

FIG. 1

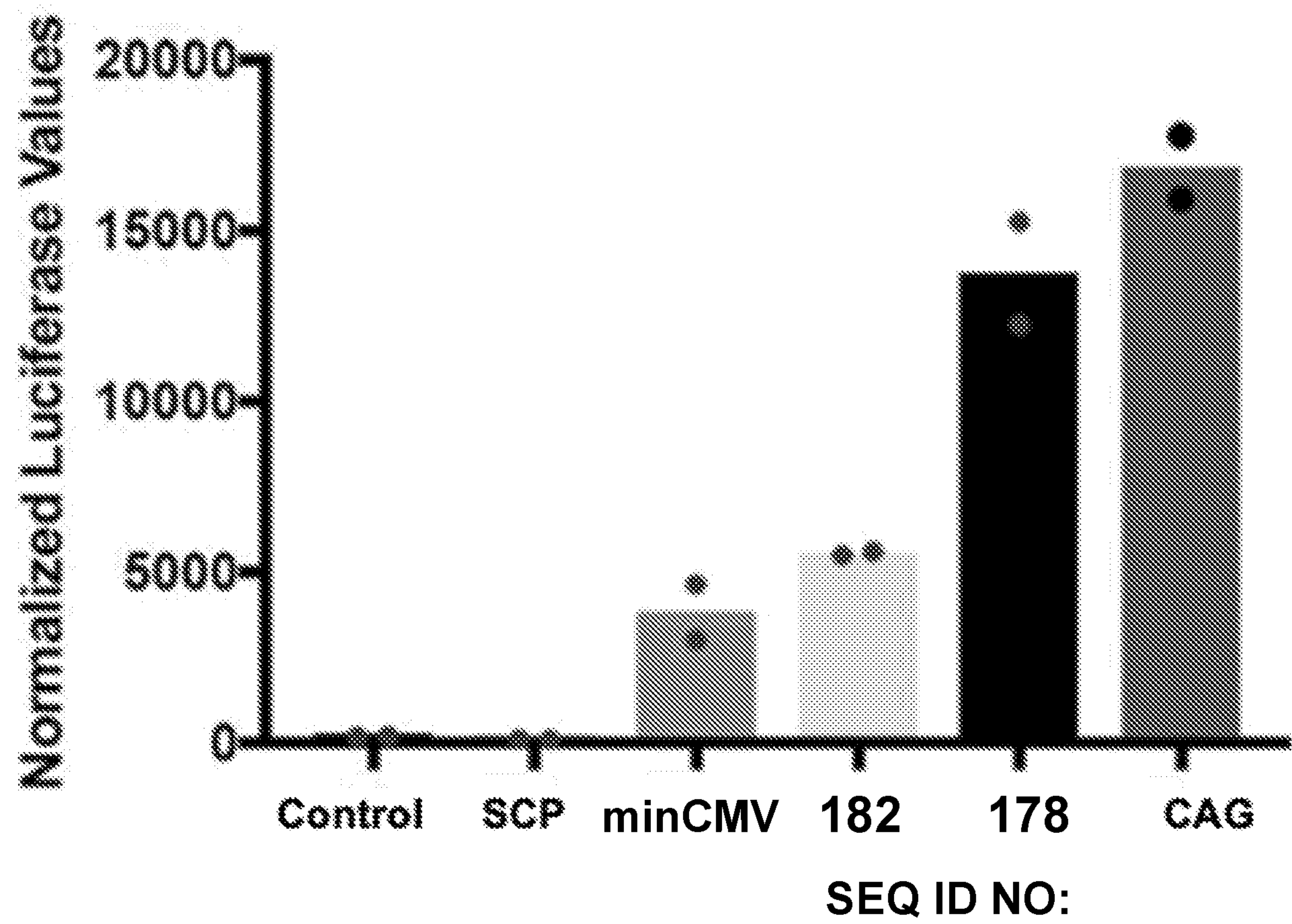


FIG. 2

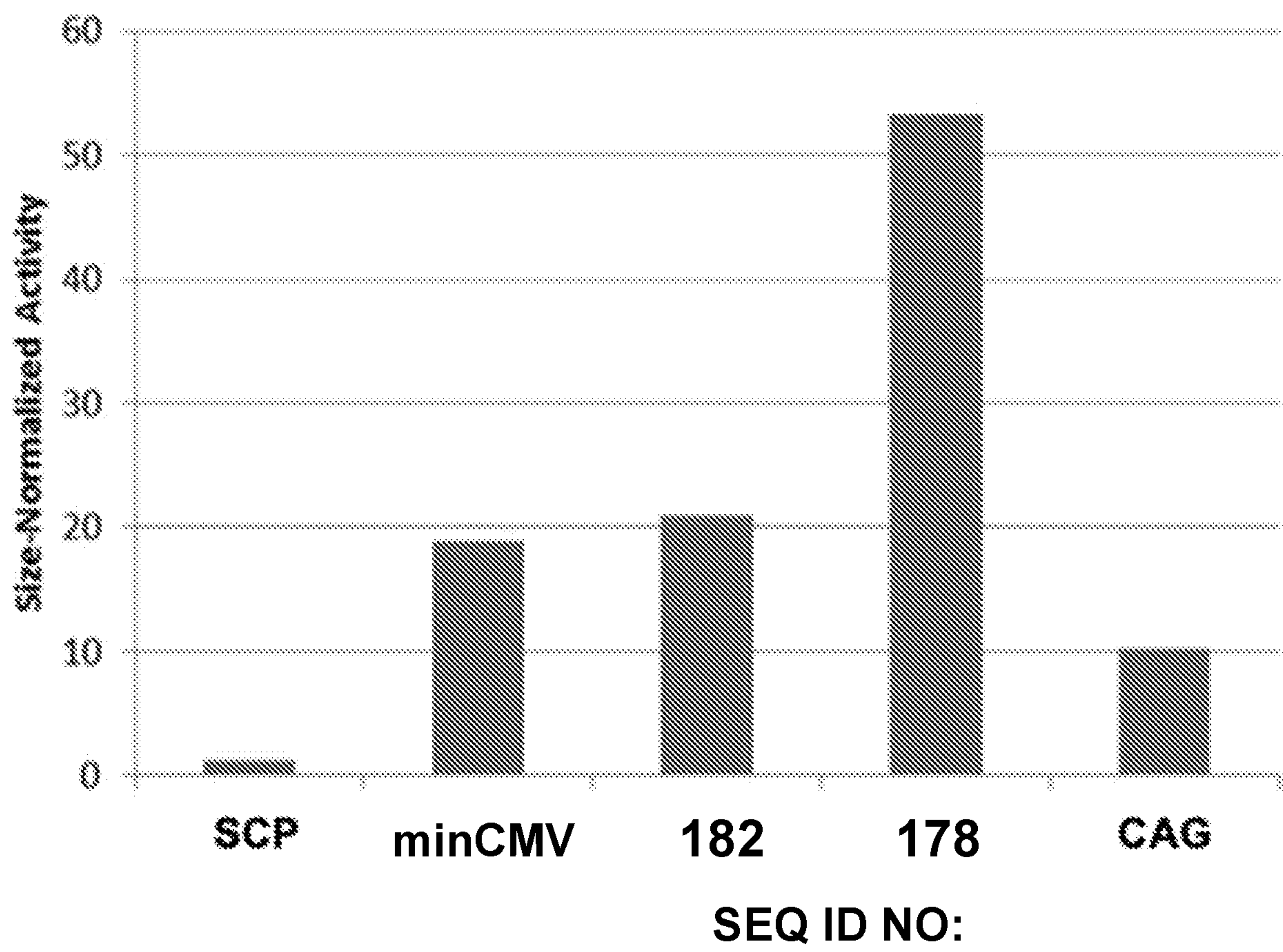


FIG. 3

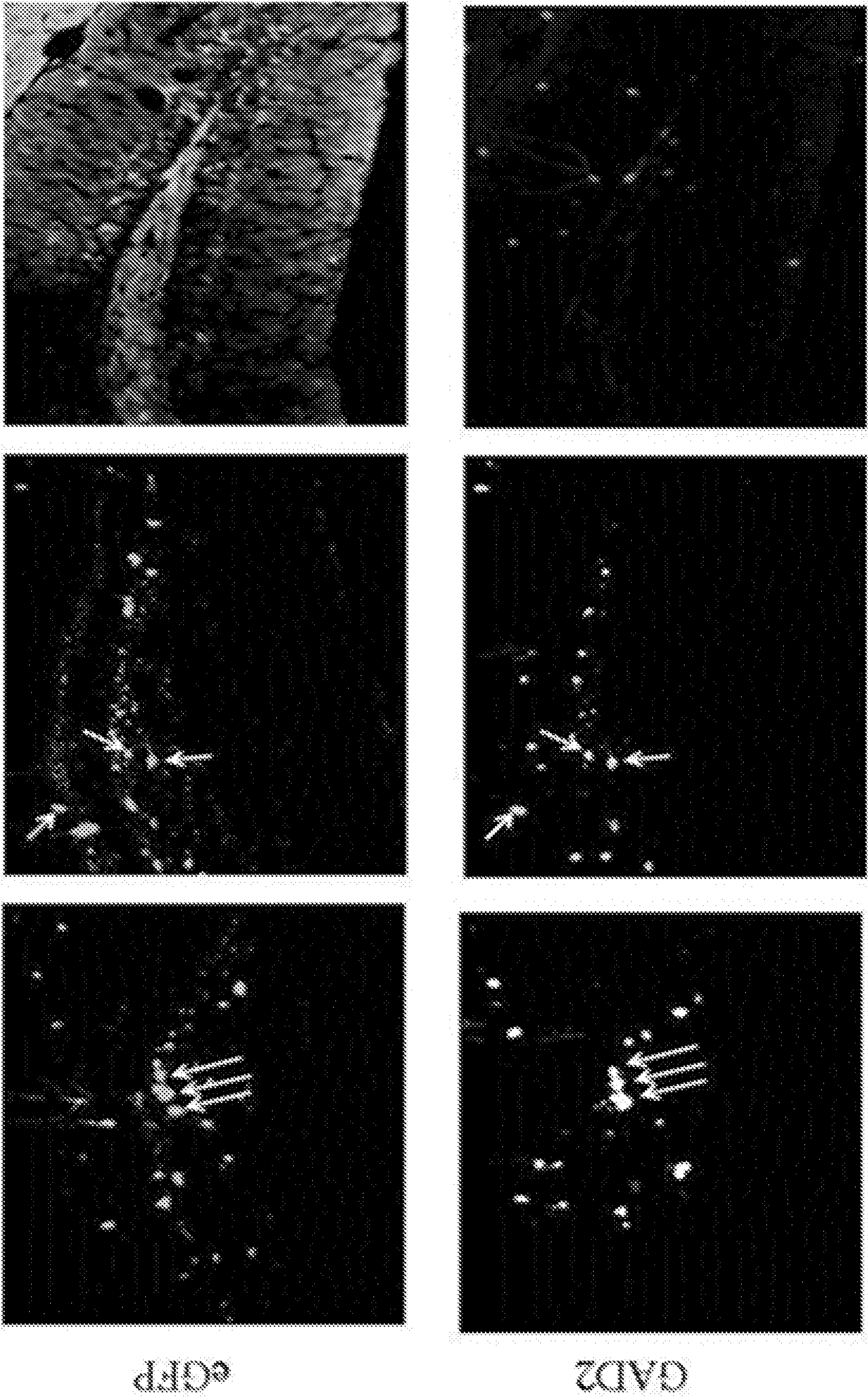


FIG. 4

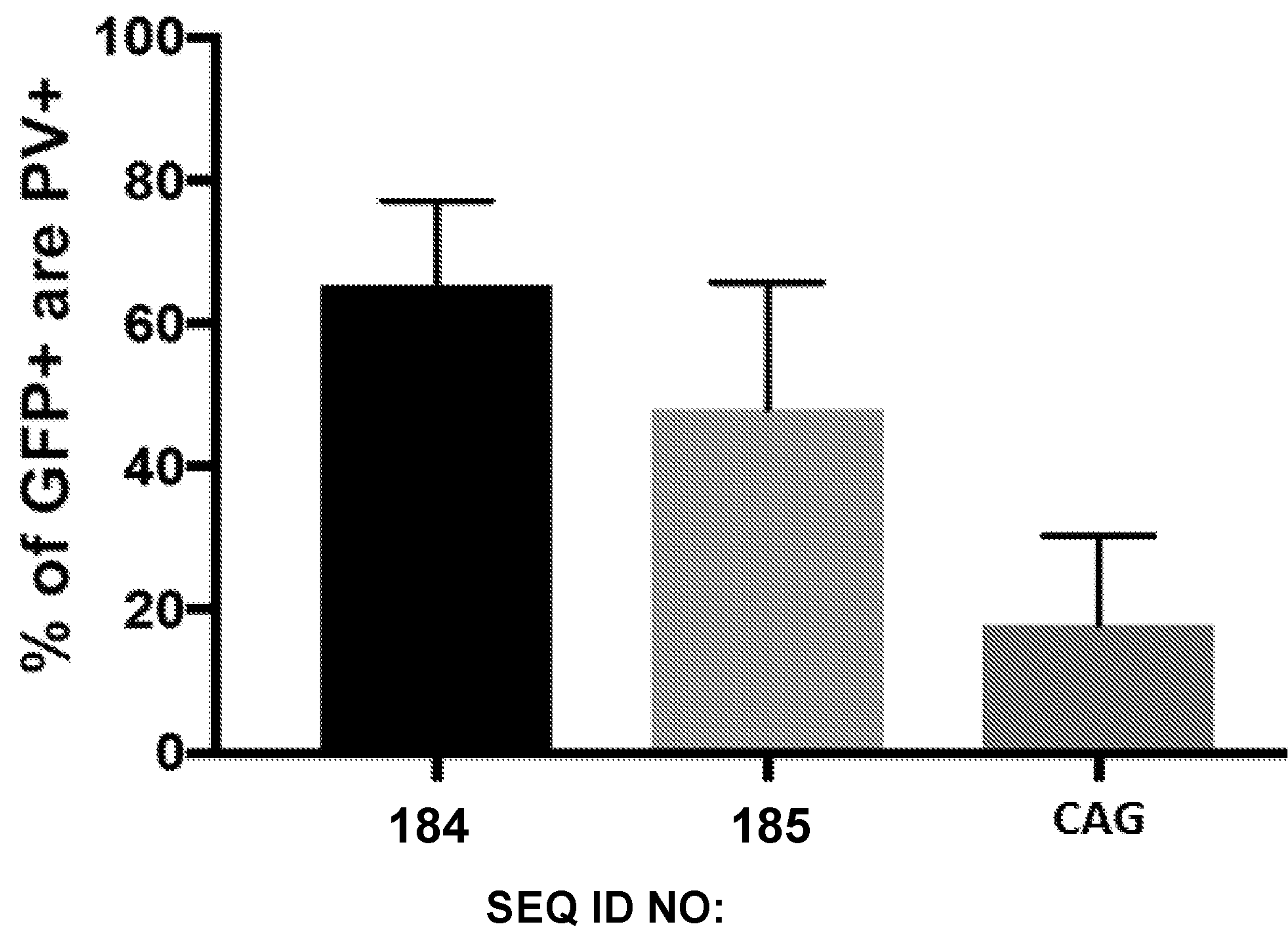


FIG. 5

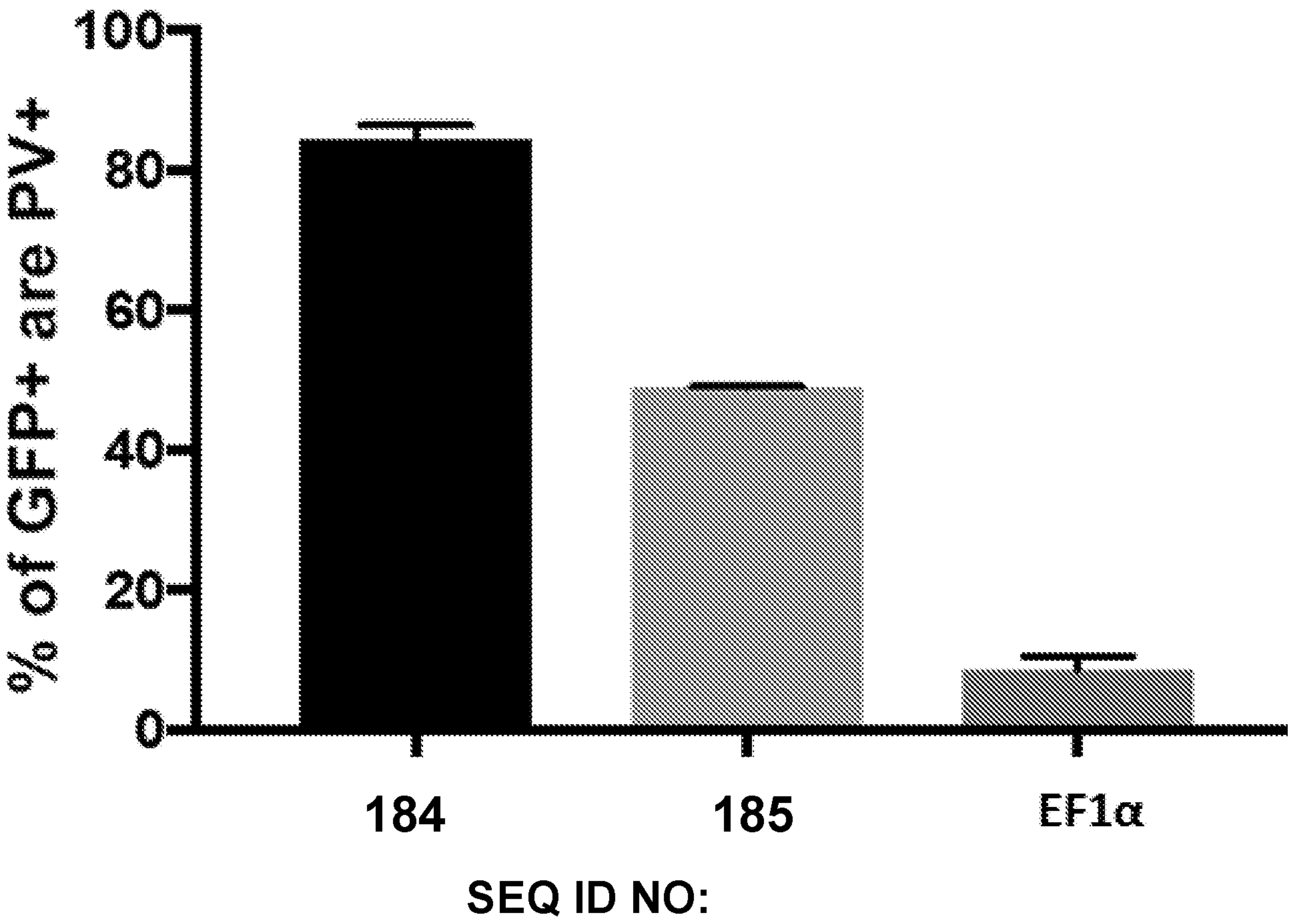




FIG. 7

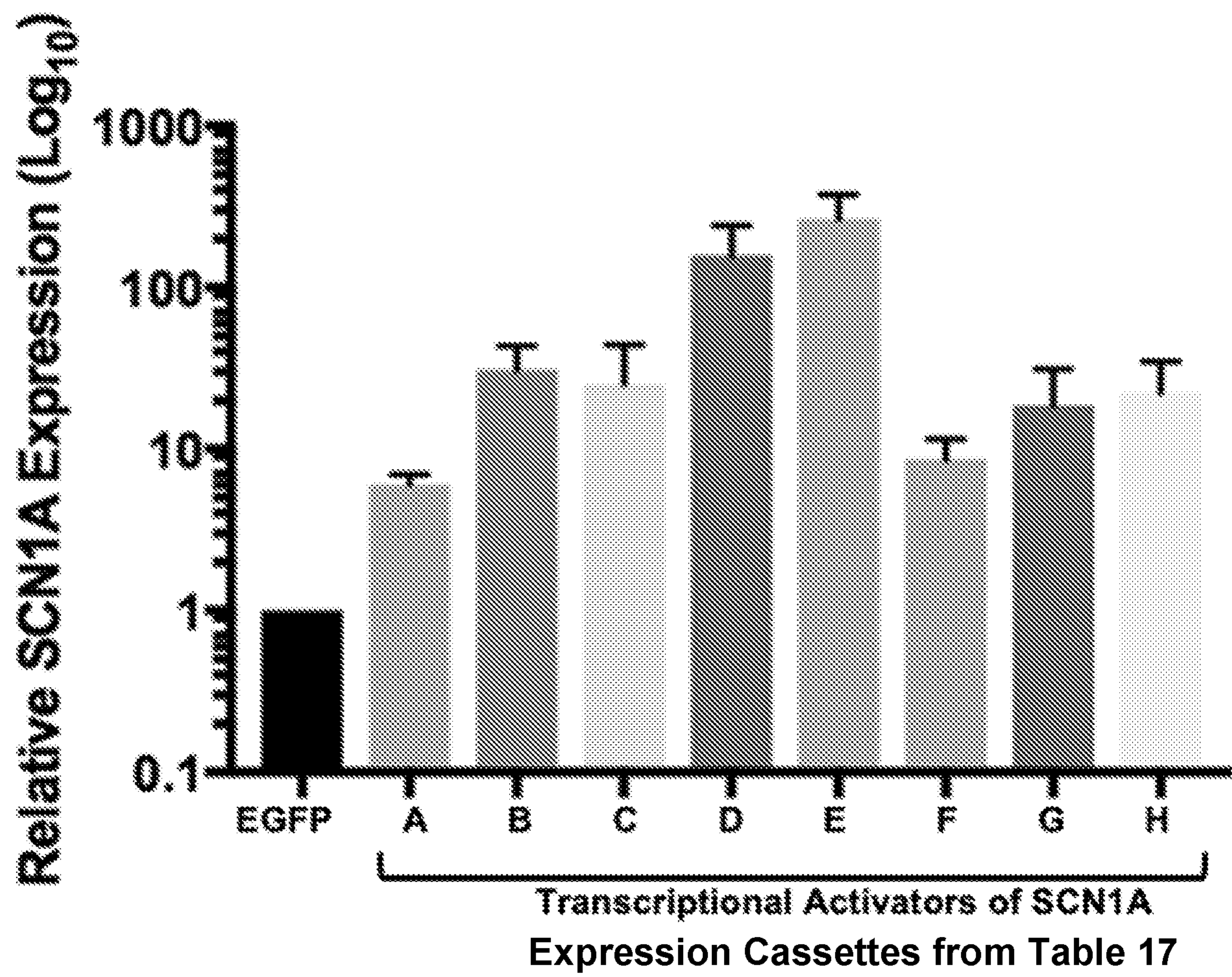


FIG. 8

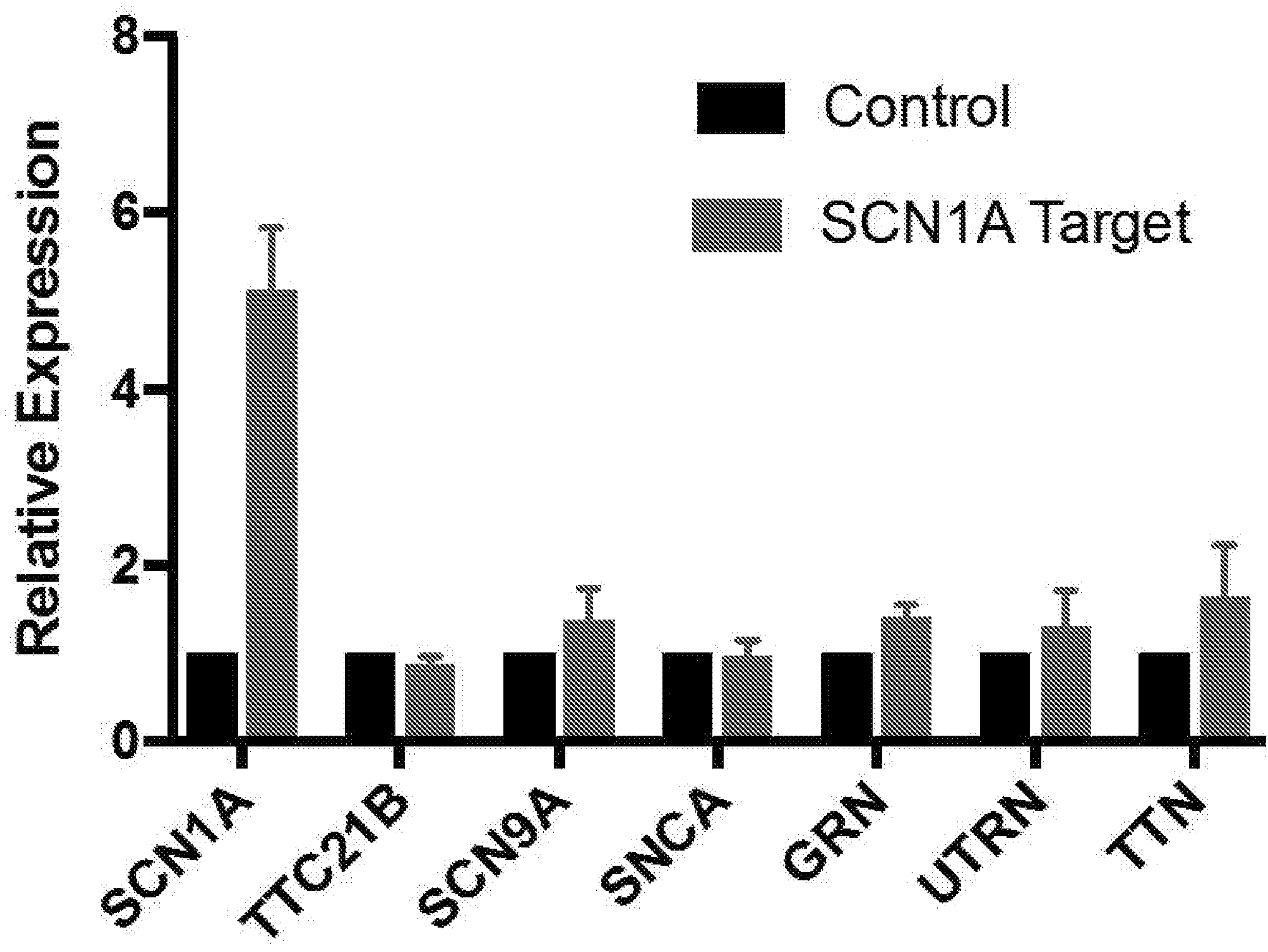


FIG. 9A

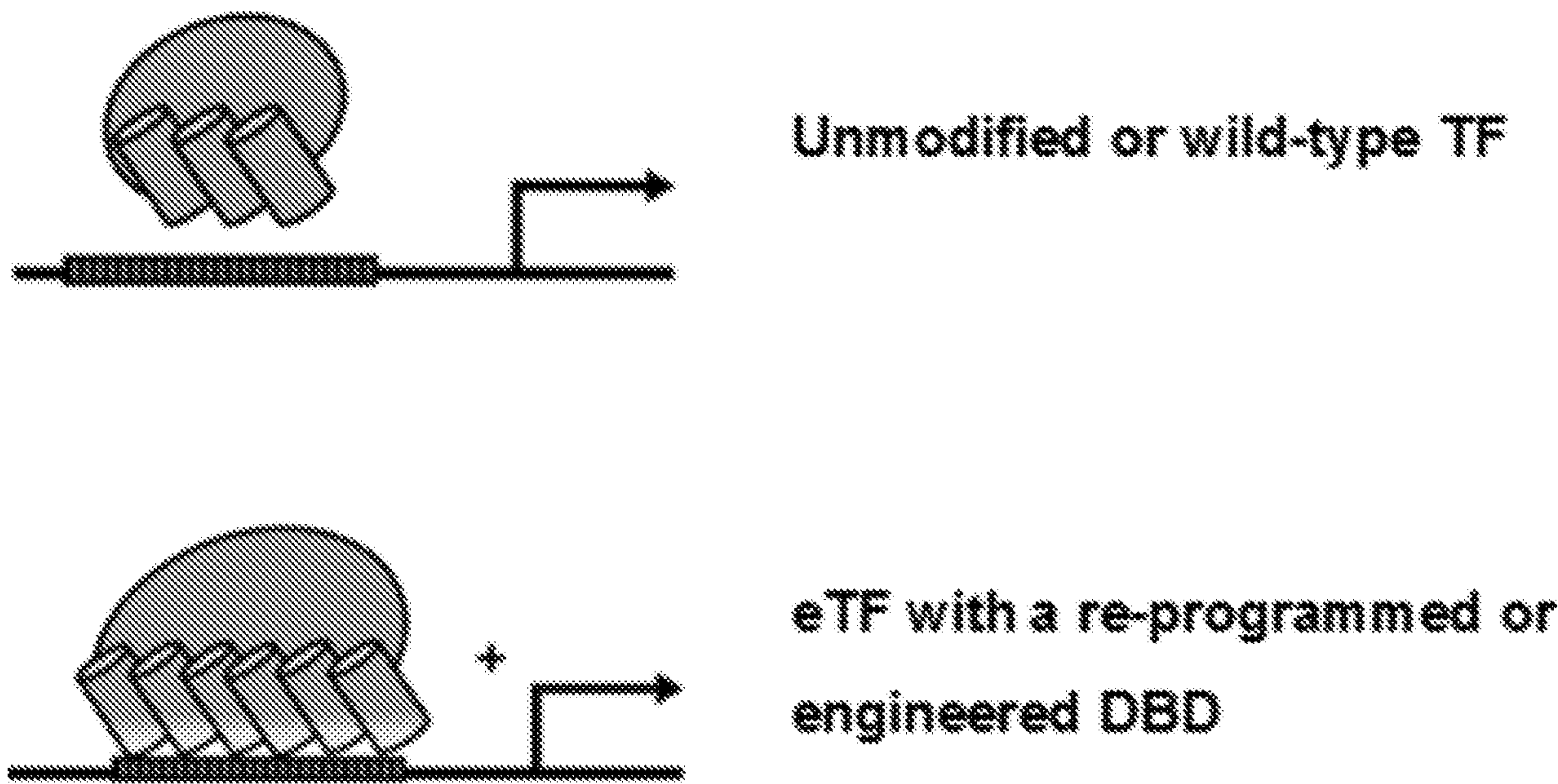


FIG. 9B

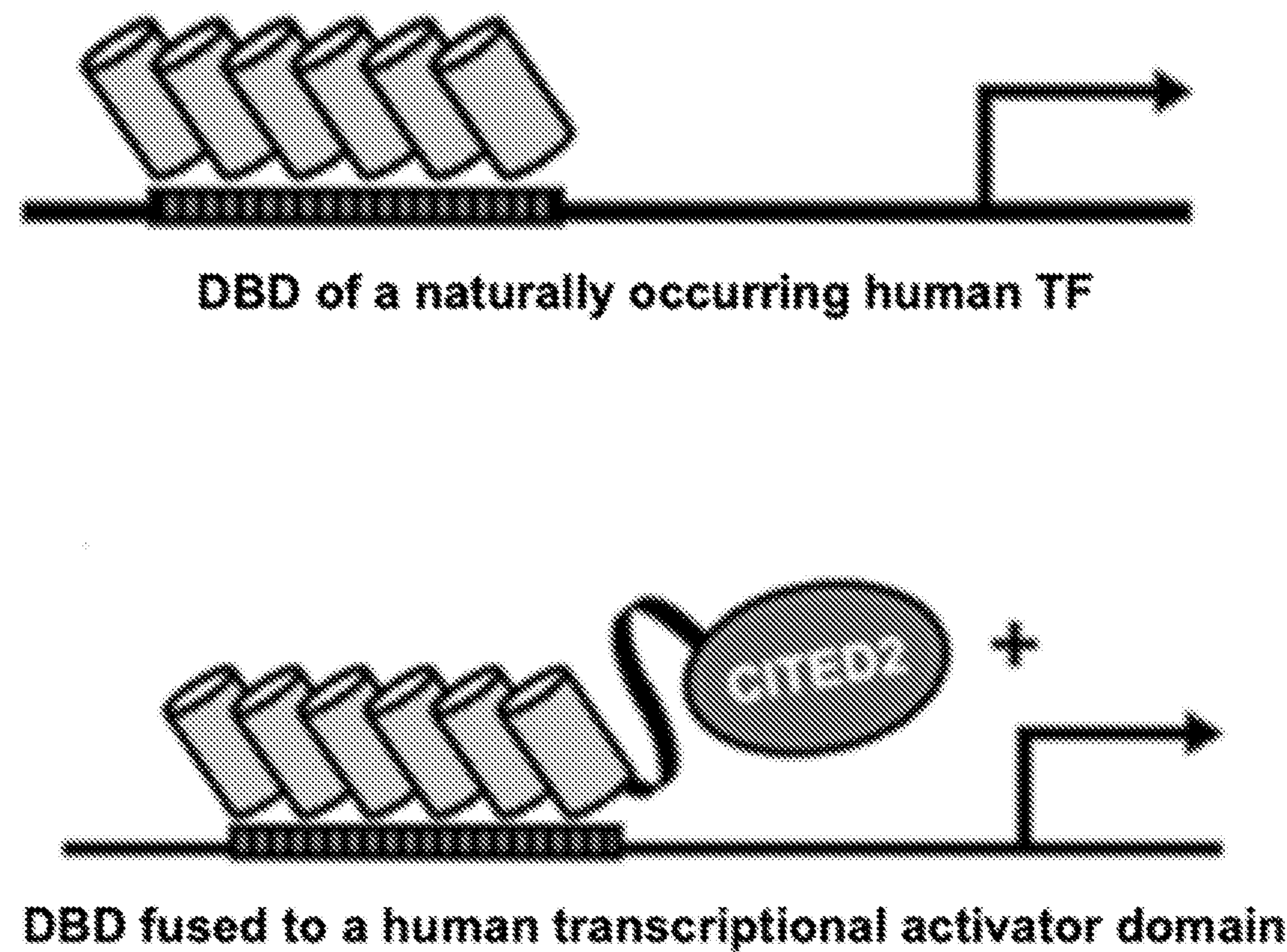


FIG. 10

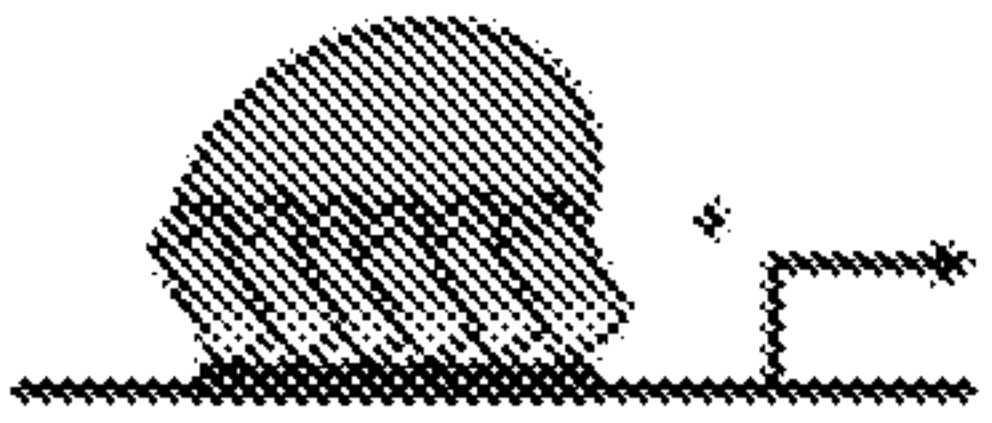
|       |                                                                                     | Percentage Conservation | Size (bp)   |
|-------|-------------------------------------------------------------------------------------|-------------------------|-------------|
| eTF   |    | >90%                    | 1,000-1,800 |
| dCas9 |   | 0%                      | 3,900       |
| ZFP   |  | 55%                     | 800-900     |

