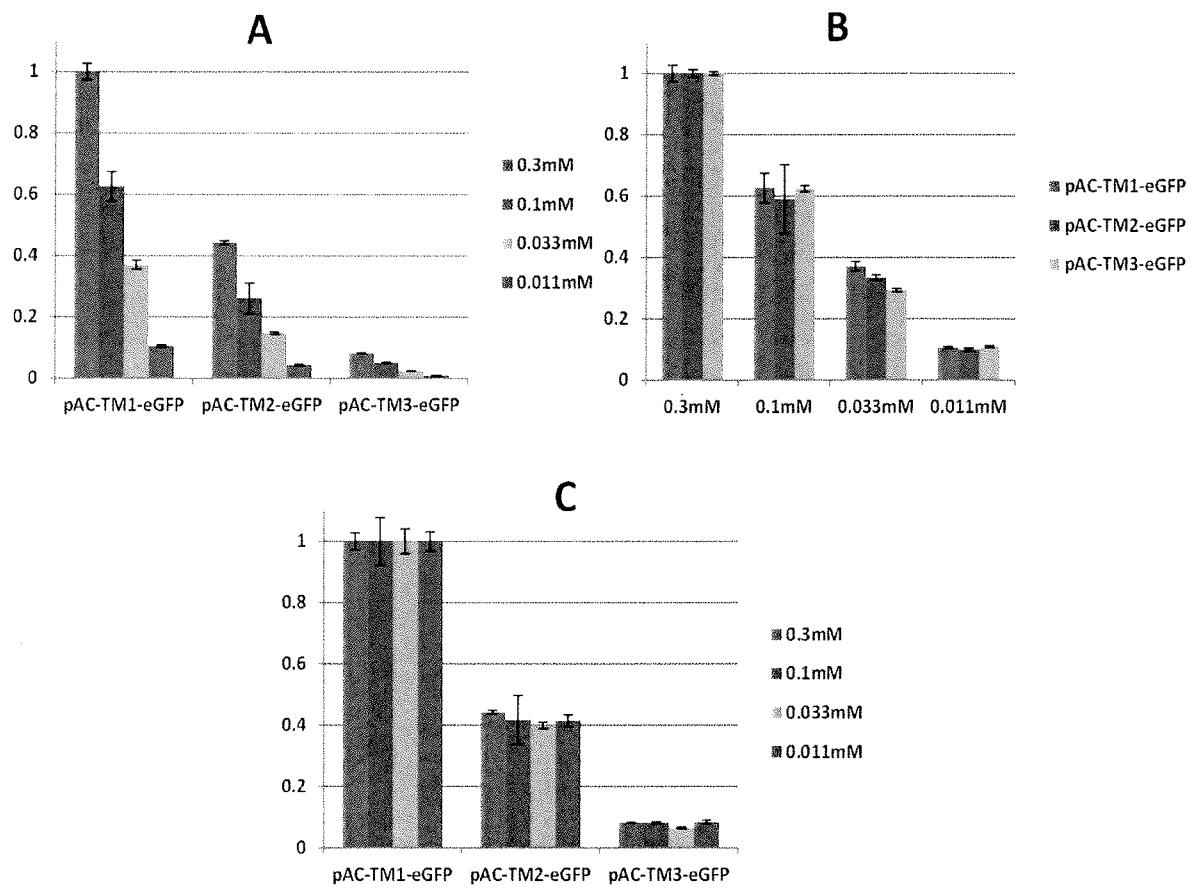


FIG. 6

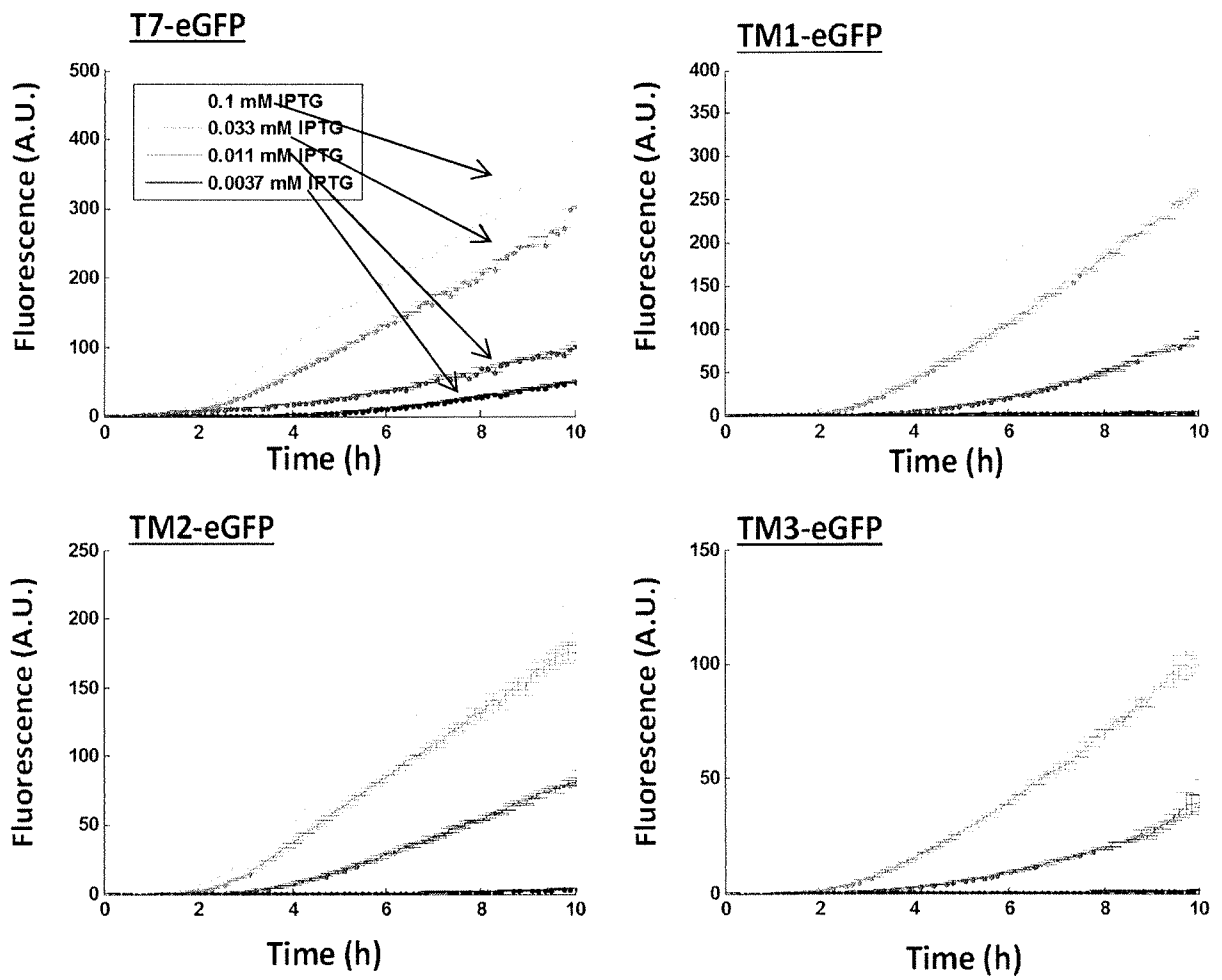


FIG. 7

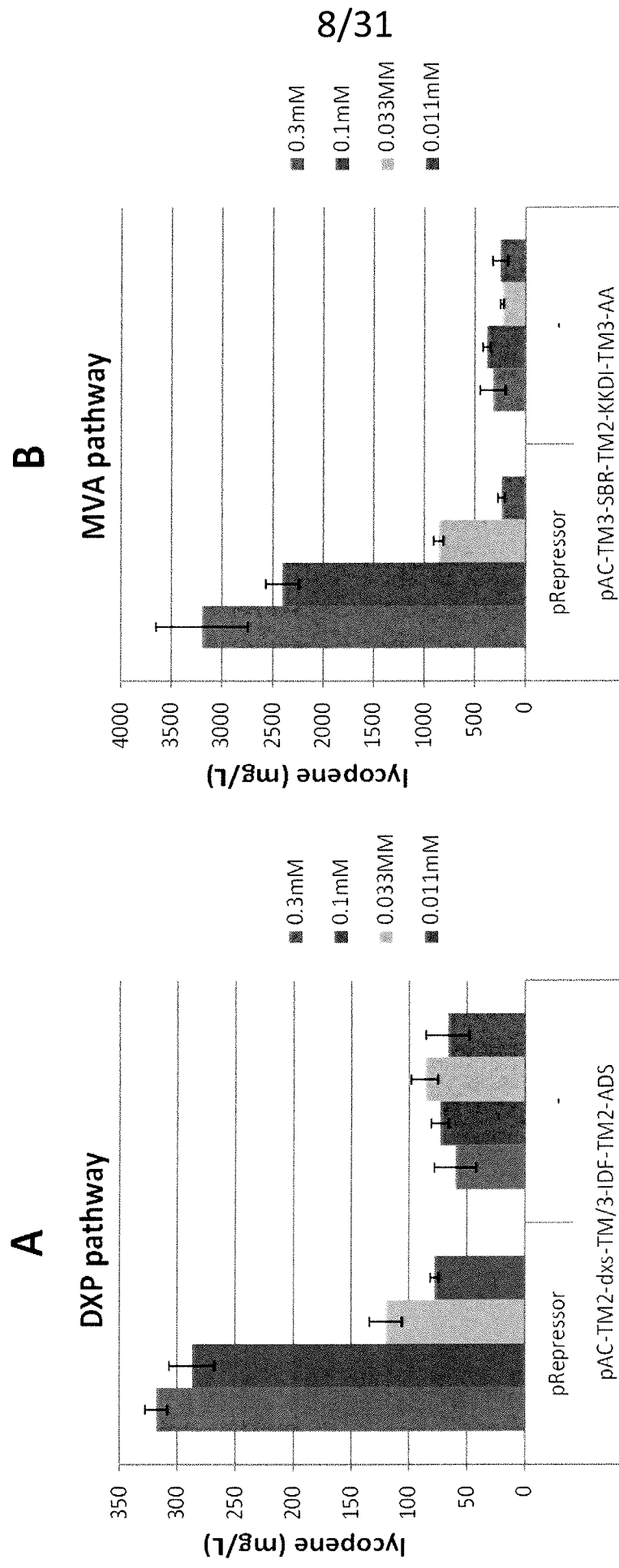
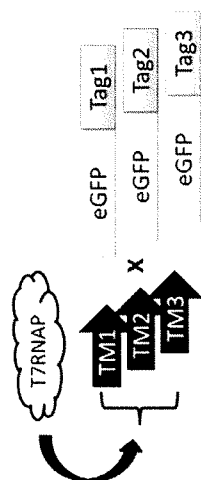
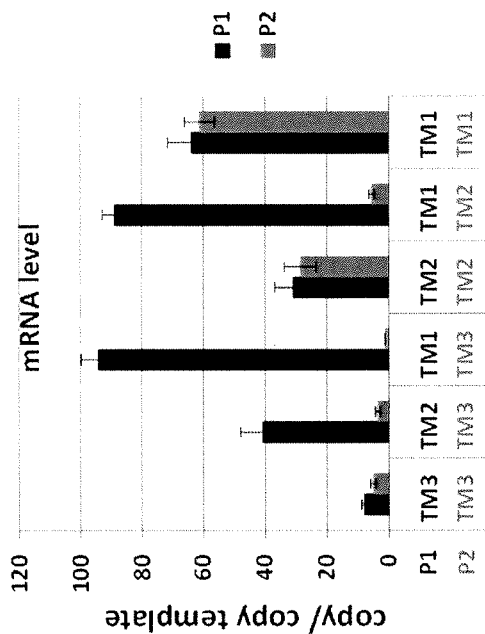


