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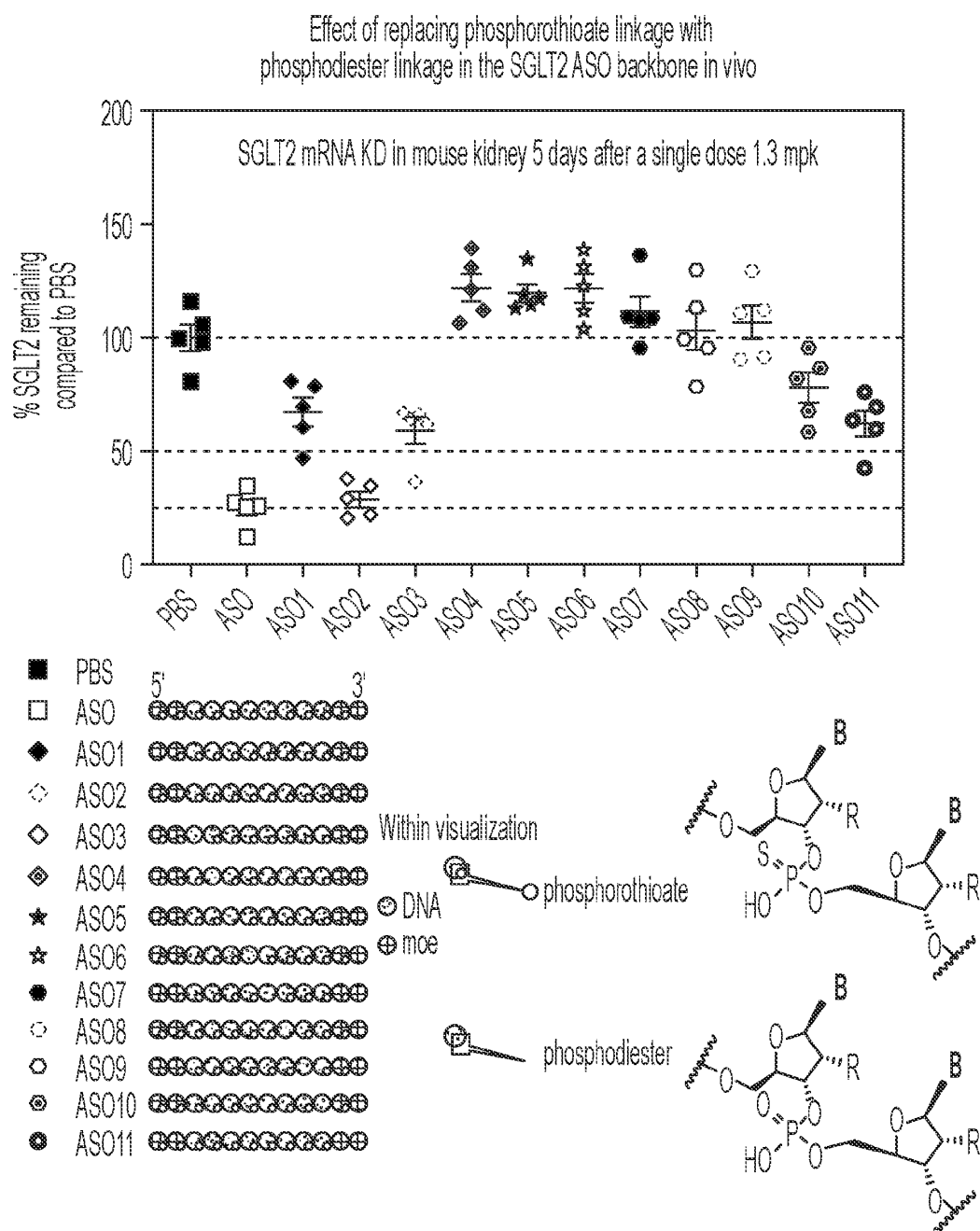