FIG. 11

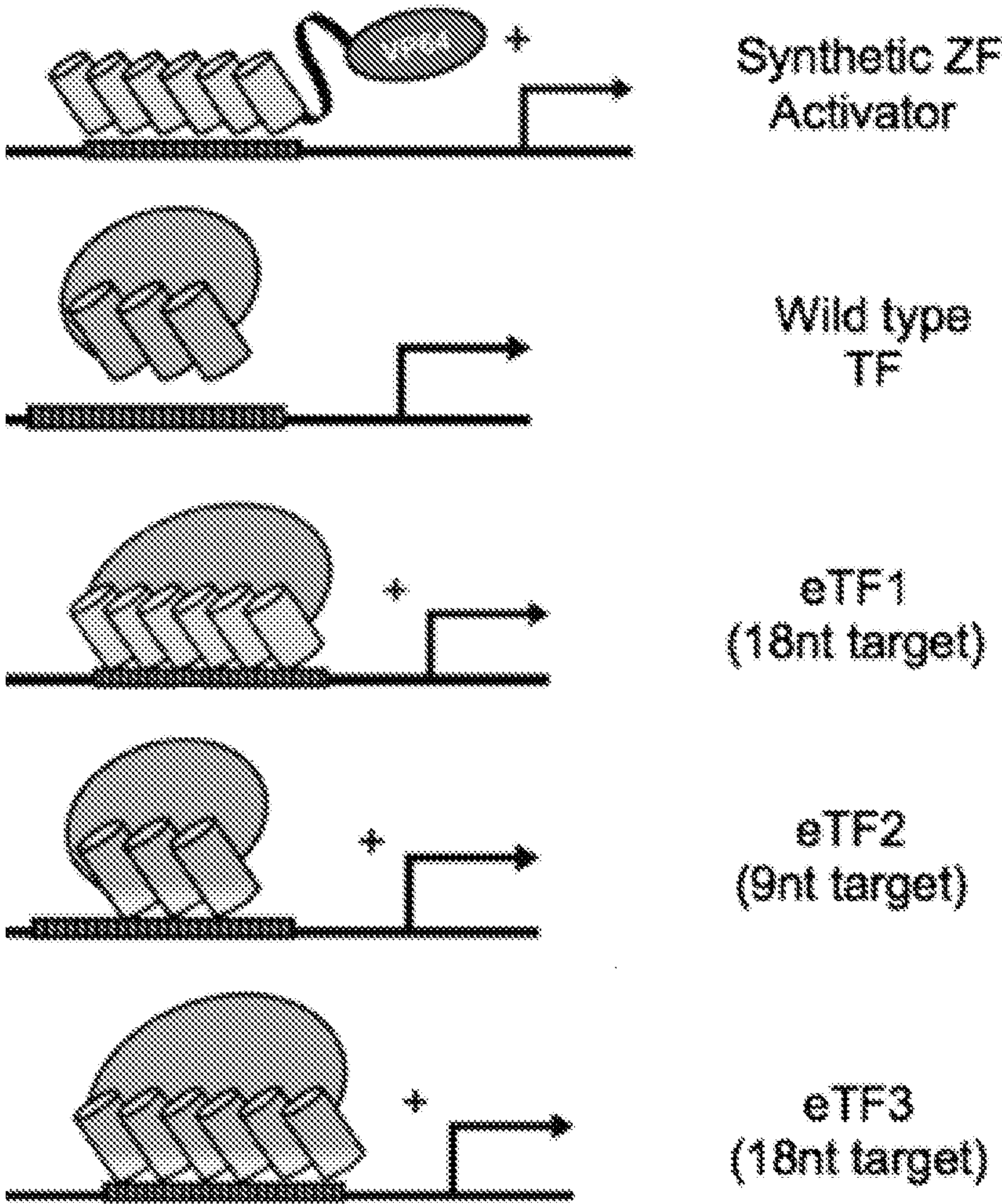


FIG. 12A

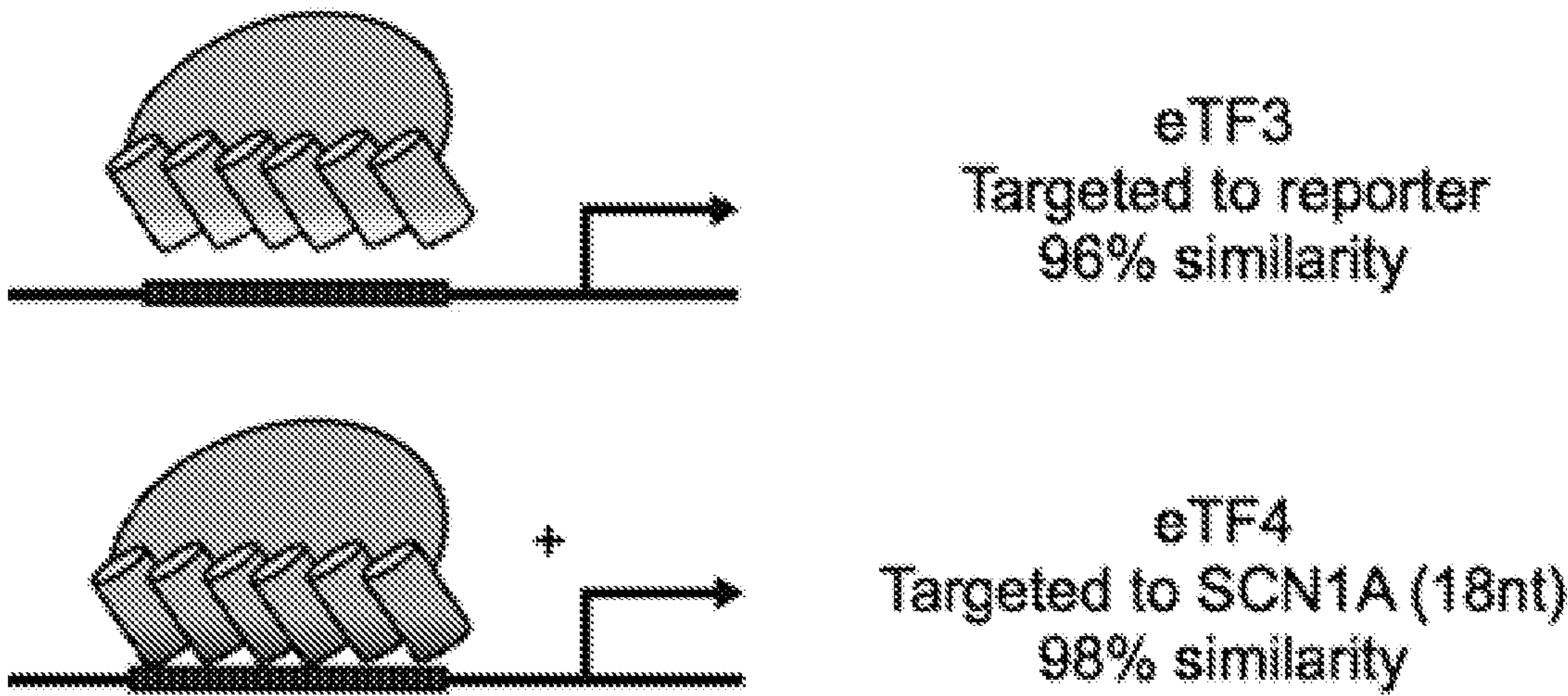


FIG. 12B

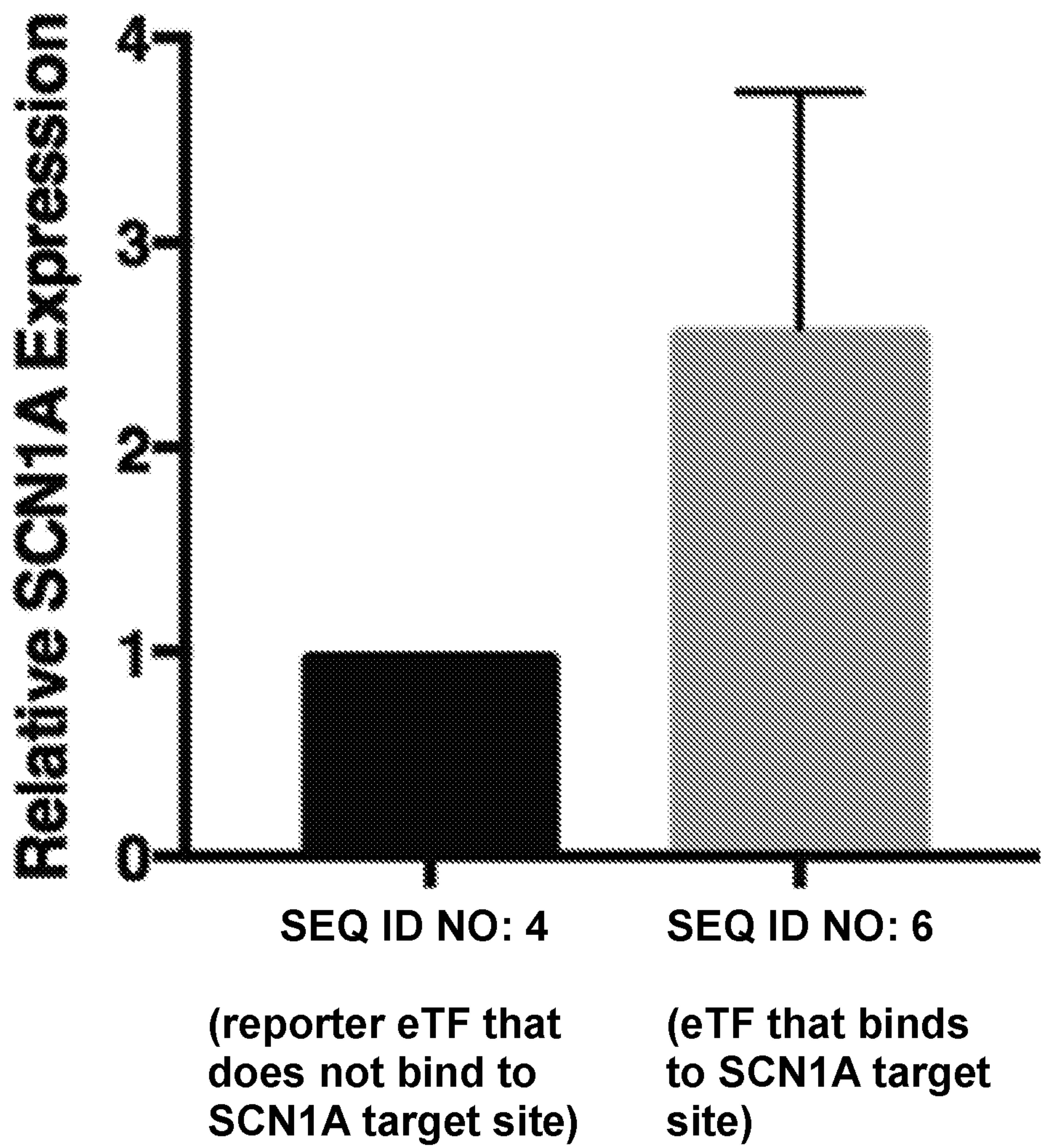


FIG. 13A

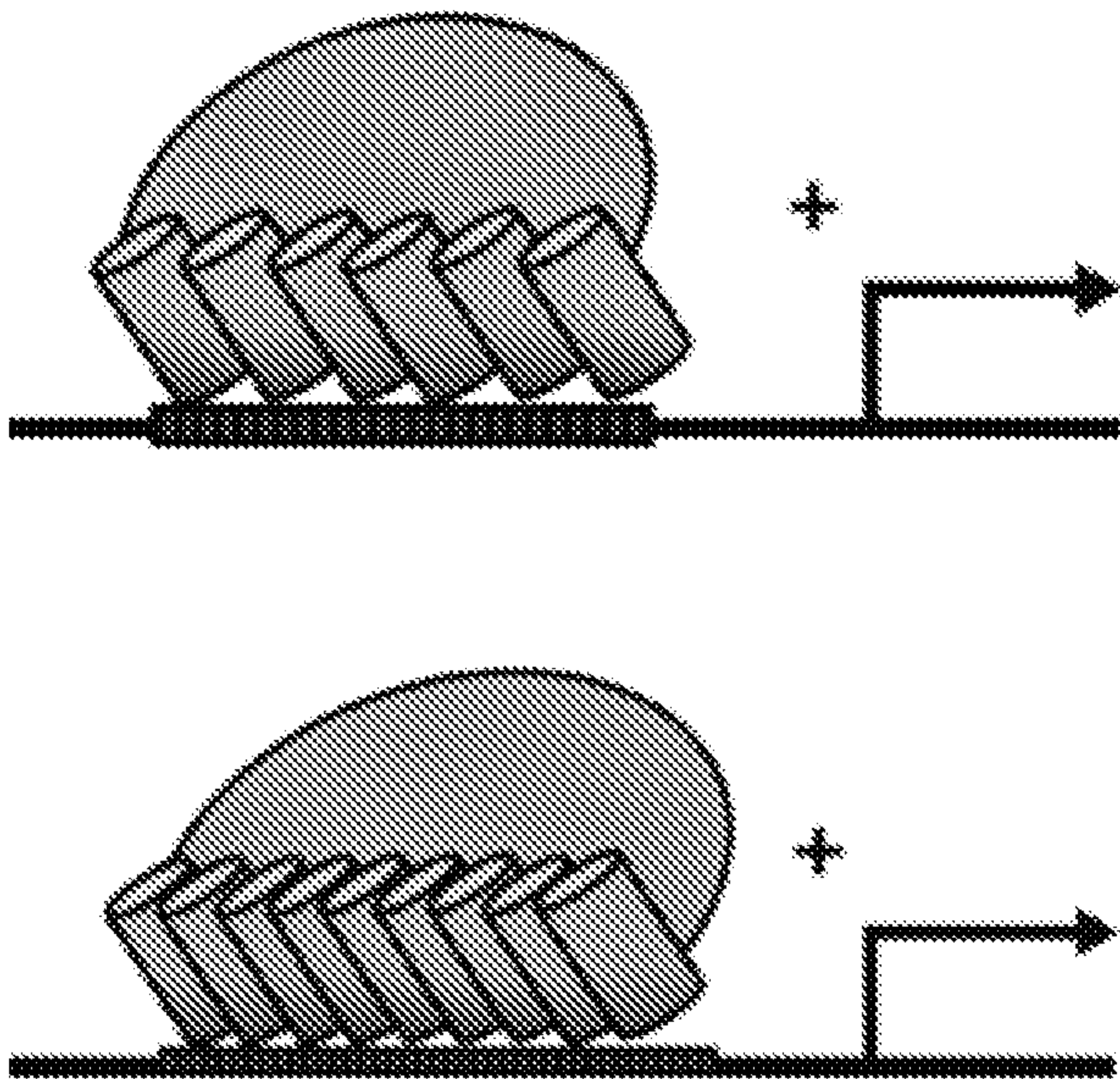


FIG. 13B

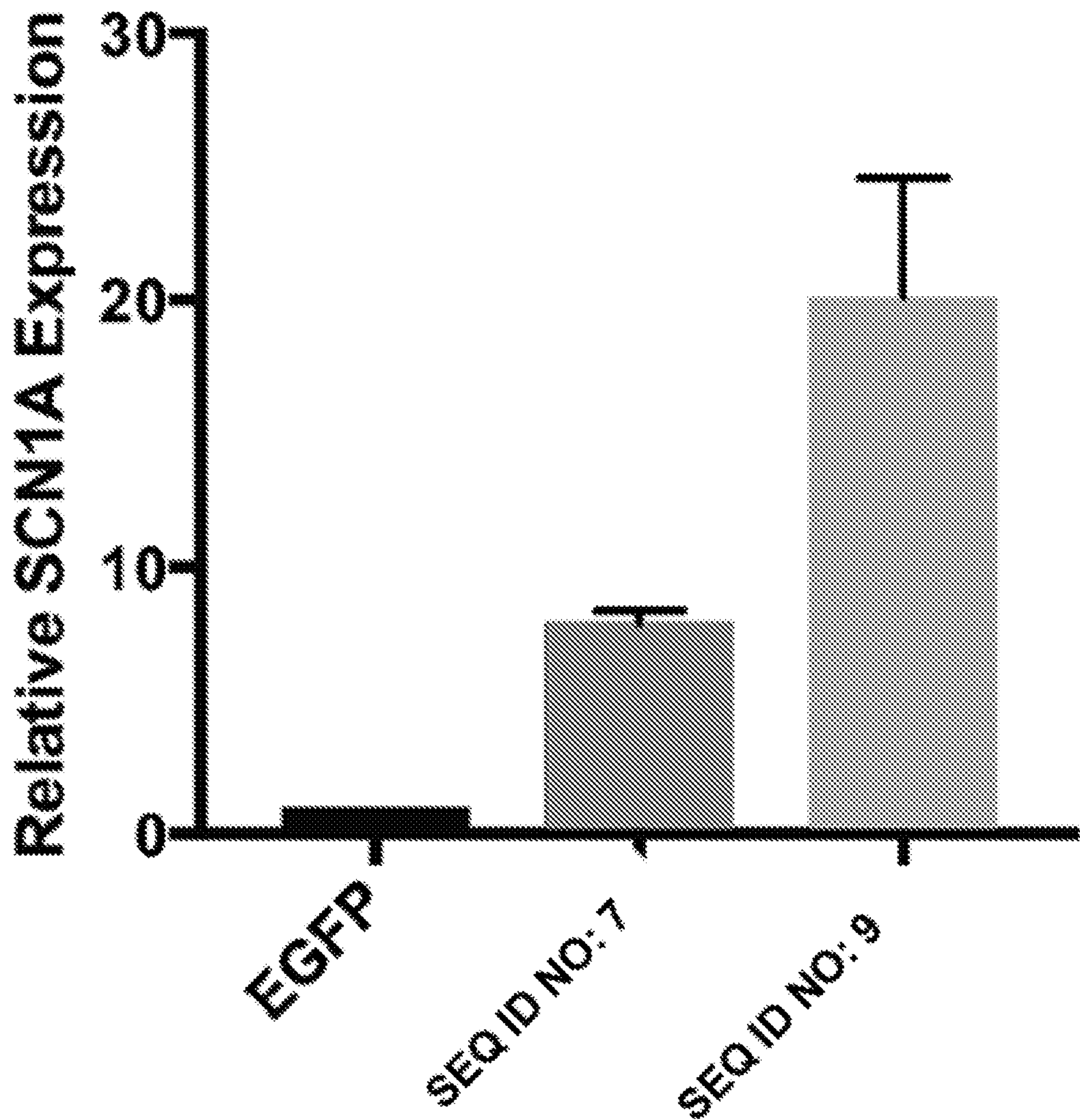
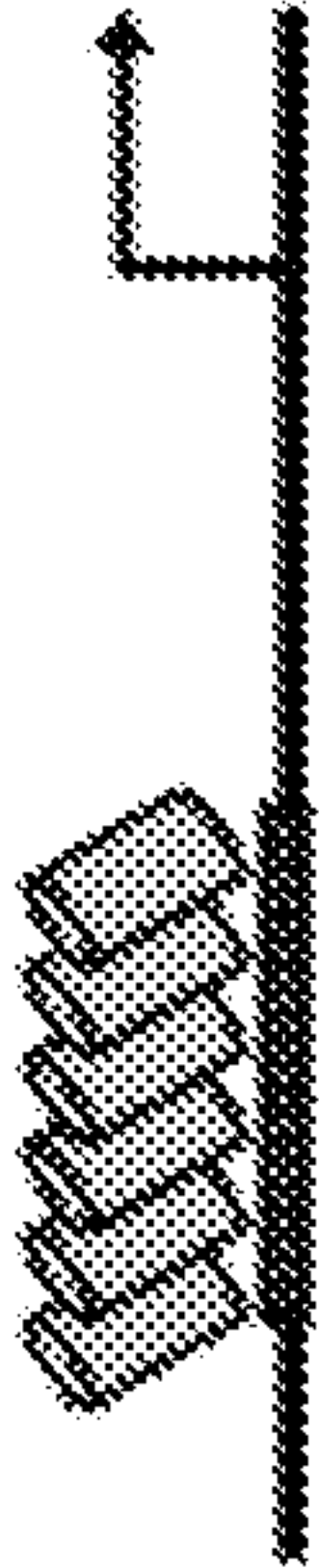
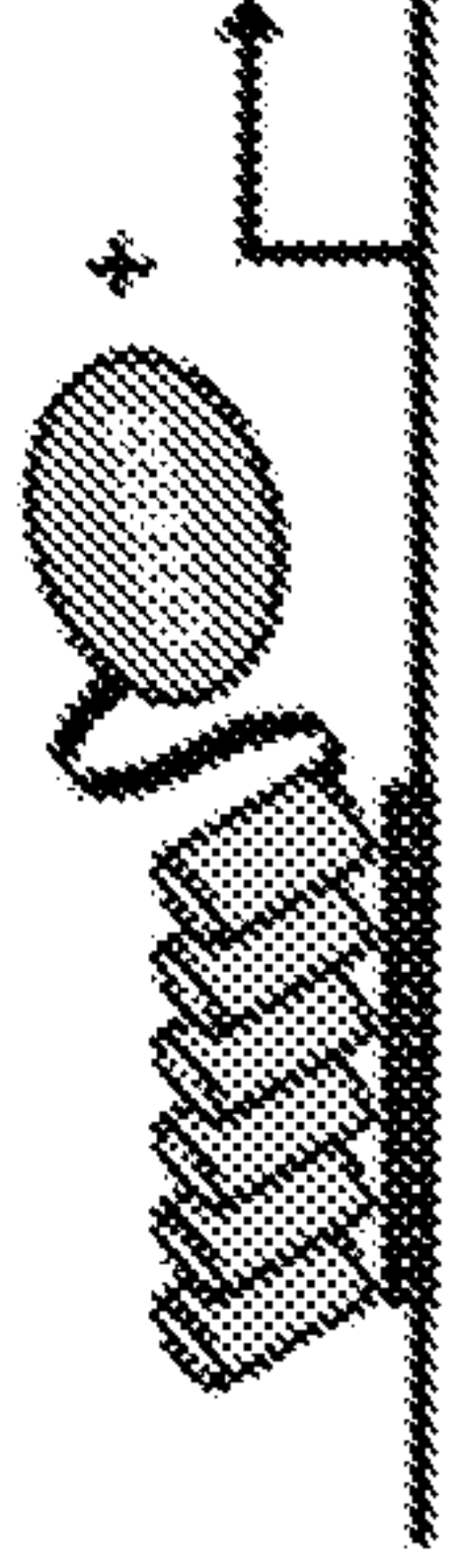


FIG. 14

|                                                     |                                                                                       |  | DNA Binding Domain | Activation Domain |
|-----------------------------------------------------|---------------------------------------------------------------------------------------|--|--------------------|-------------------|
| Human DNA Binding Domain<br>No Activation Domain    |    |  | 85%                | N/A               |
| Human DNA Binding Domain<br>Viral Activation Domain |  |  | 85%                | 0%                |
| Human DNA Binding Domain<br>Human Activation Domain |  |  | 85%                | 100%              |

