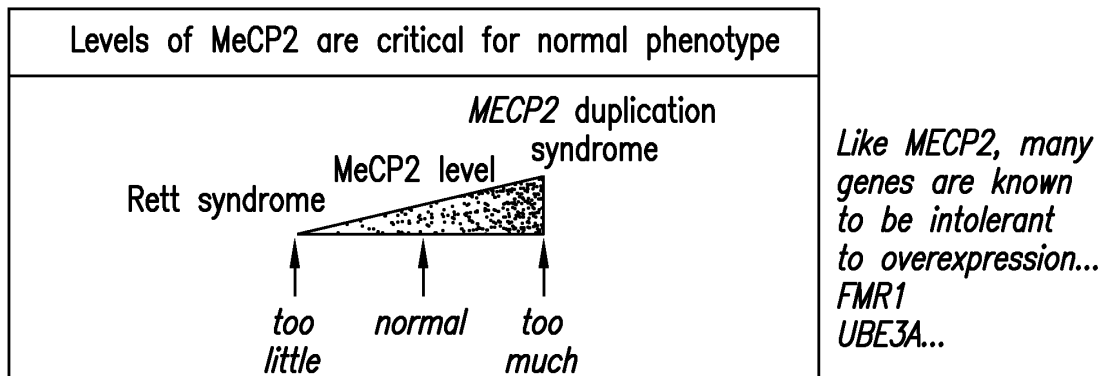


1/49



*For the MECP2 gene, deficiency can lead to neurological disease but too much expression can be deleterious also.*

FIG.1

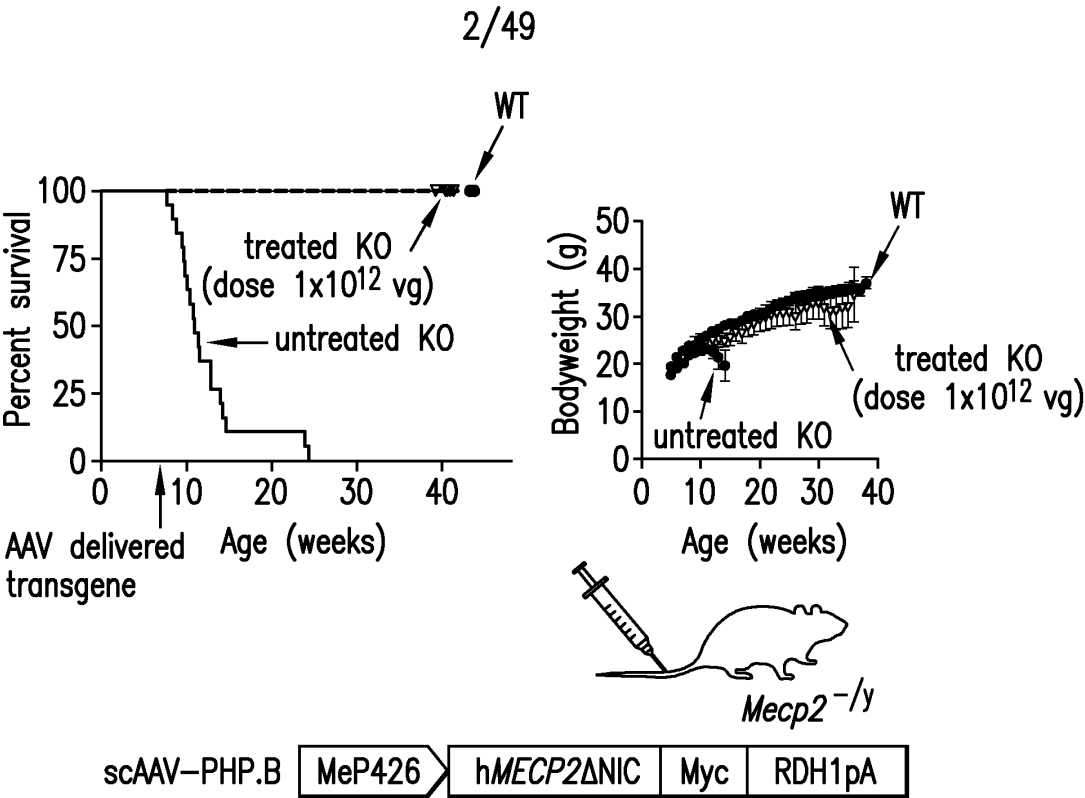


FIG.2A

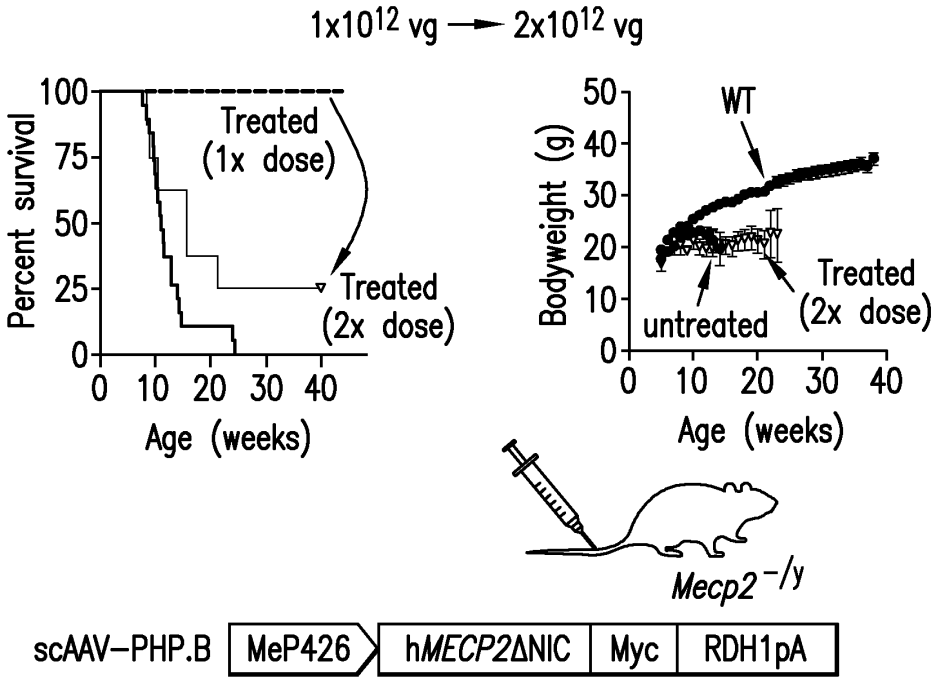
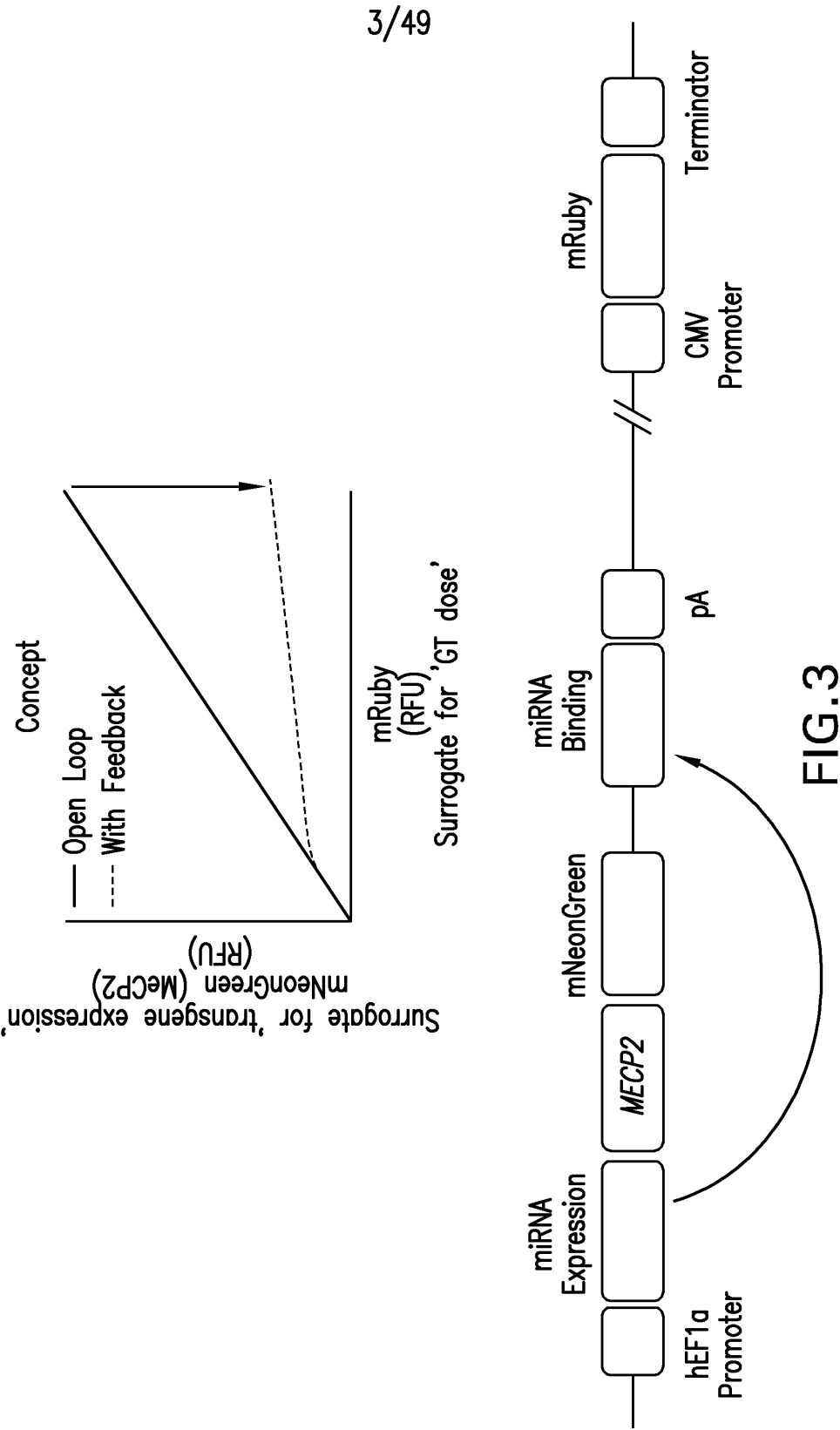


FIG.2B



4/49

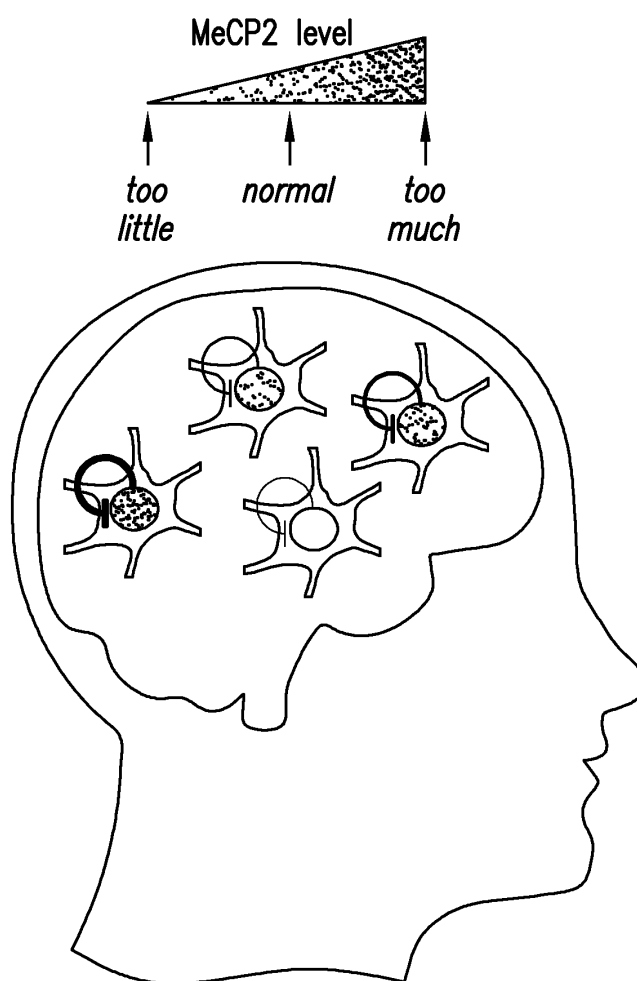


FIG.4

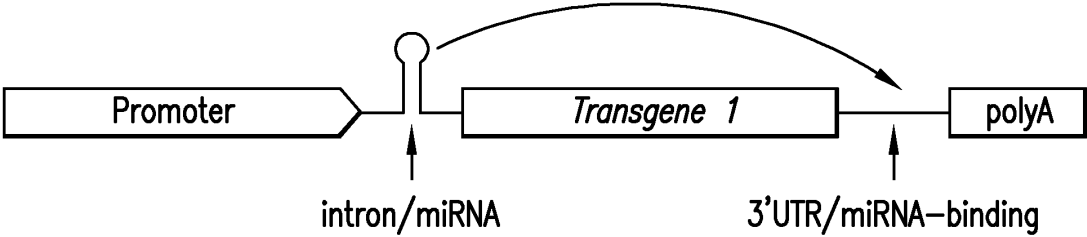


FIG.5A

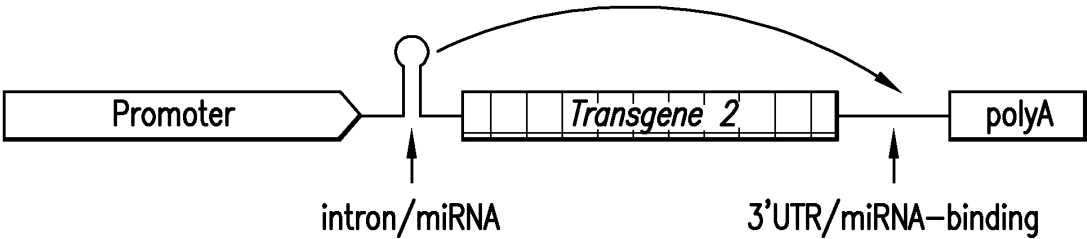
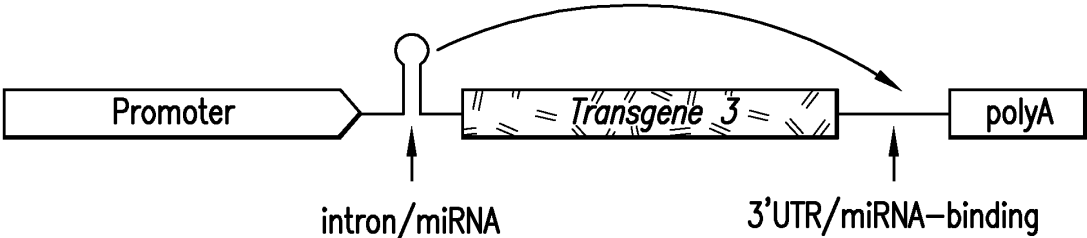