FIG. 8

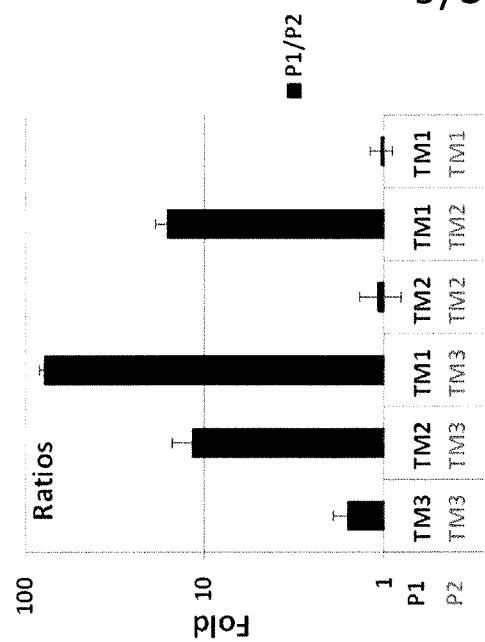
A



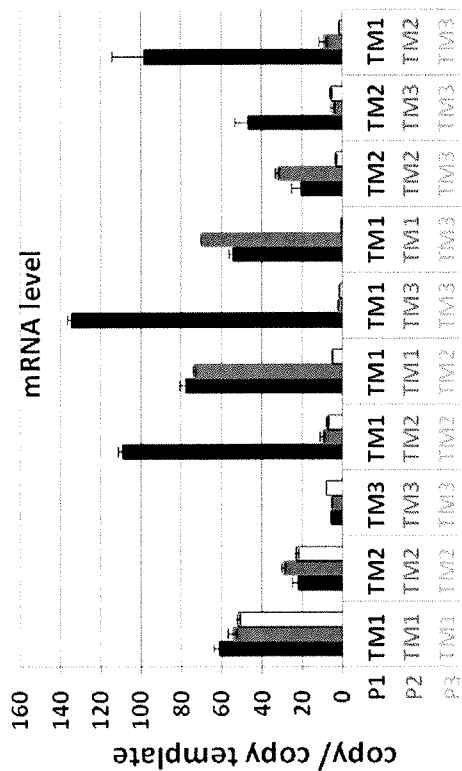
B



C



D



E

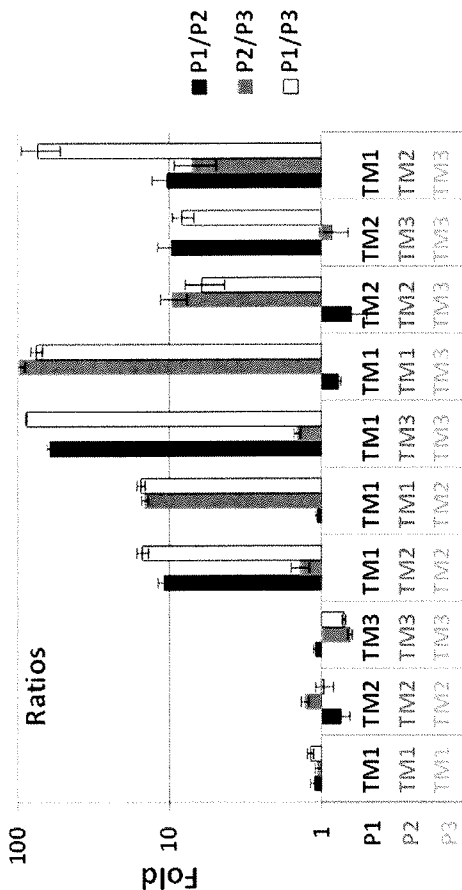


FIG. 9

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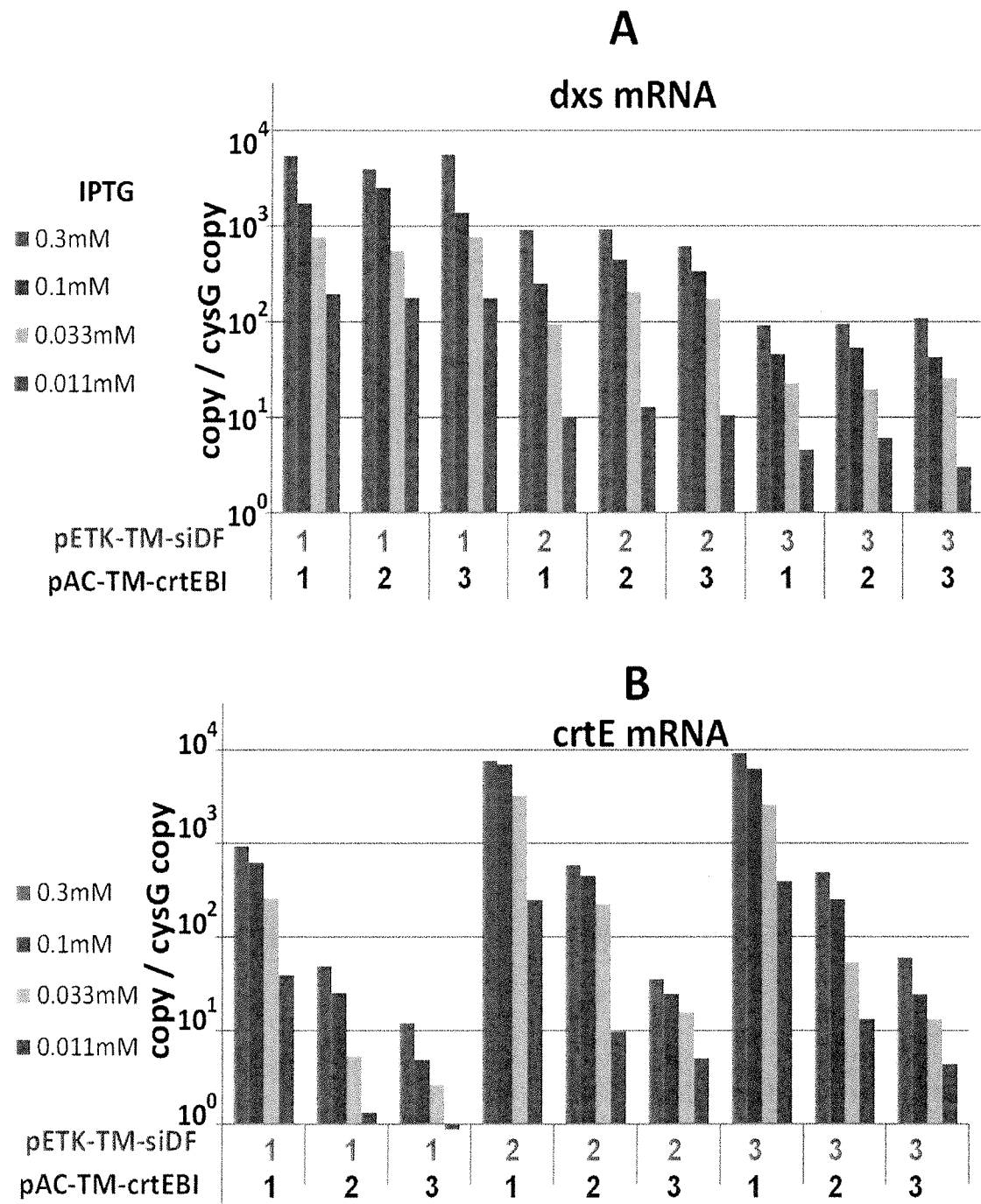