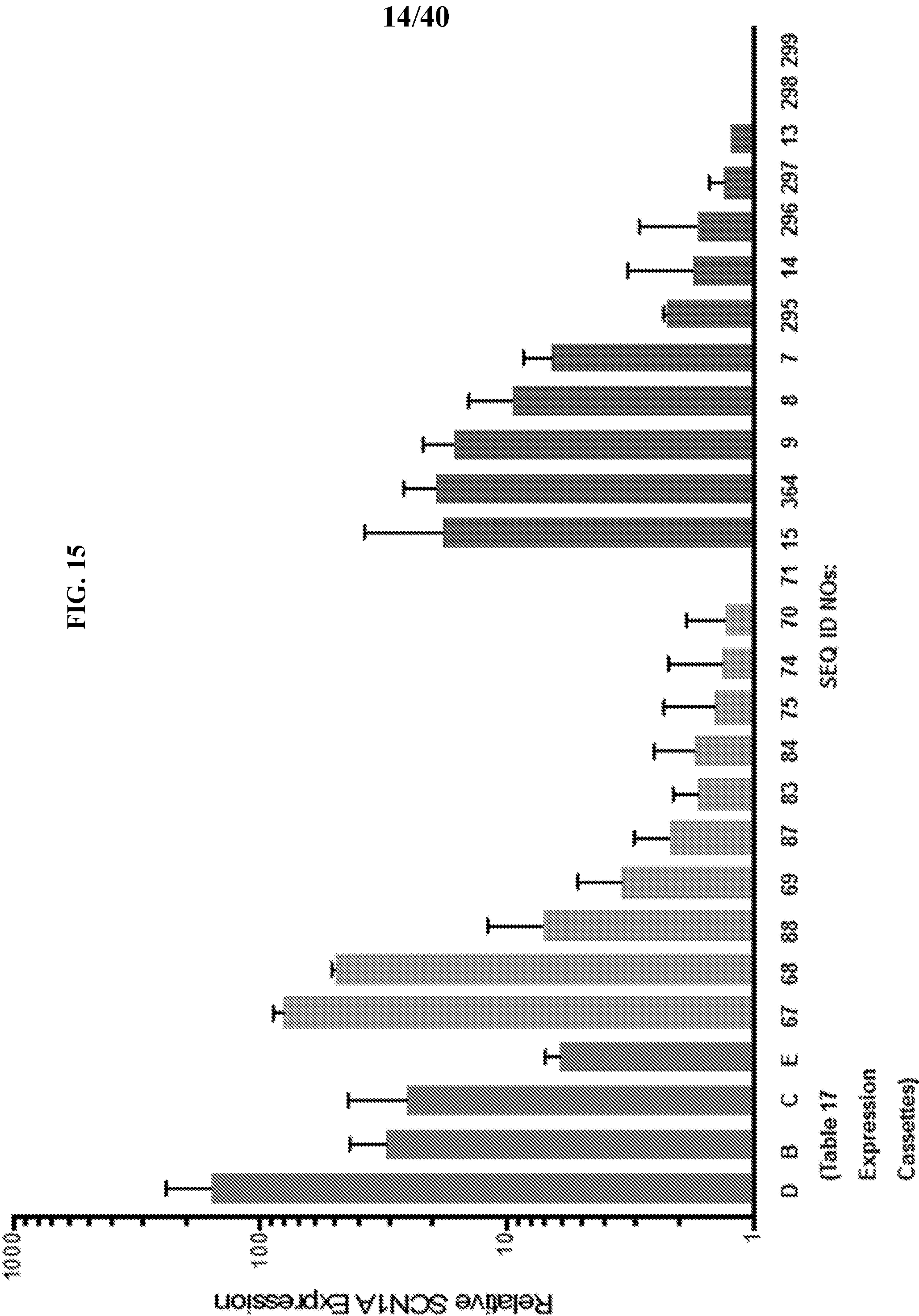


FIG. 16A

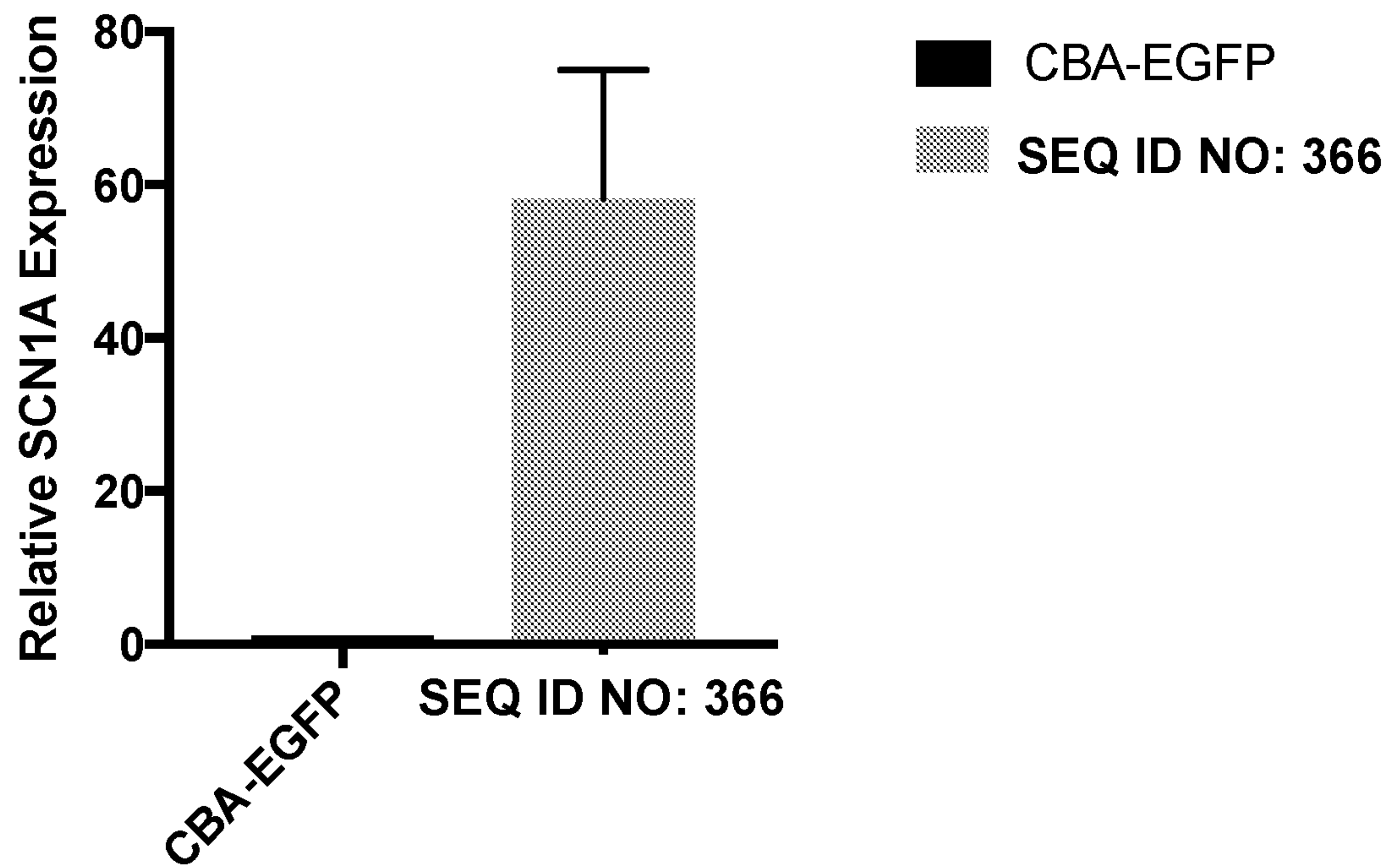


FIG. 16B

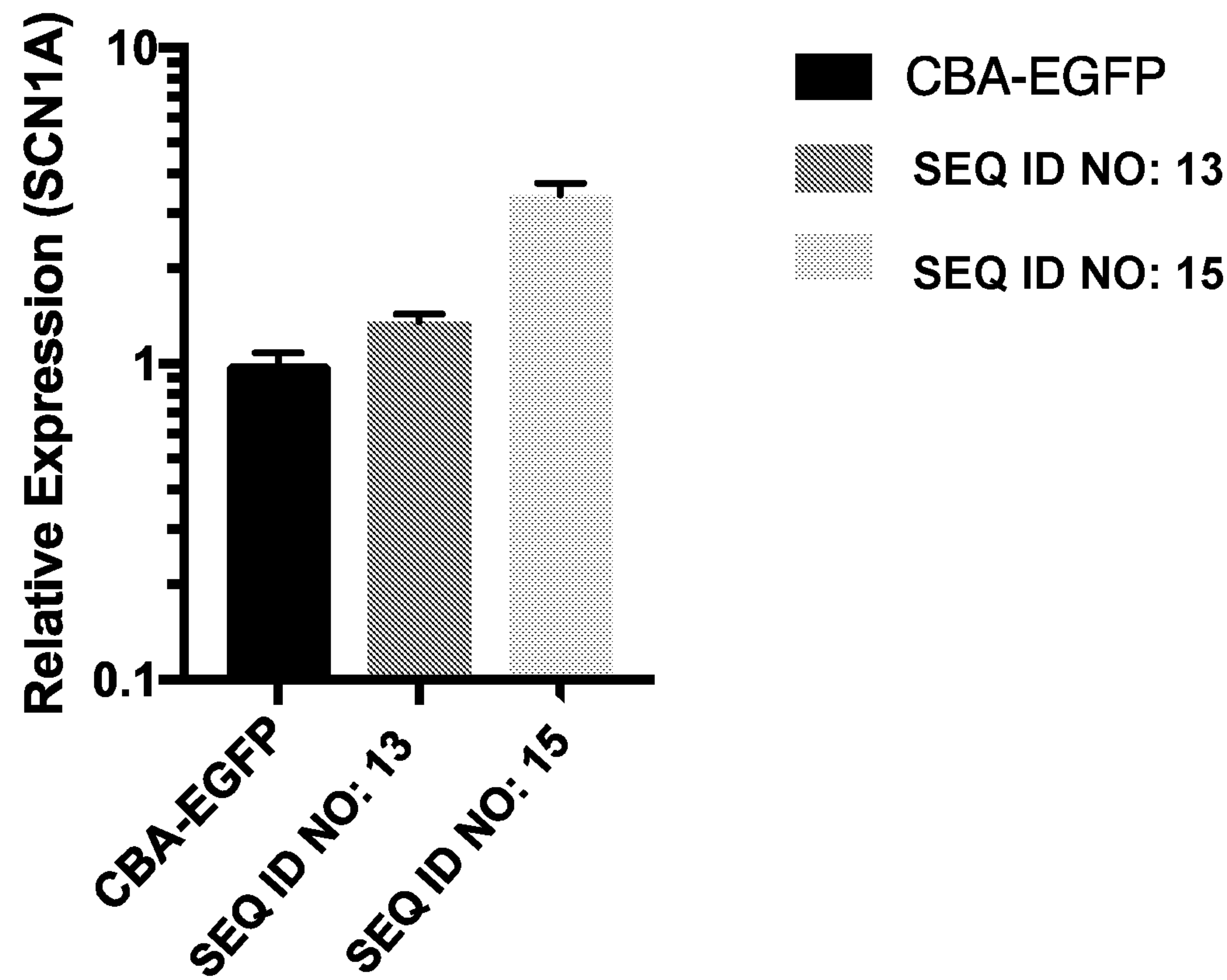




FIG. 18A

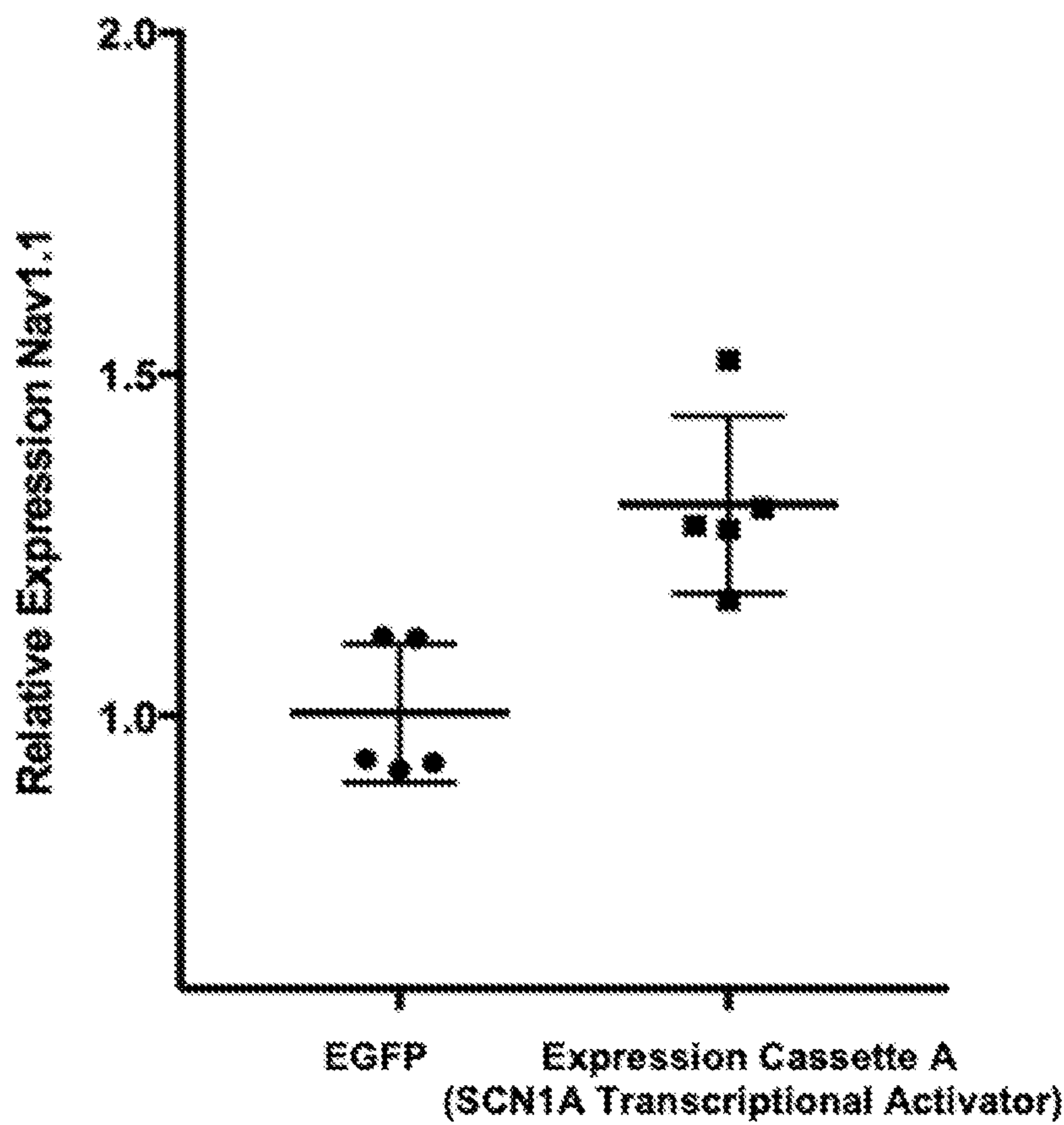


FIG. 18B

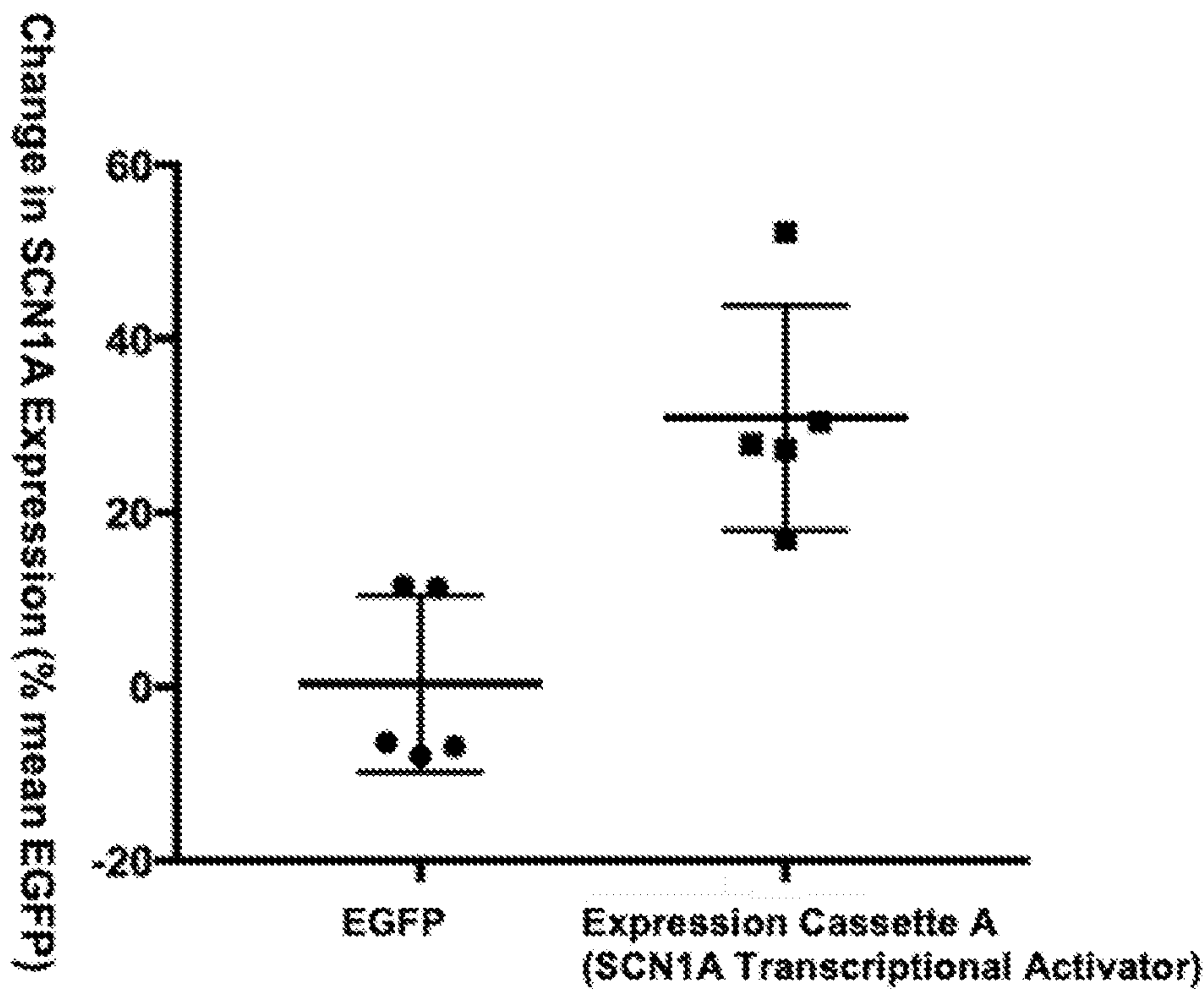


FIG. 19A

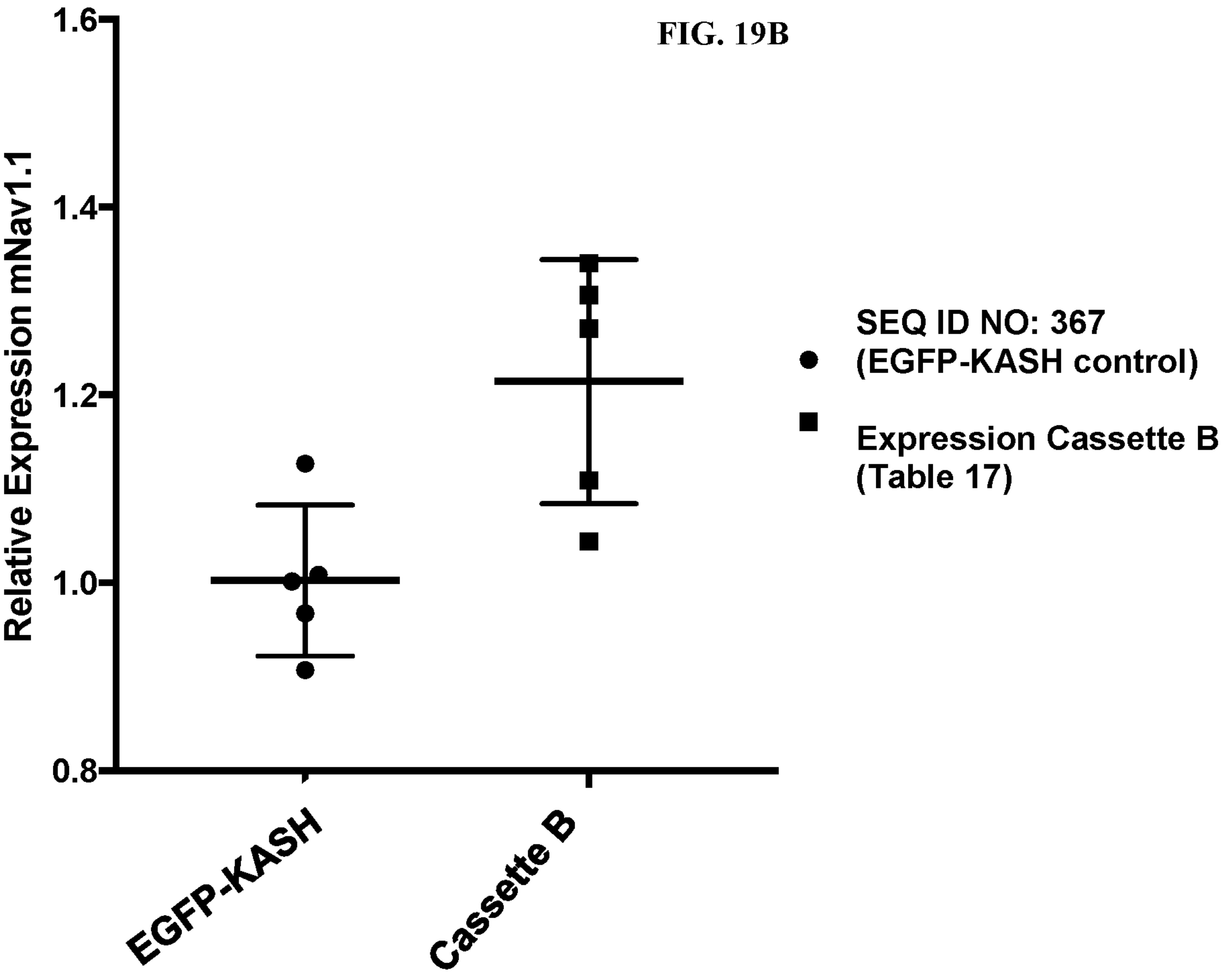
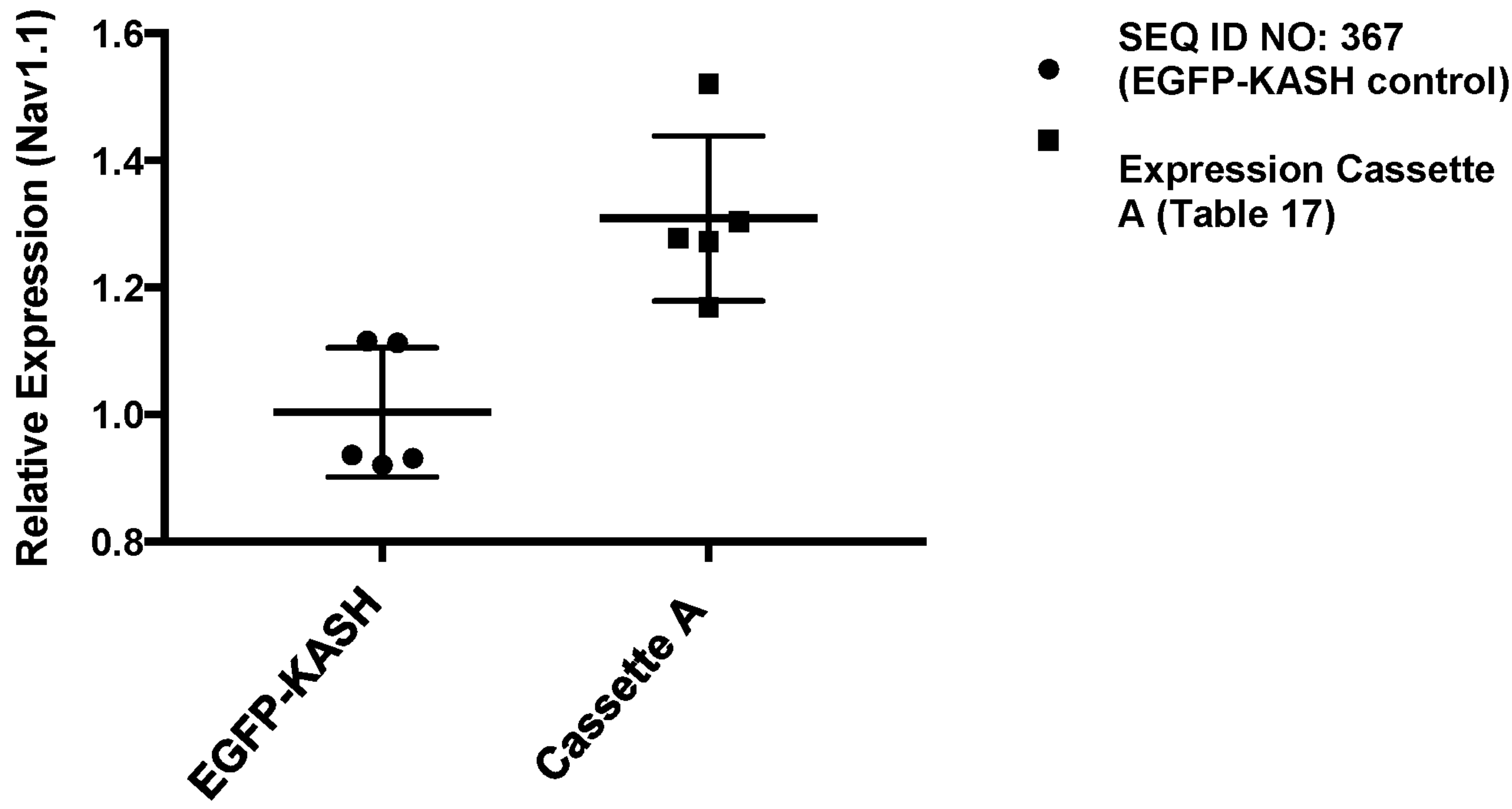
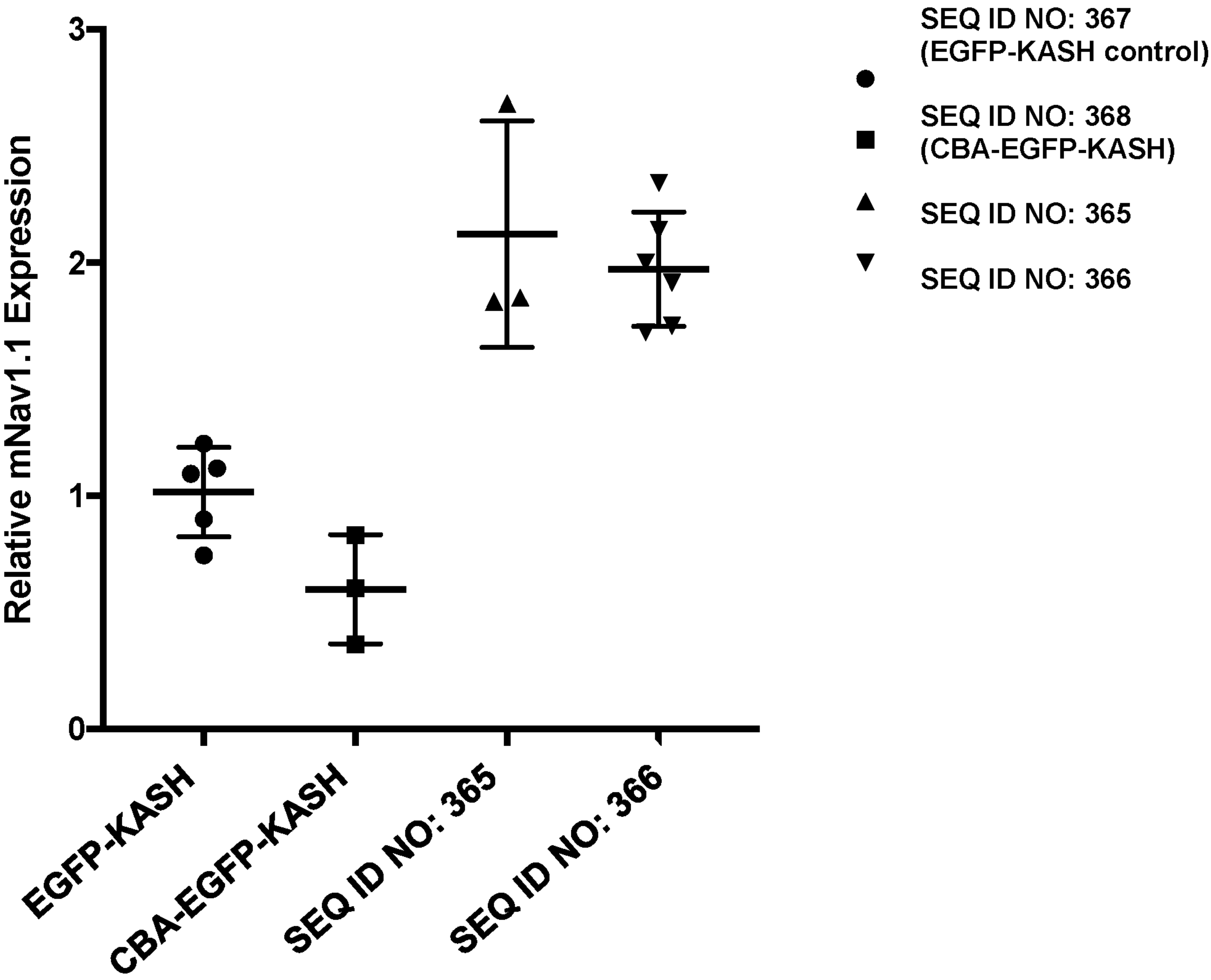