FIG.5B

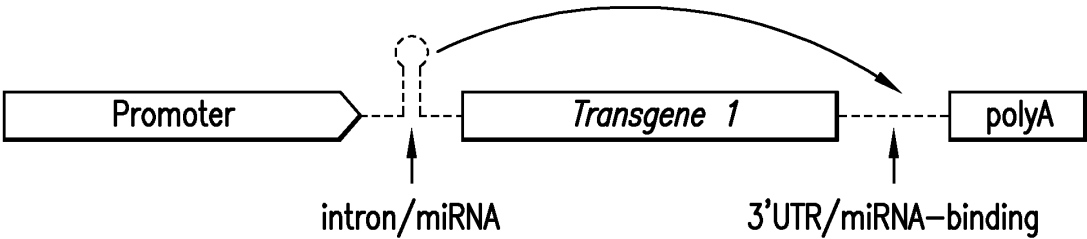


FIG.5C

6/49

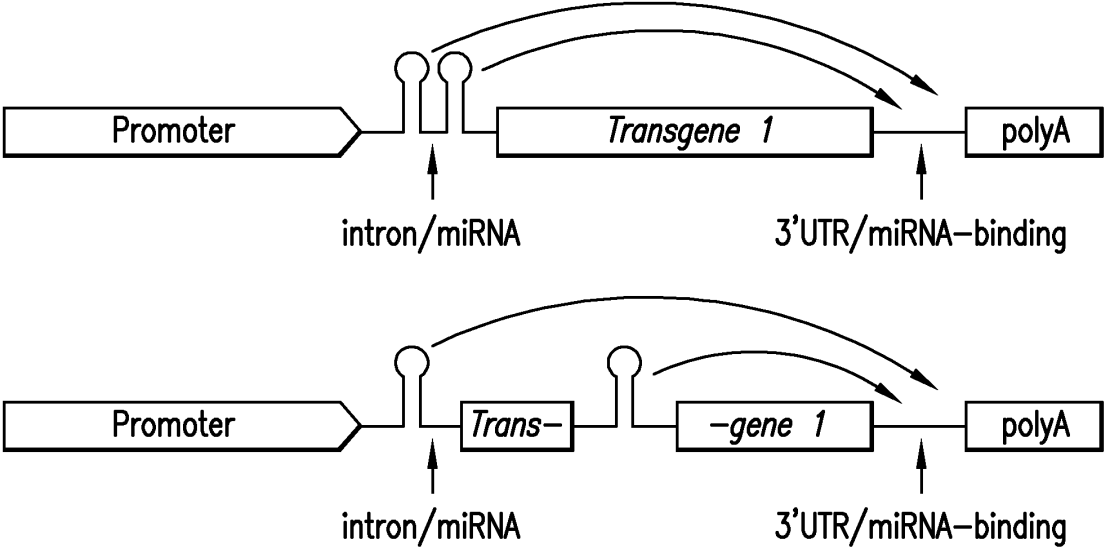


FIG.5D

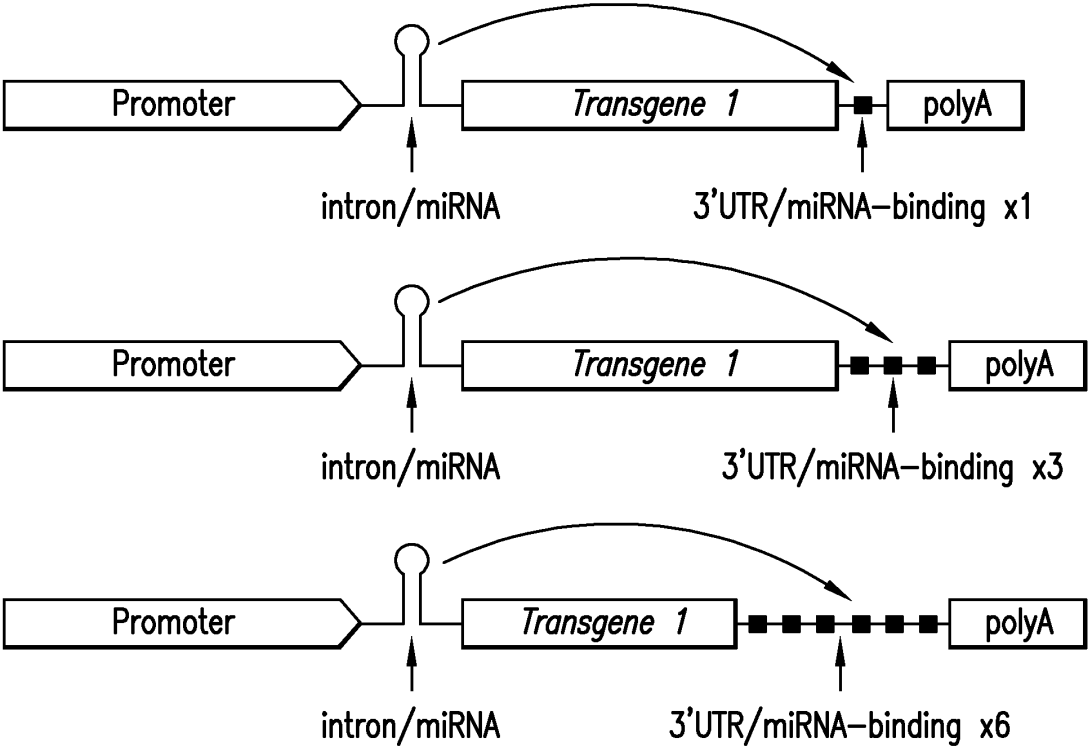


FIG.5E

7/49

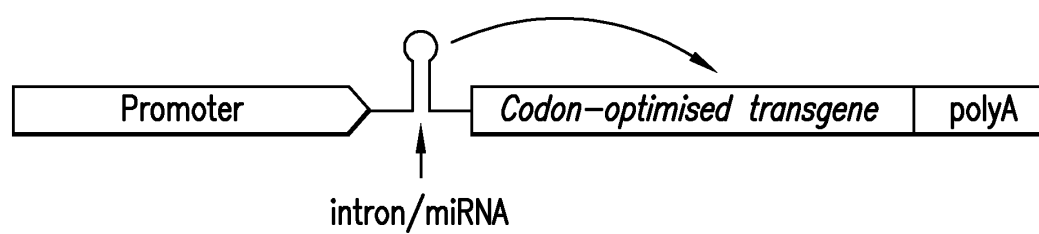


FIG. 6

8/49

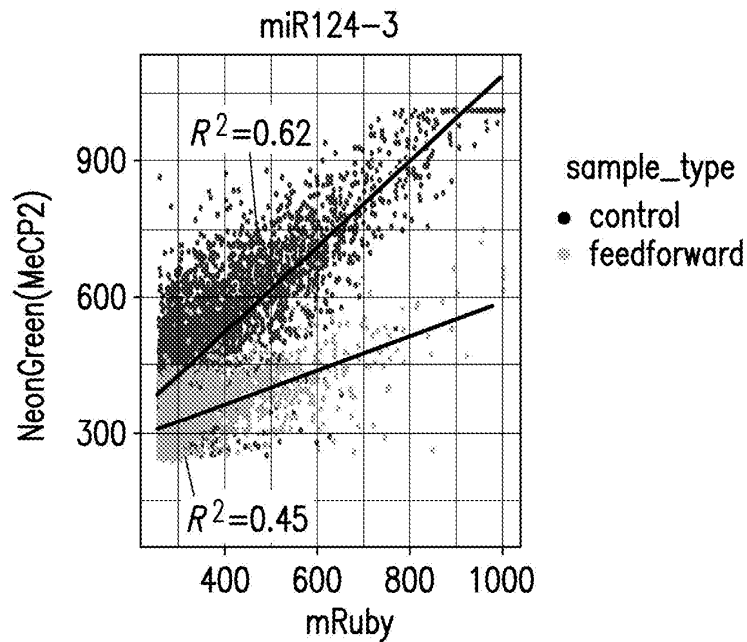


FIG.7A

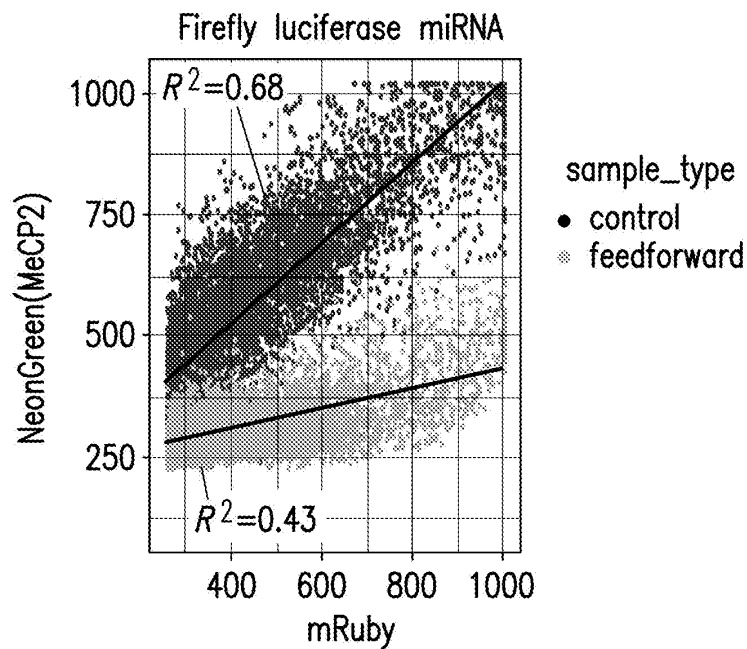


FIG.7B

9/49

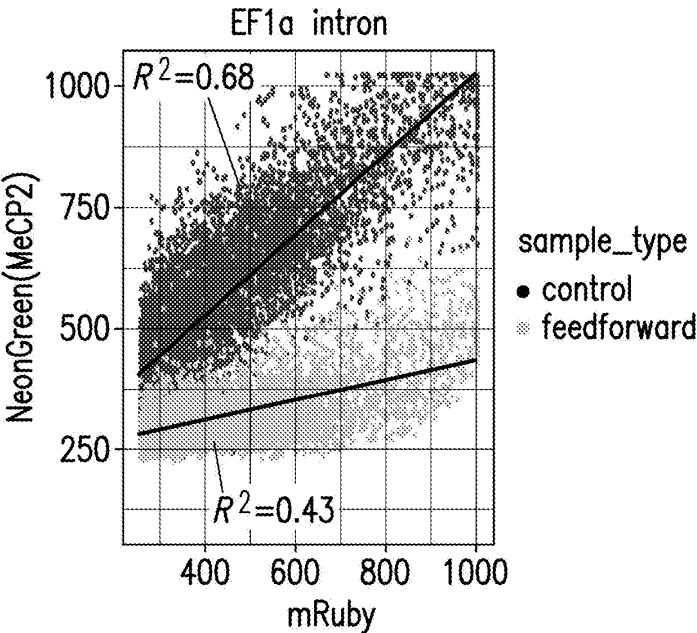


FIG.8A

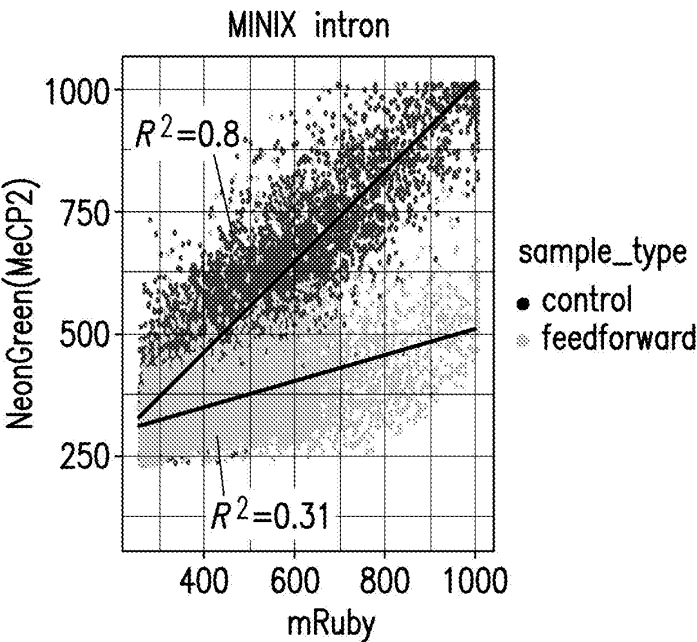


FIG.8B

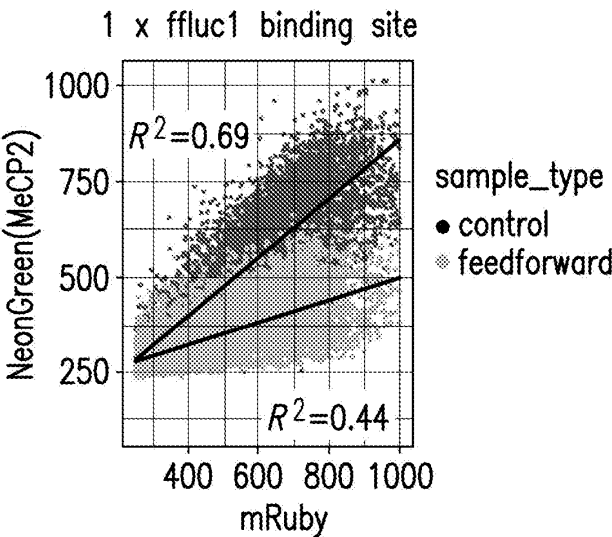


FIG.9A

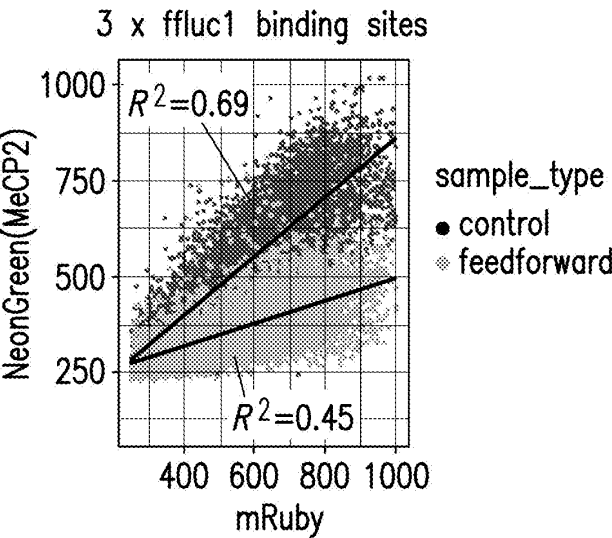


FIG.9B

11/49

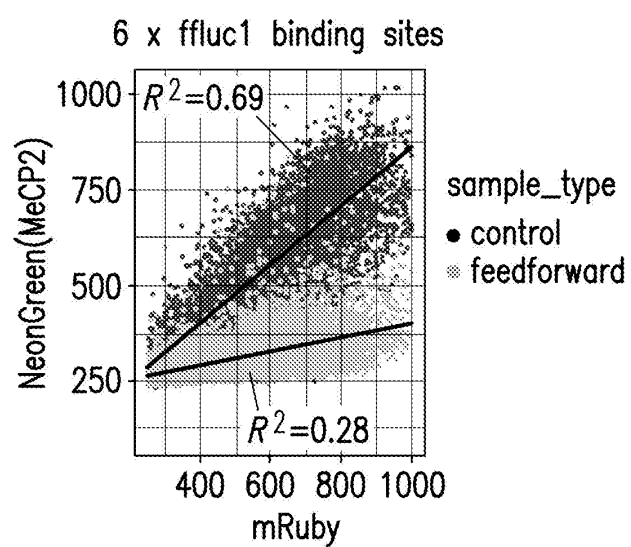


FIG.9C