FIG. 10

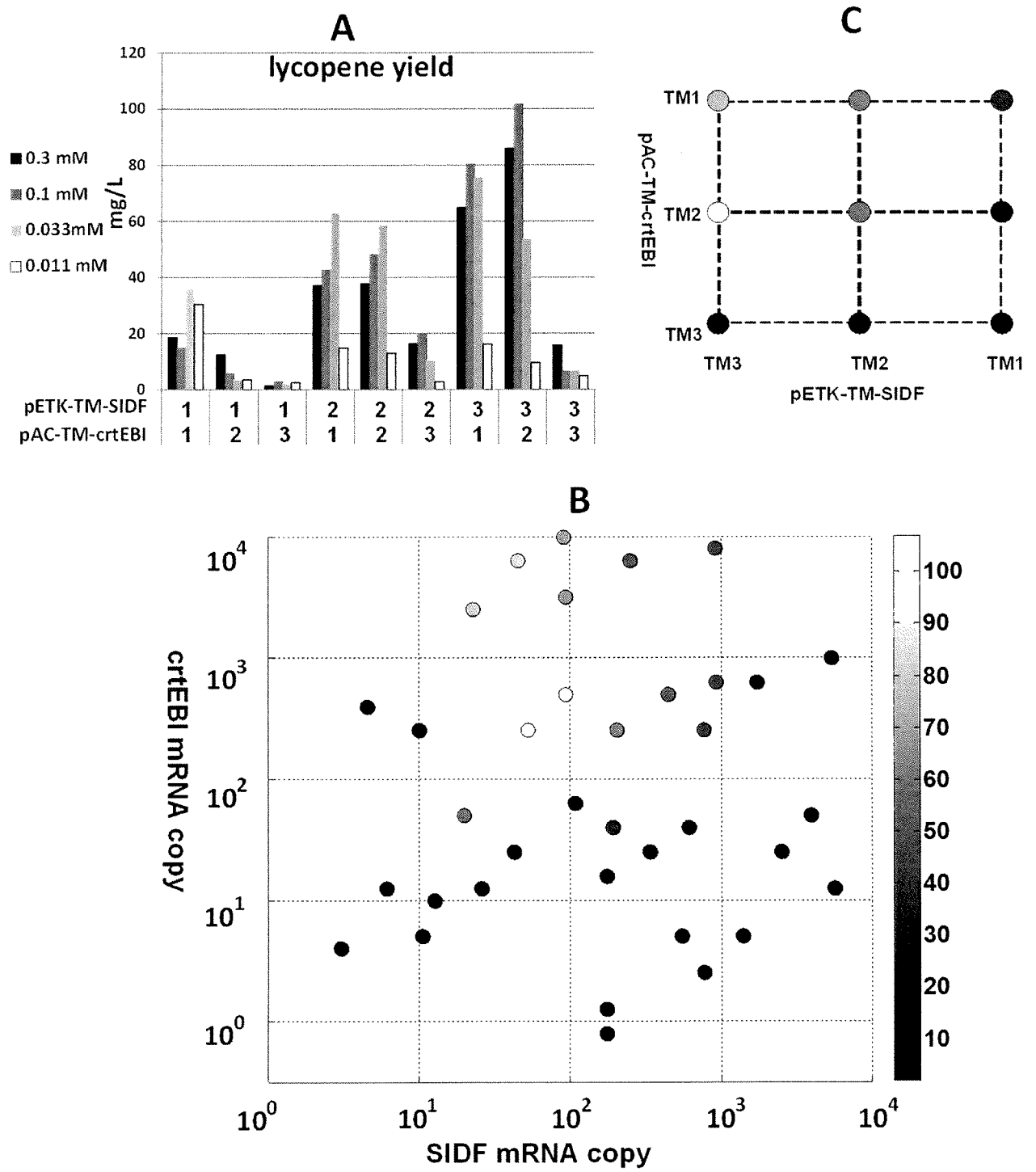


FIG. 11

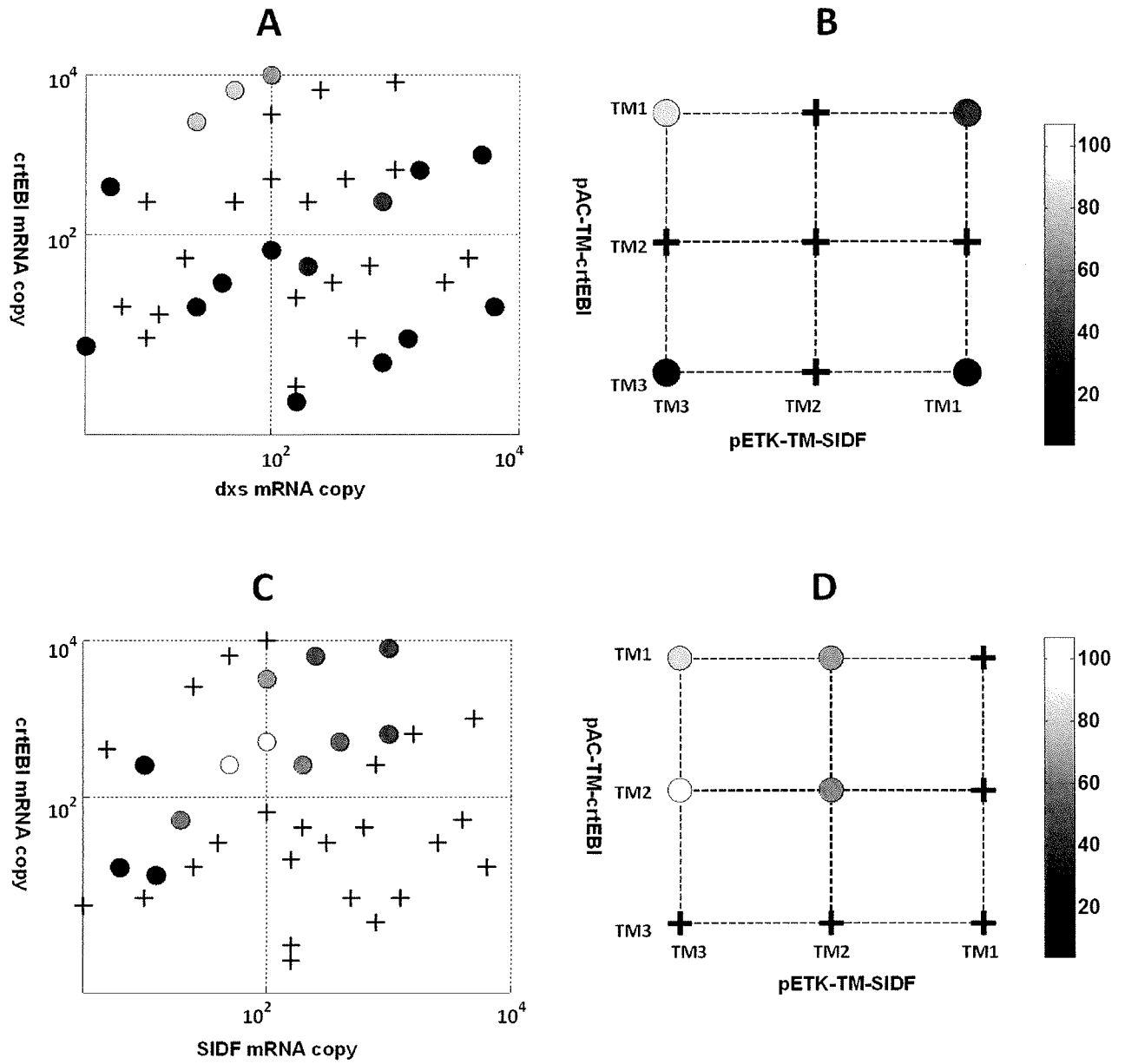
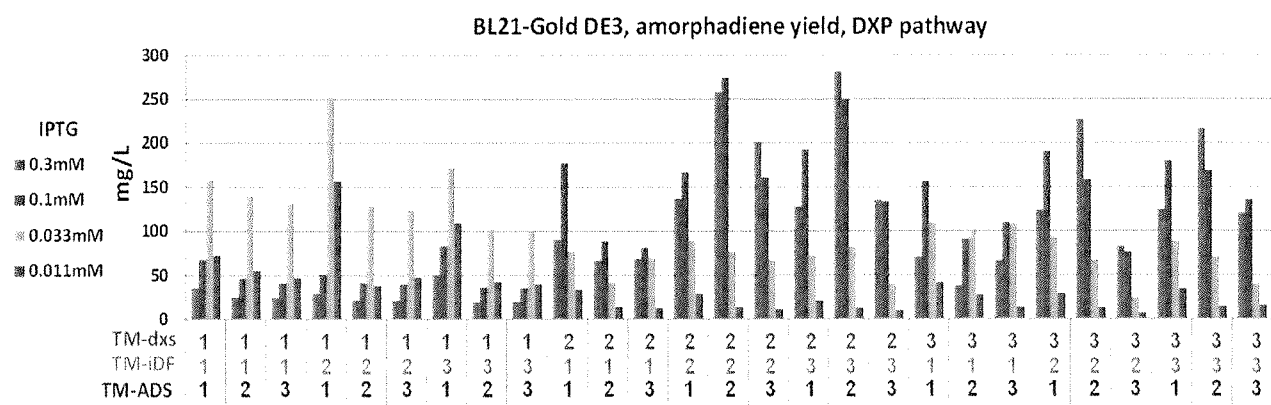