FIG. 19C



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FIG. 20A

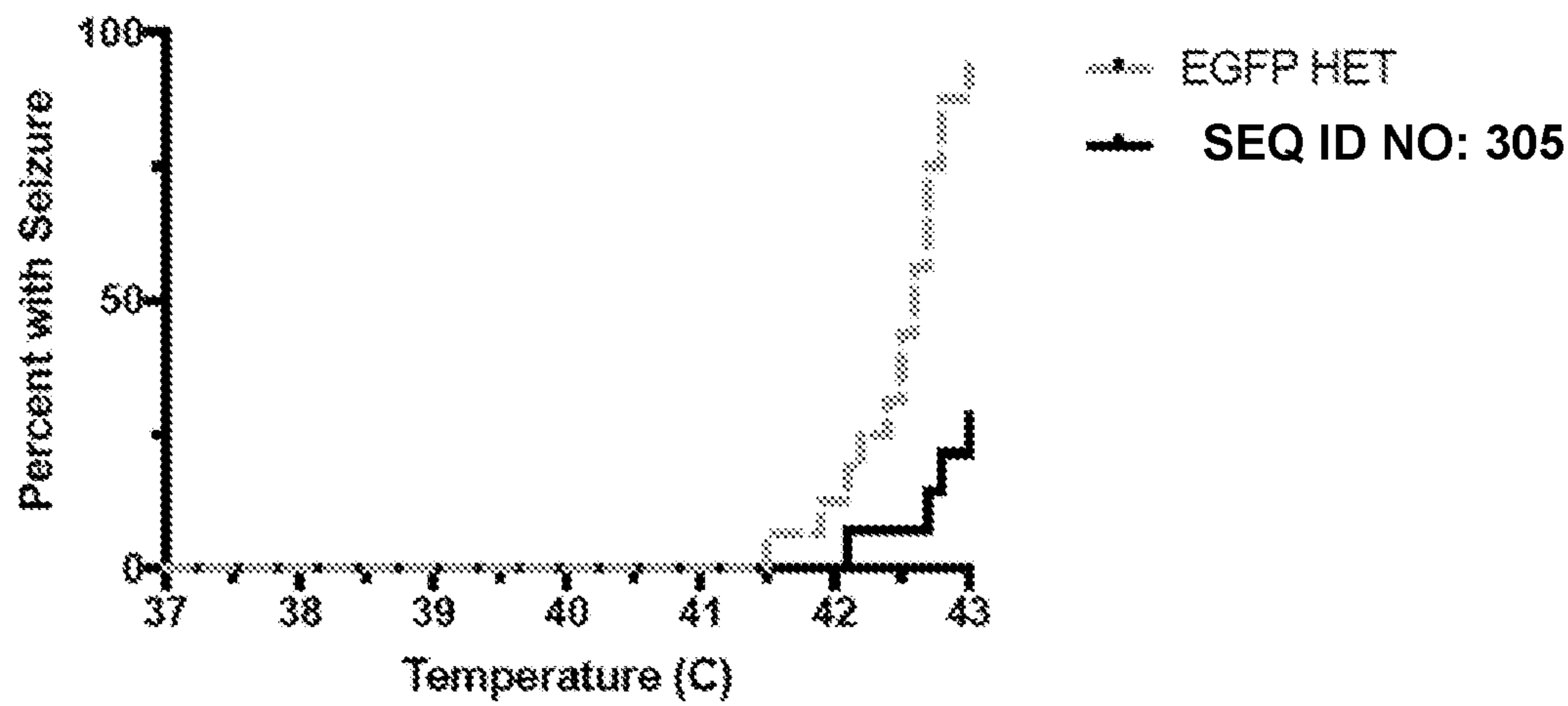


FIG. 20B

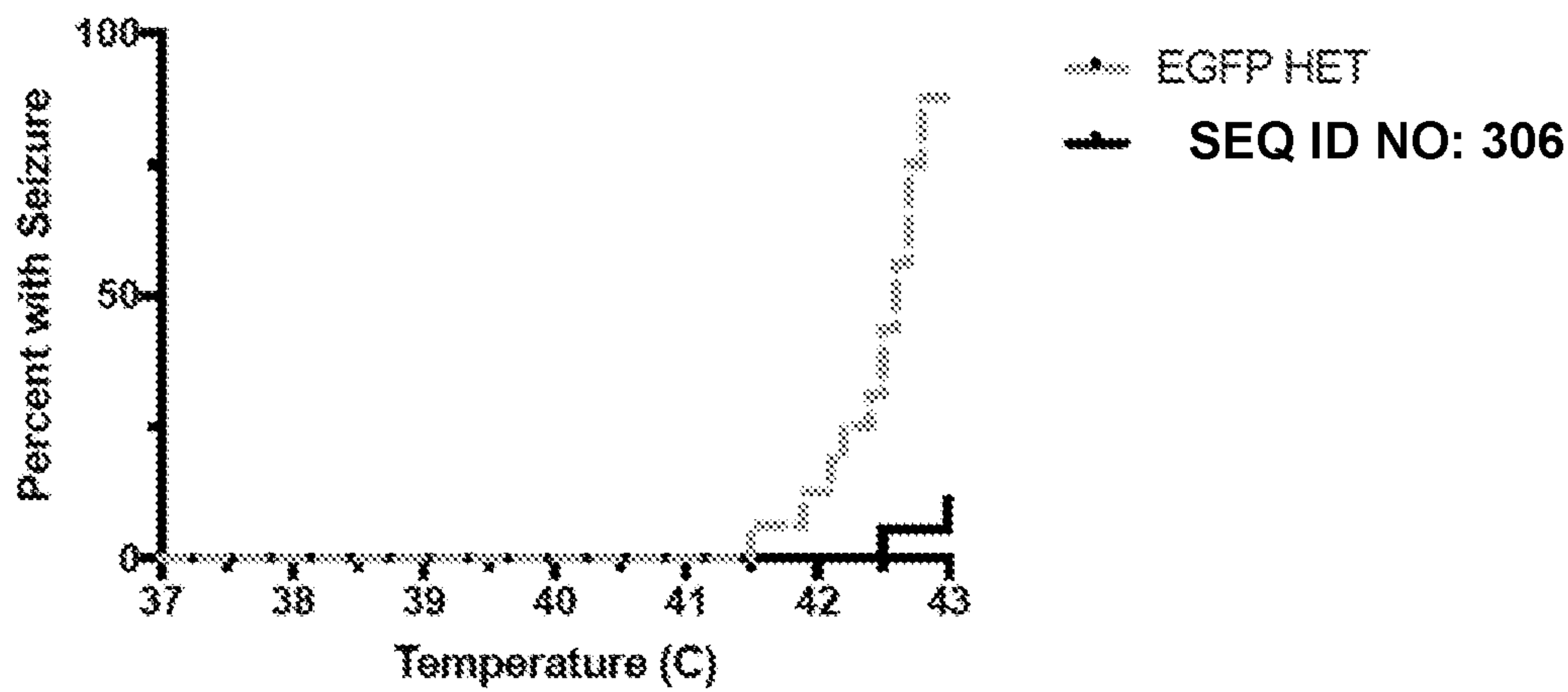


FIG. 20C

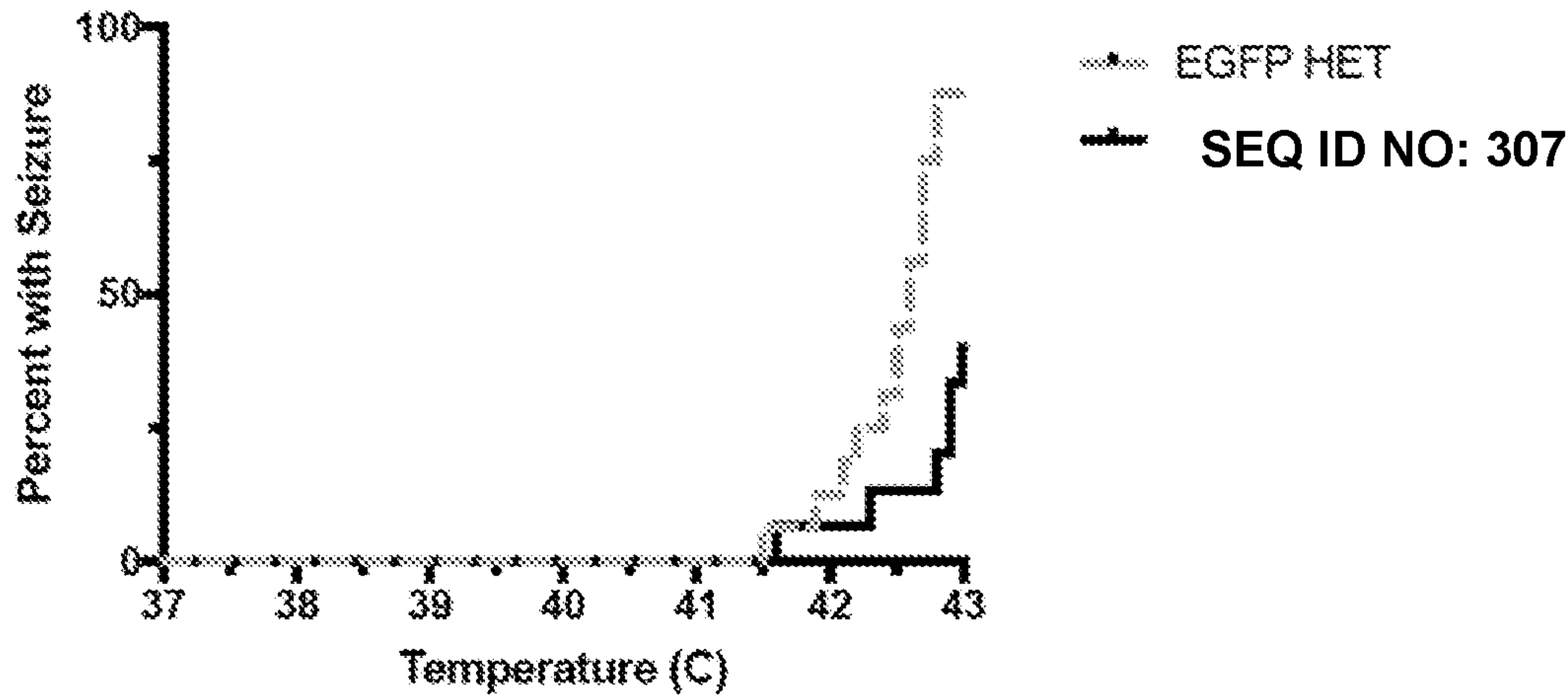


FIG. 20D

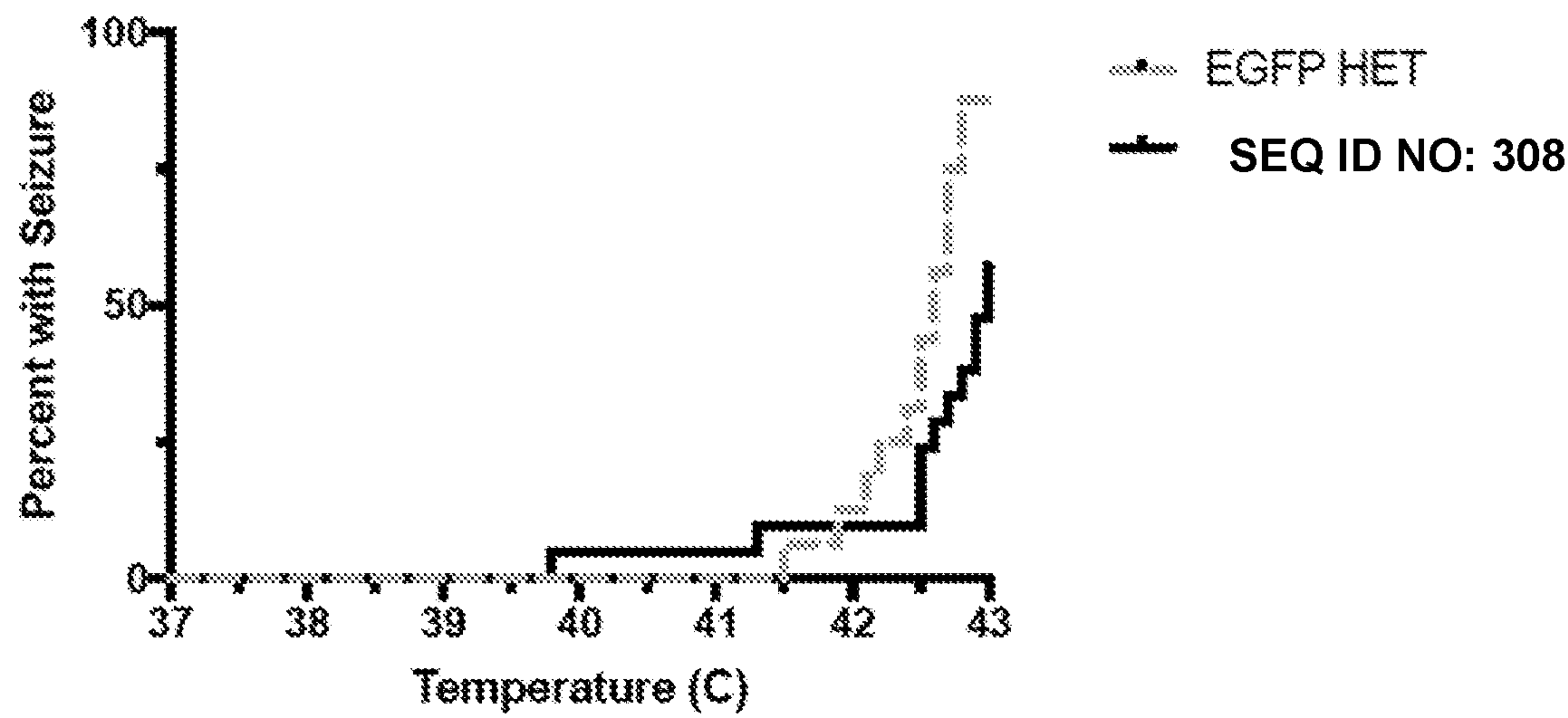


FIG. 20E

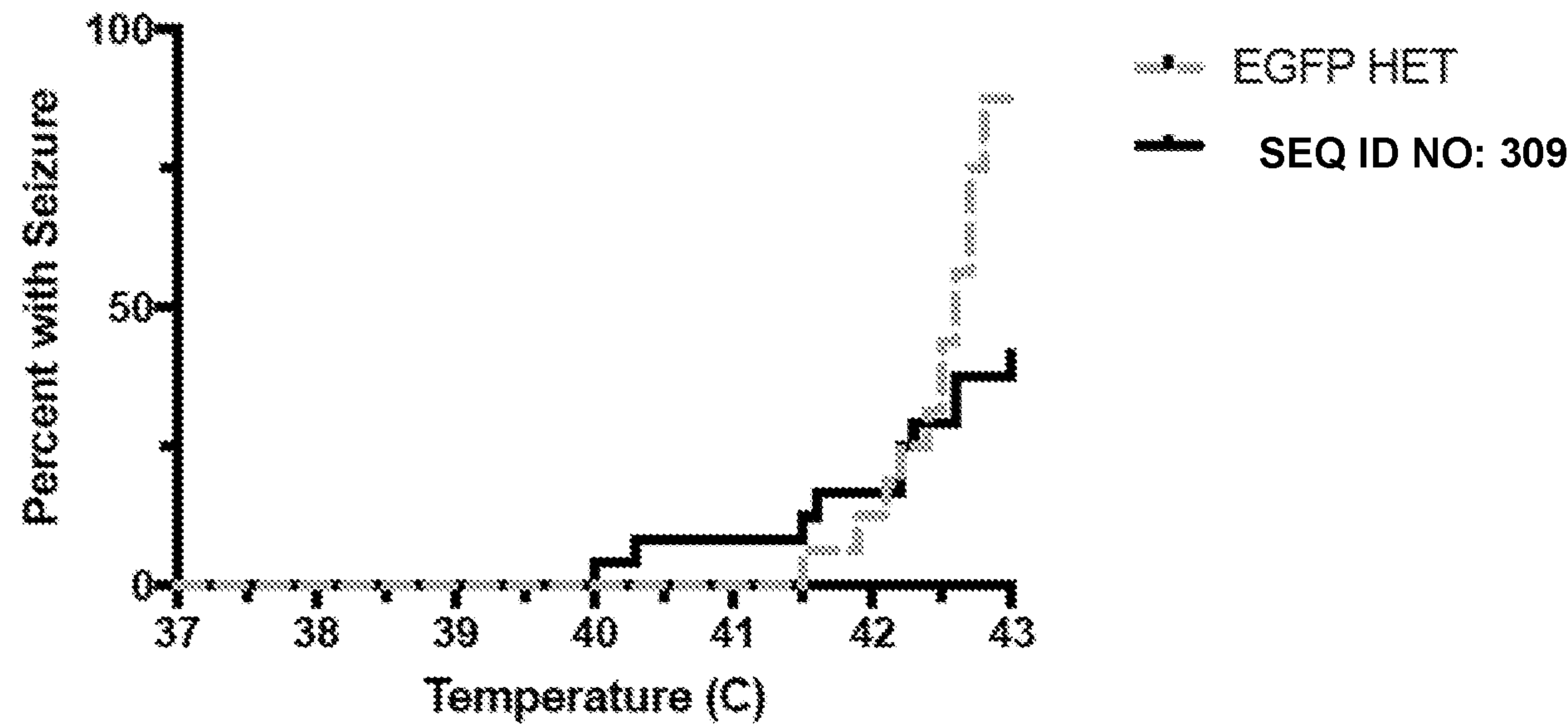


FIG. 21A