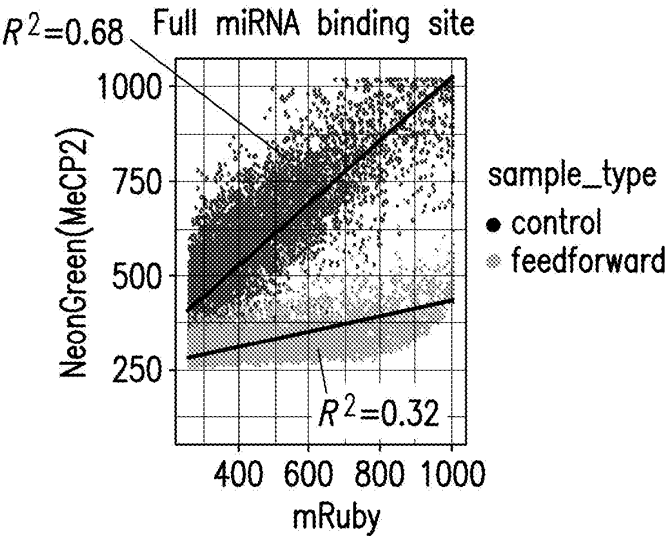


FIG.10A

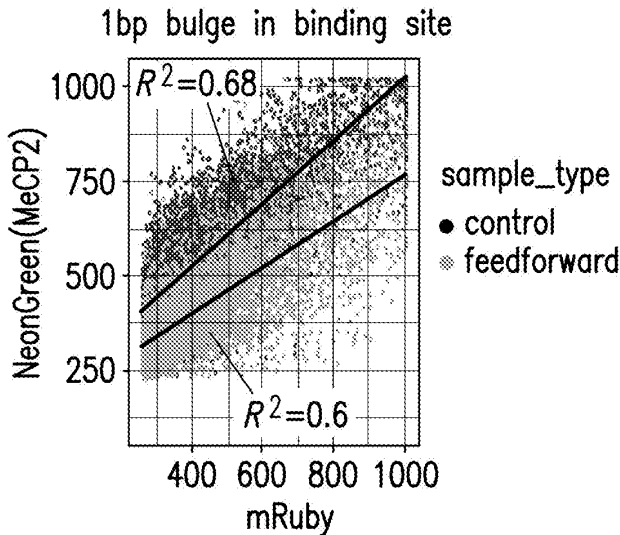


FIG.10B

13/49

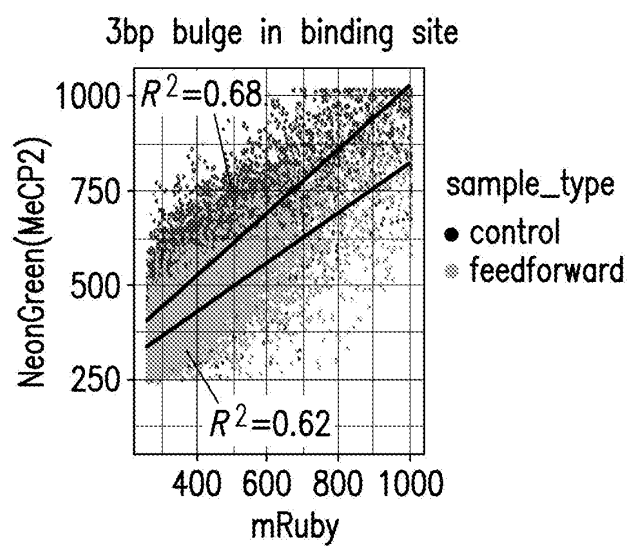


FIG.10C

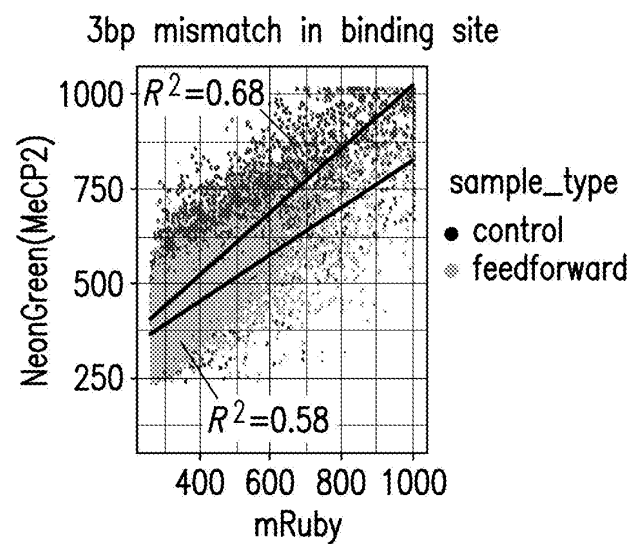


FIG.10D

14/49

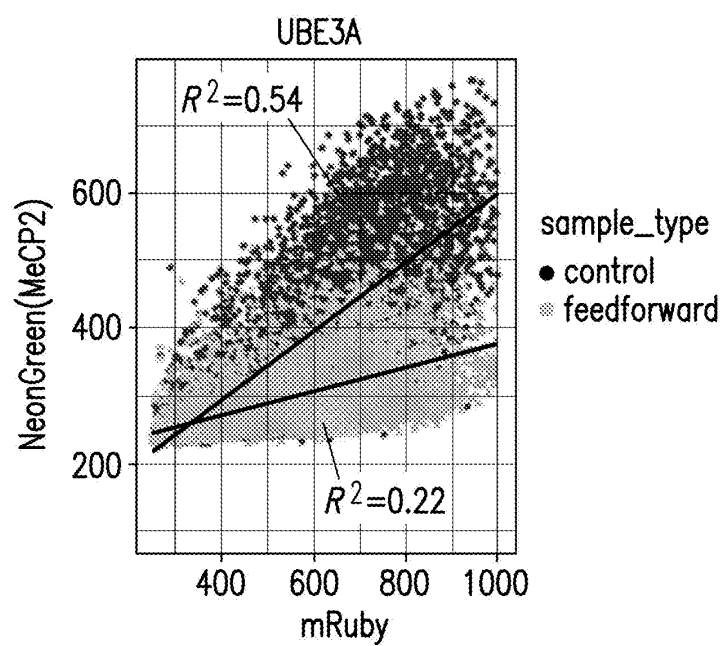
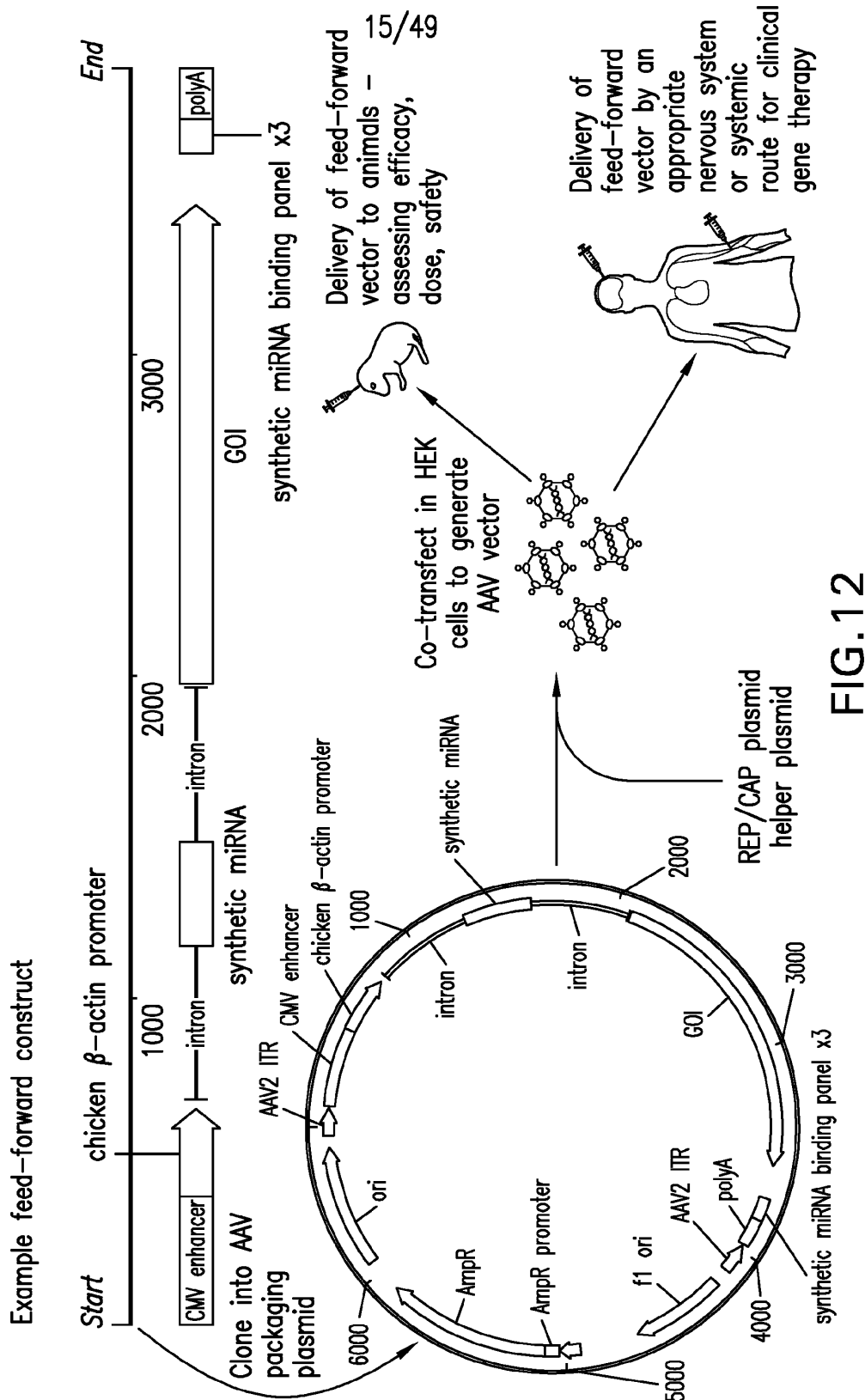


FIG. 11



16/49

Expected result

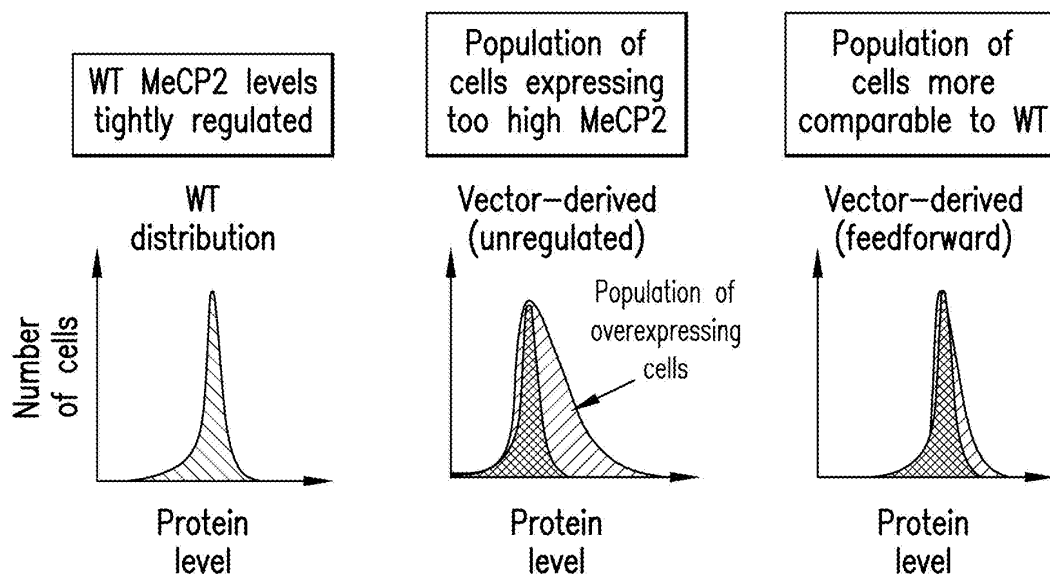


FIG.13A

Observed result

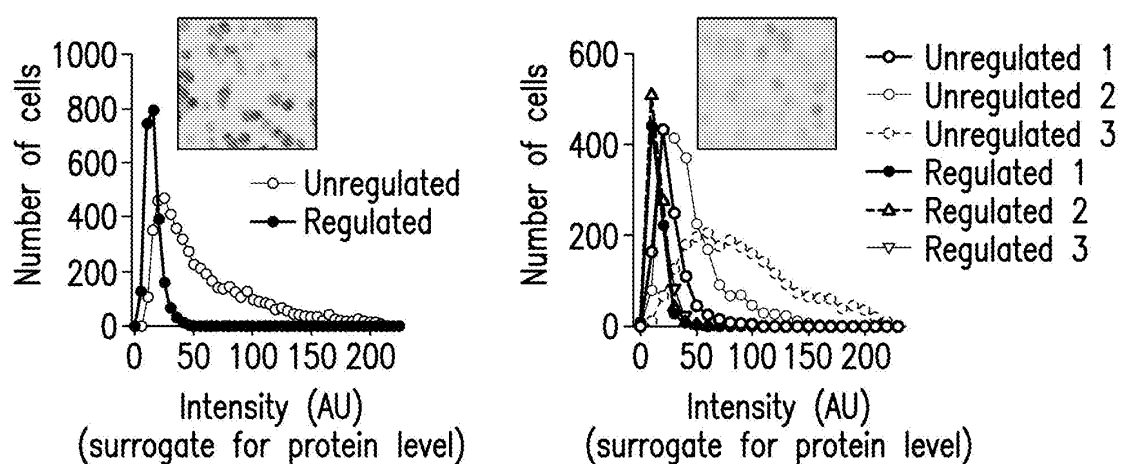


FIG.13B

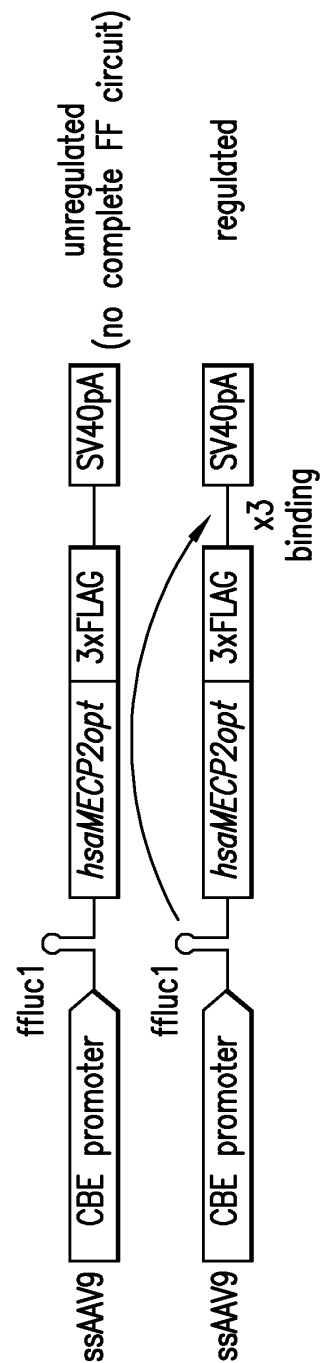


FIG. 13C

18/49

AAV9/MECP2-Flag-(regulated)

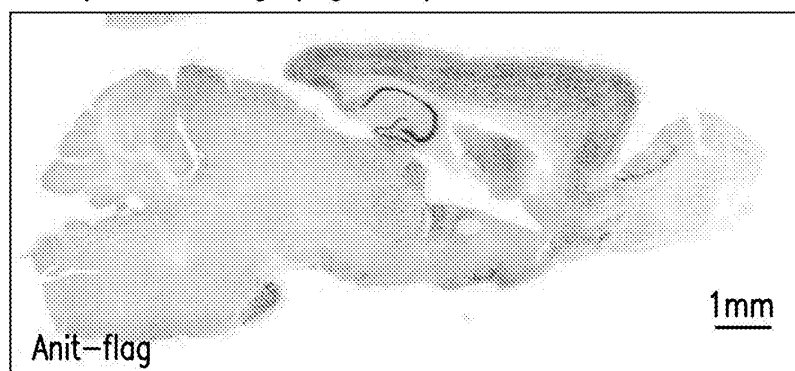


FIG.14A

AAV9/MECP2-Flag-(unregulated)