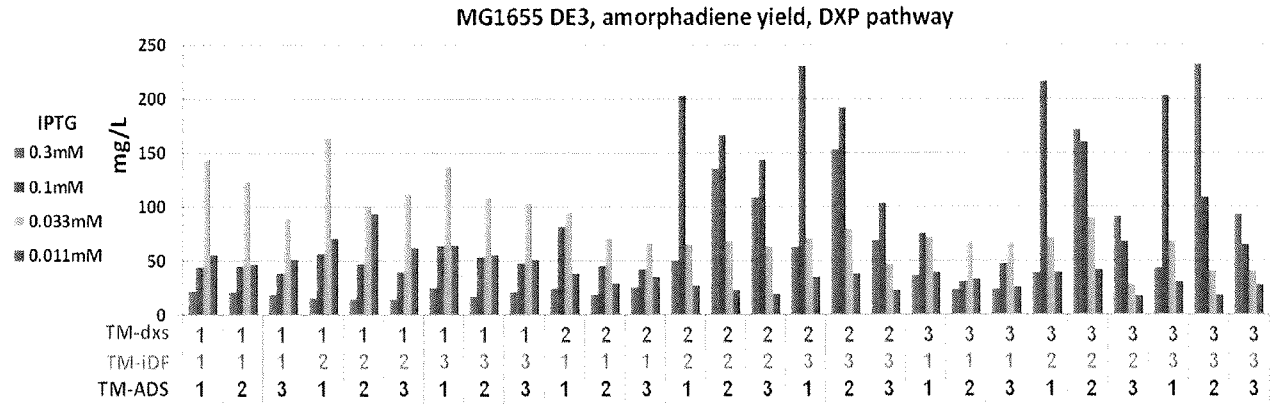
FIG. 12

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A



B



C

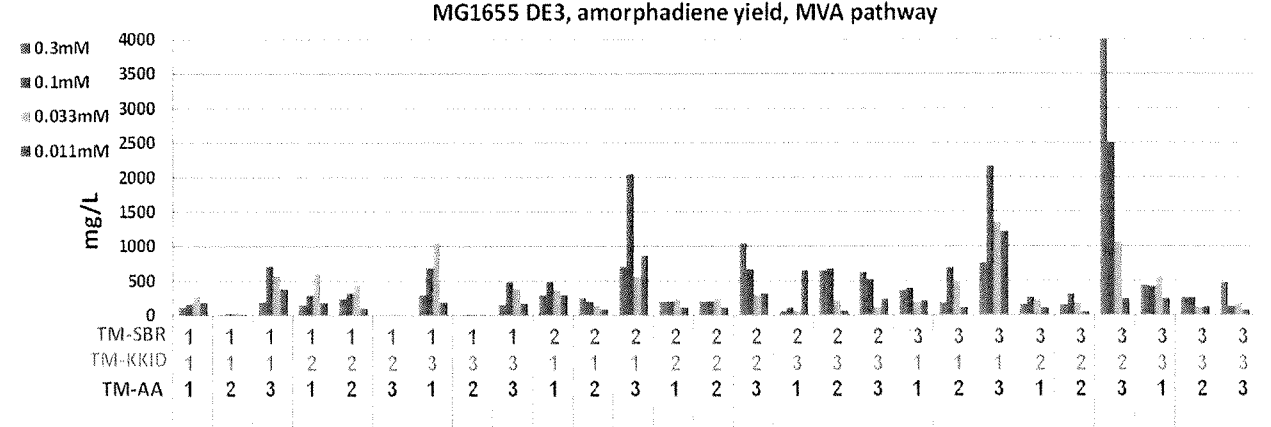


FIG. 13

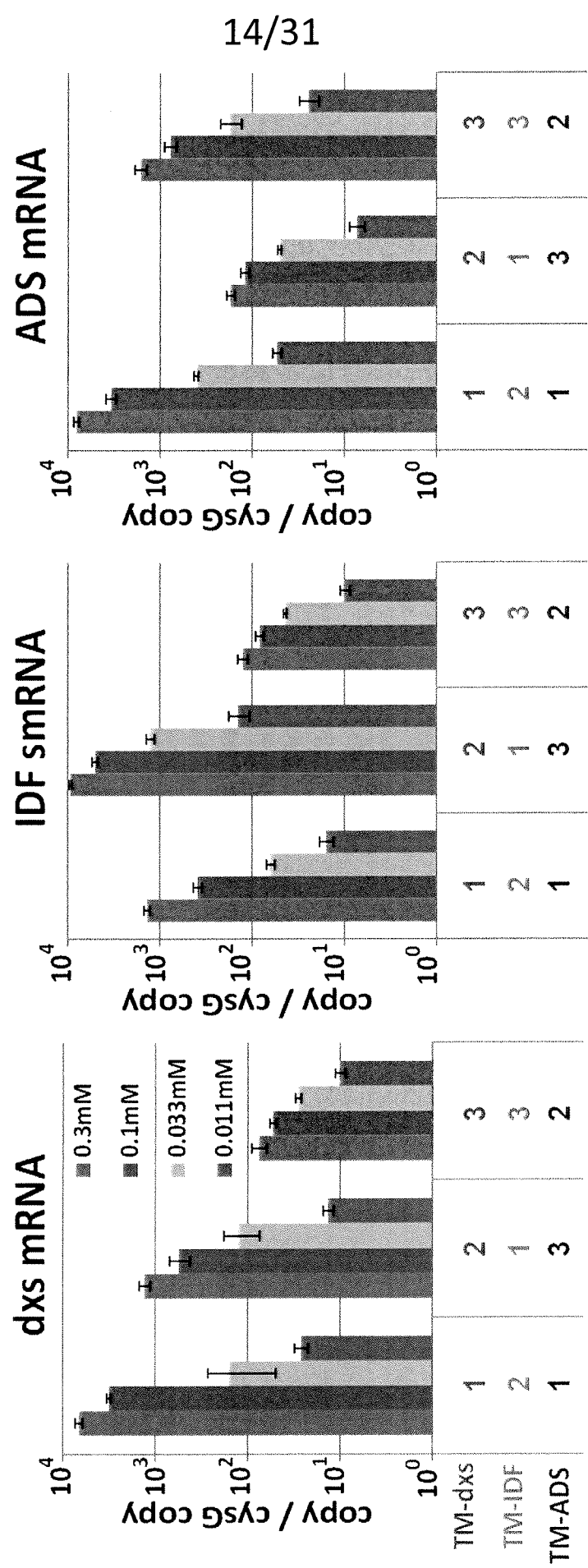


FIG. 14

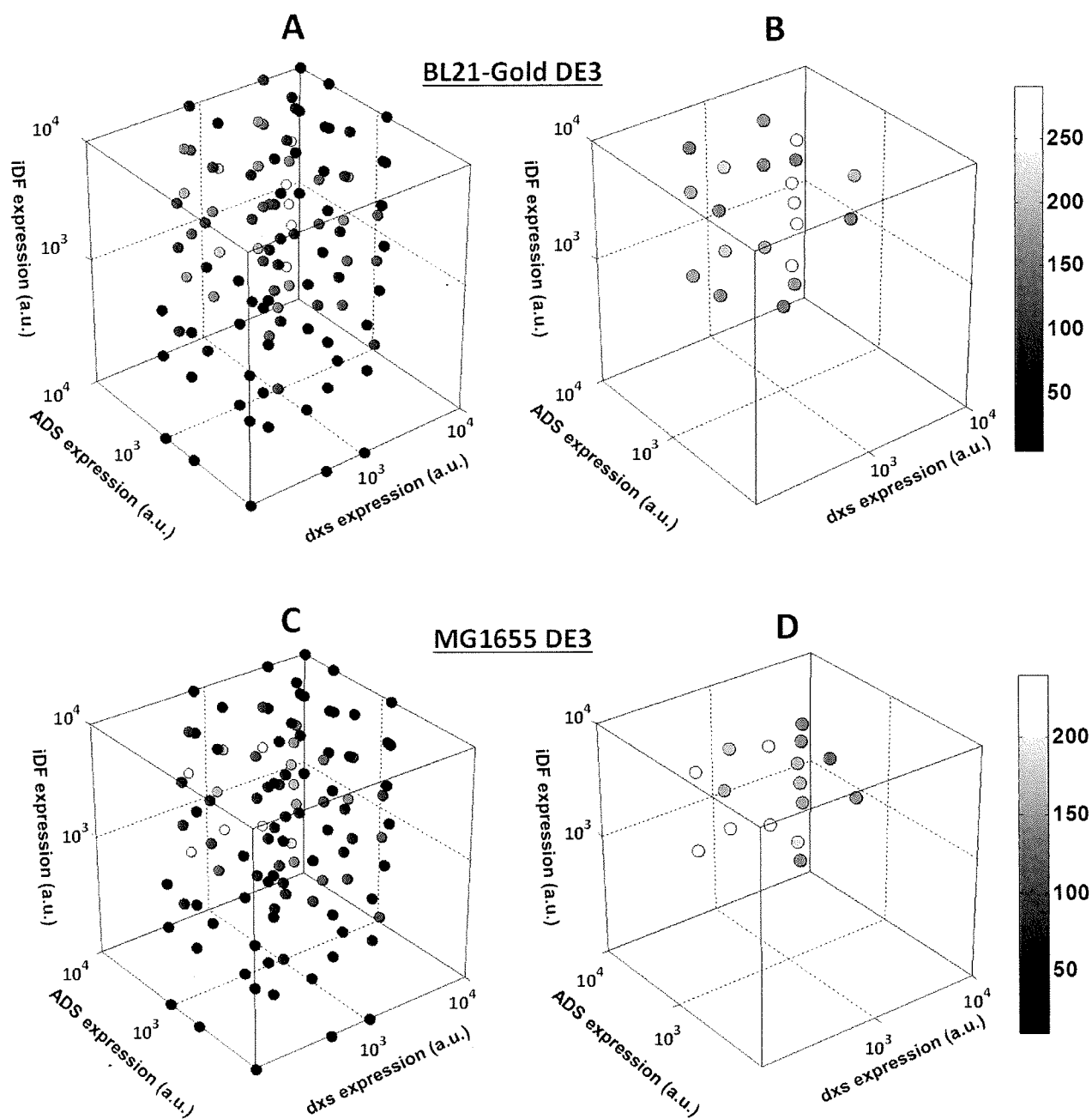