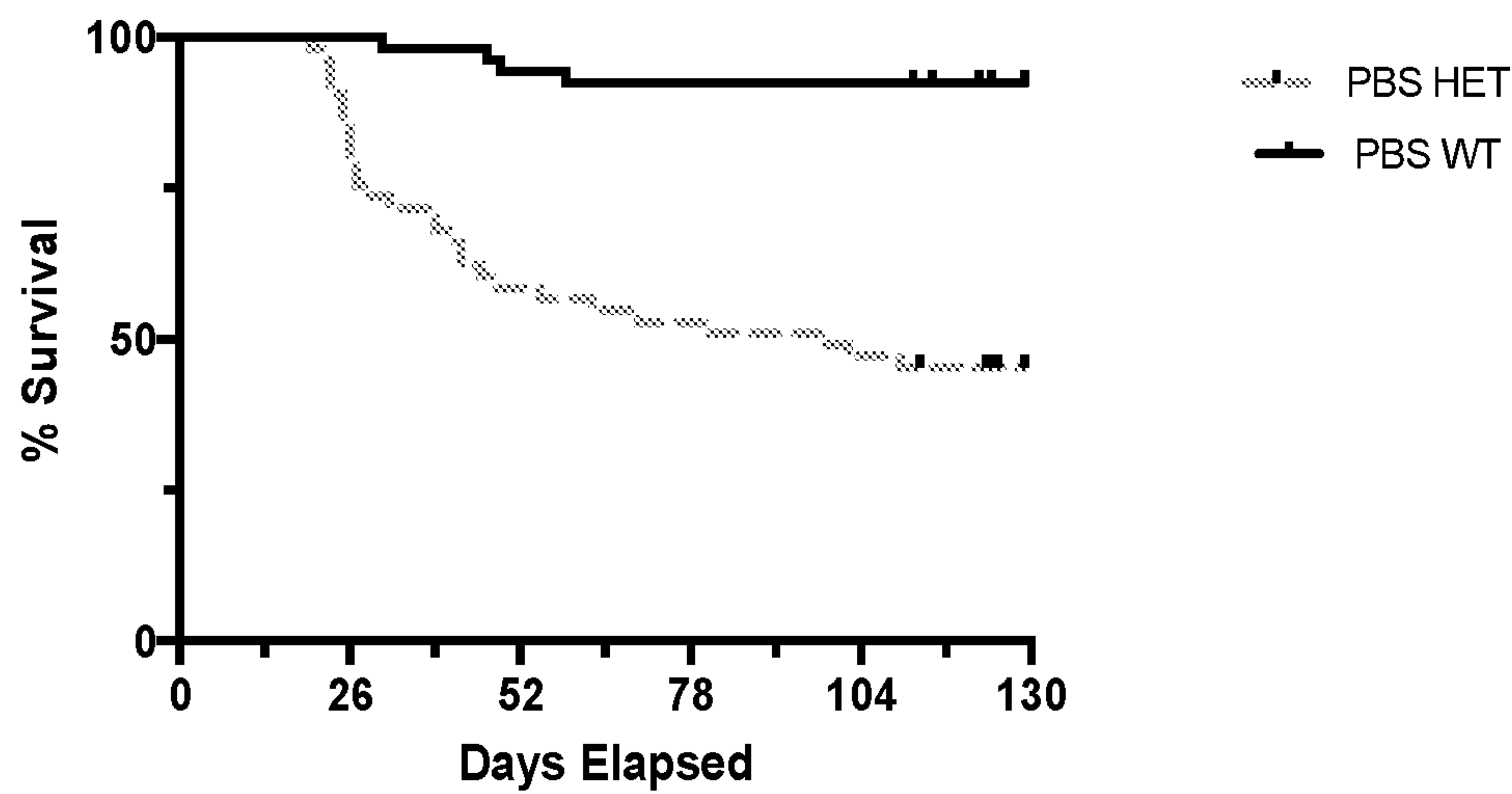


FIG. 21B

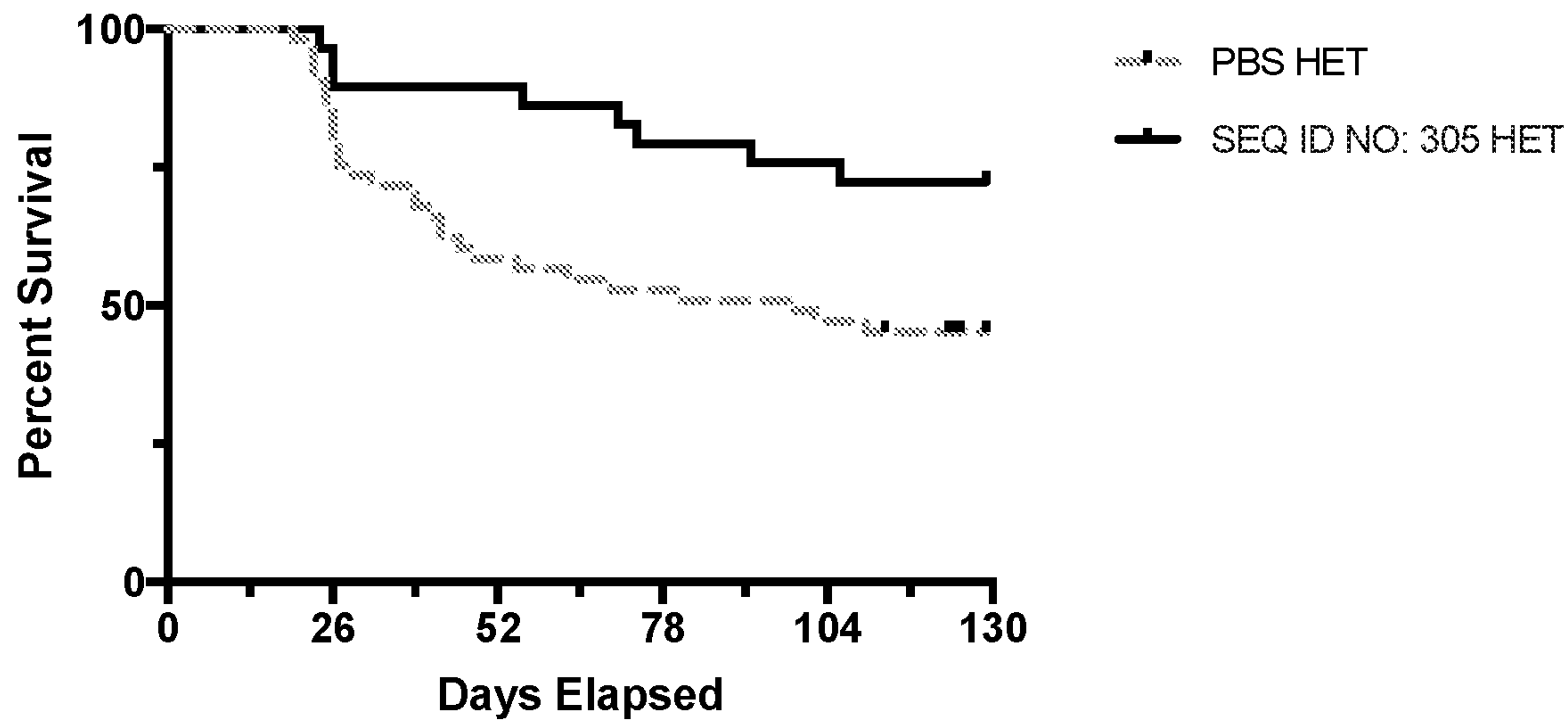


FIG. 21C

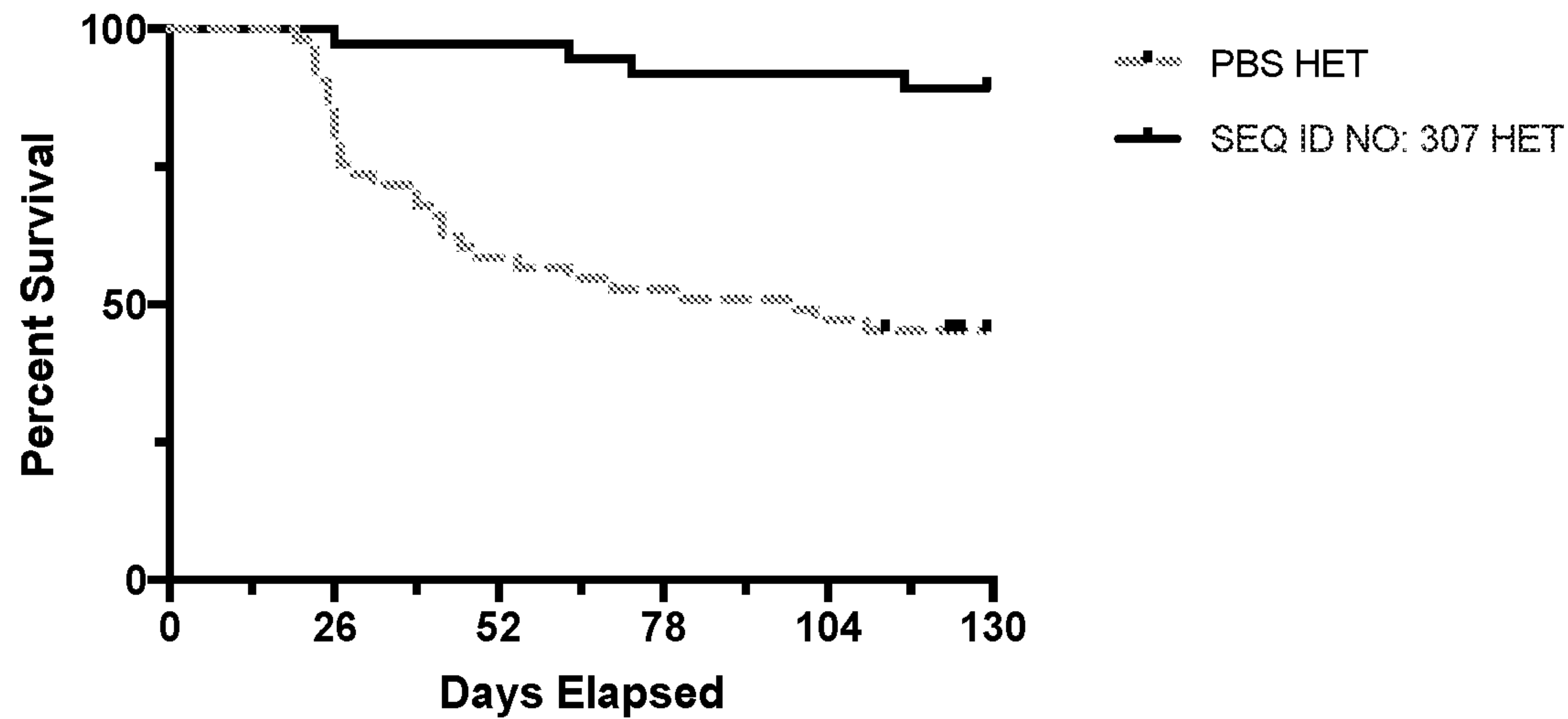


FIG. 21D

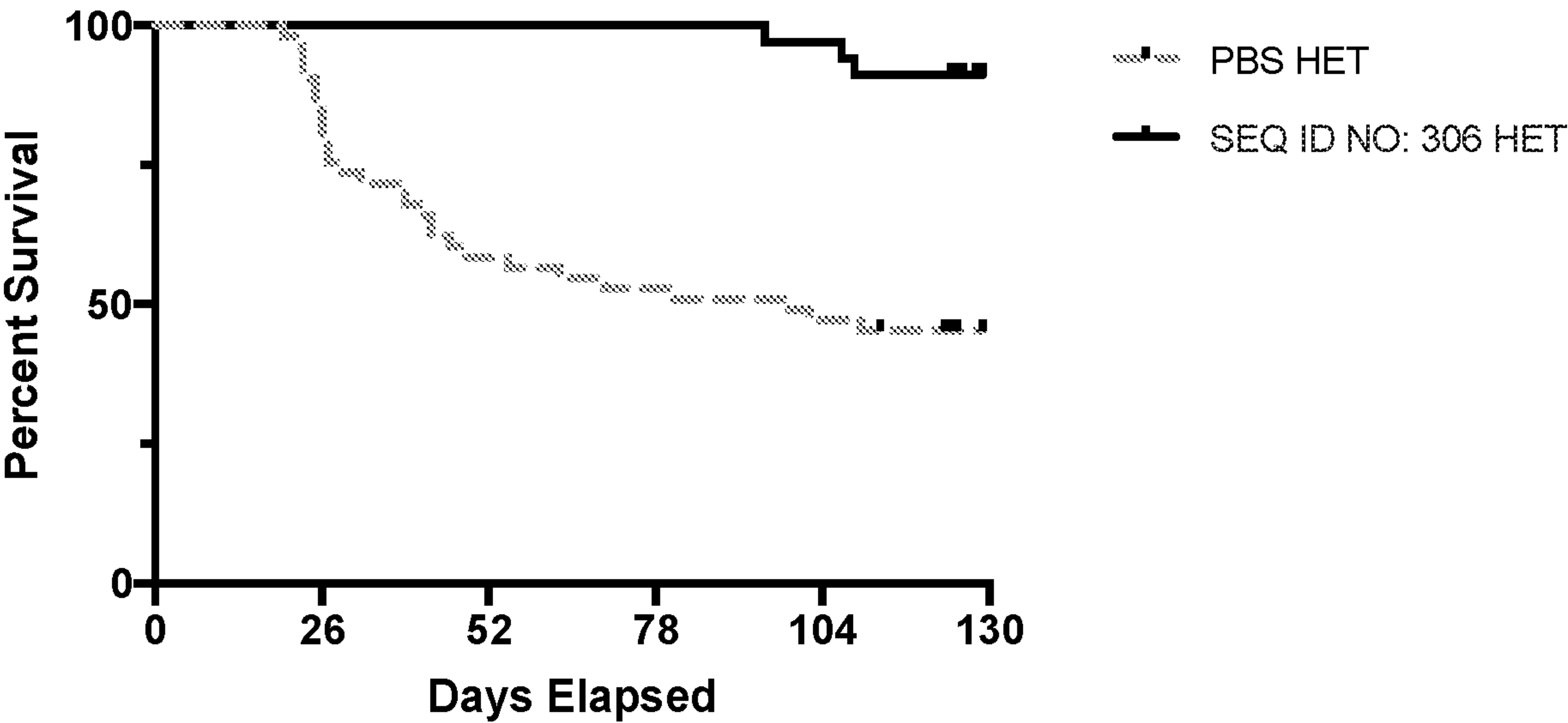


FIG. 21E

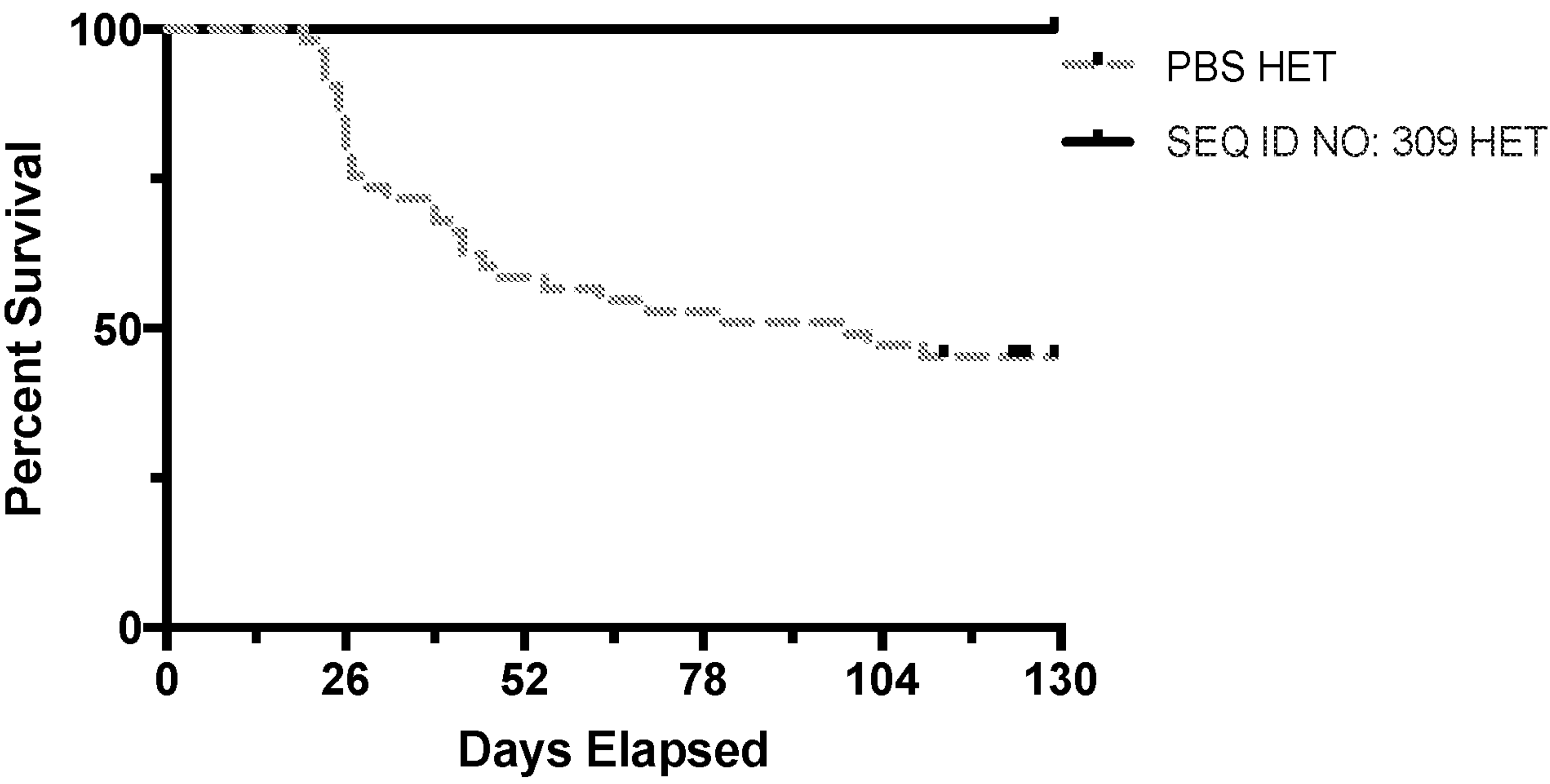


FIG. 22

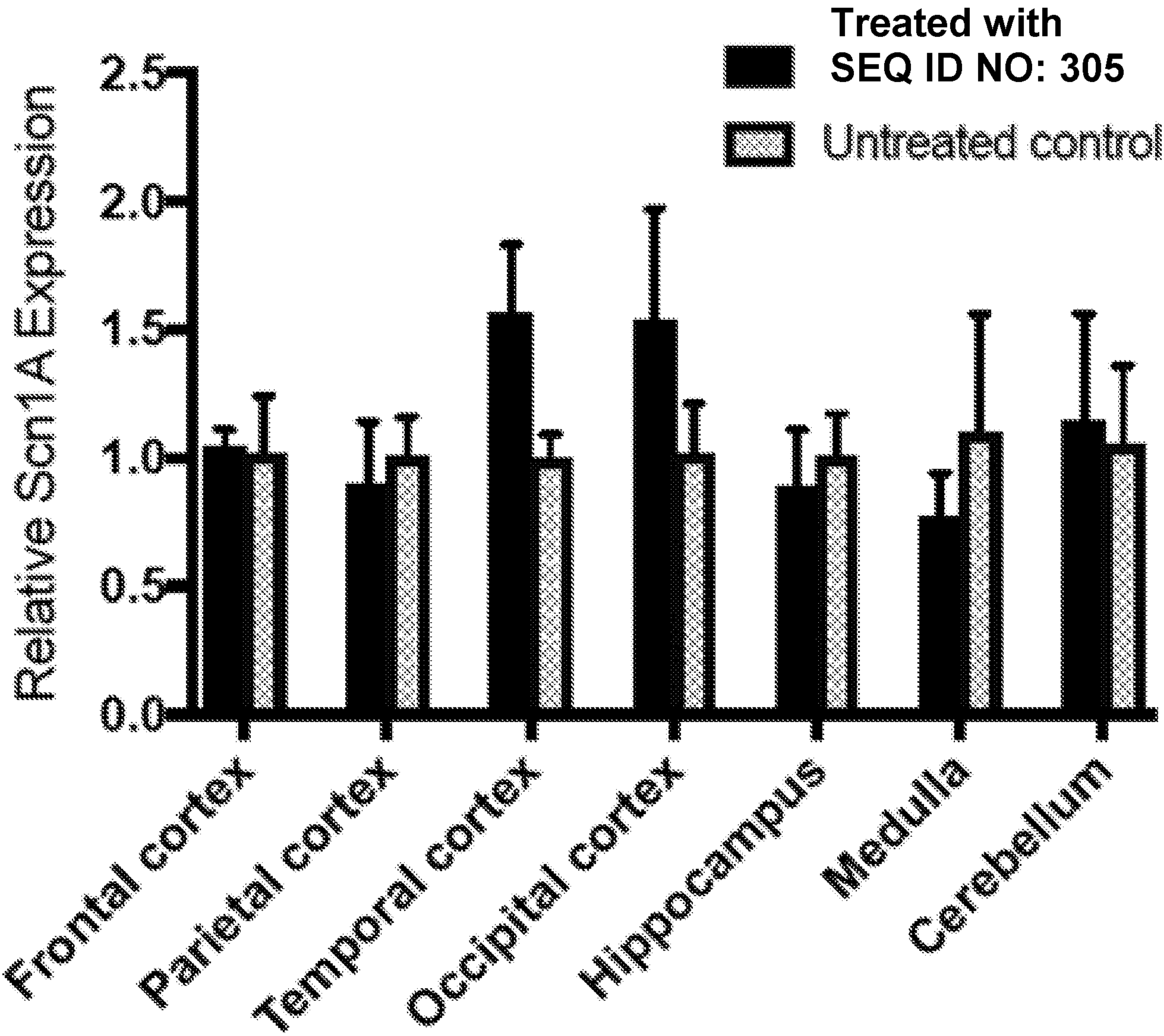




FIG. 24A