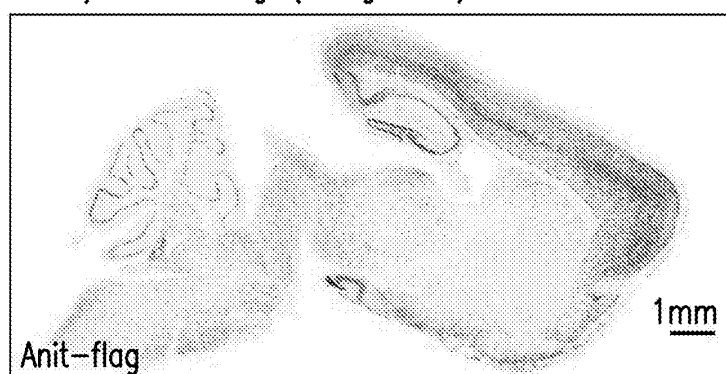


FIG.14B

19/49

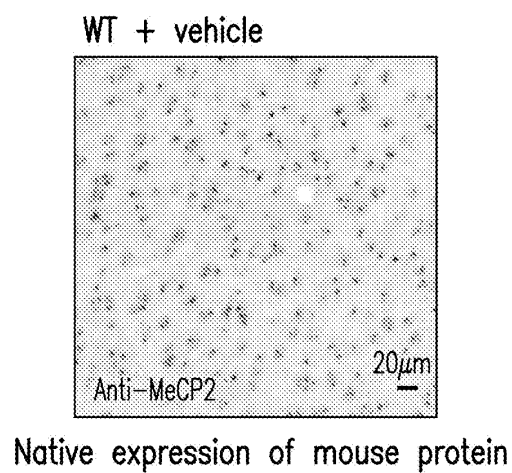


FIG.15A

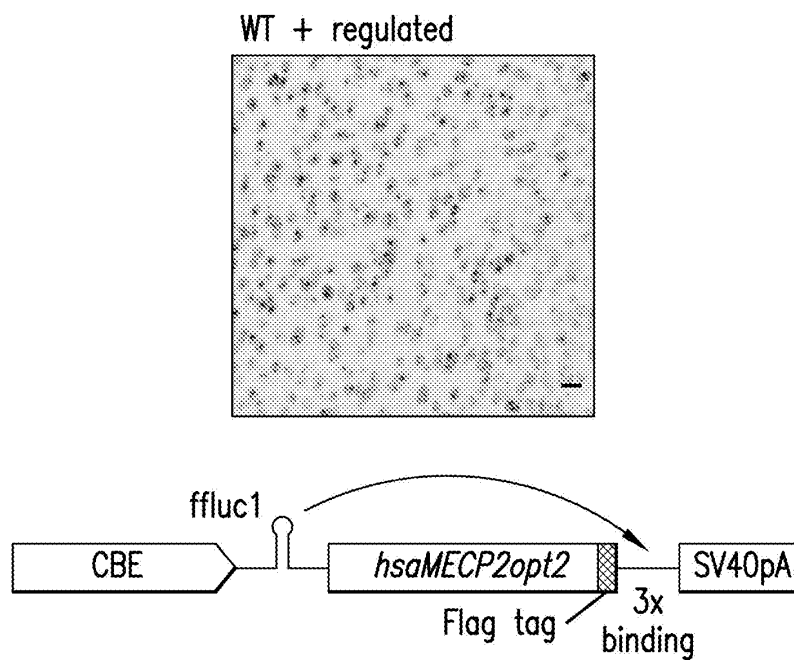


FIG.15B

20/49

WT + unregulated

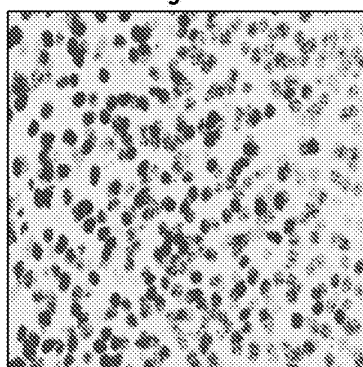
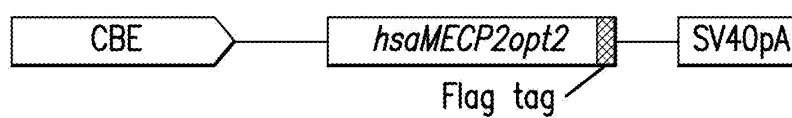