FIG. 15

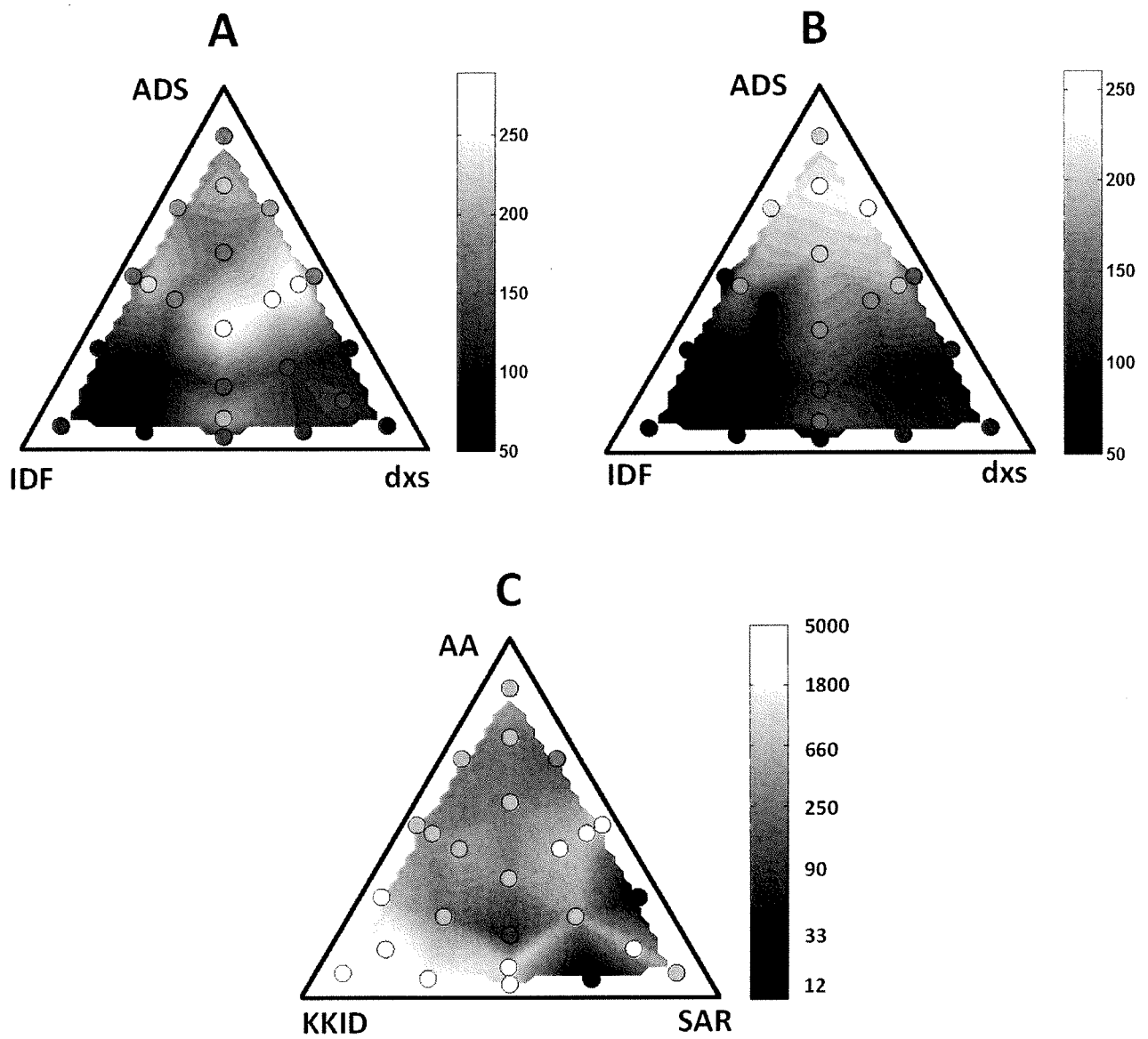


FIG. 16

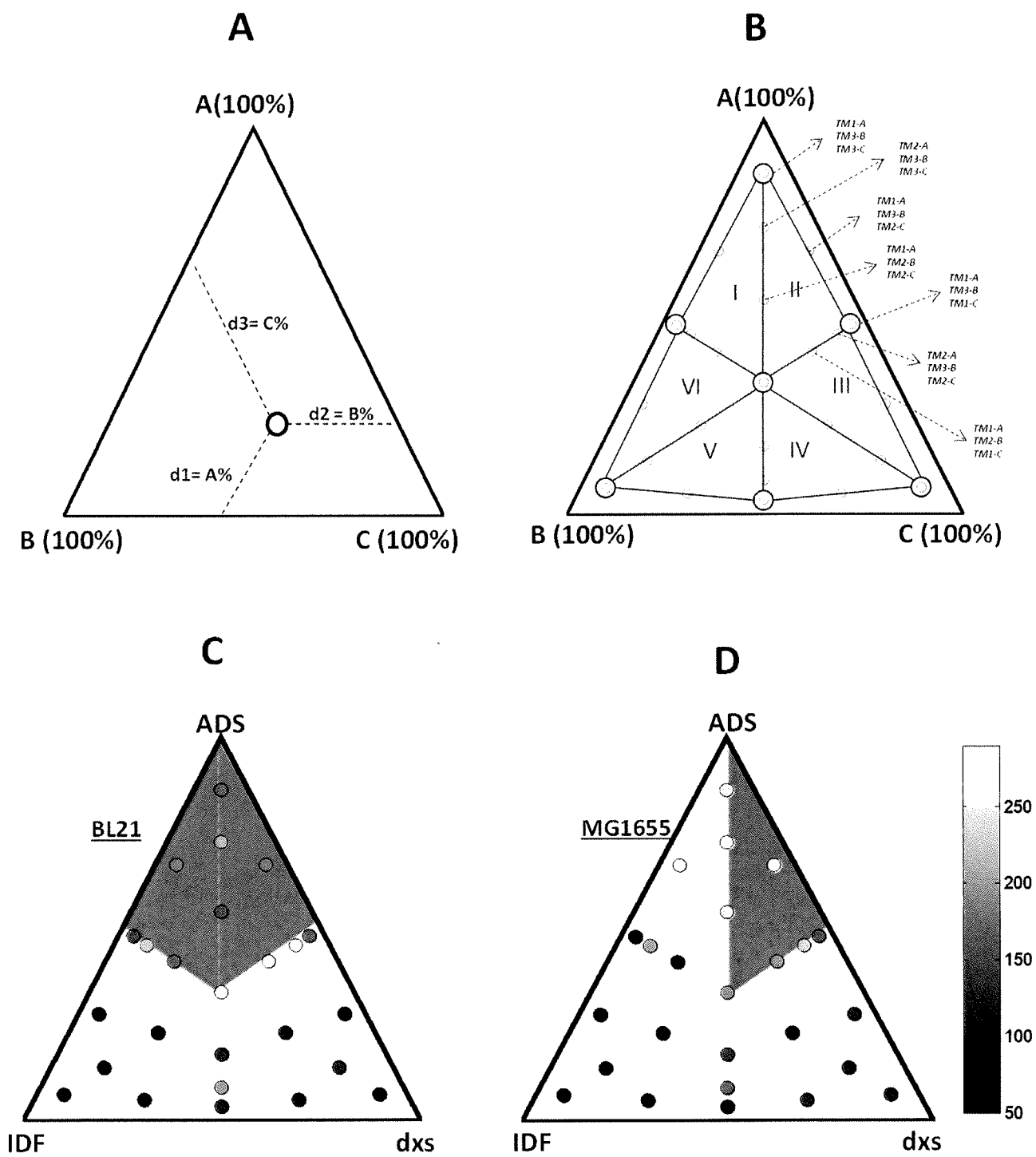


FIG. 17

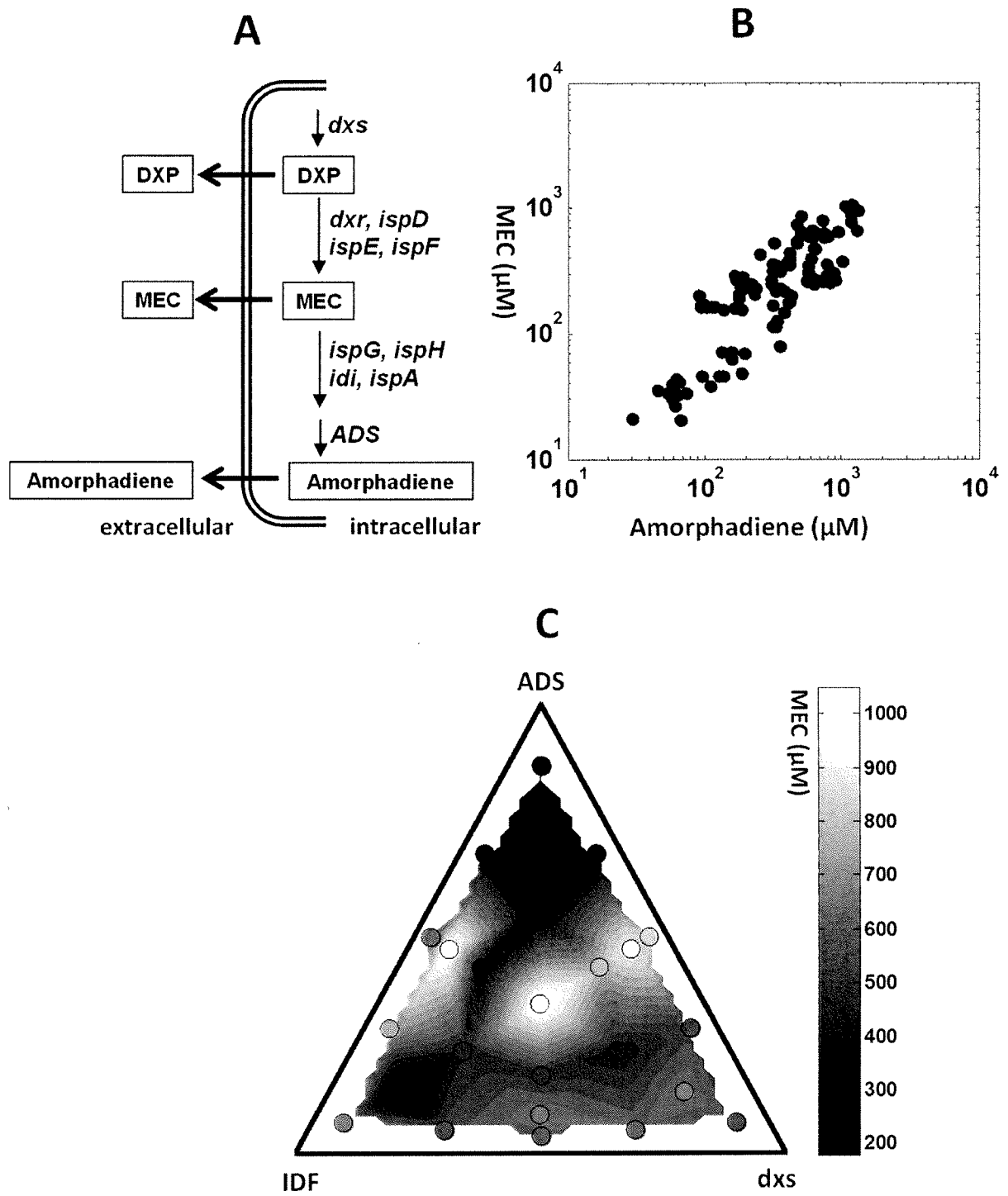


FIG. 18

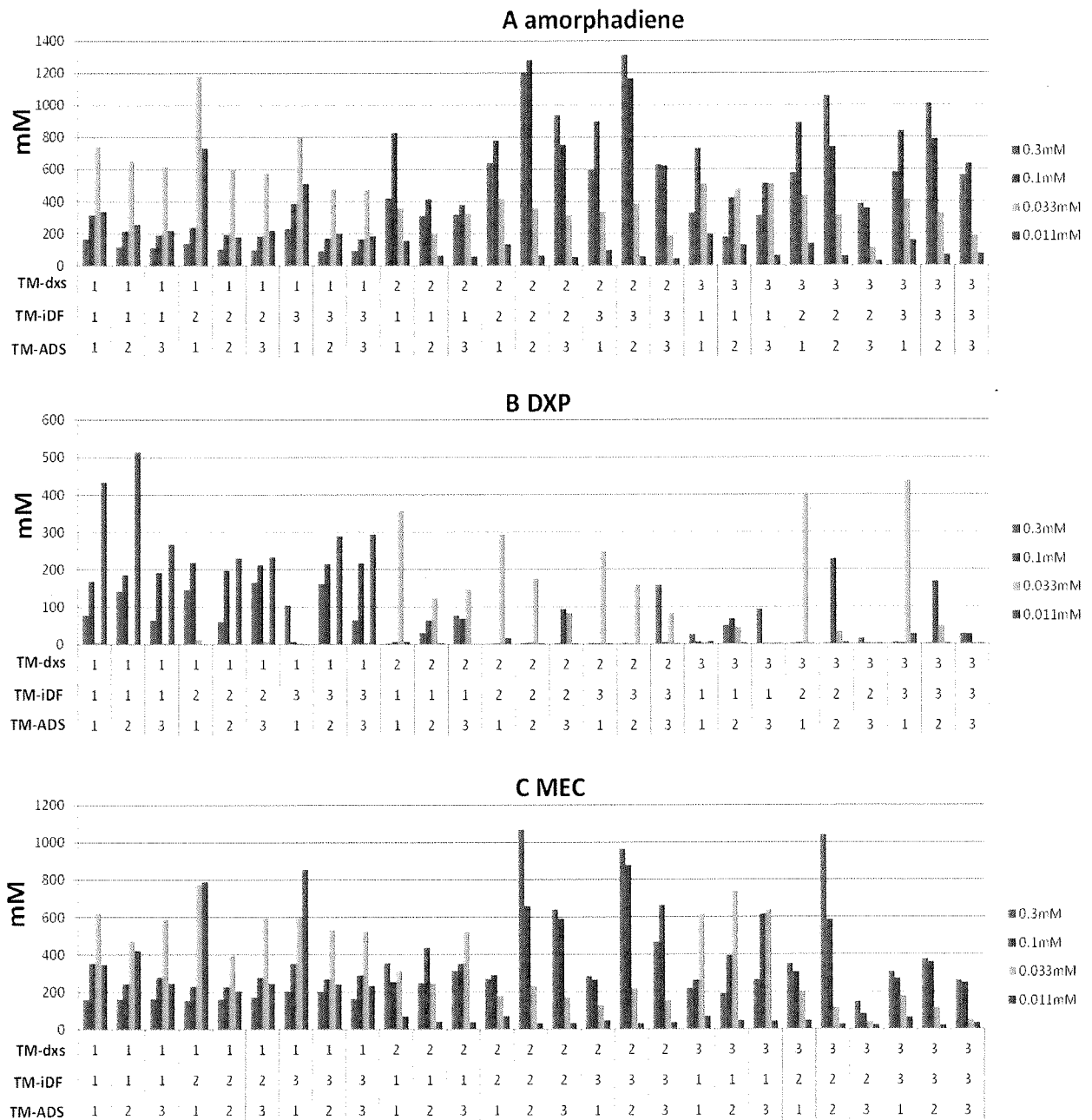
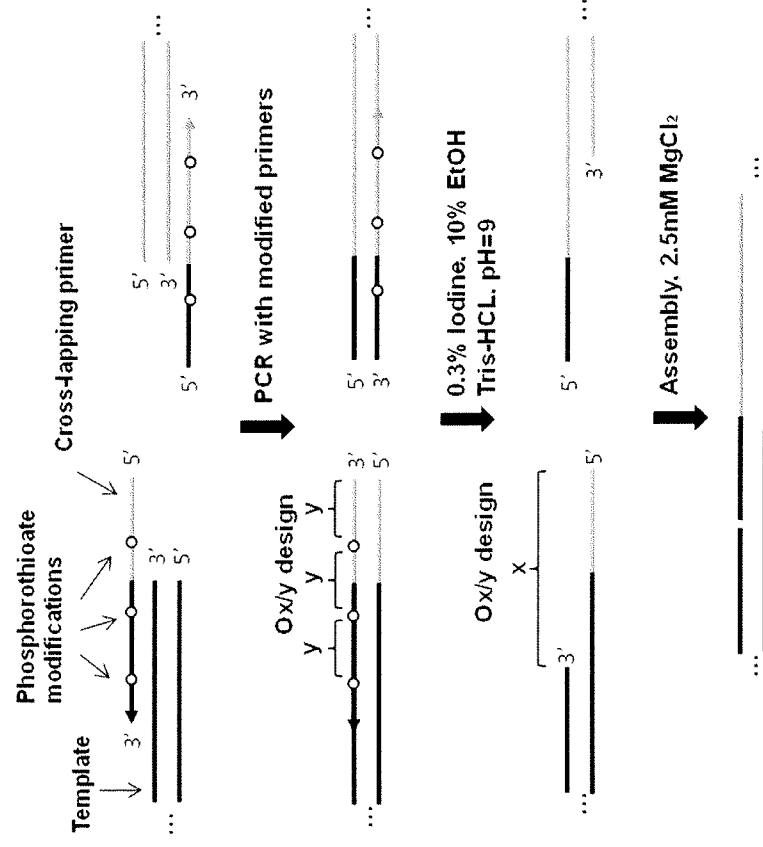