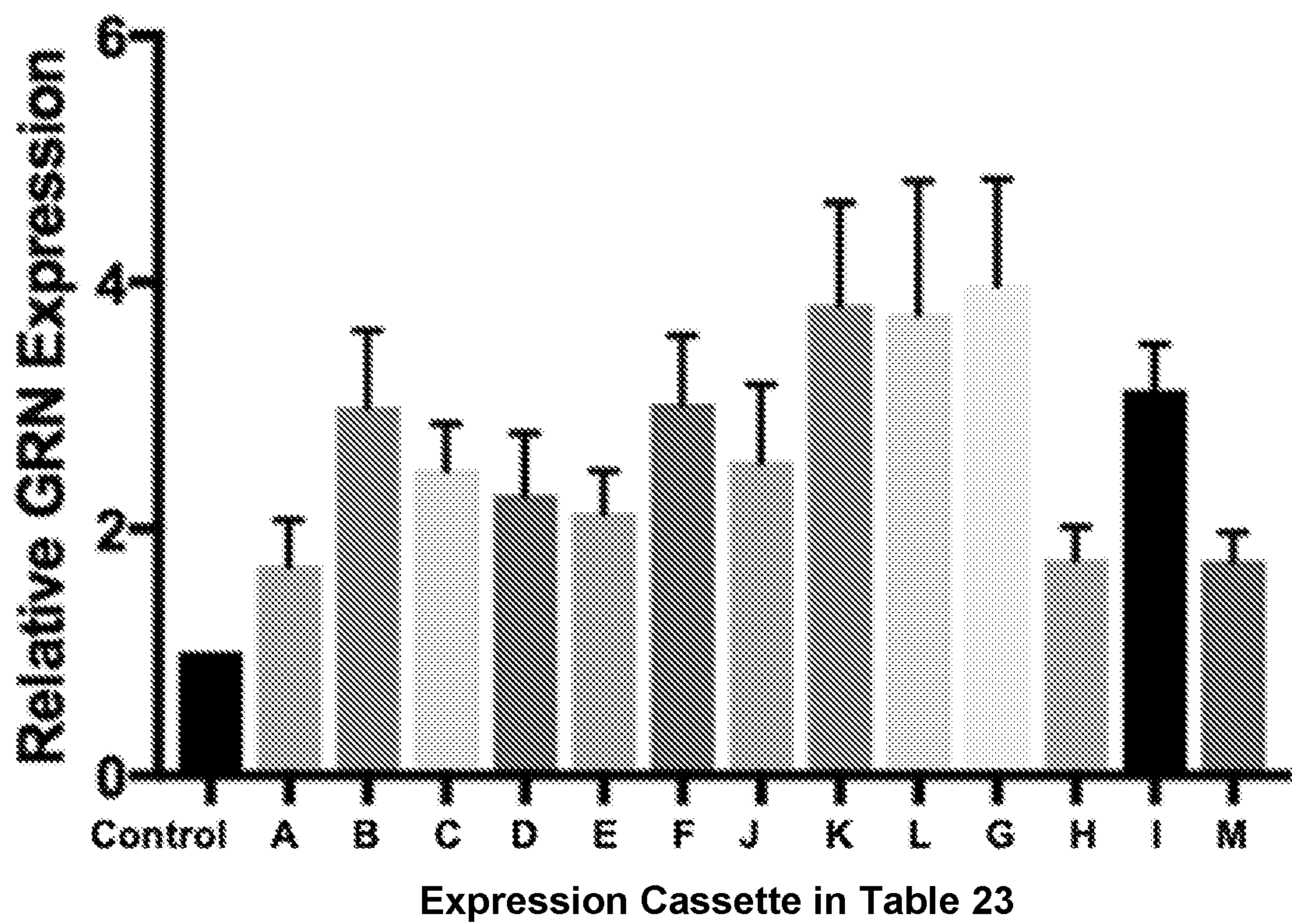


FIG. 24B

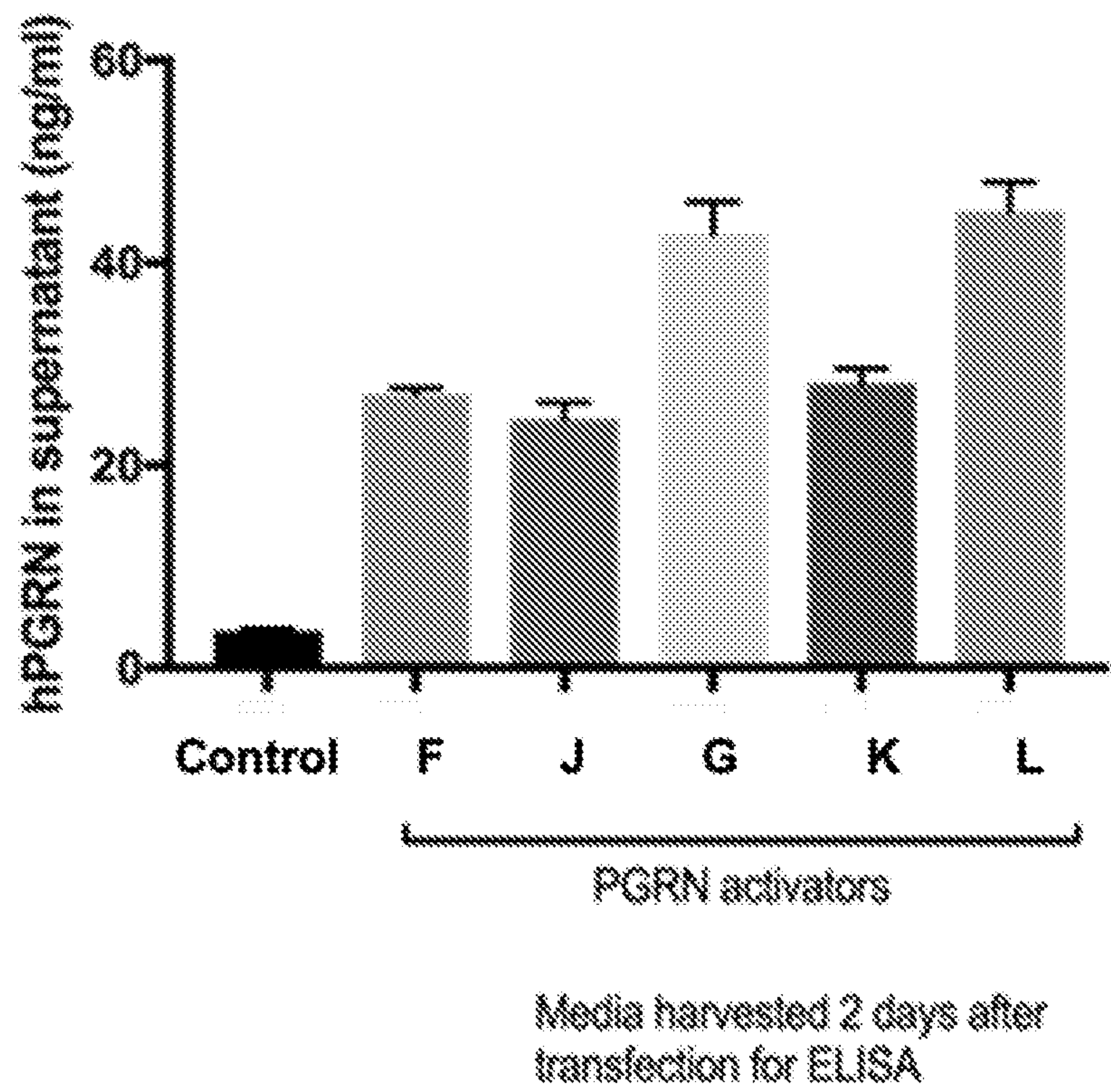


FIG. 25

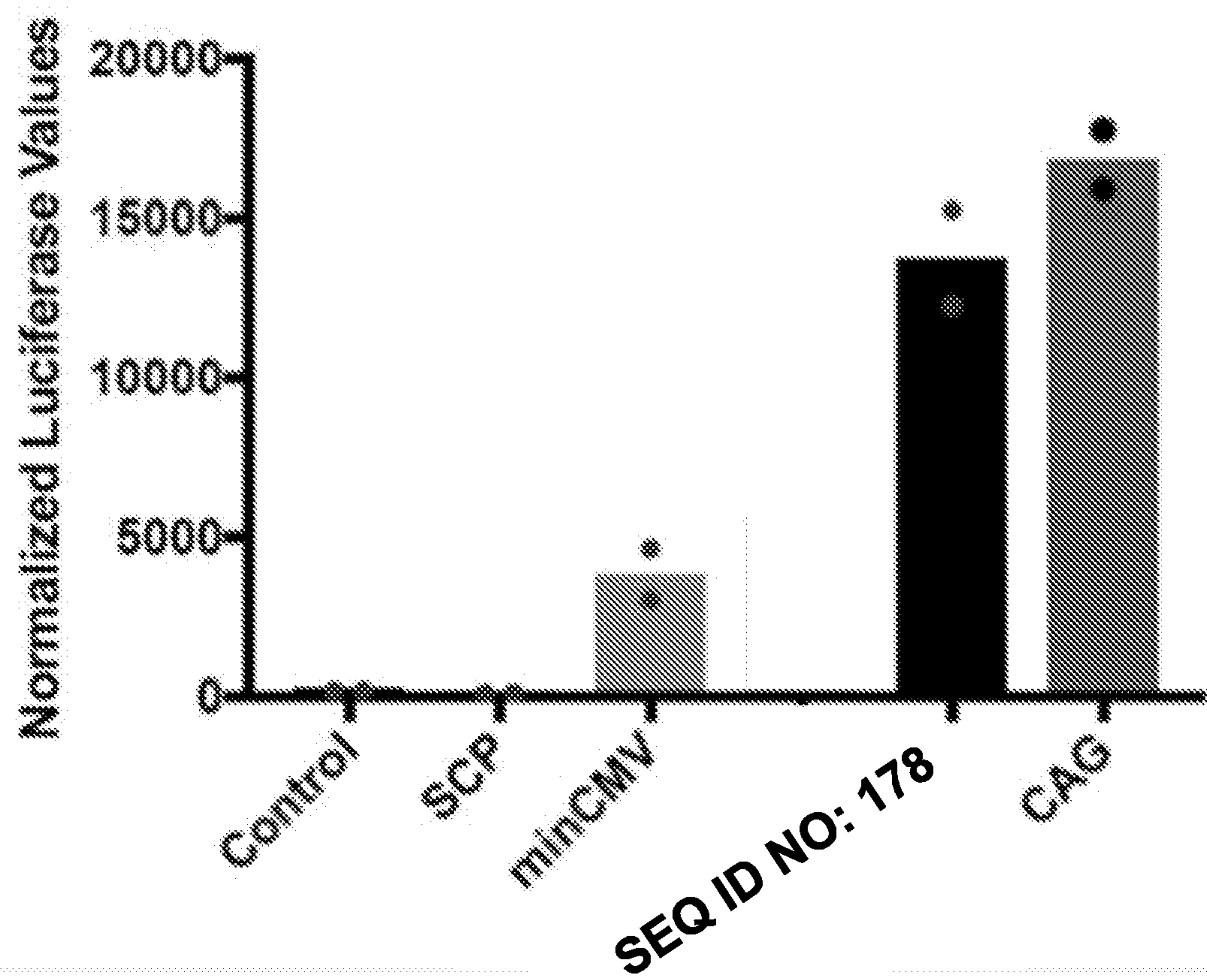


FIG. 26

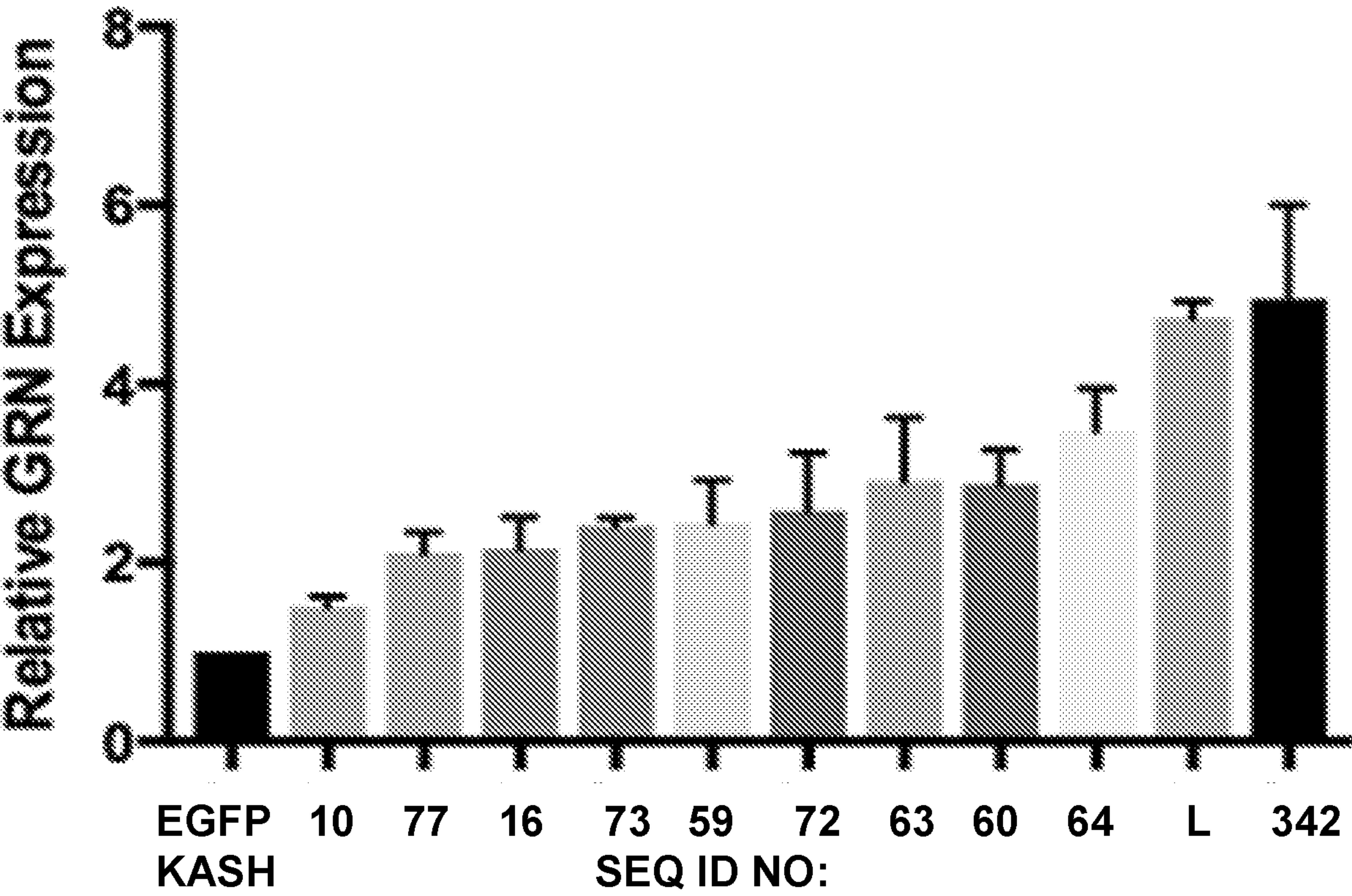


FIG. 27

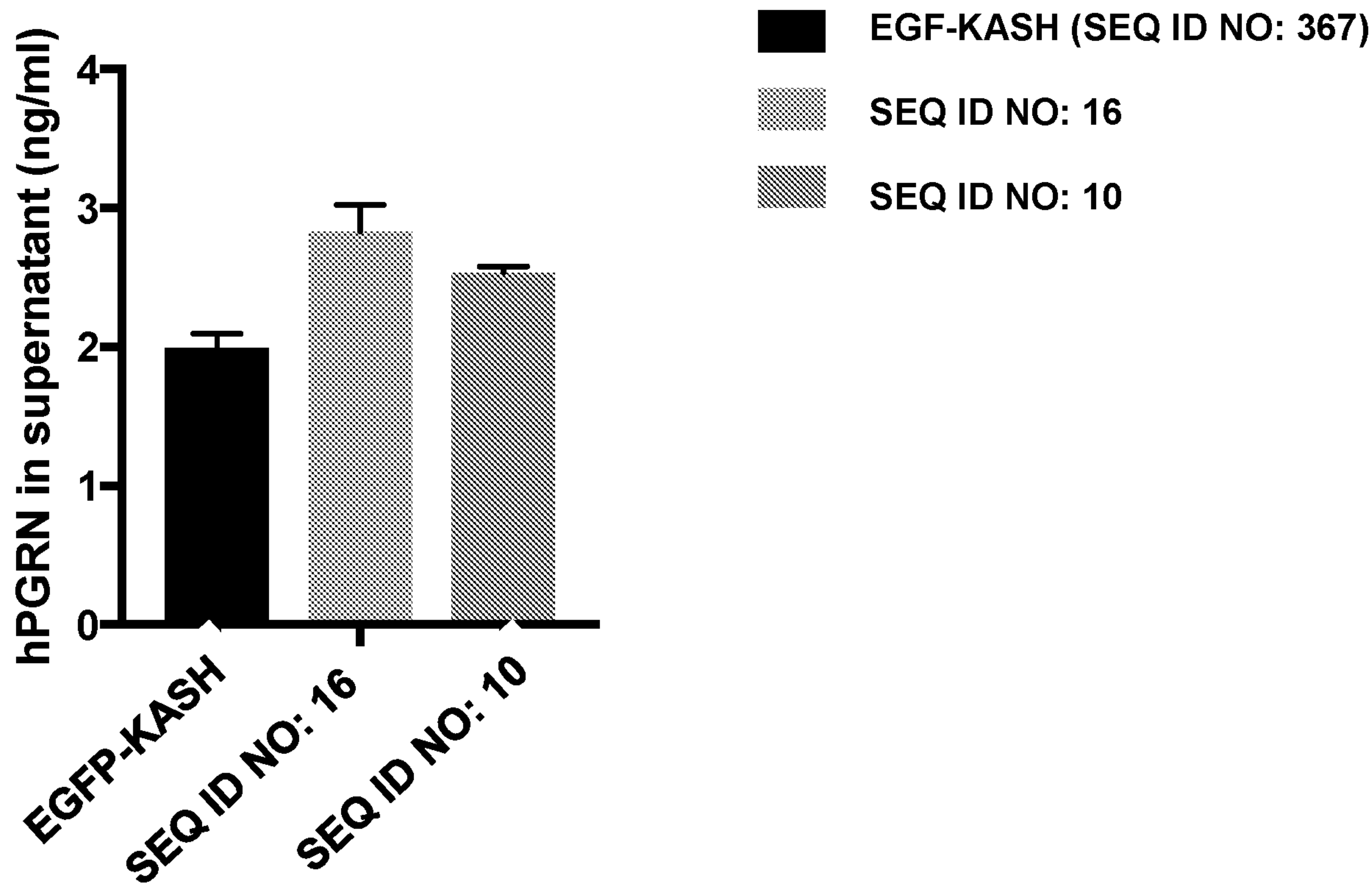


FIG. 28

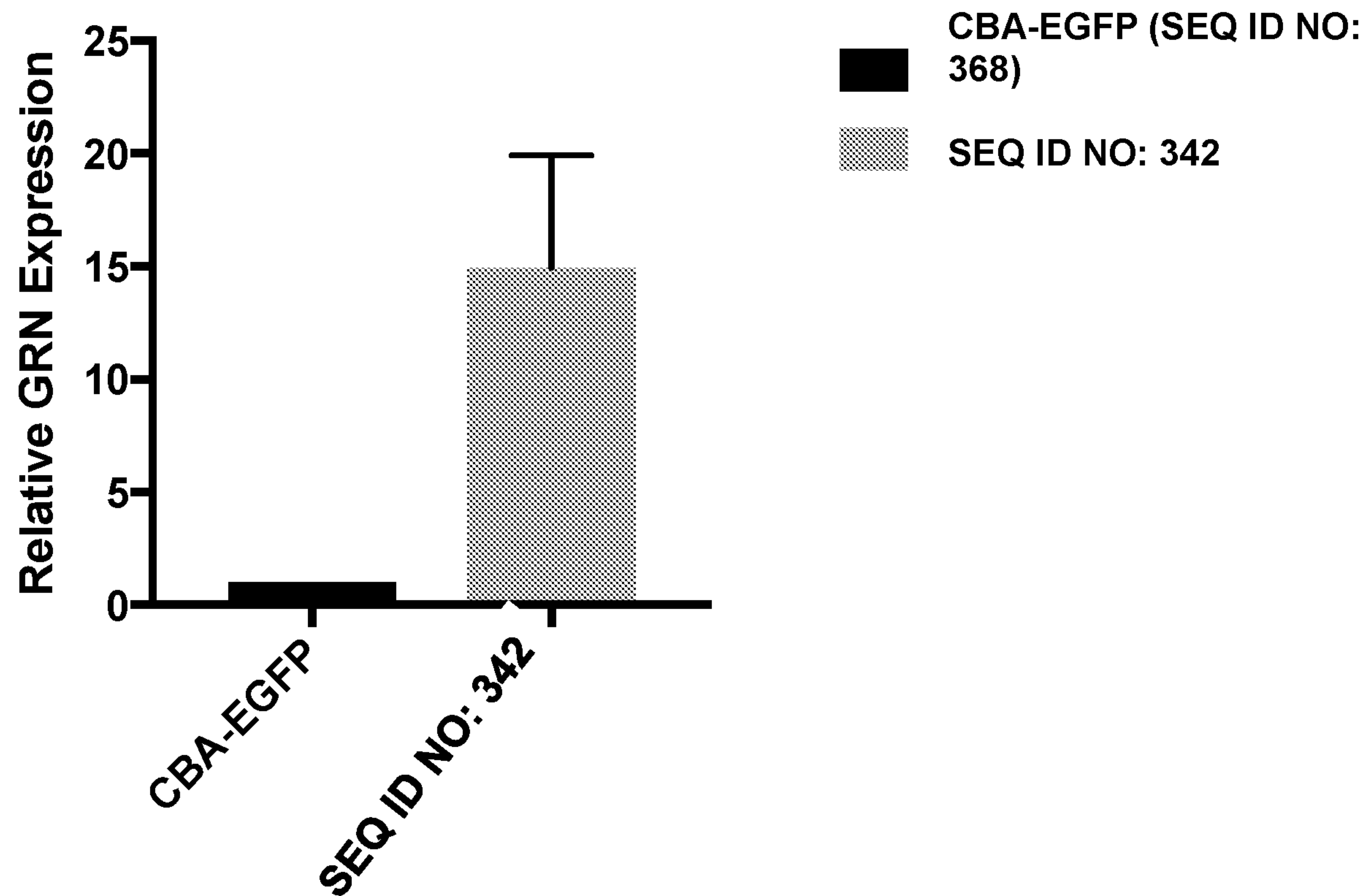


FIG. 29

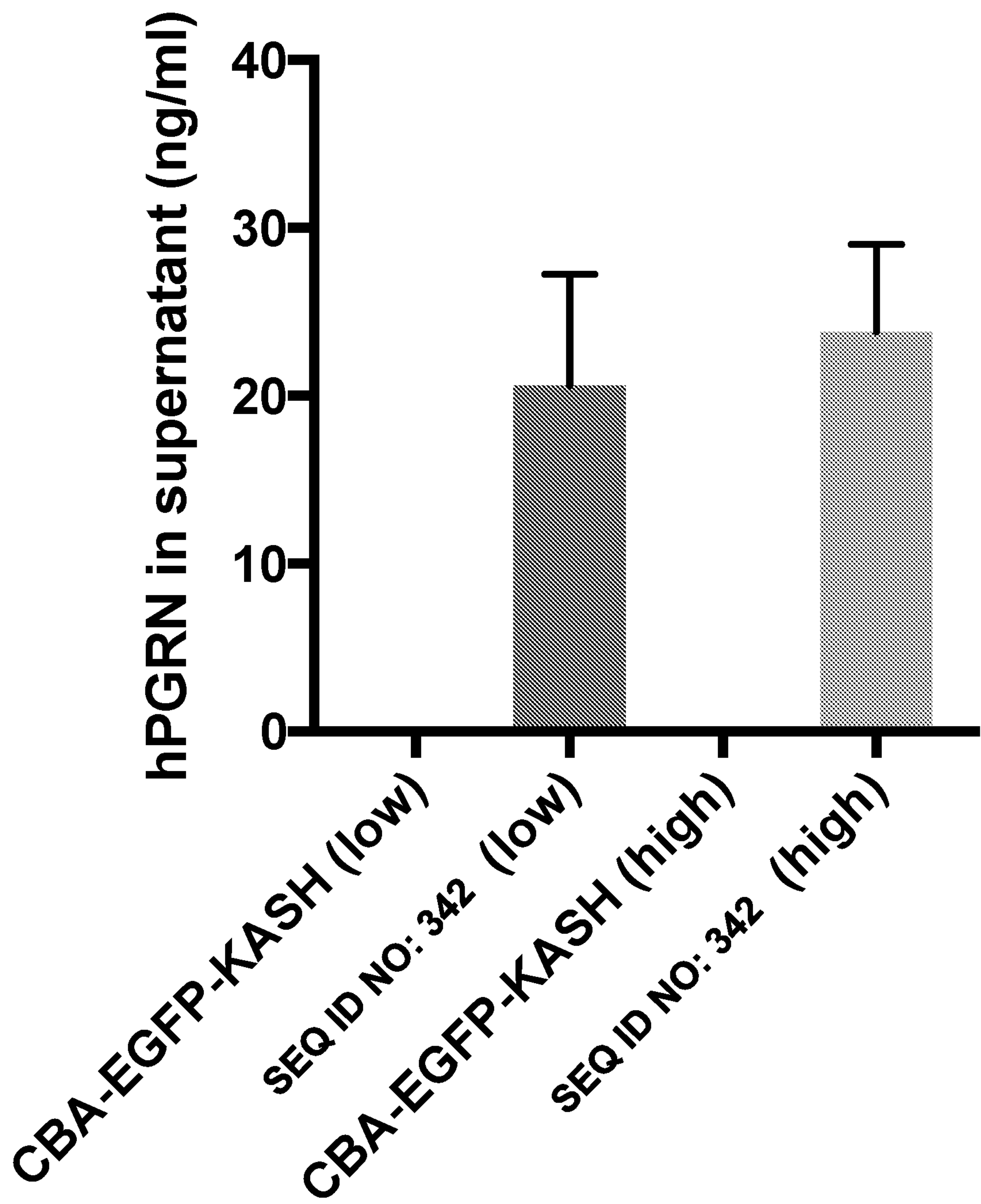