FIG.15C

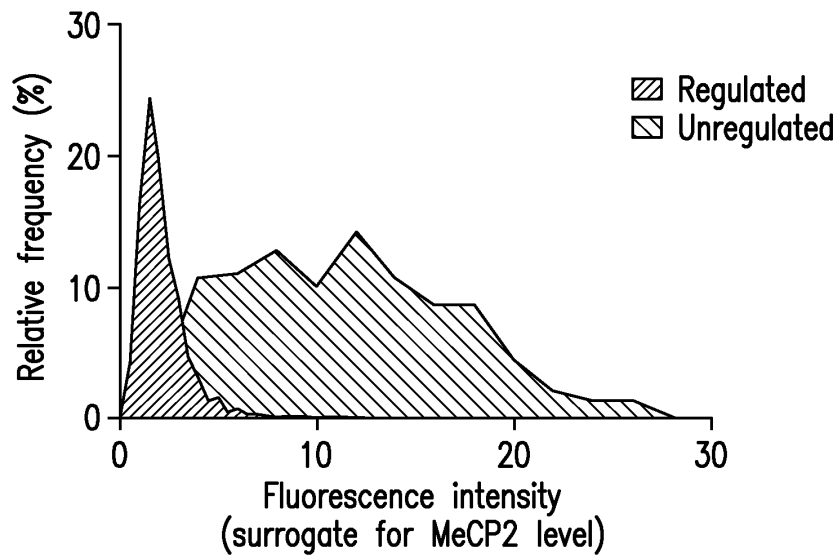


FIG.15D

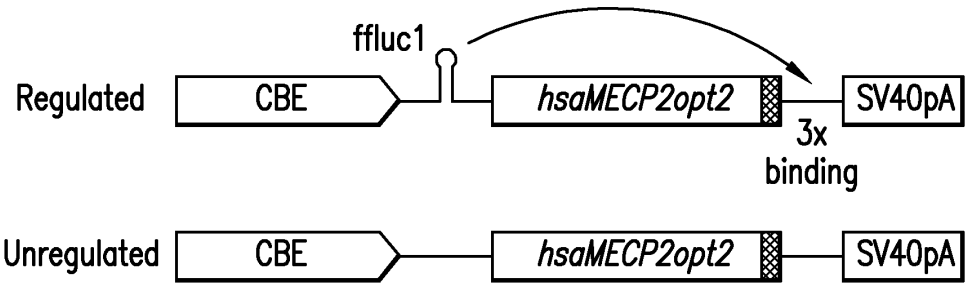


FIG.15E

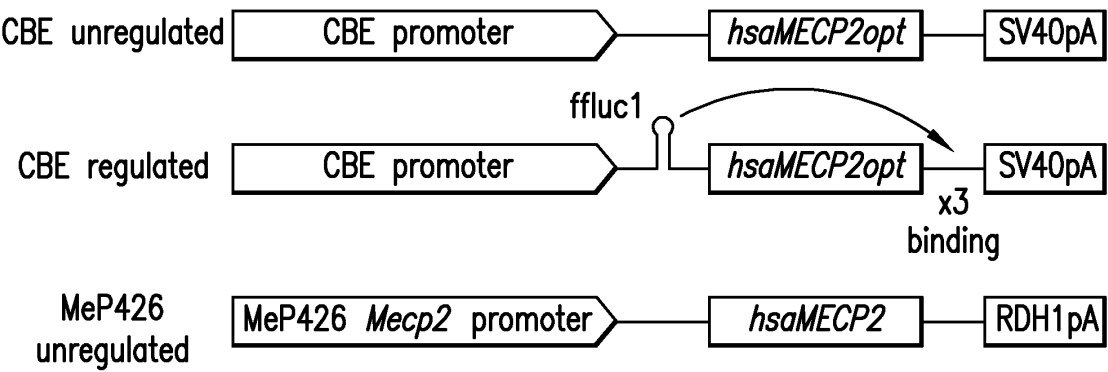


FIG.16A

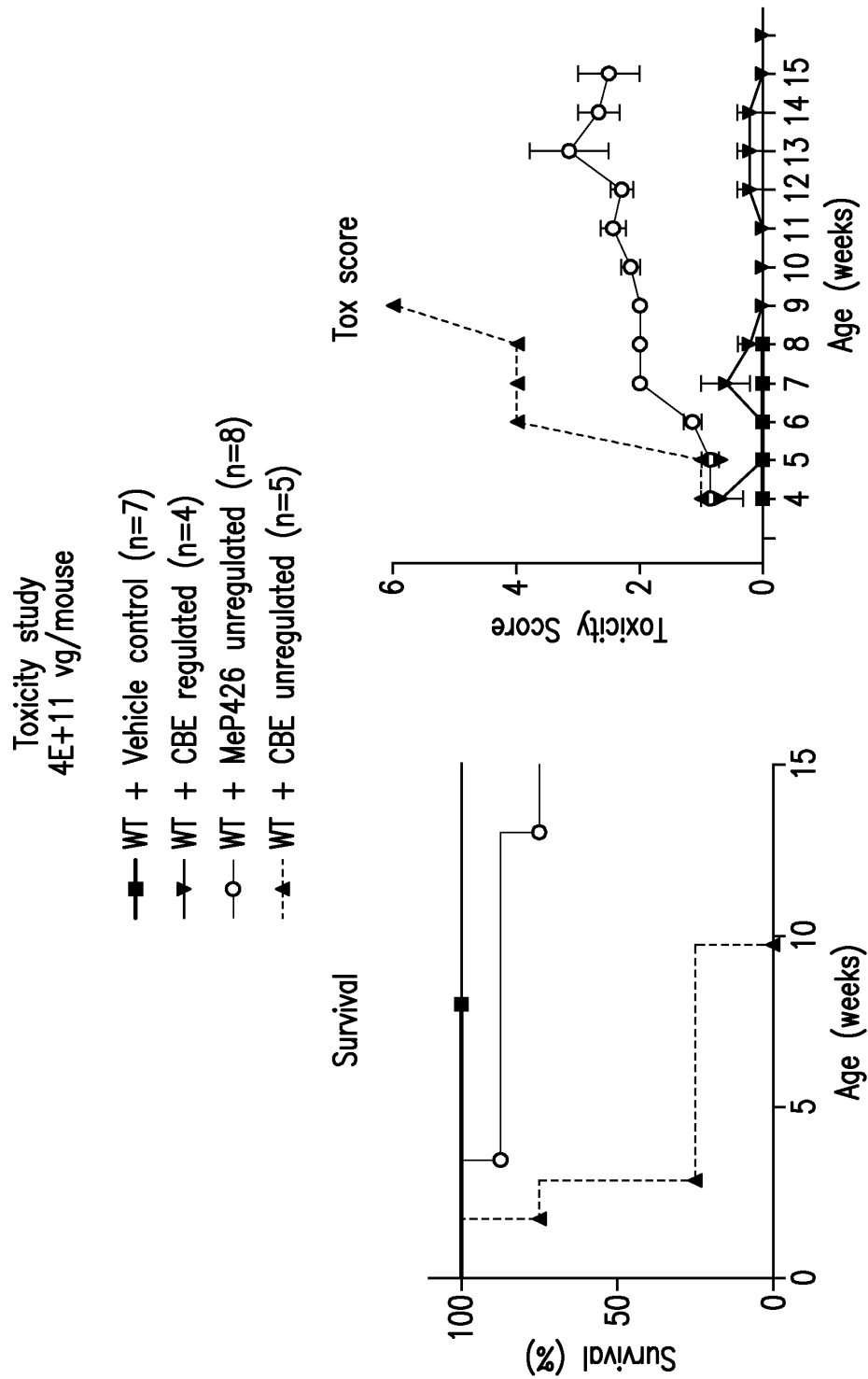


FIG.16B

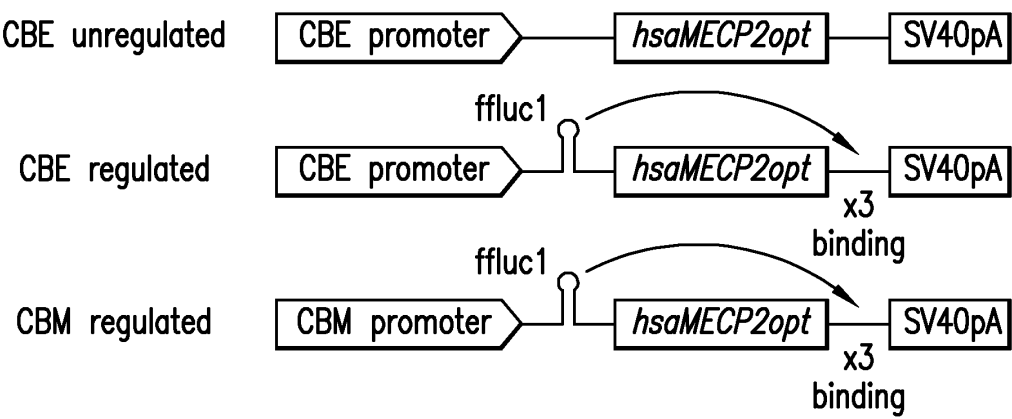


FIG.17A

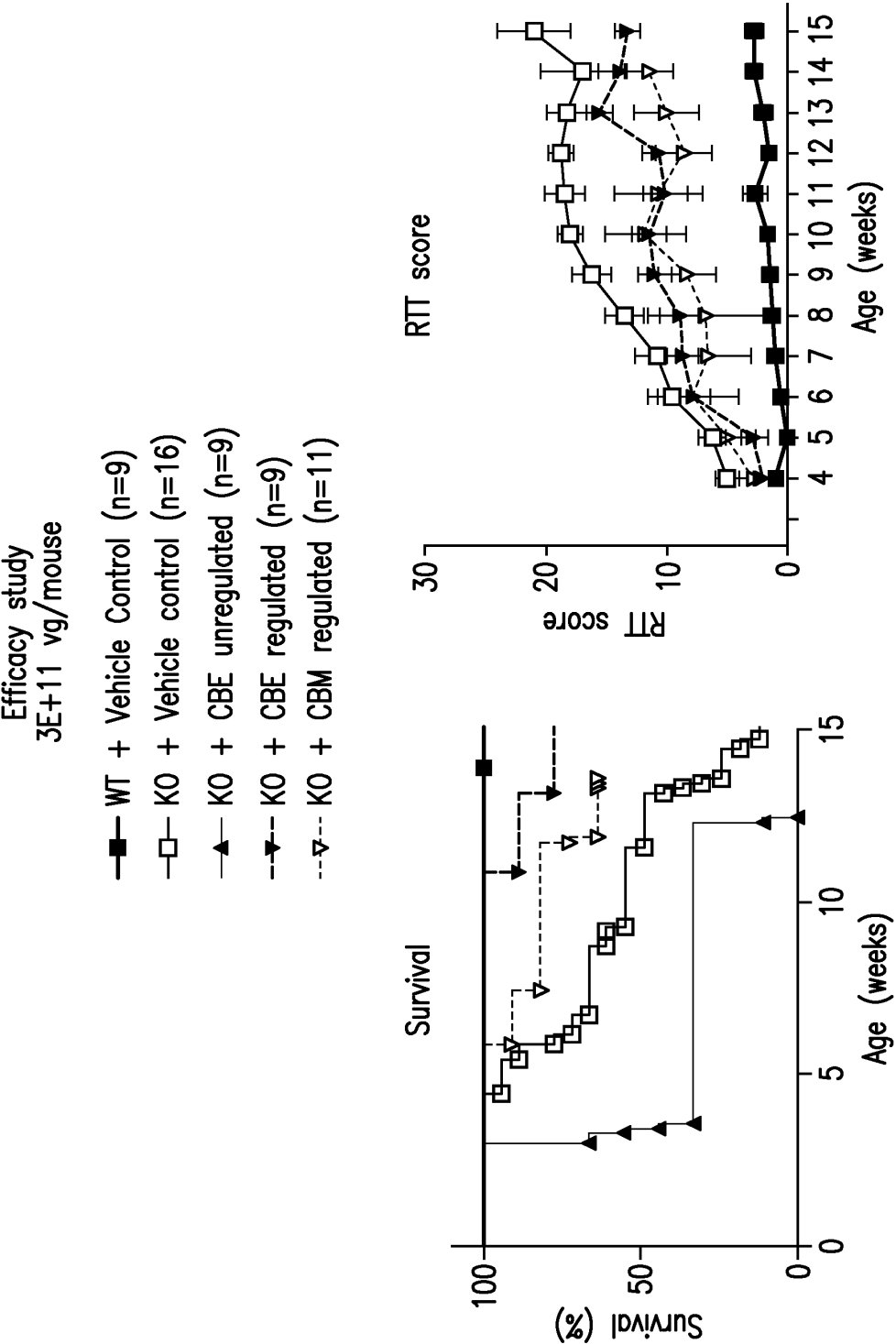


FIG.17B

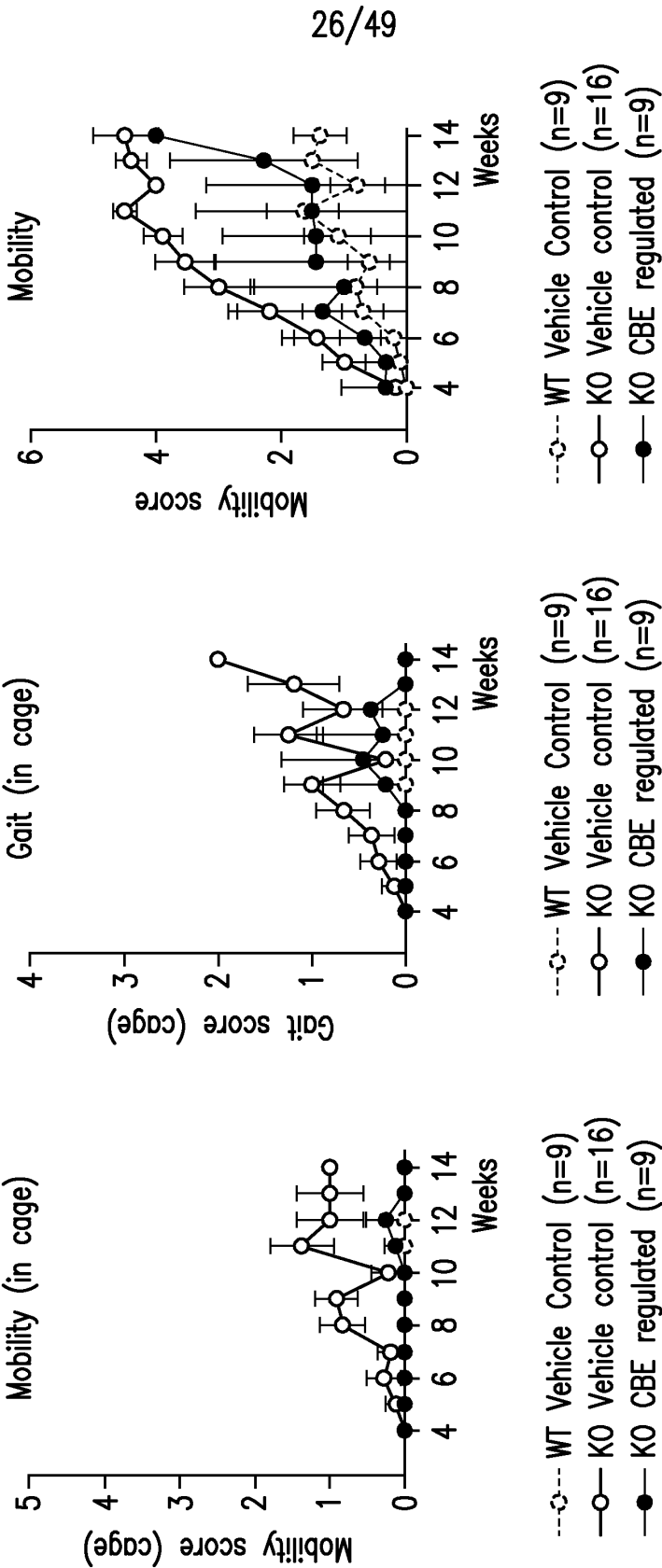


FIG.18A

FIG.18B

FIG.18C