FIG. 19

A



B

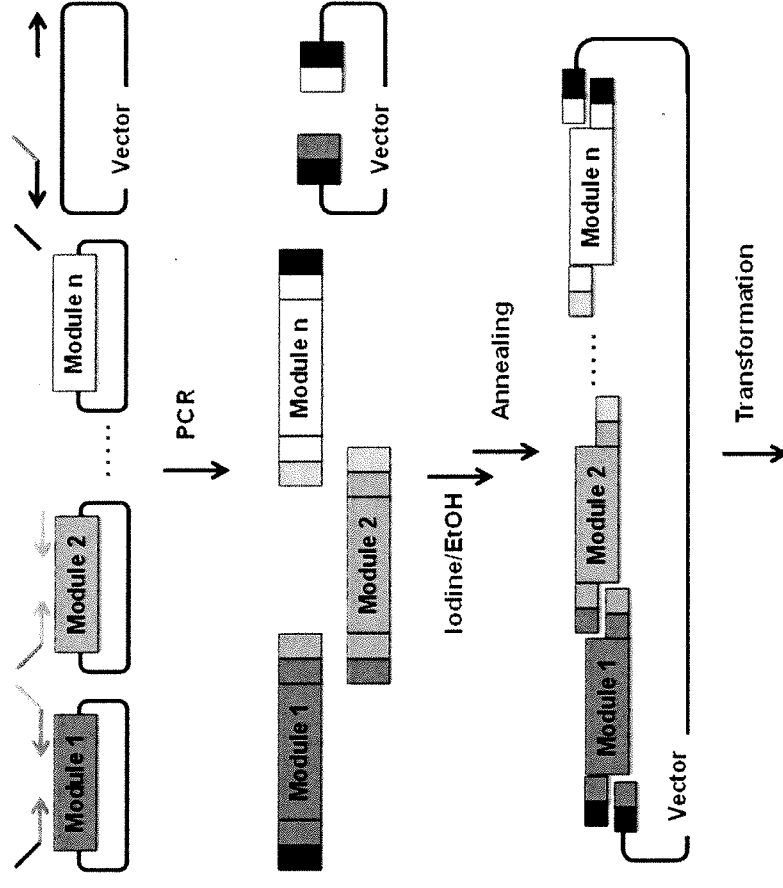


FIG. 20

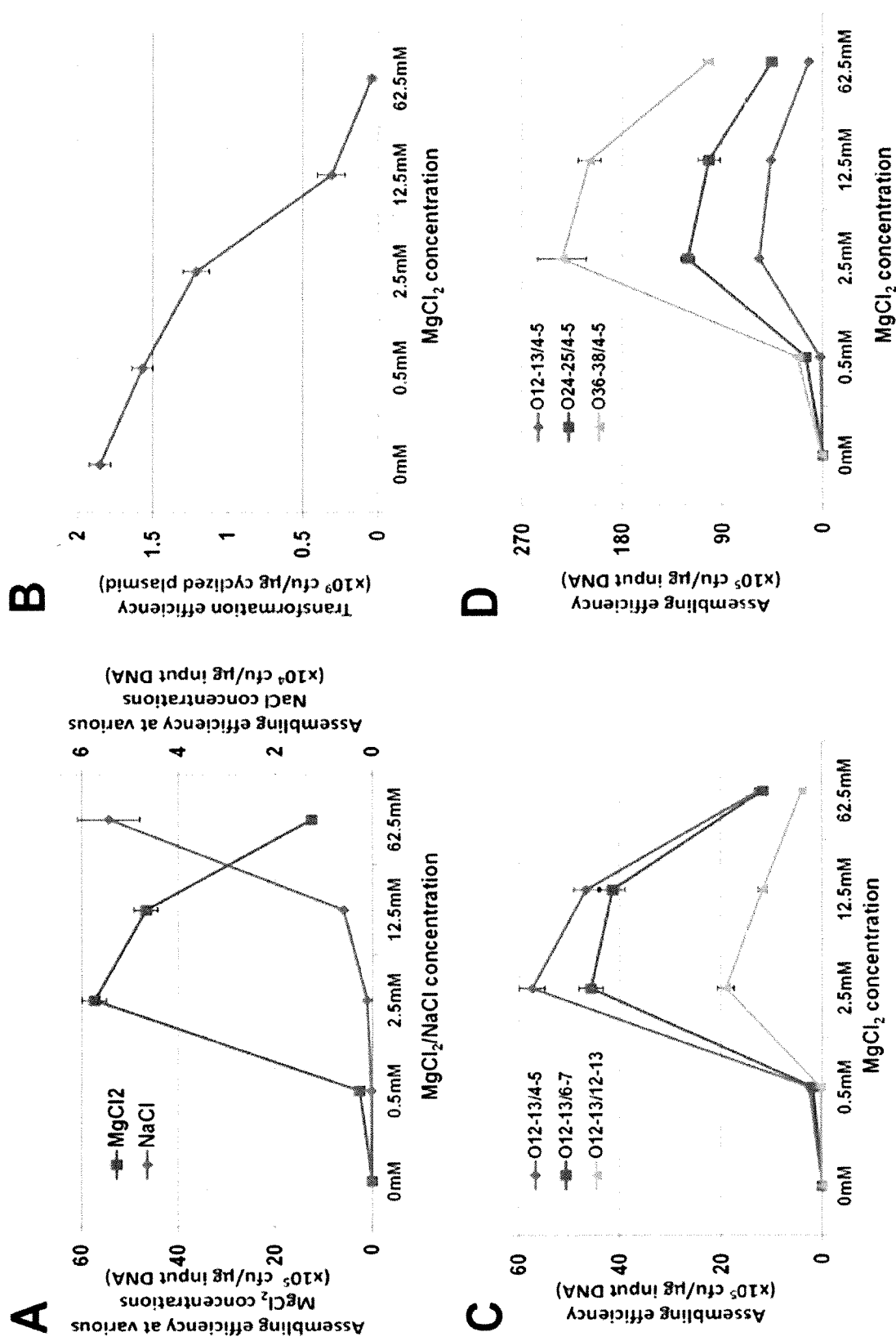


FIG. 21

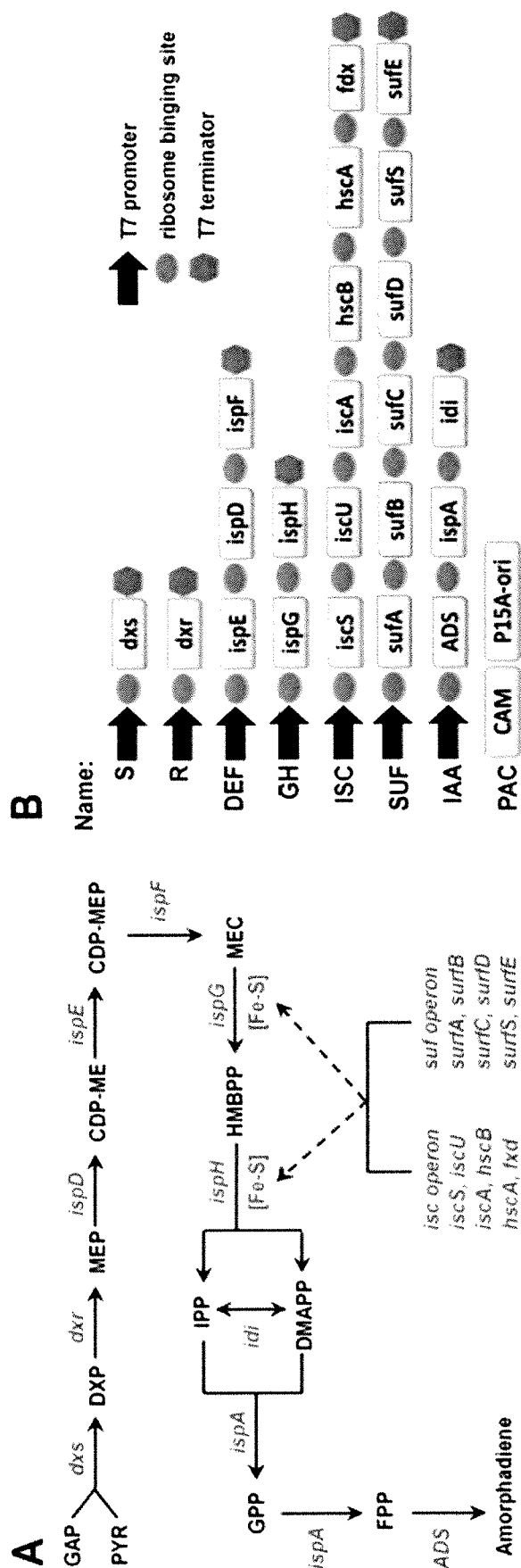


FIG. 22

FIG. 23A

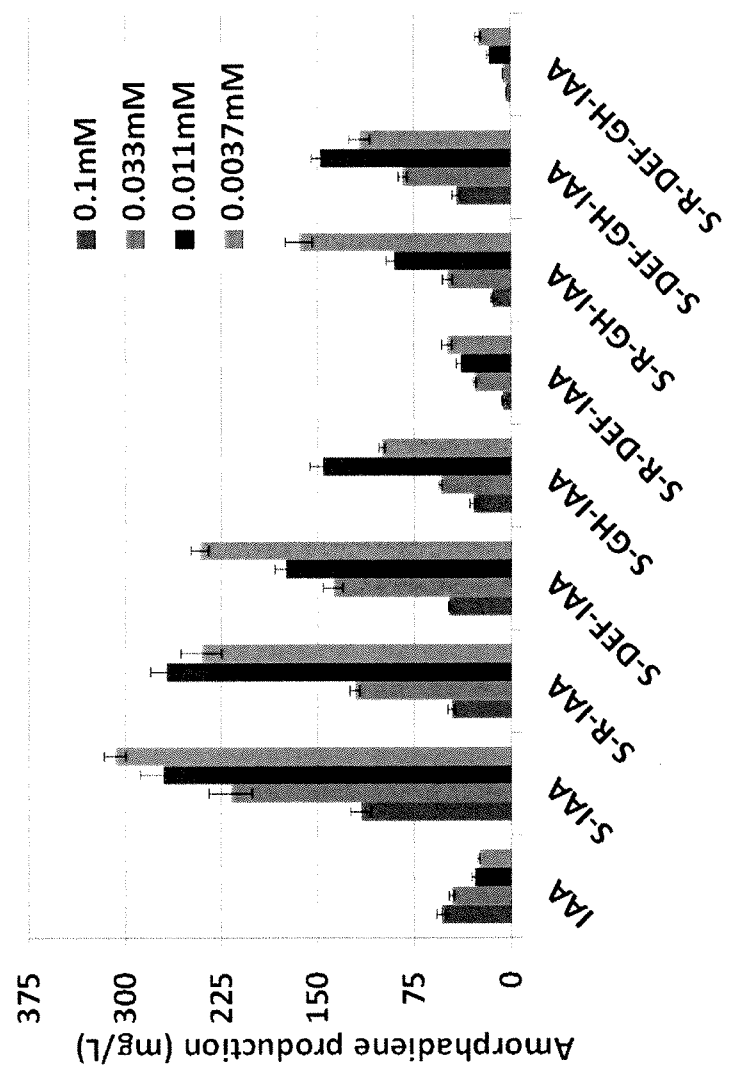


FIG. 23B

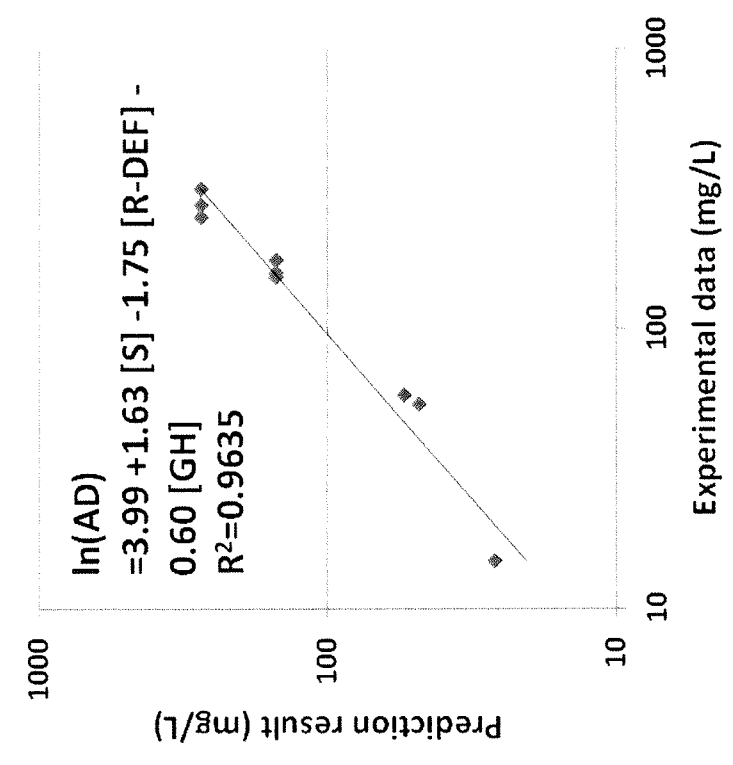


FIG. 23C

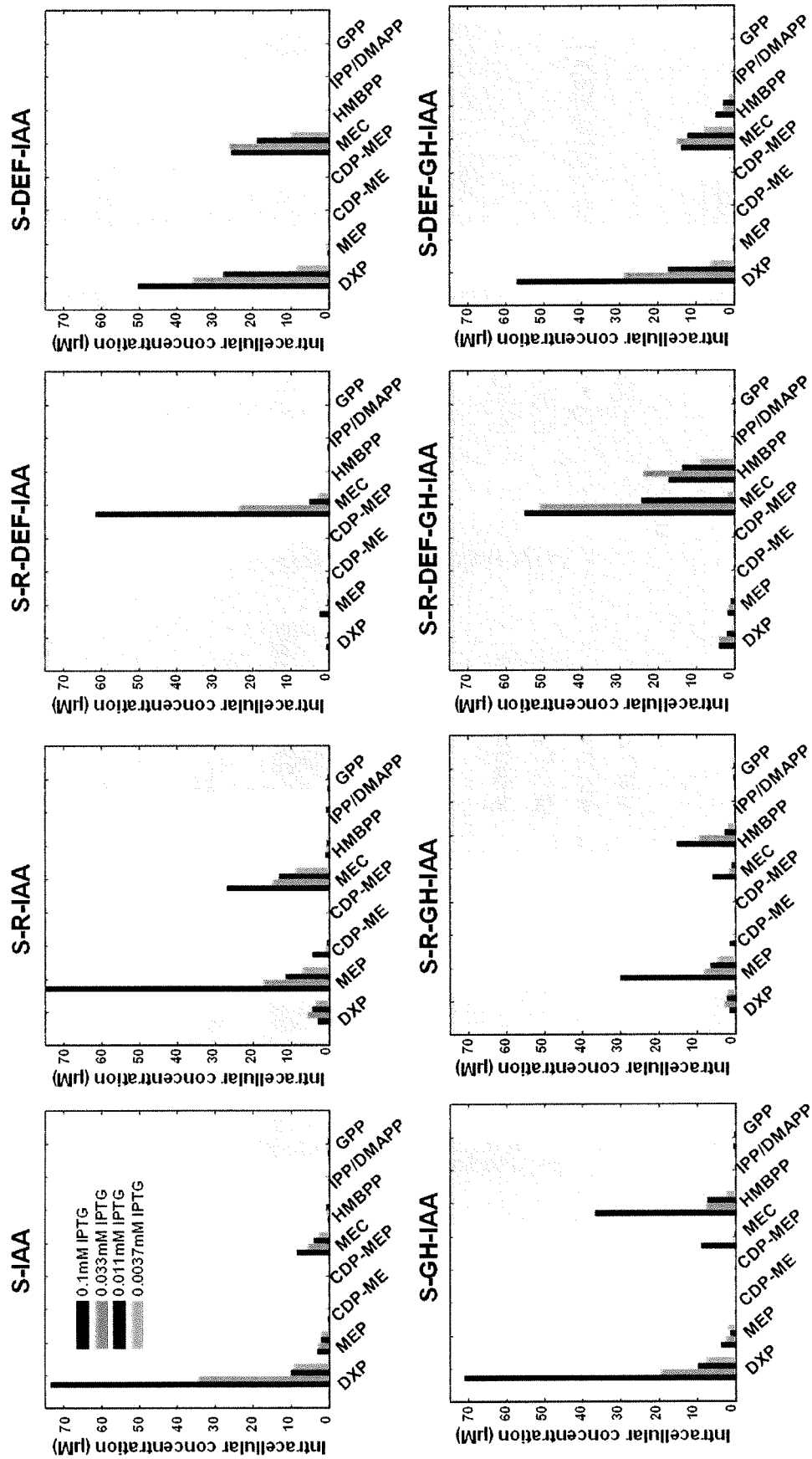