FIG. 30

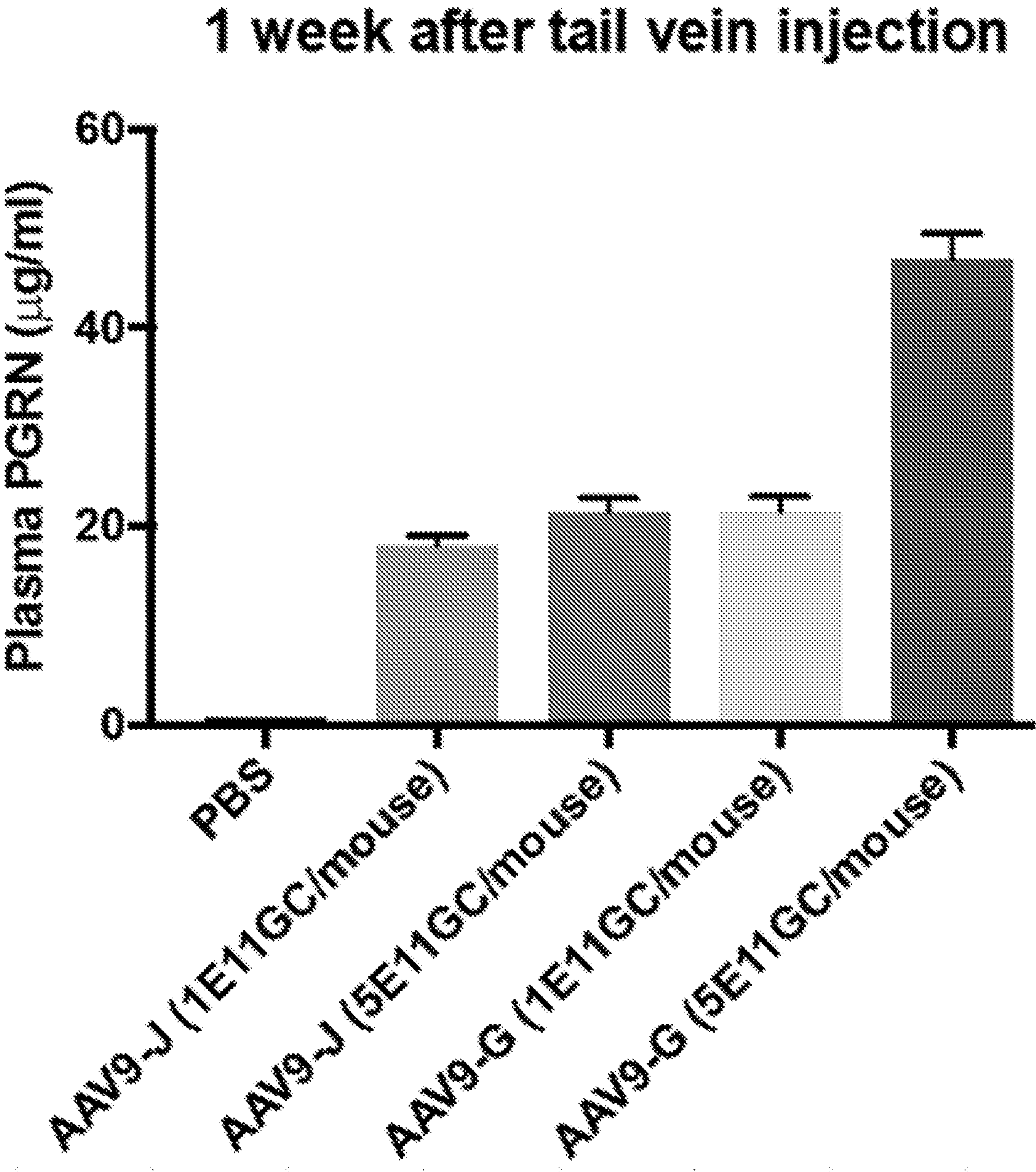


FIG. 31A

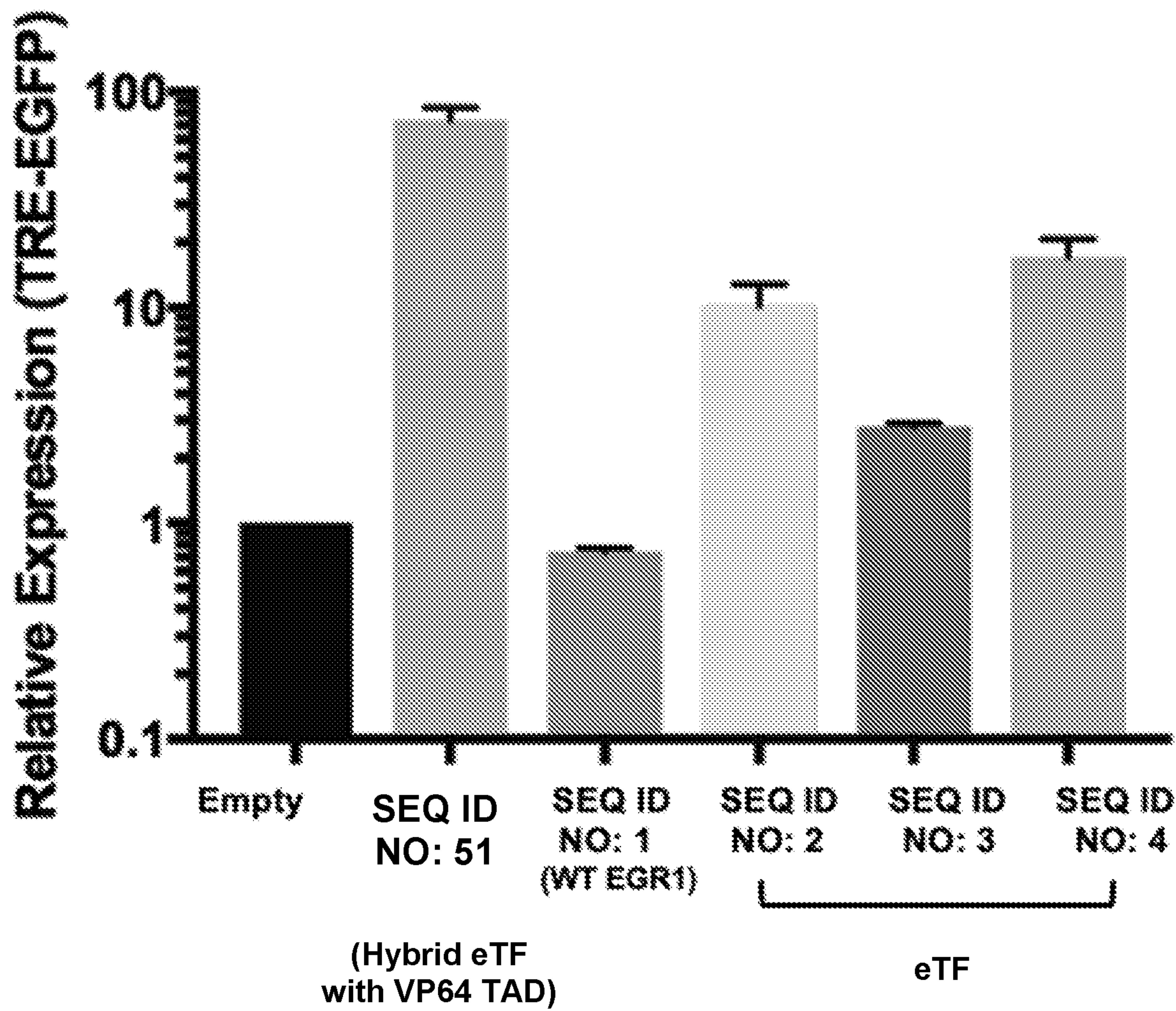


FIG. 31B

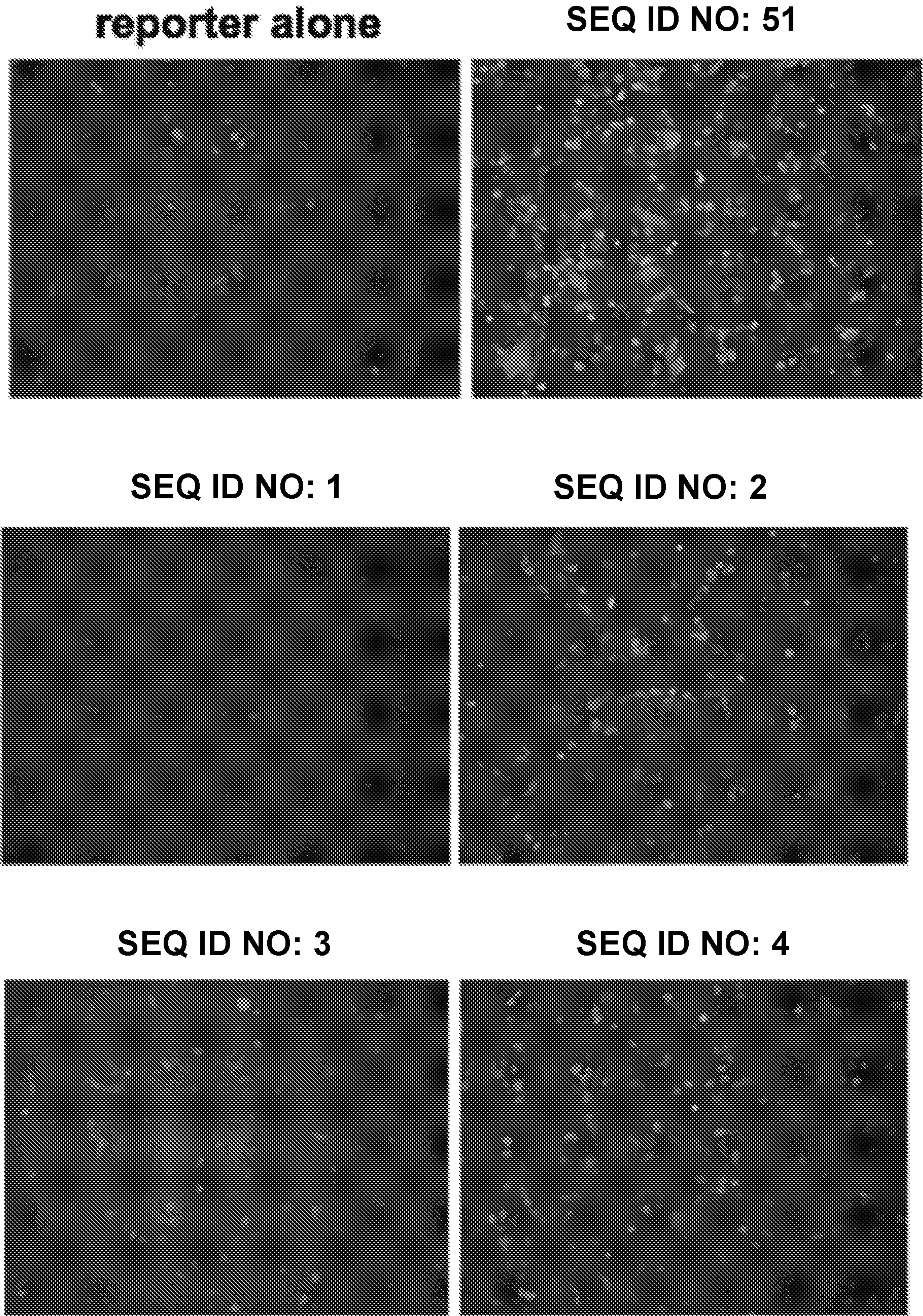


FIG. 32

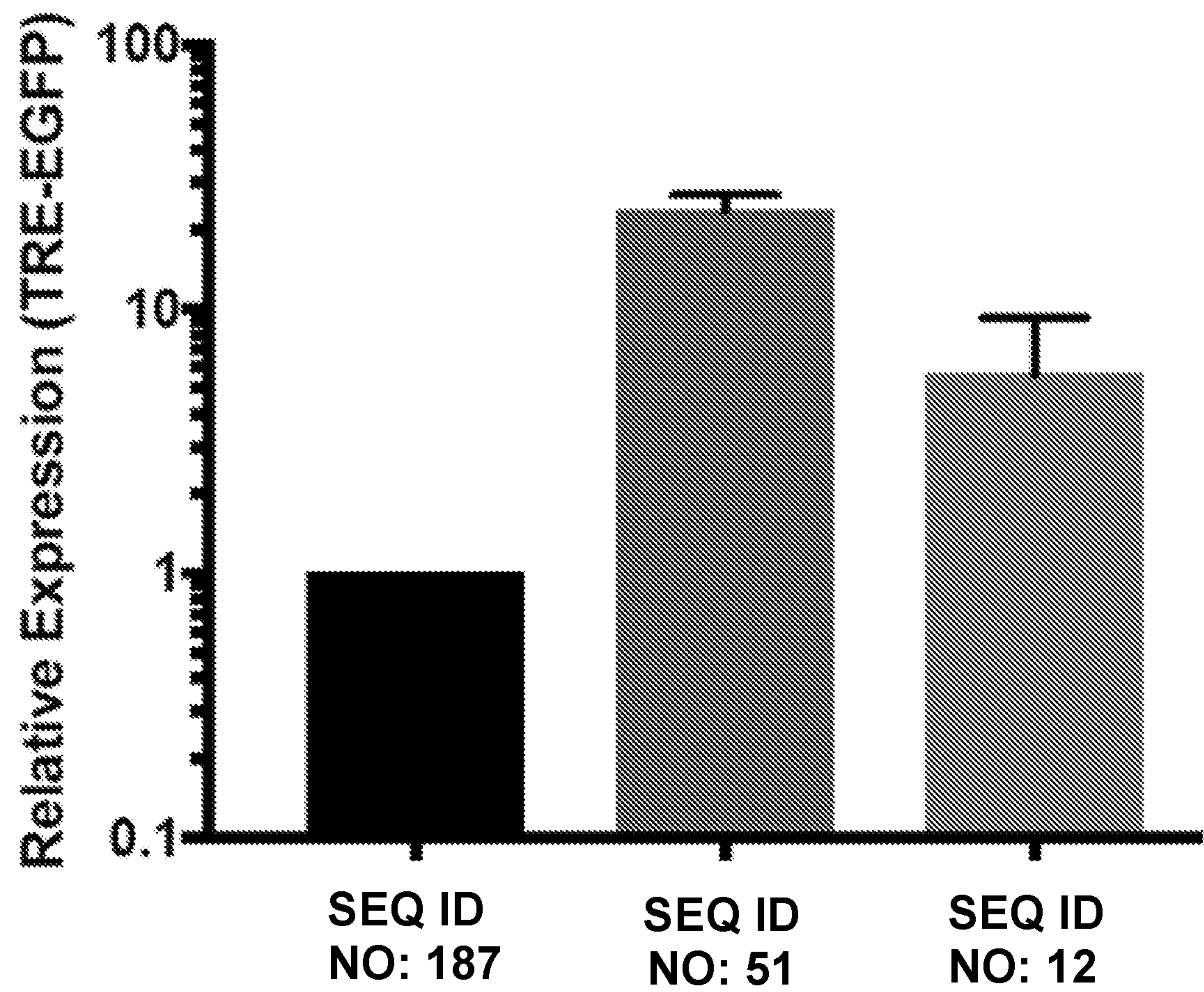


FIG. 33A

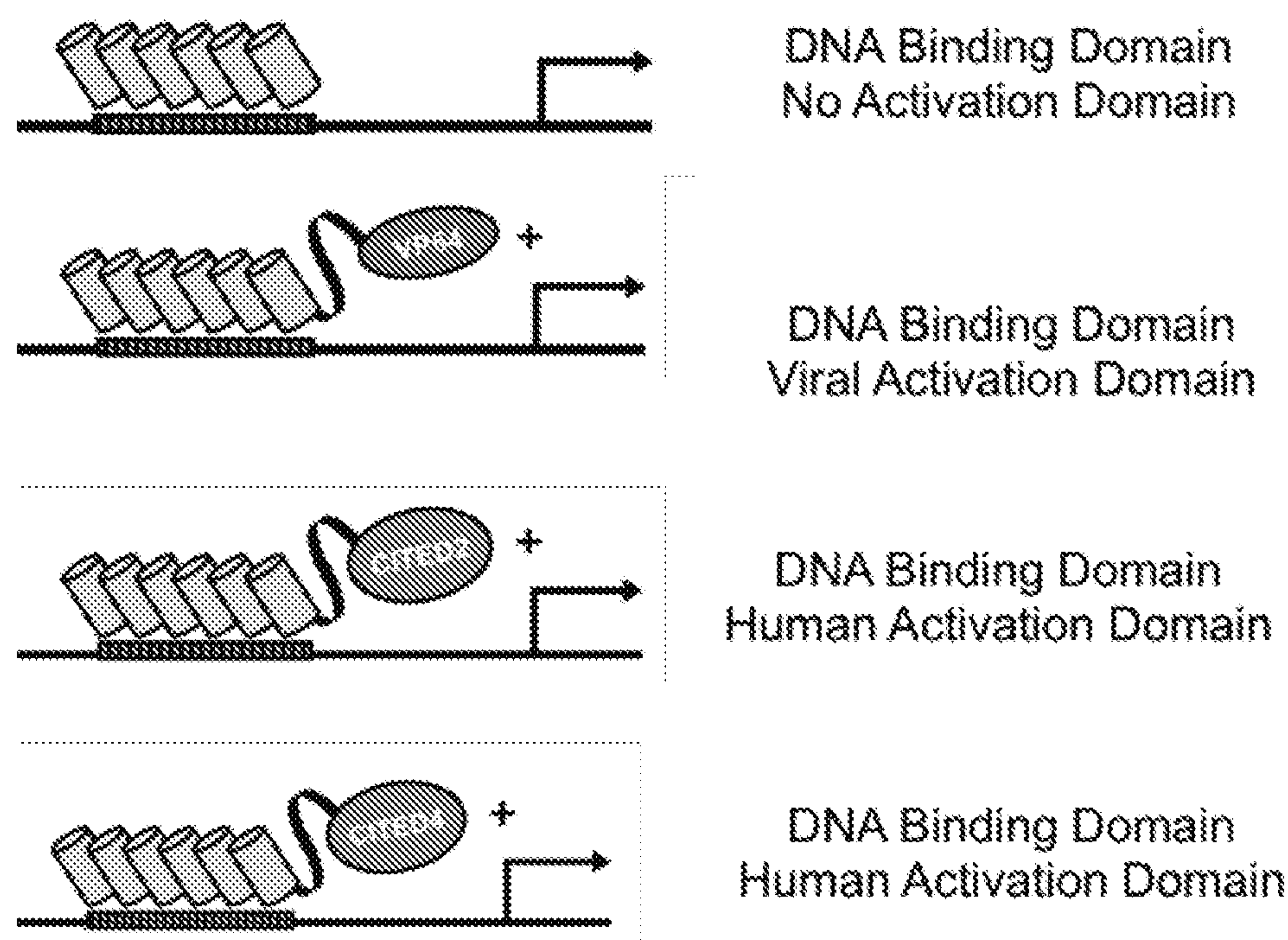


FIG. 33B

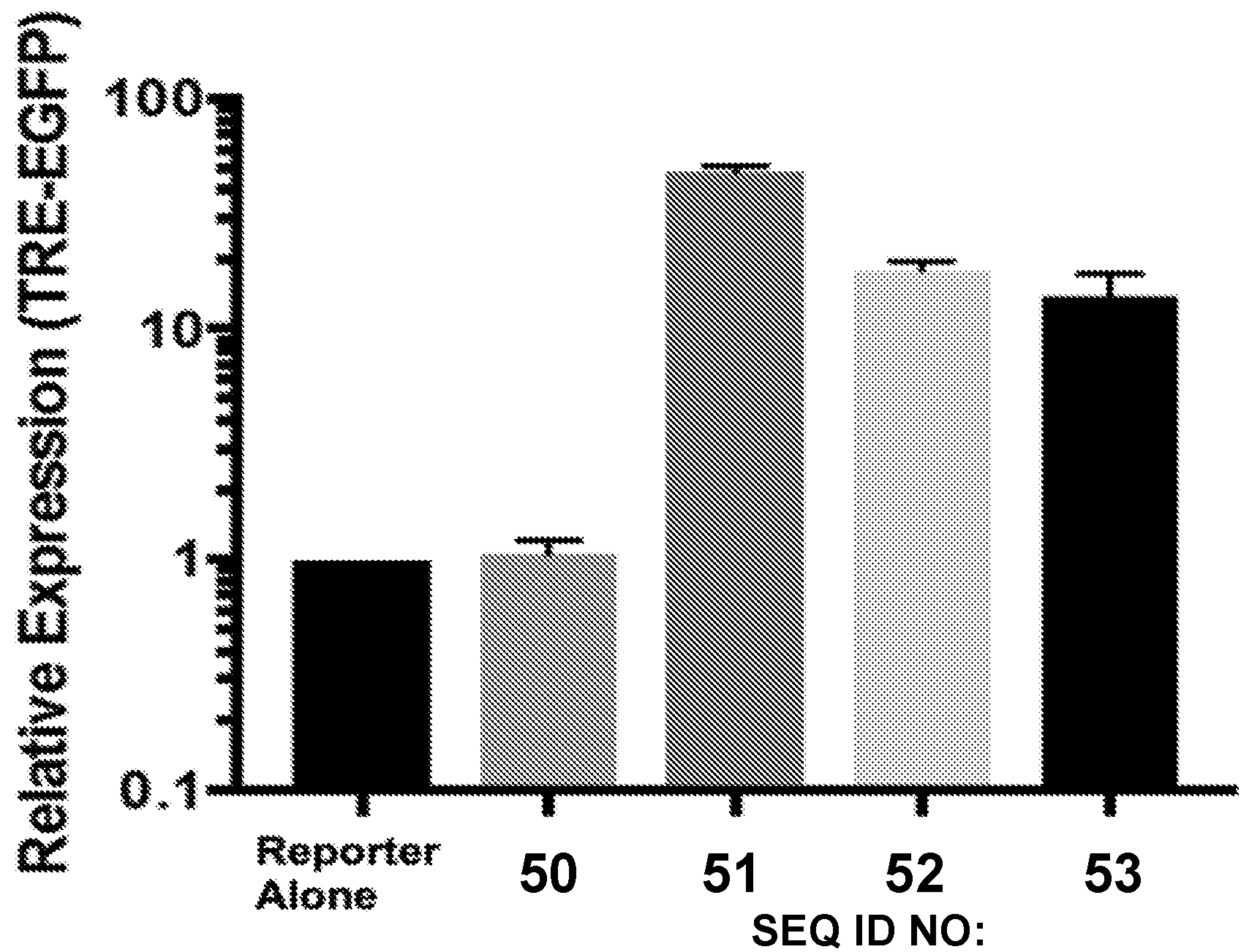
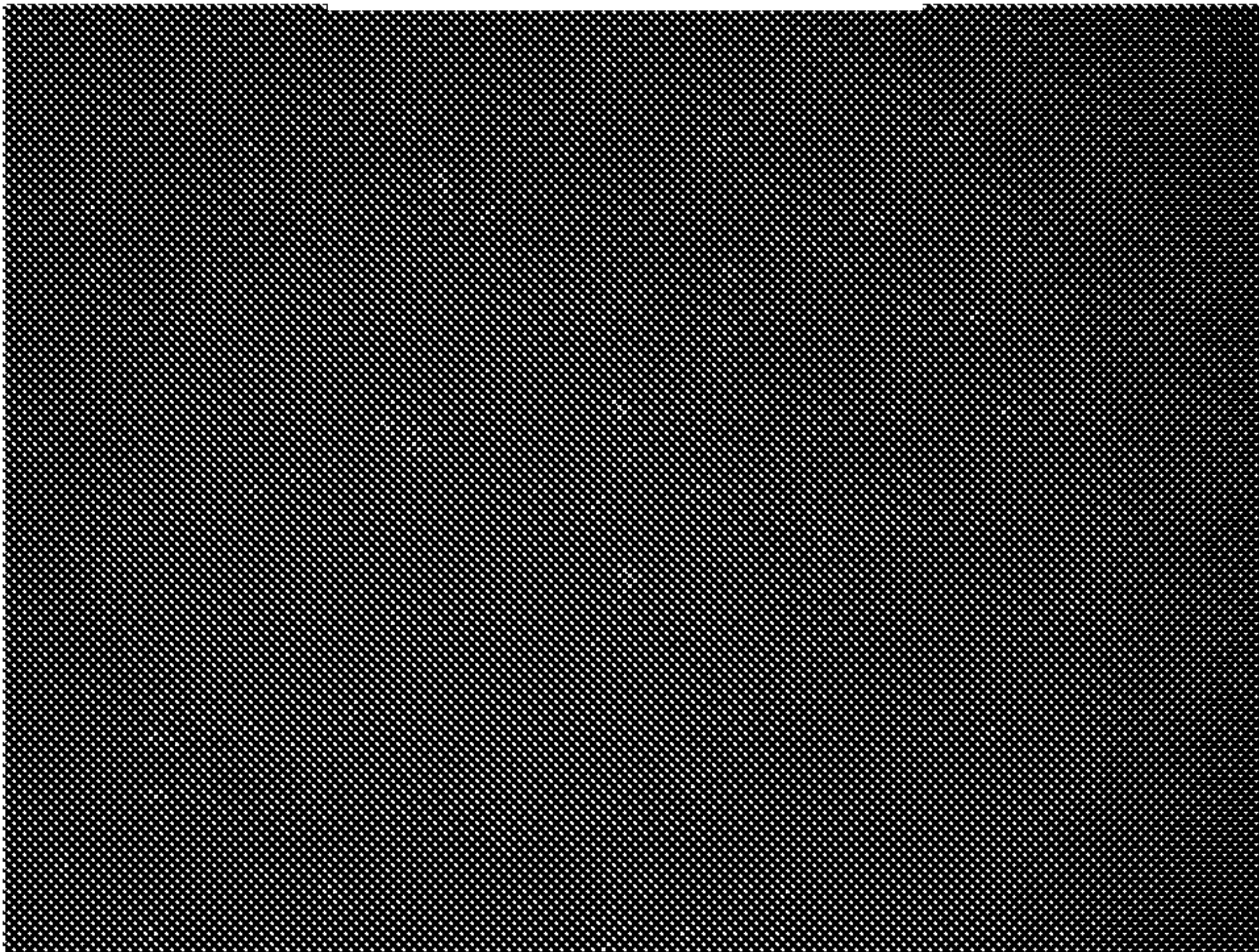