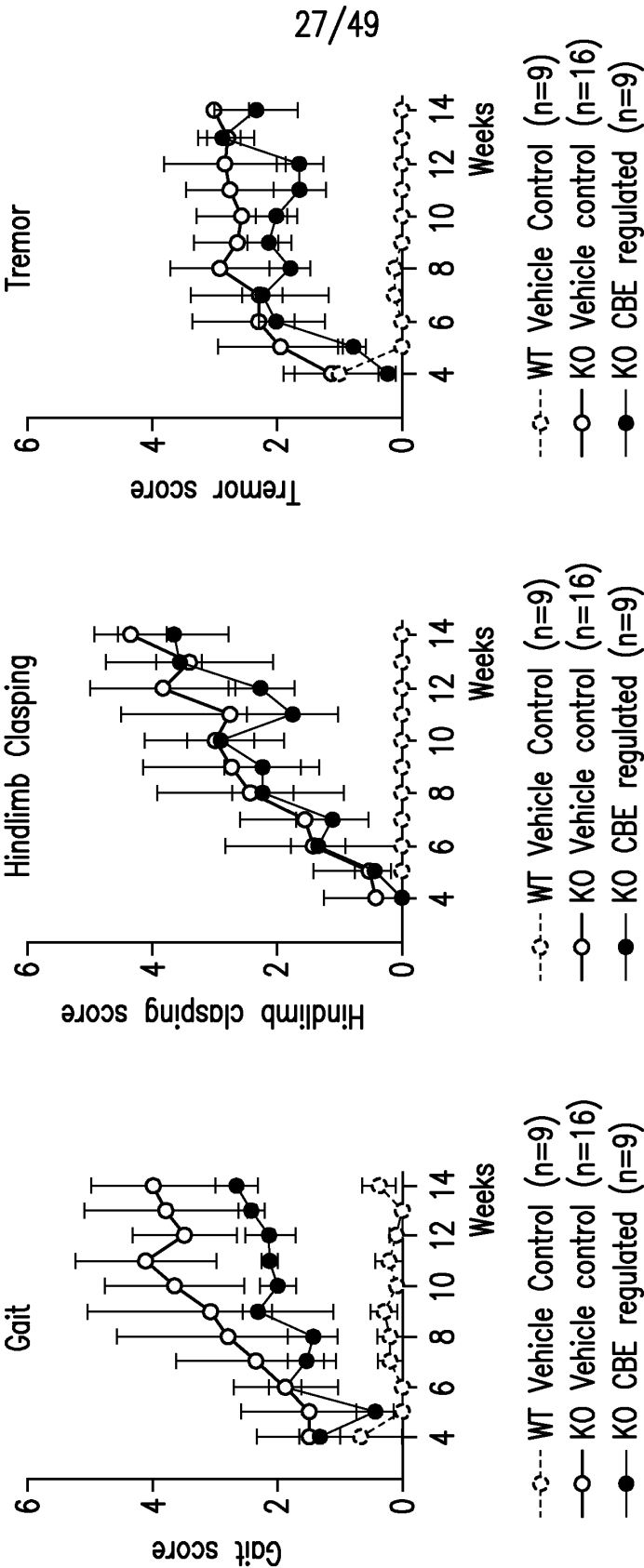


FIG.18D

FIG.18E

FIG.18F

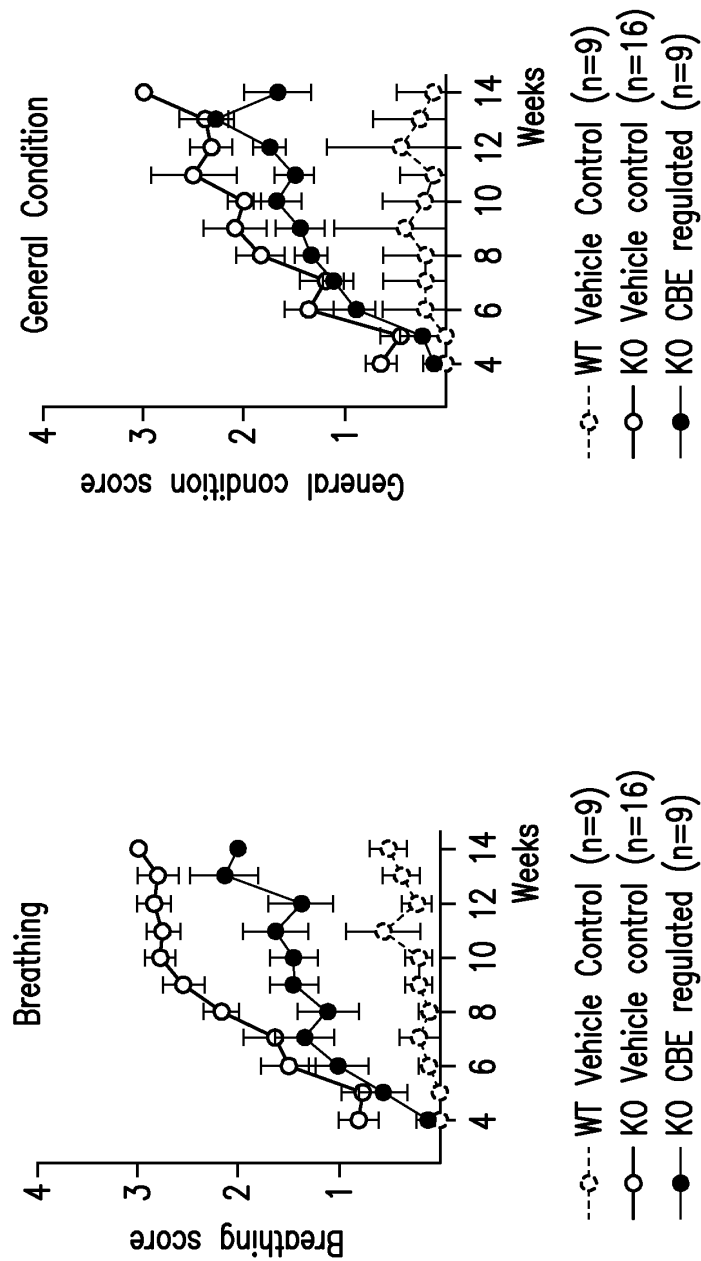


FIG. 18H

FIG. 18G

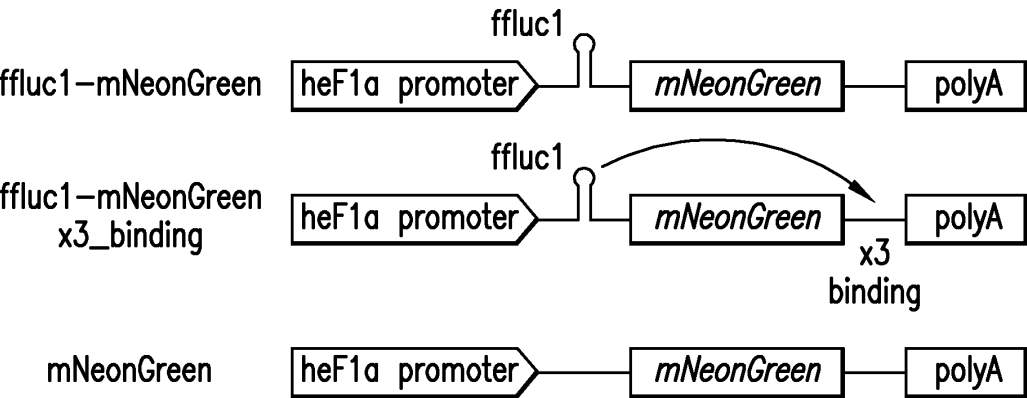


FIG.19A

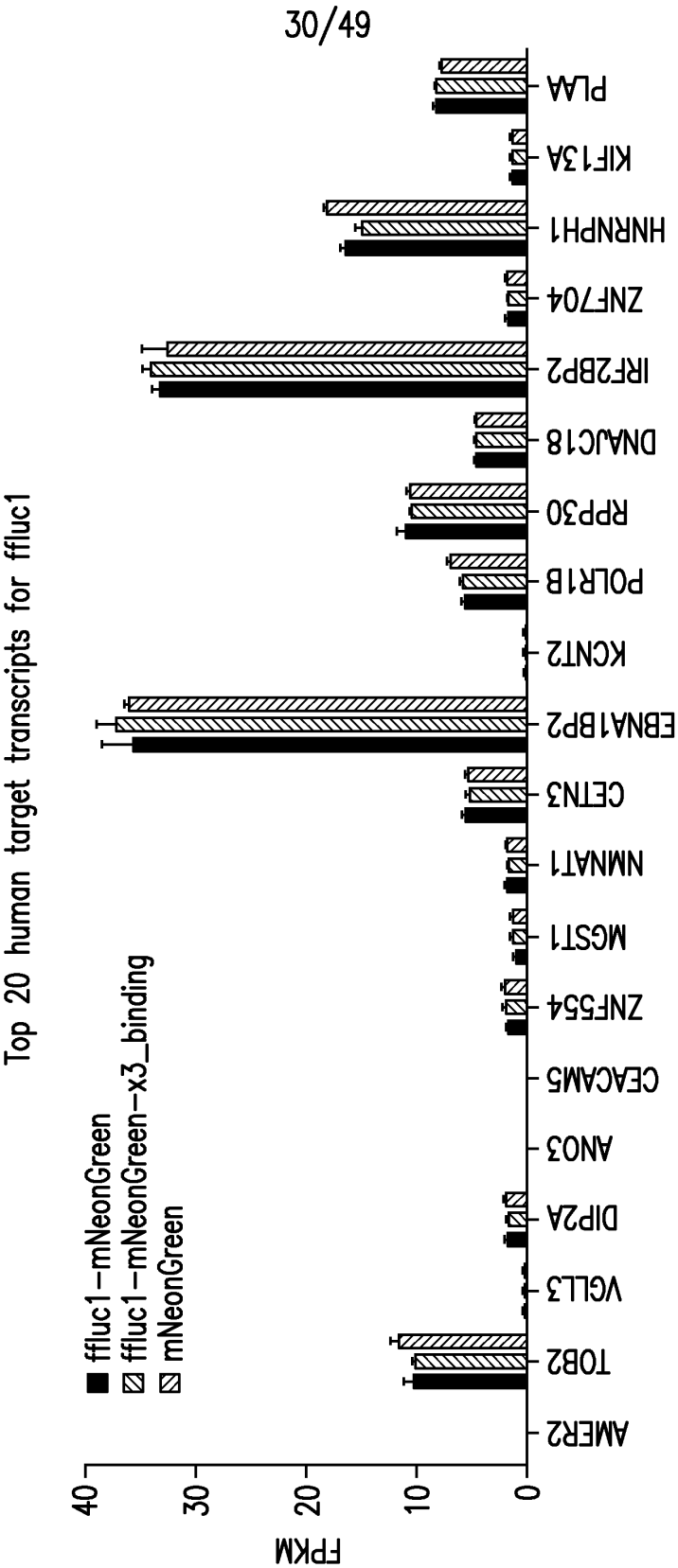


FIG.19B

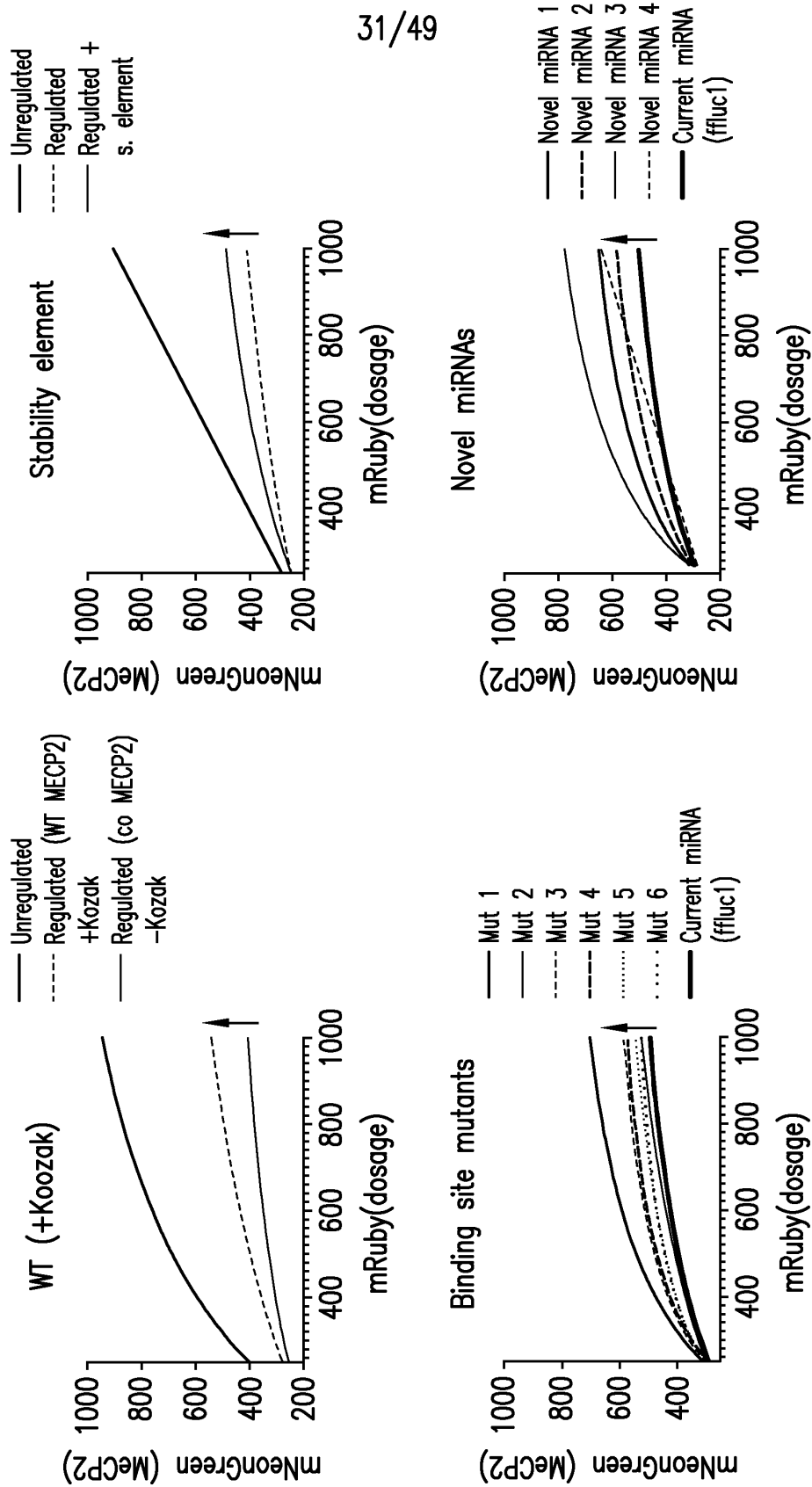


FIG.20

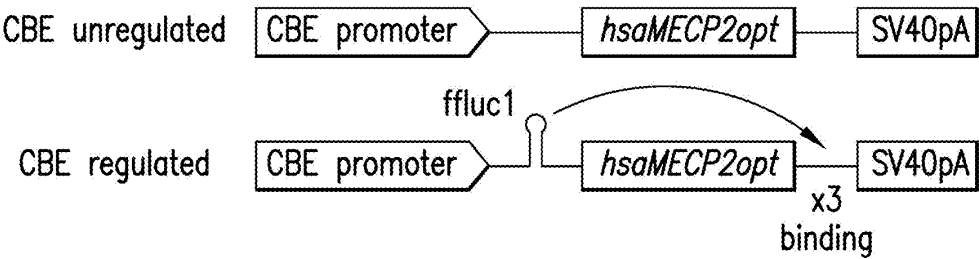


FIG.21A

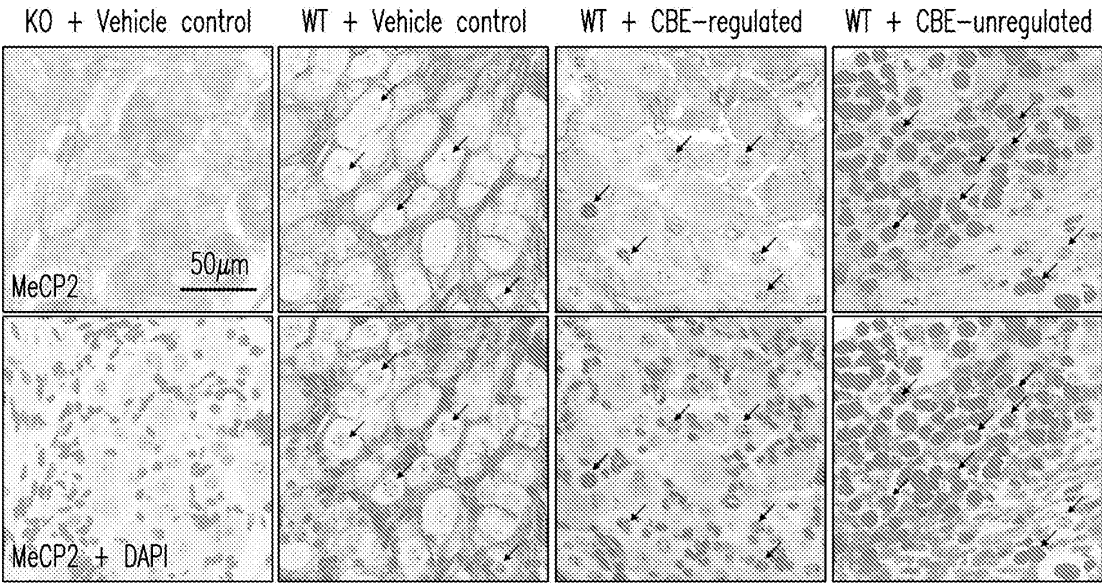


FIG.21B