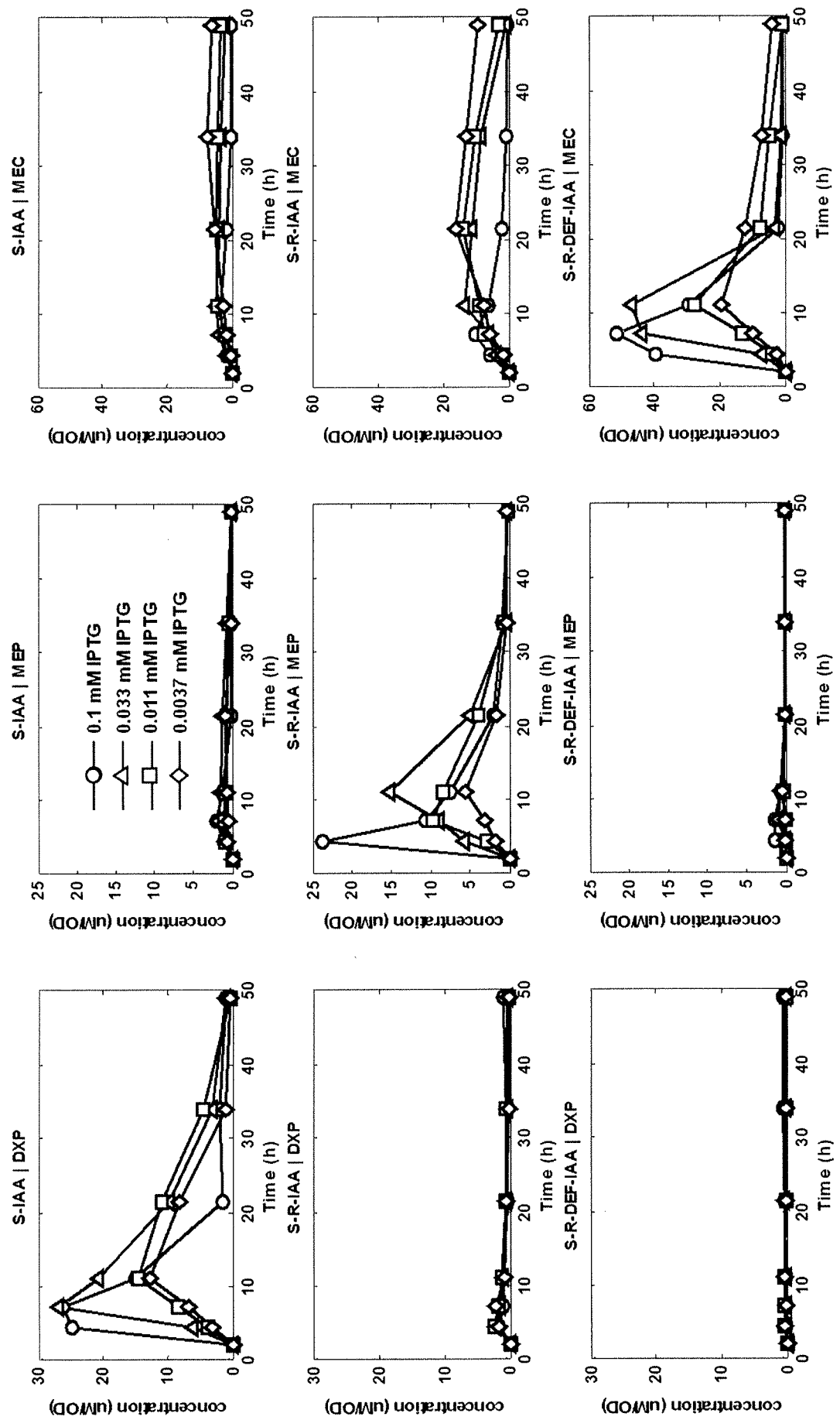
FIG. 24 A intracellular metabolites ($\mu\text{M}/\text{OD}$)

FIG. 24B extracellular concentration (μM)

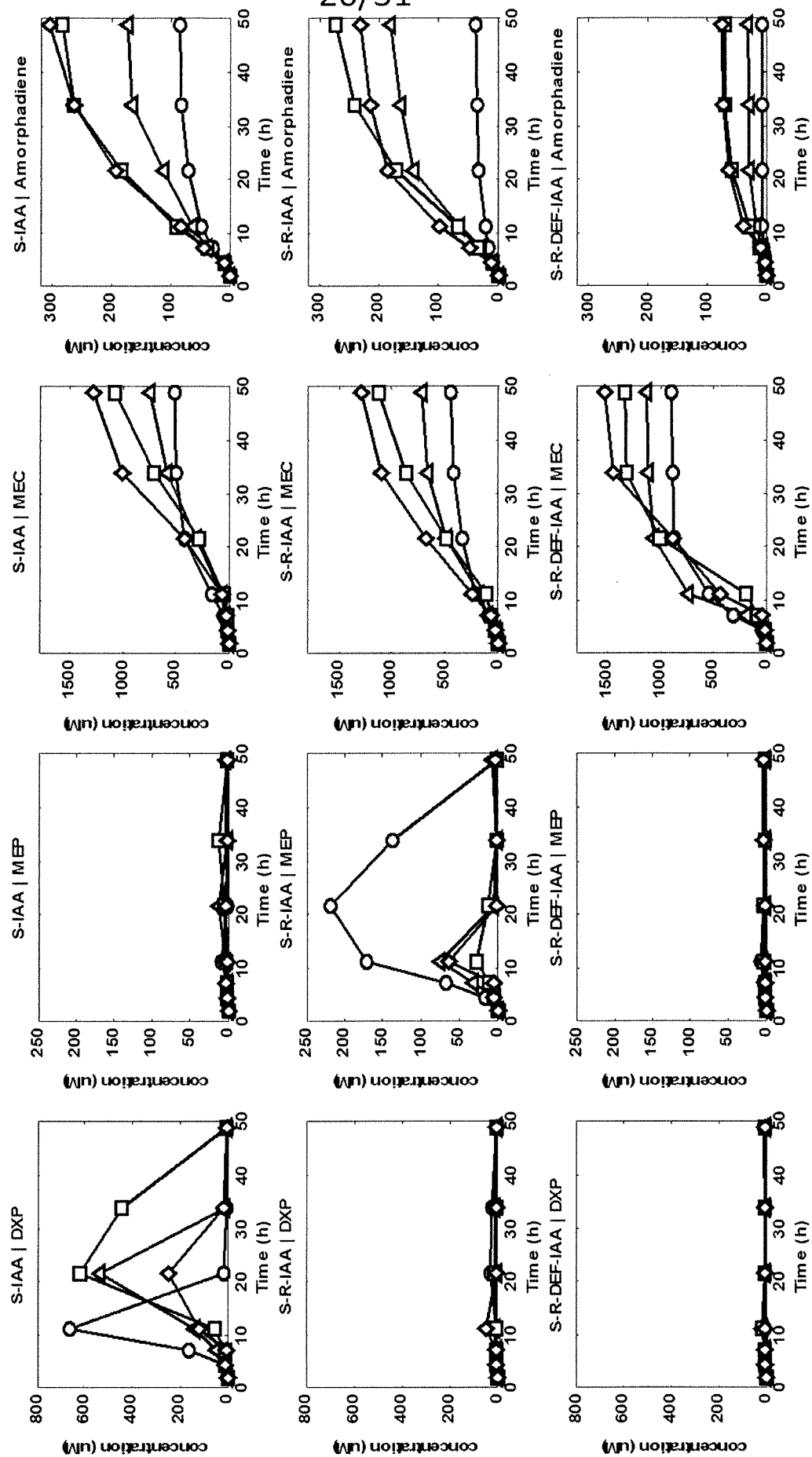
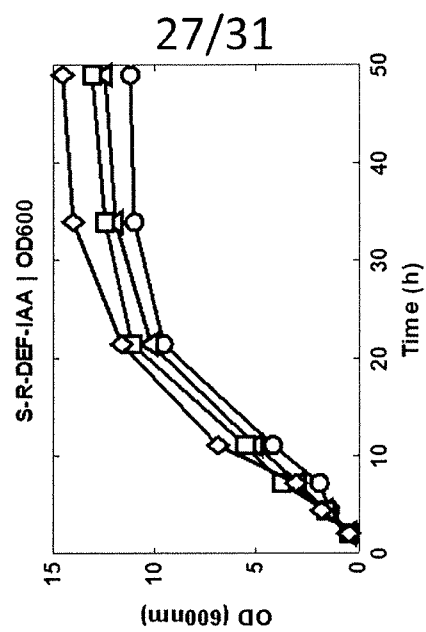
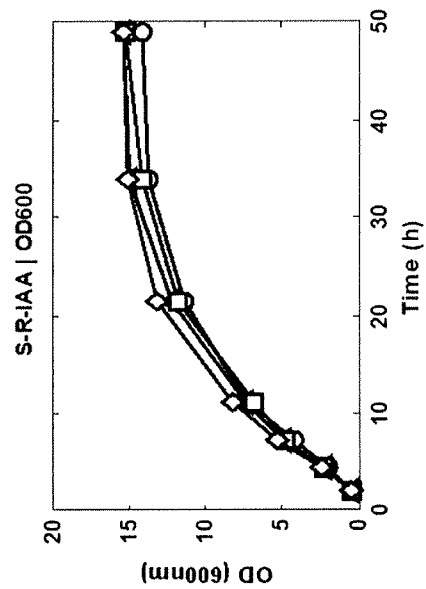
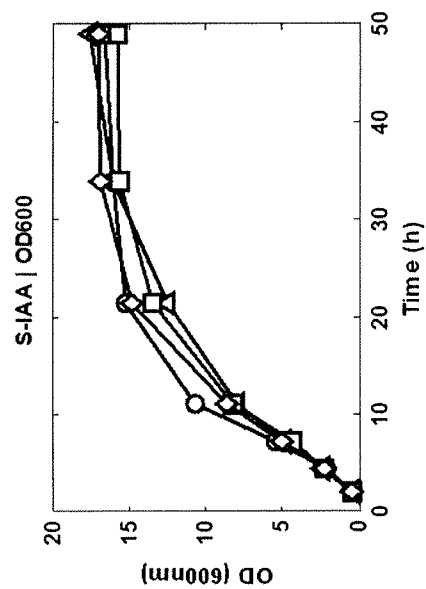