FIG. 33C

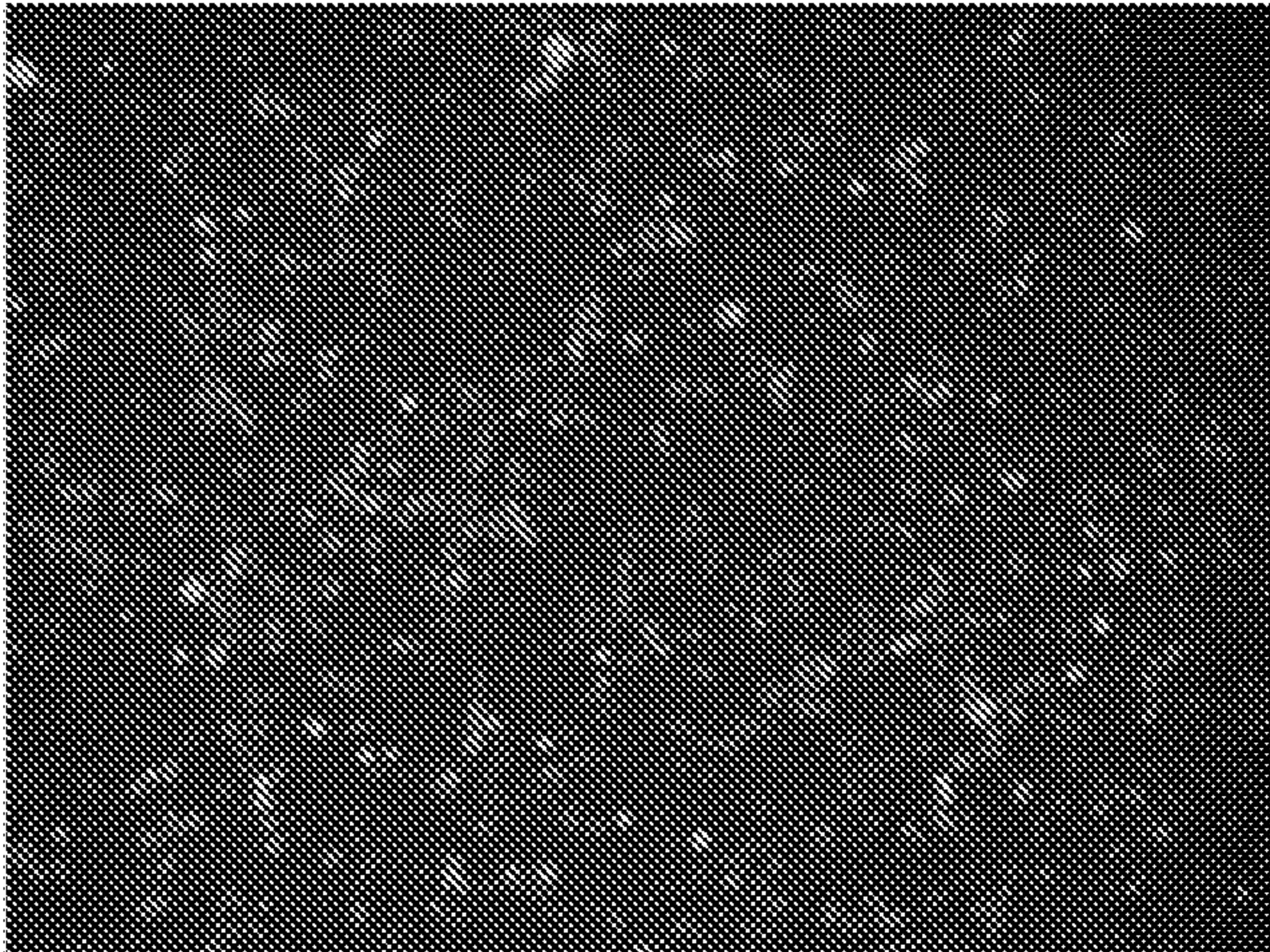
Reporter alone



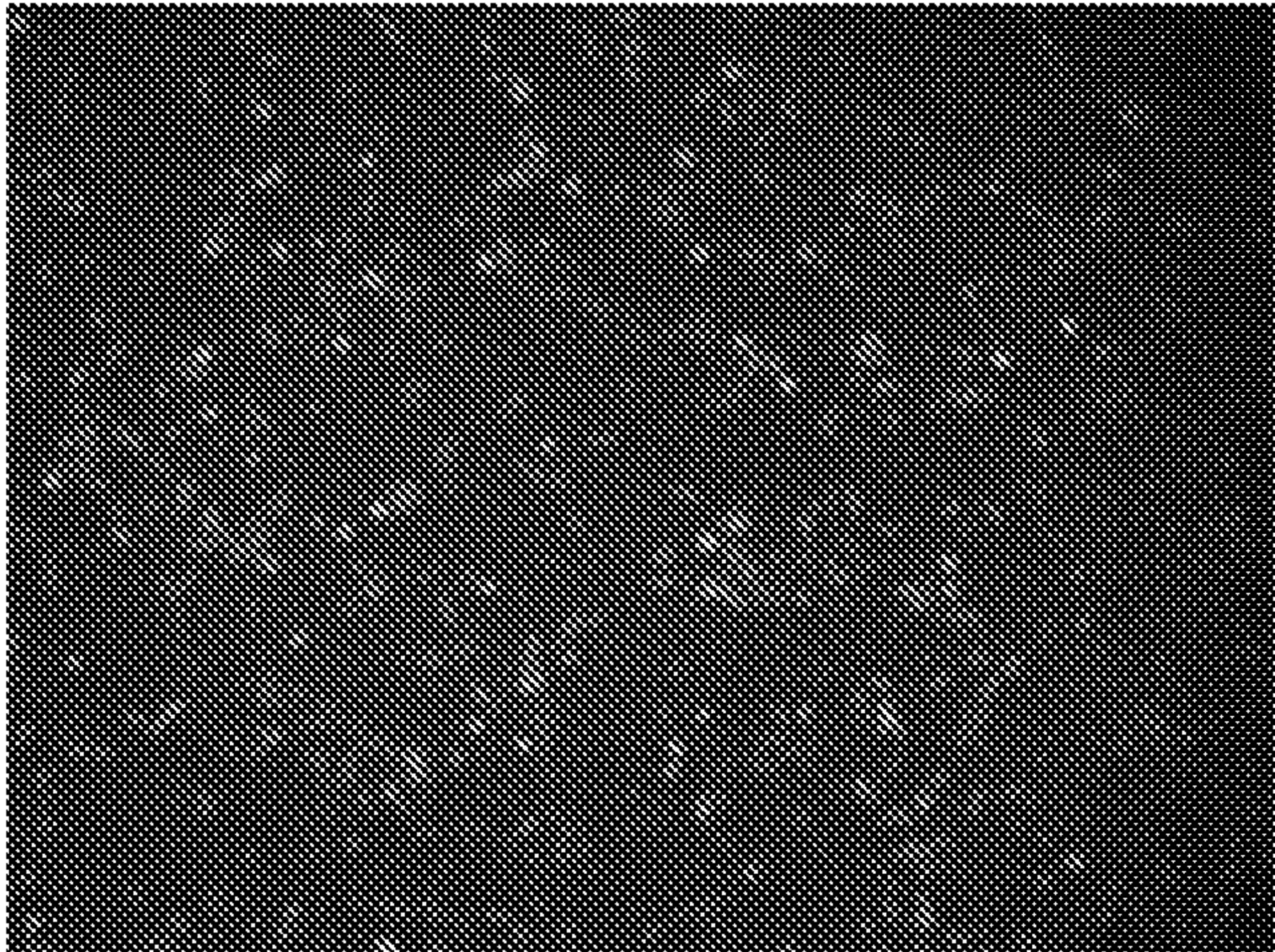
SEQ ID: 50



SEQ ID: 51



SEQ ID: 52



SEQ ID: 53

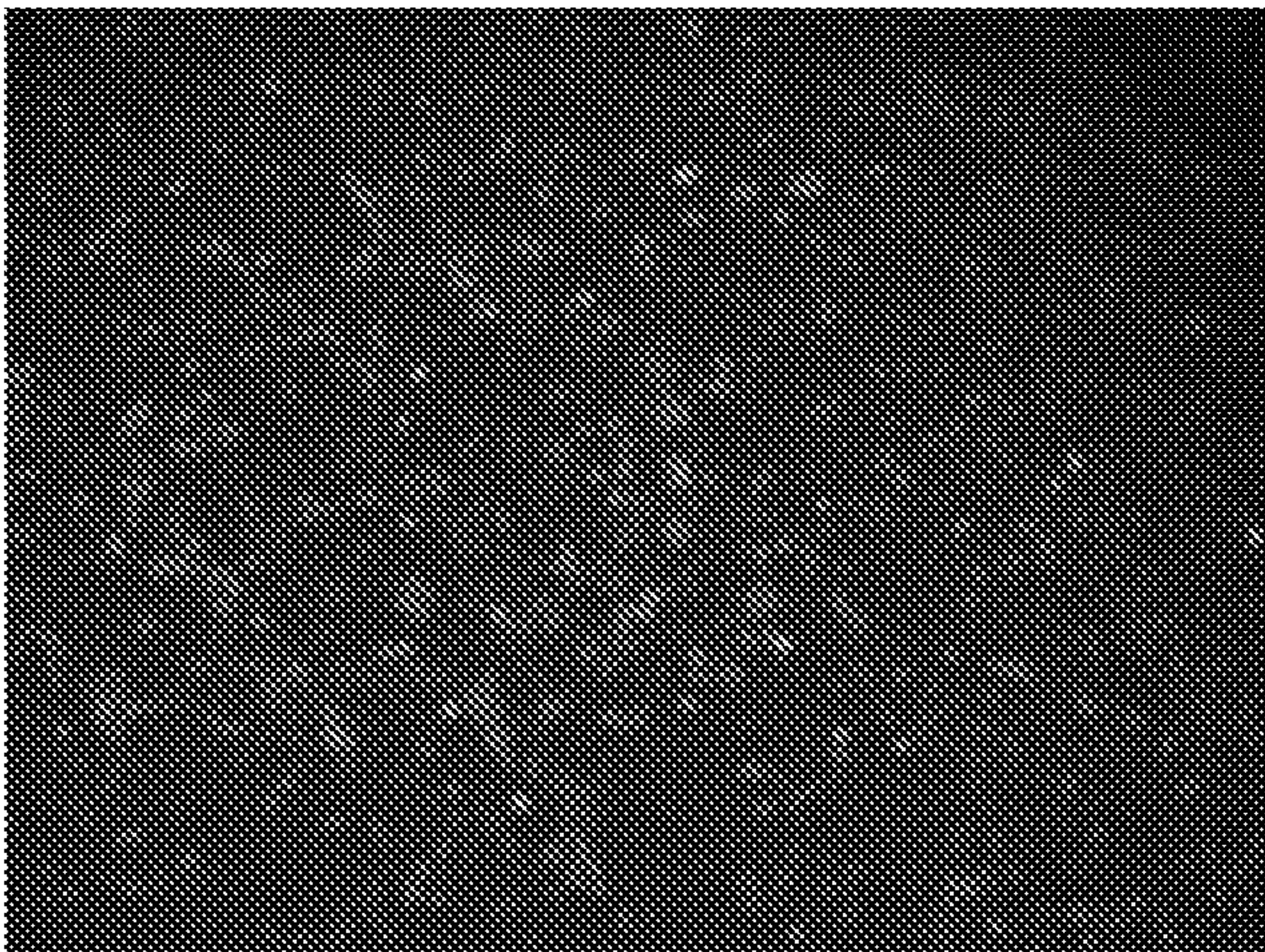


FIG. 34

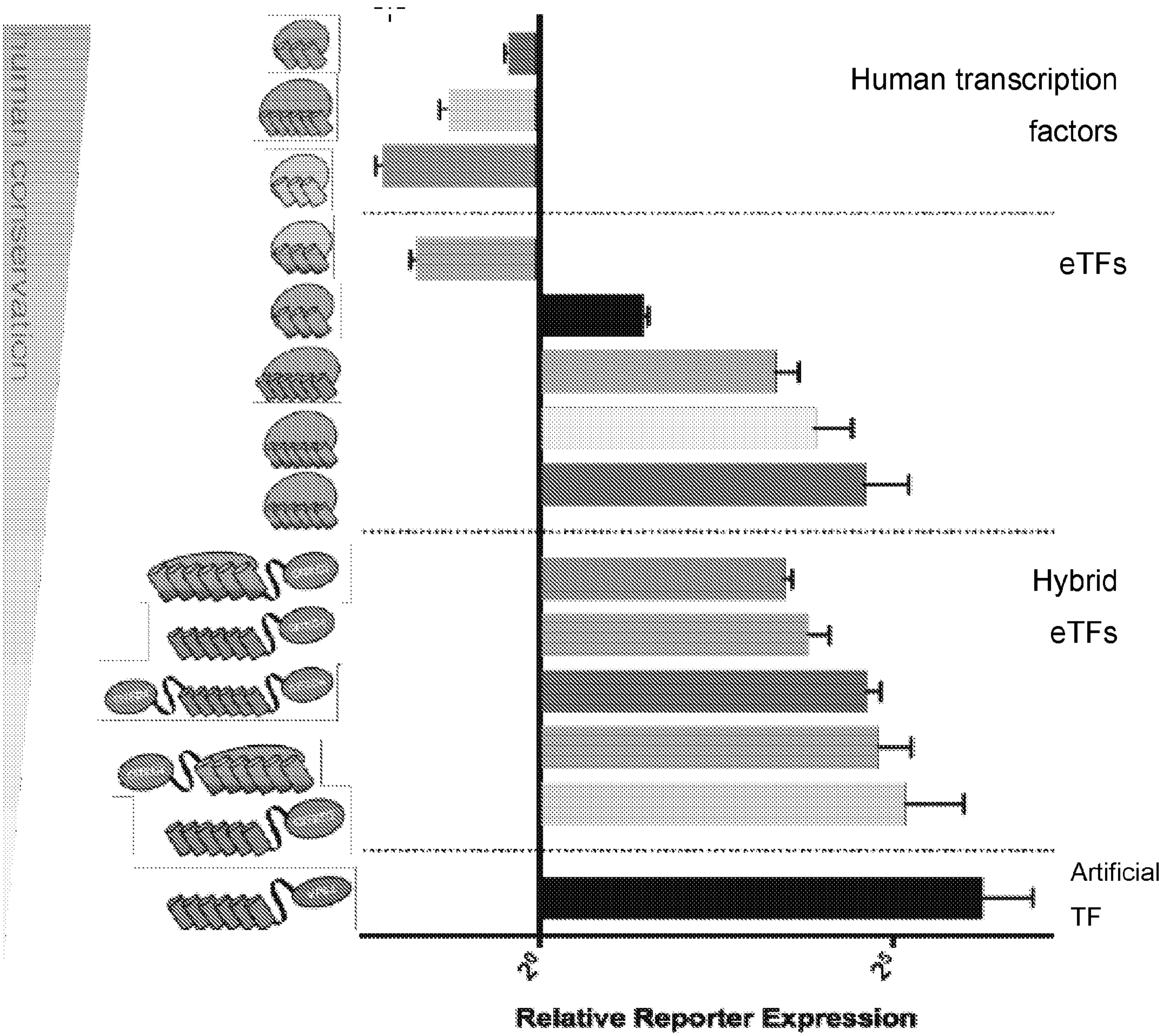


FIG. 35A

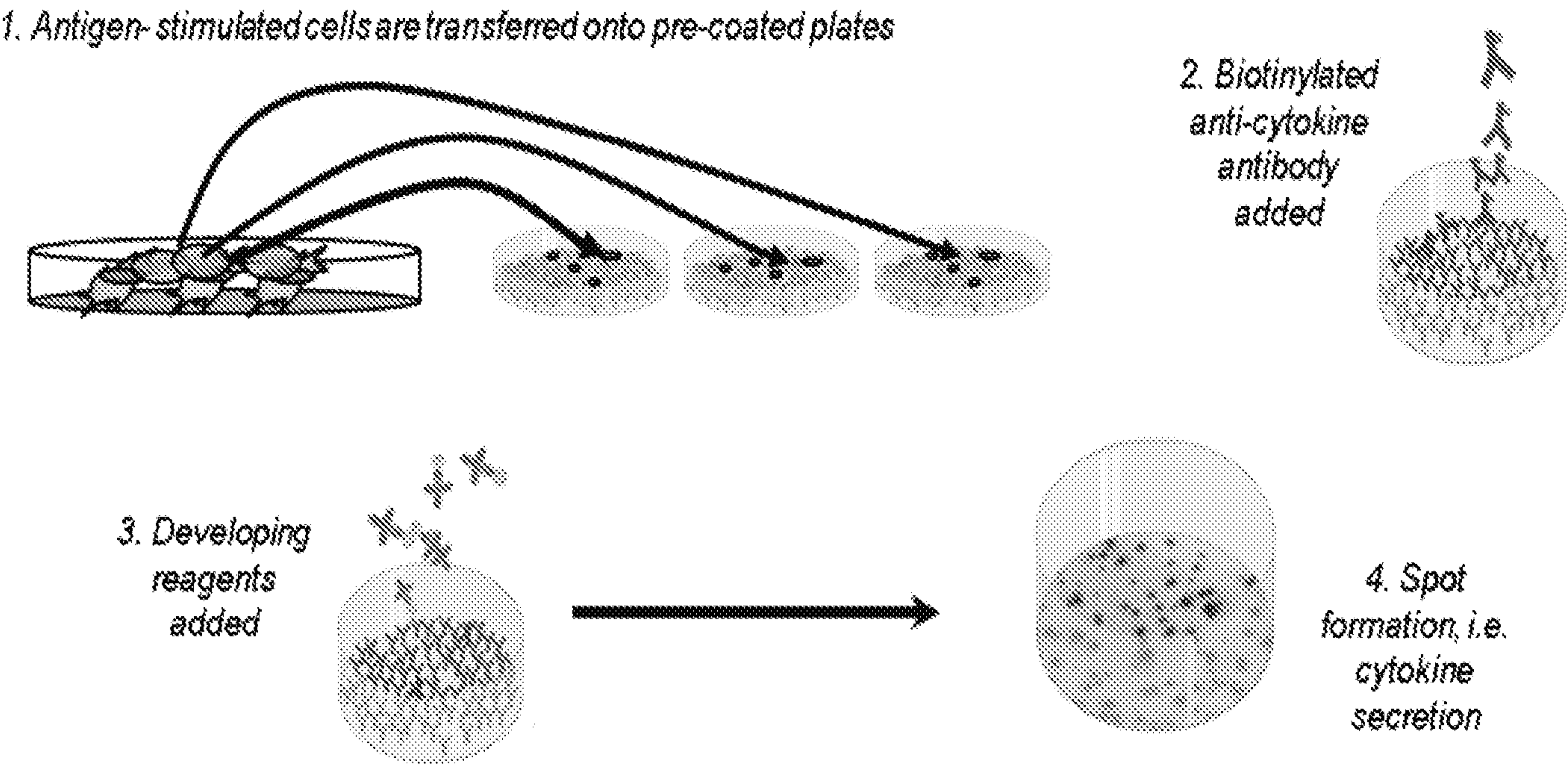


FIG. 35B