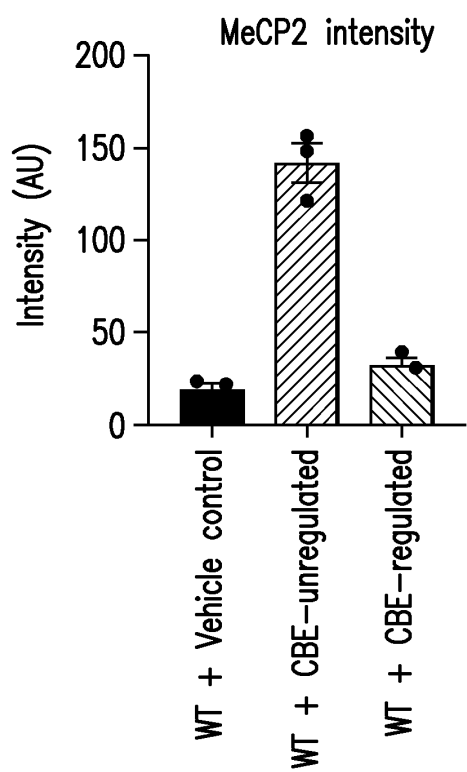


FIG.21C

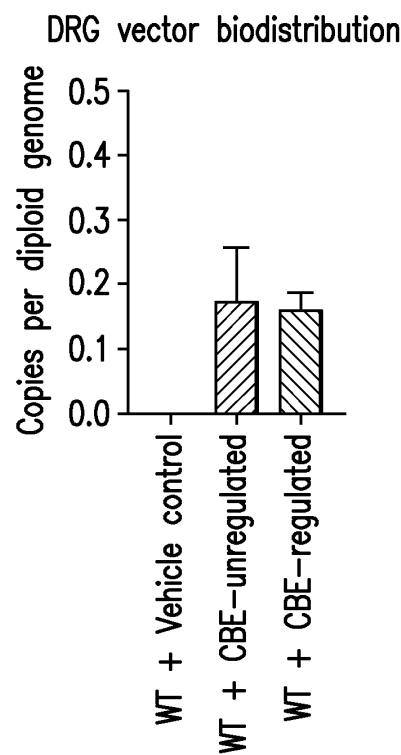


FIG.21D

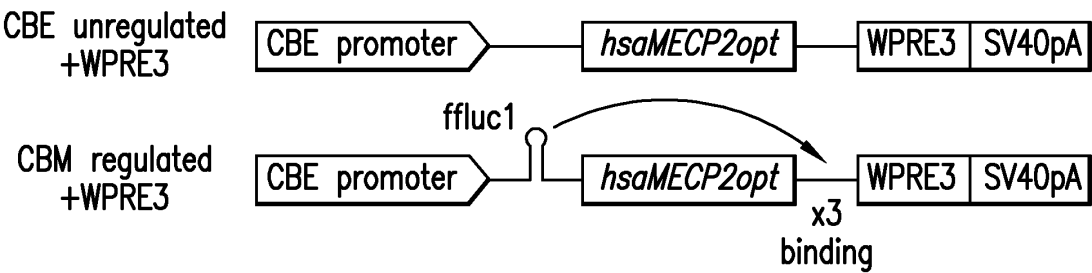


FIG.22A

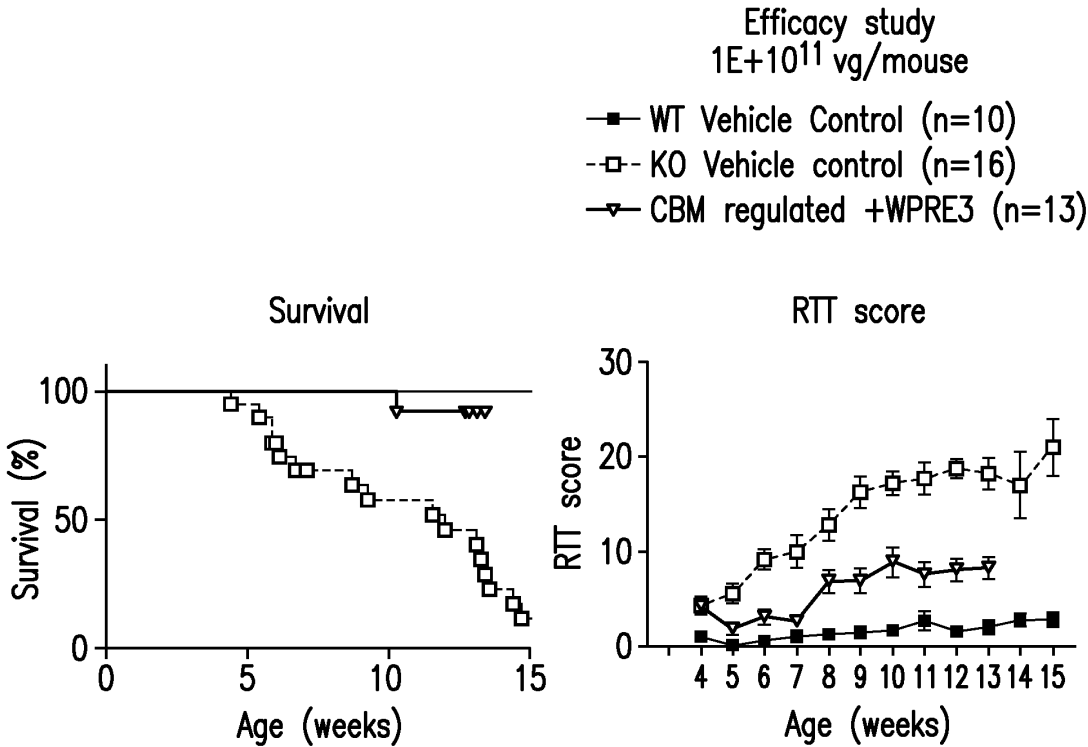


FIG.22B

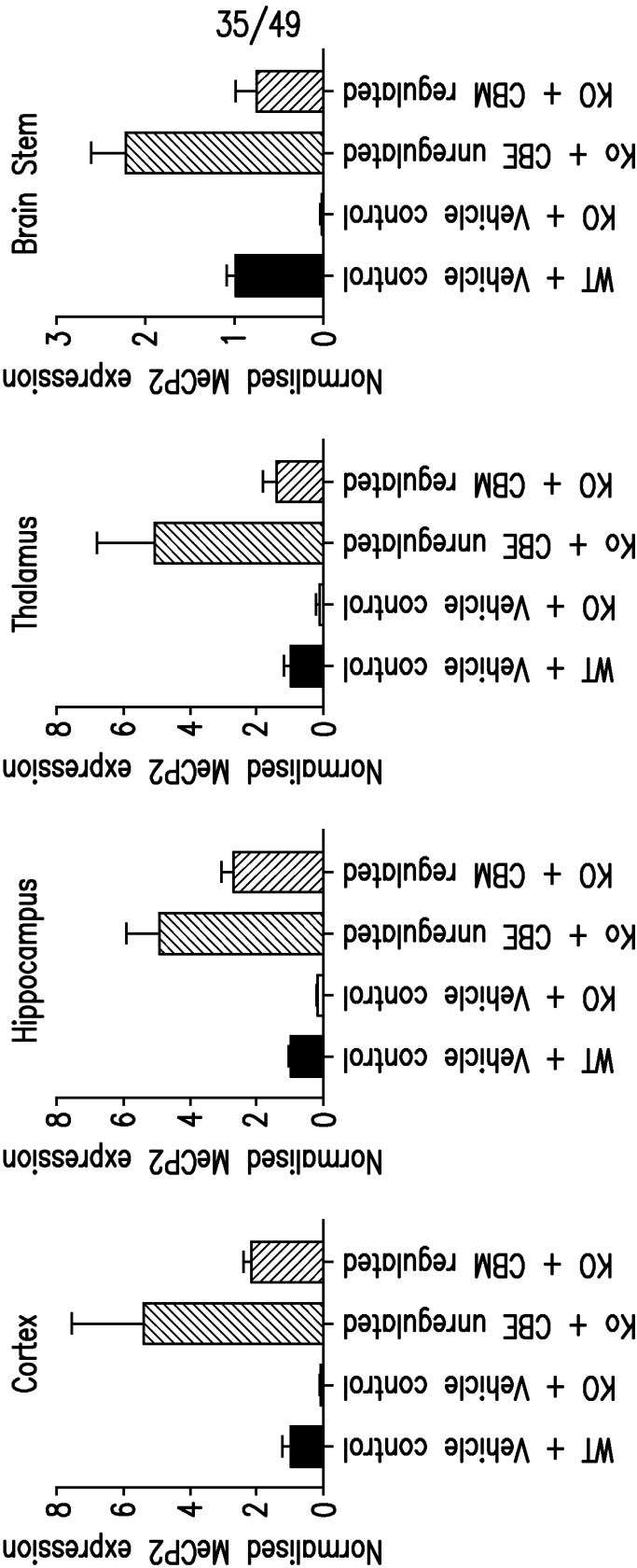


FIG.22C

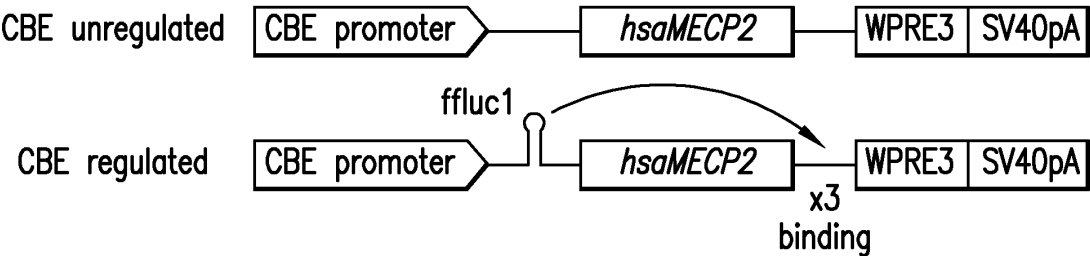


FIG.23A

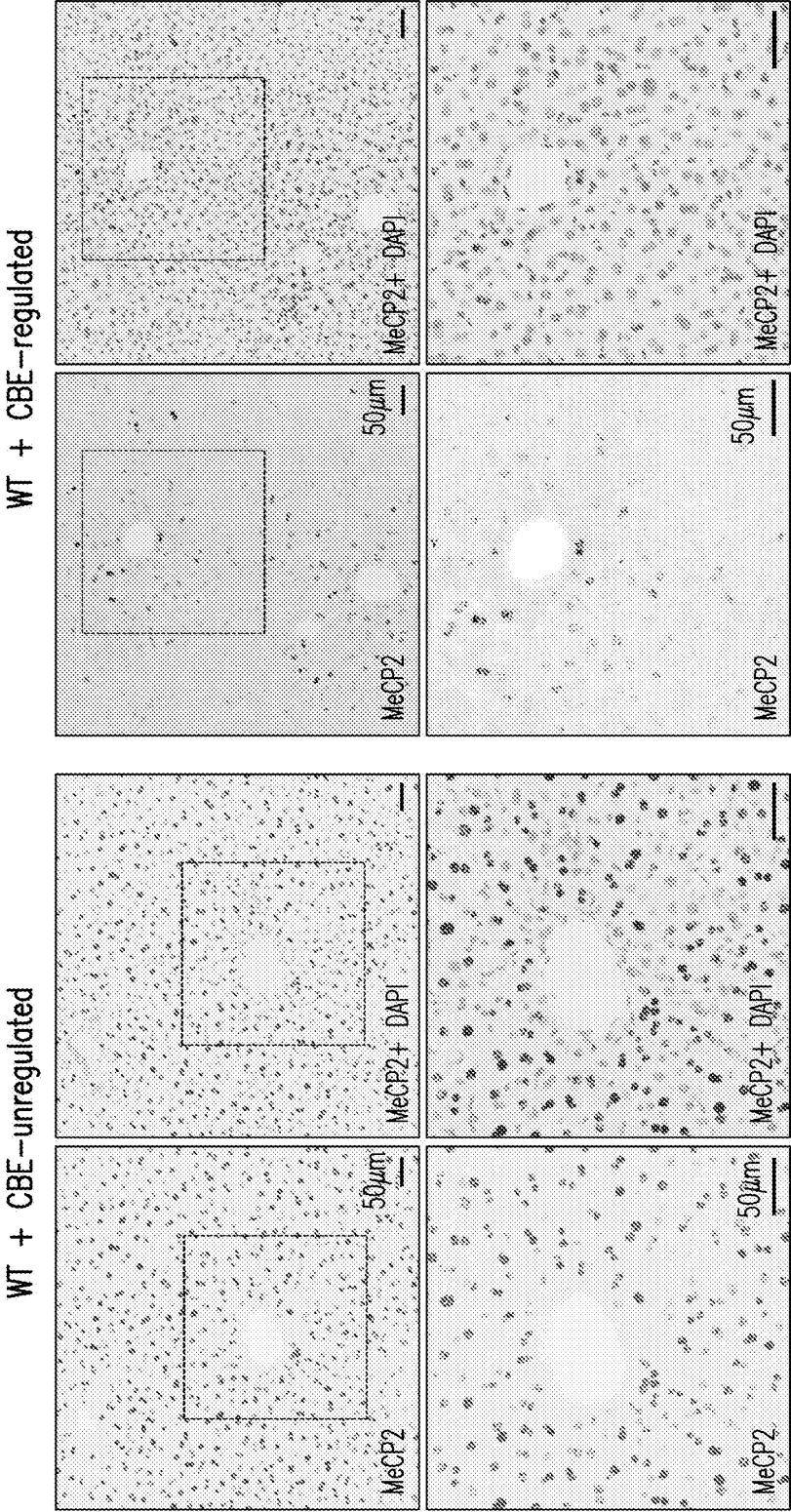
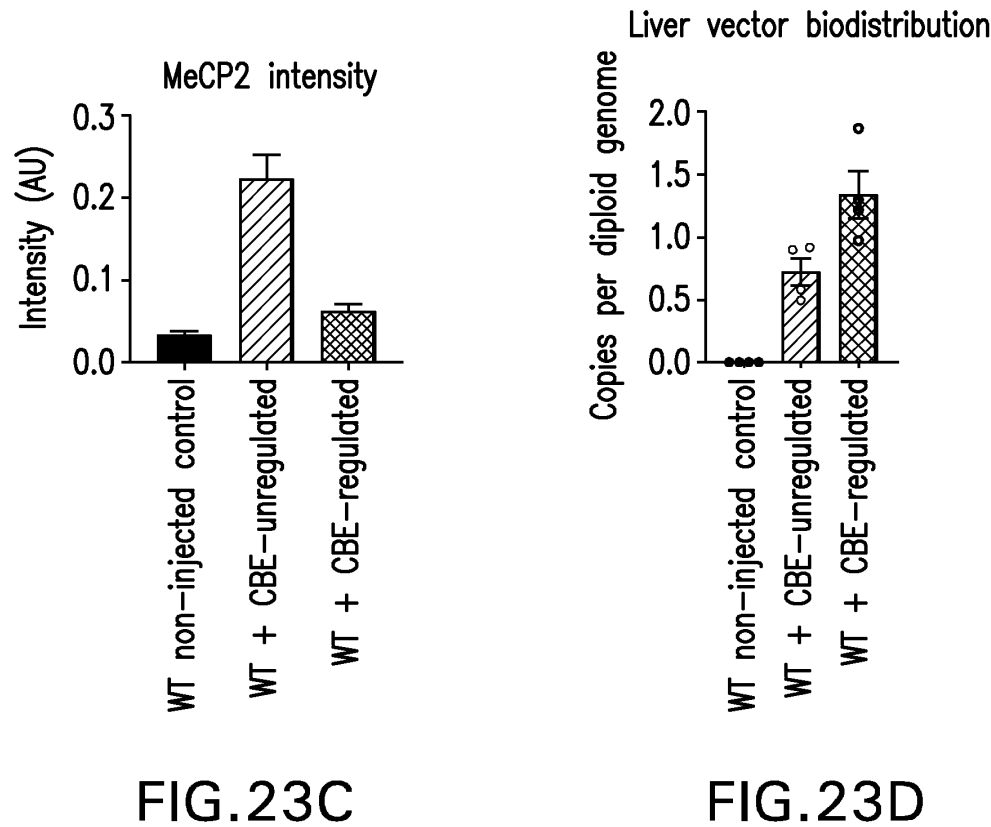