FIG. 24C Cell density (OD600)



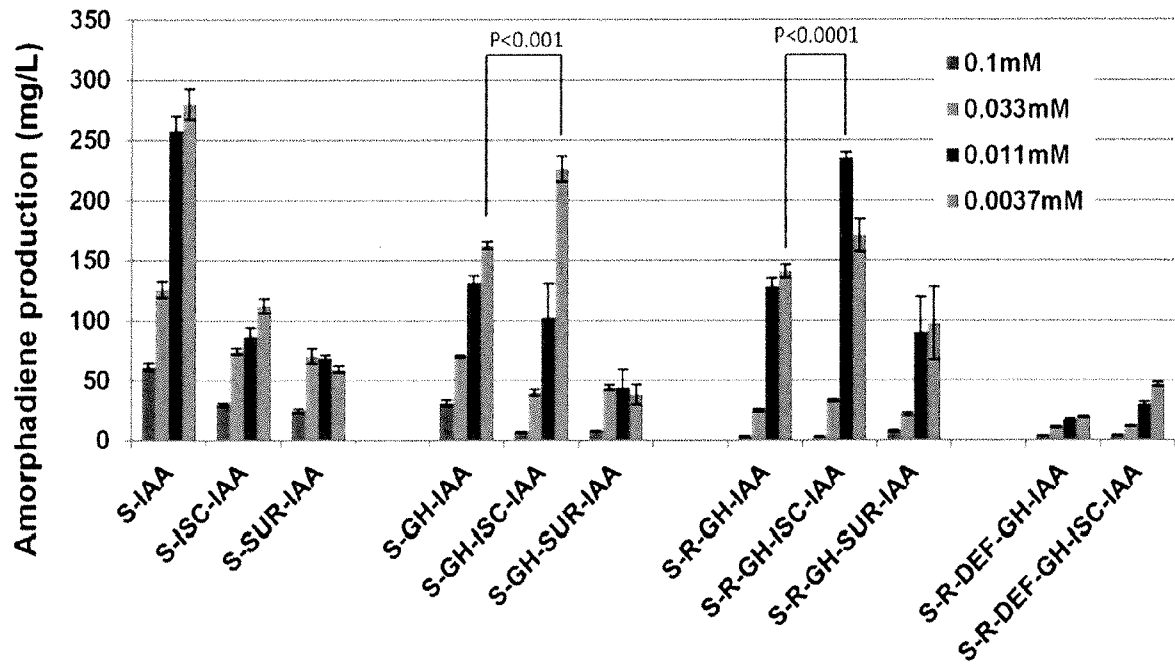


FIG. 25

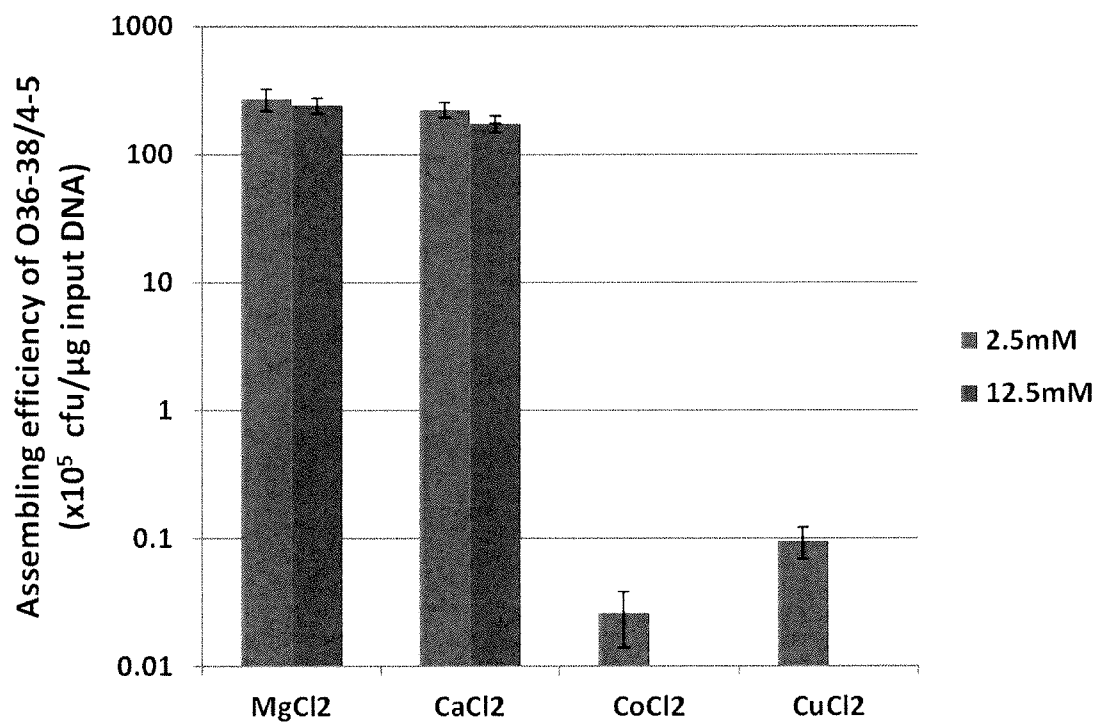


FIG. 26

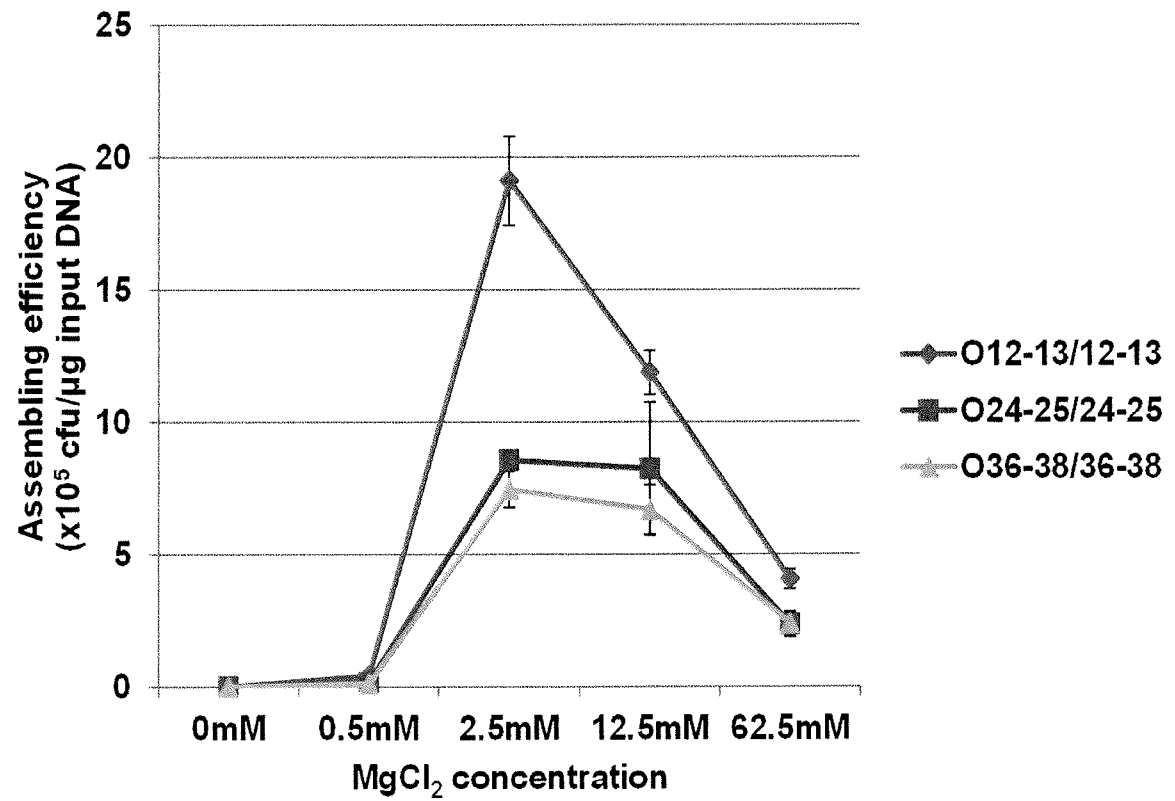


FIG. 27

atgtctctgactgaggaaaaaccaatccgtccgatcgcaaactttcc
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acacctgatcaagtccctgctgggtttacccaatgtccatc

FIG. 28