FIG.23B



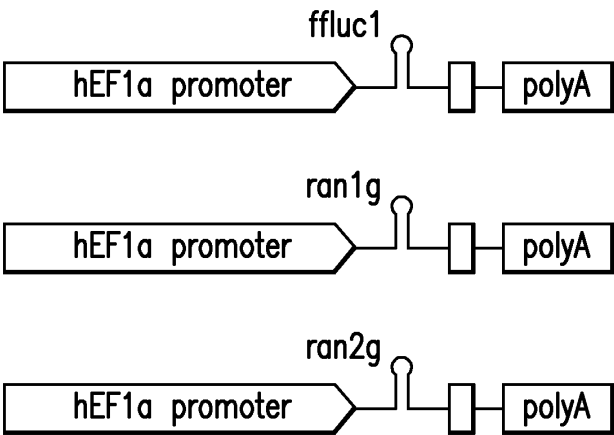


FIG.24A

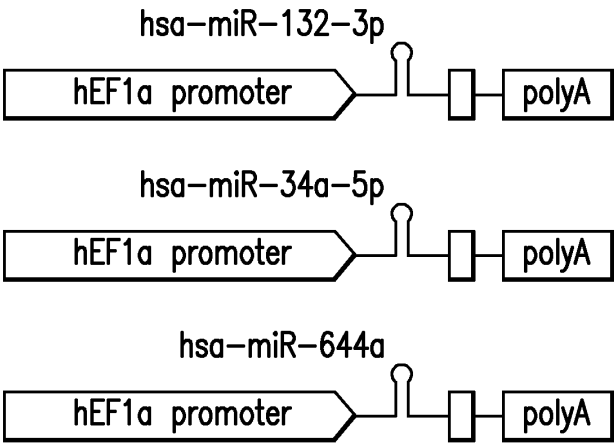


FIG.24B

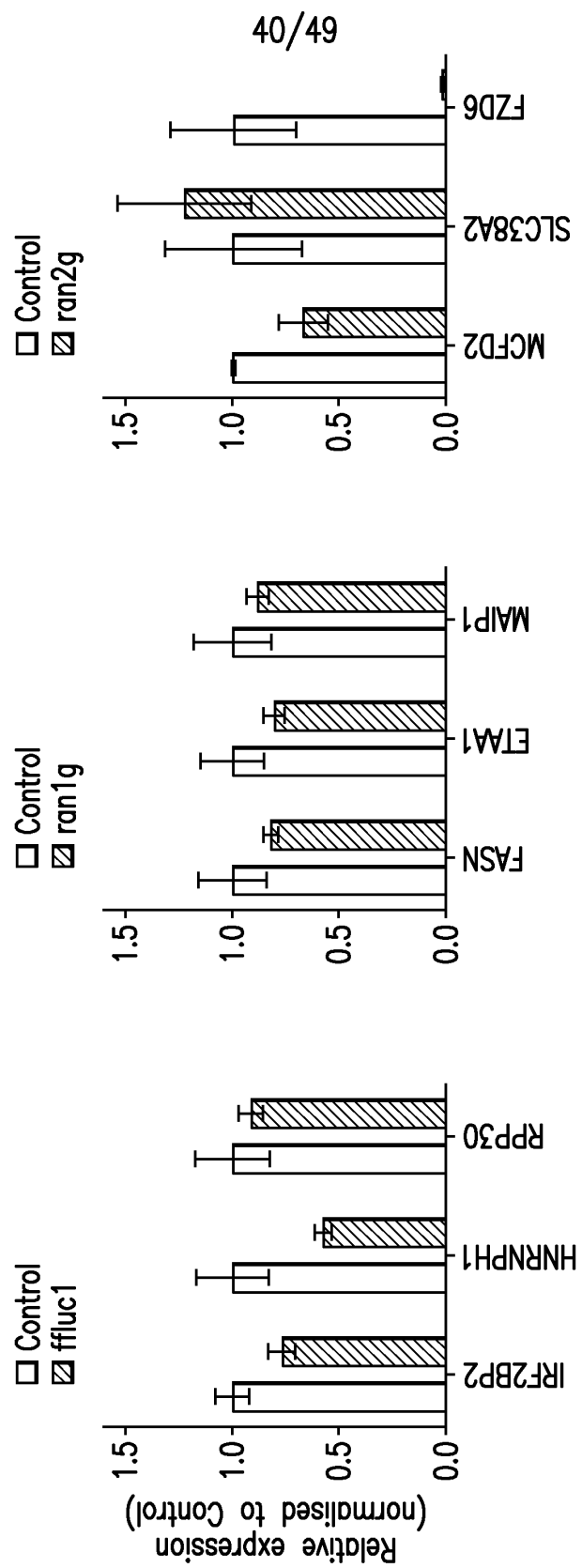


FIG.24C

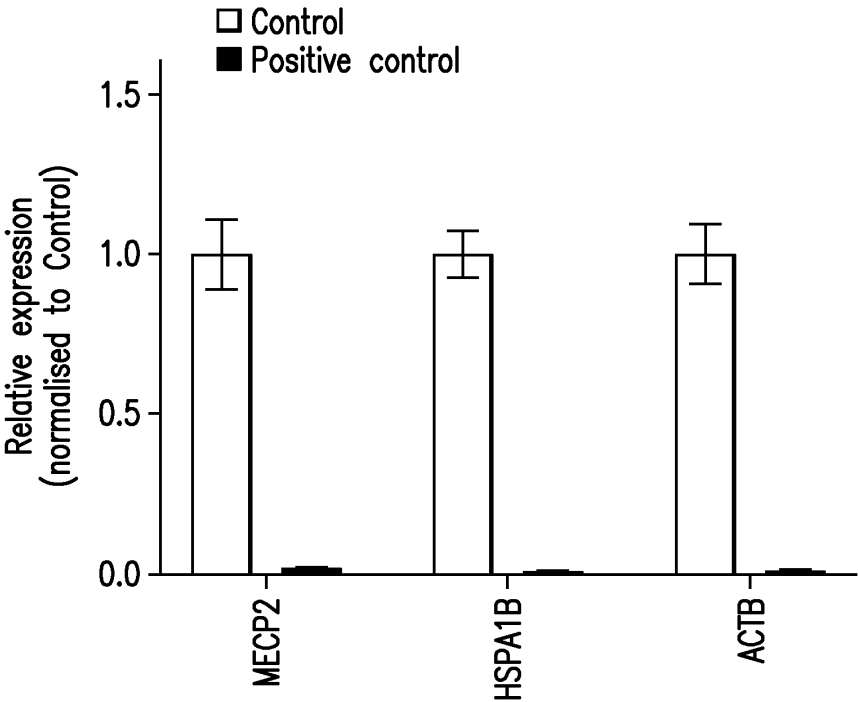


FIG.24D

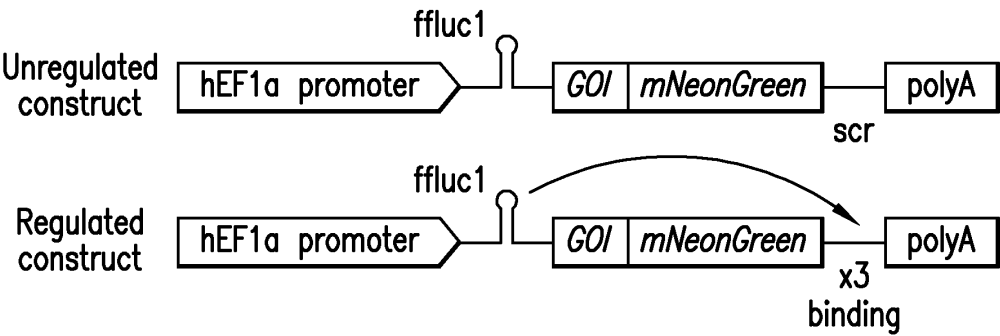


FIG.25A

43/49

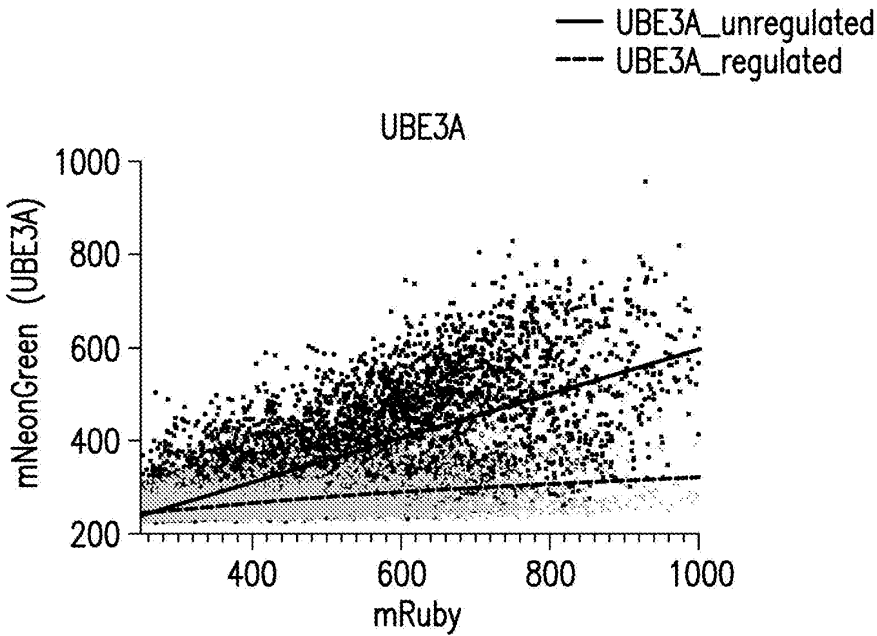


FIG.25B

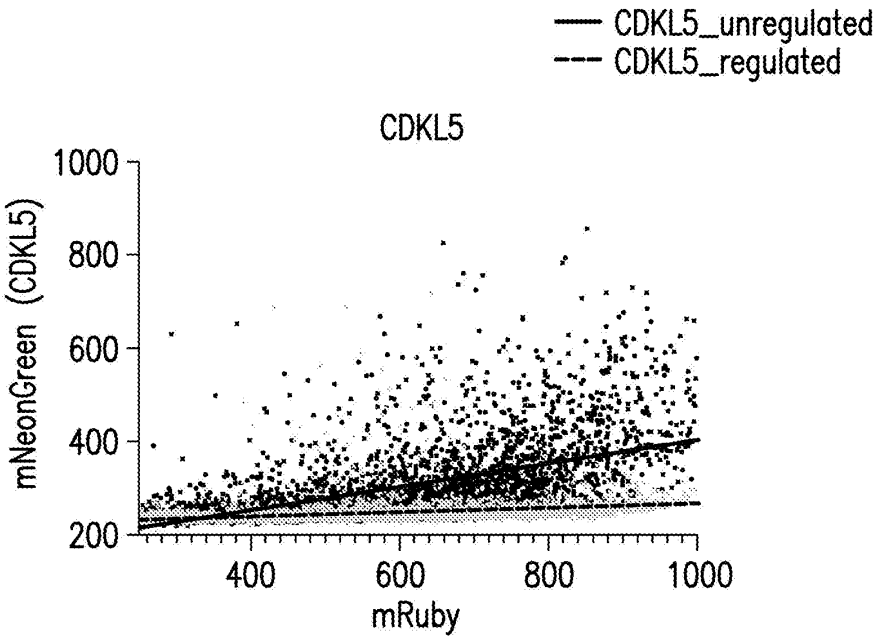


FIG.25C

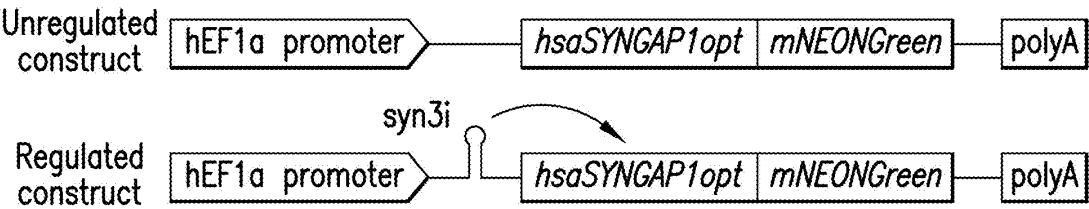


FIG.26A

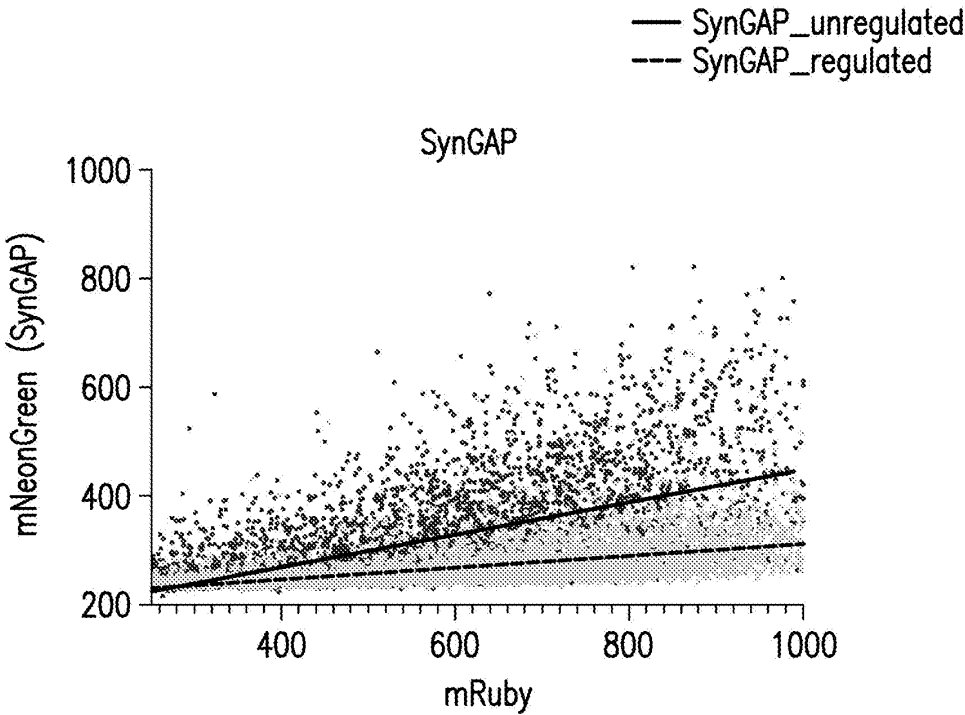


FIG.26B

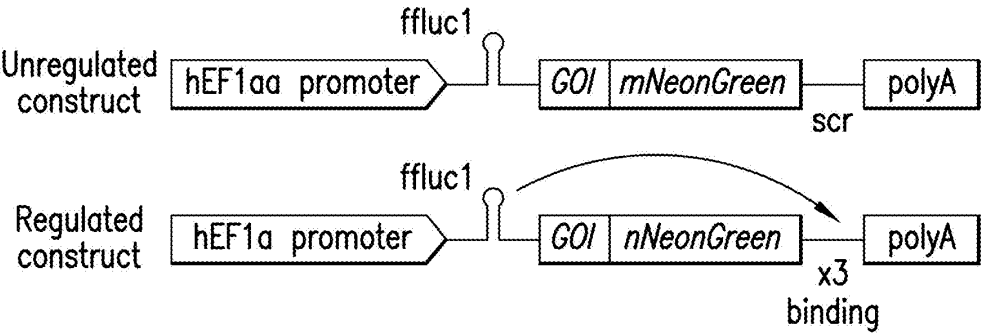


FIG.27A

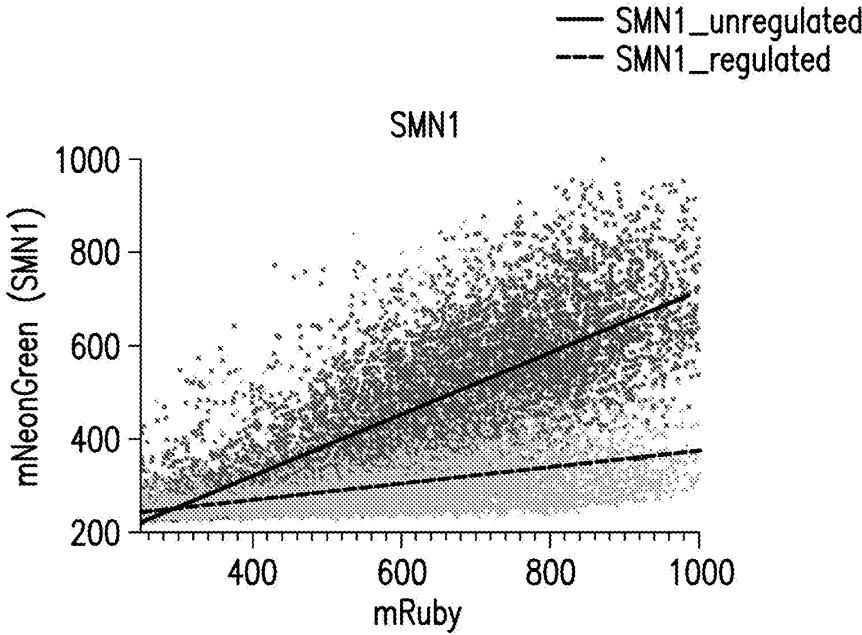


FIG.27B

46/49

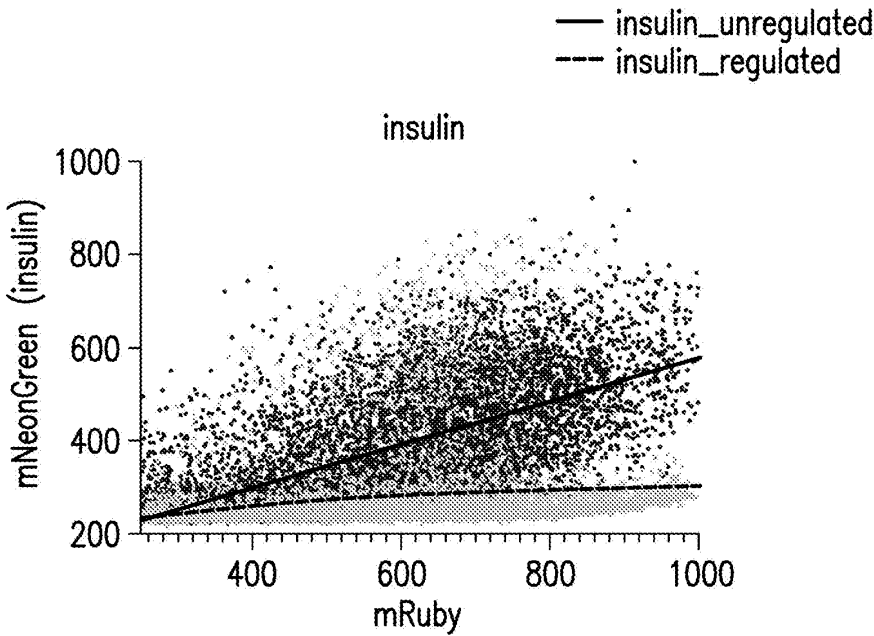


FIG.27C

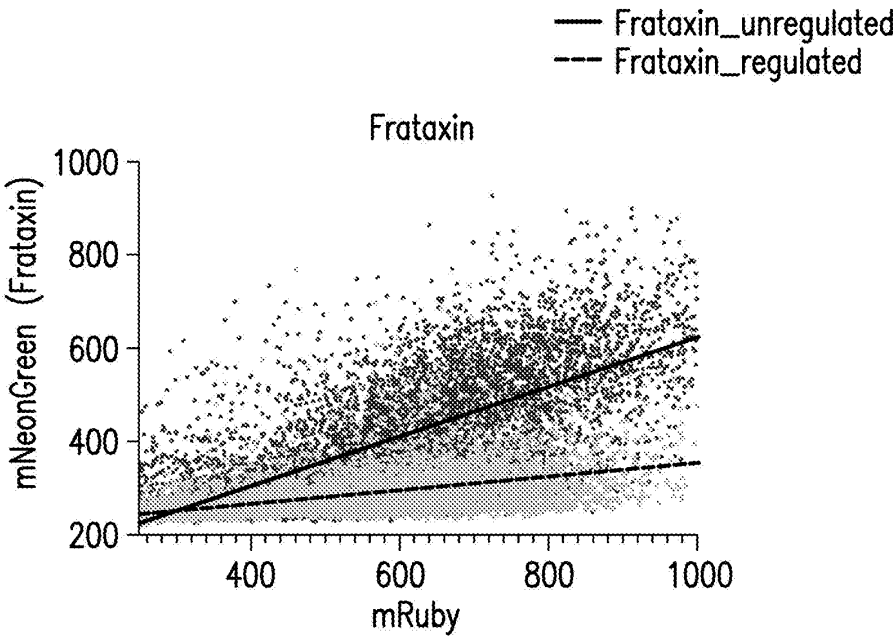


FIG.27D

47/49

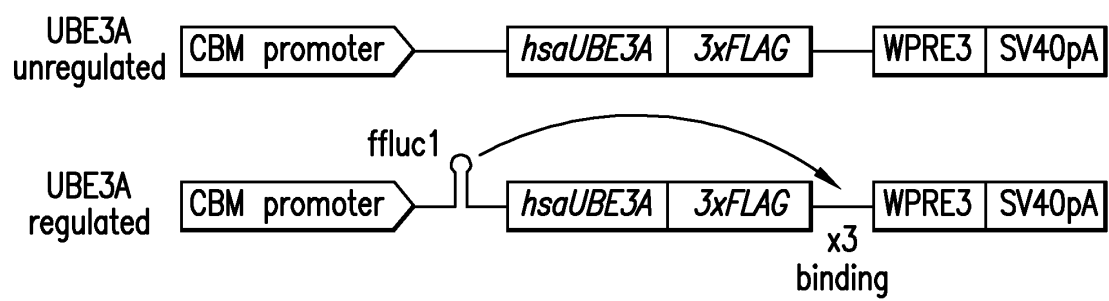


FIG.28A

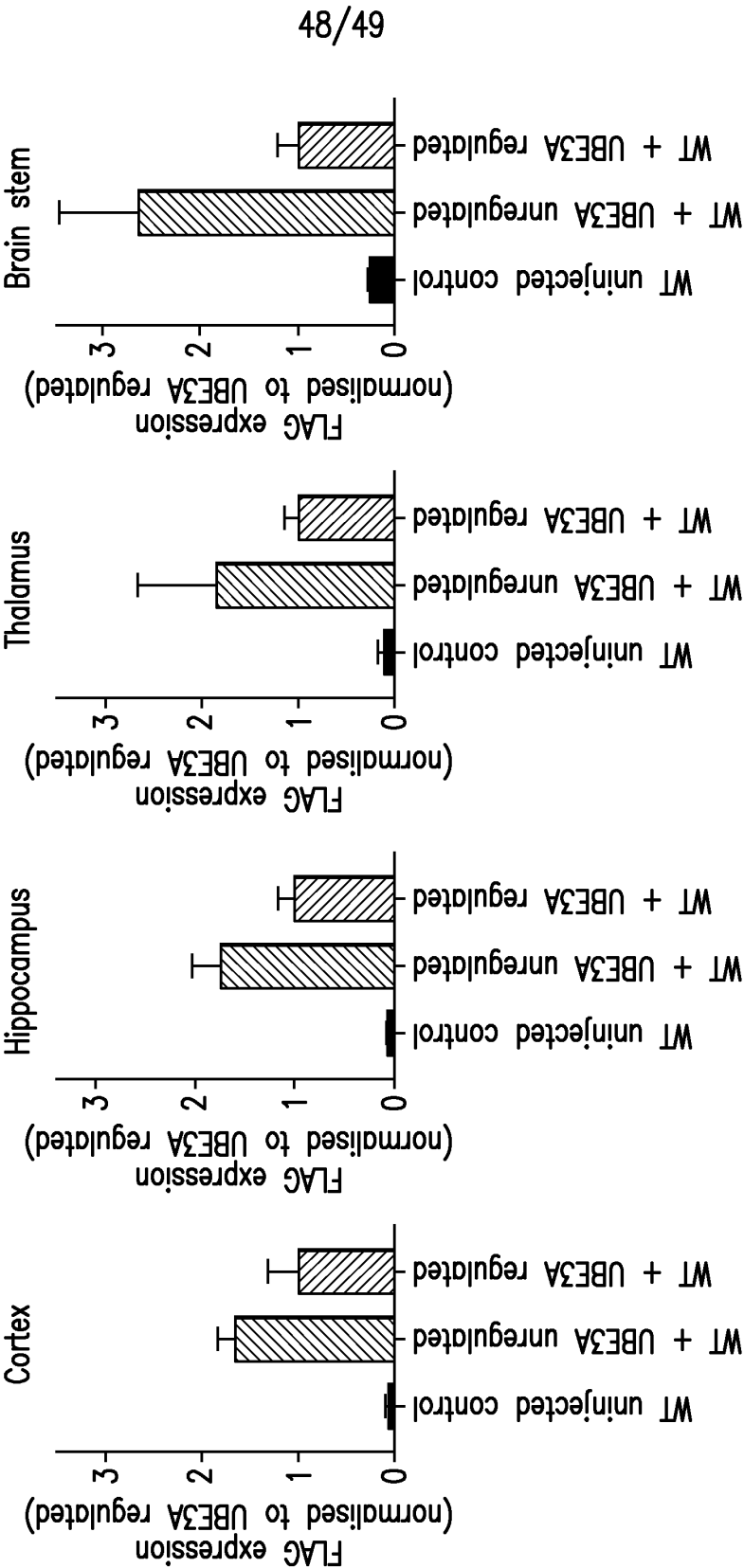


FIG.28B

49/49

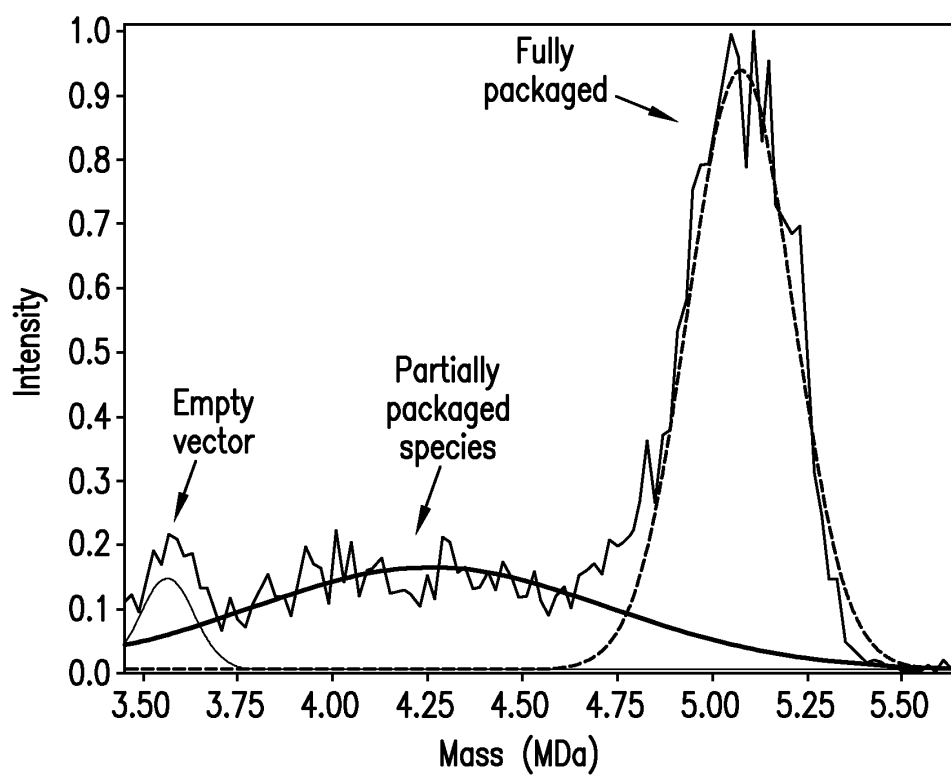


FIG.29