FIG. 1

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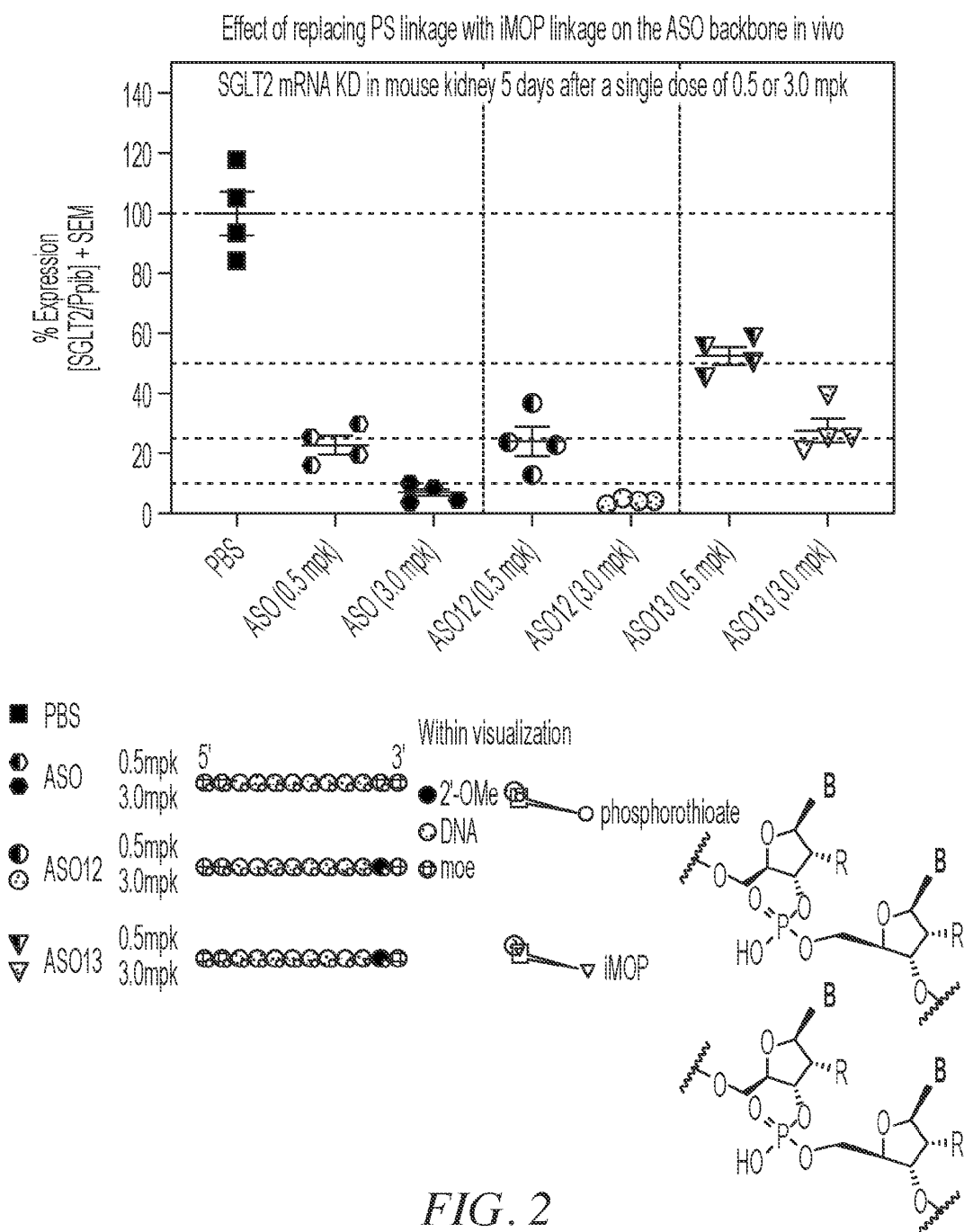
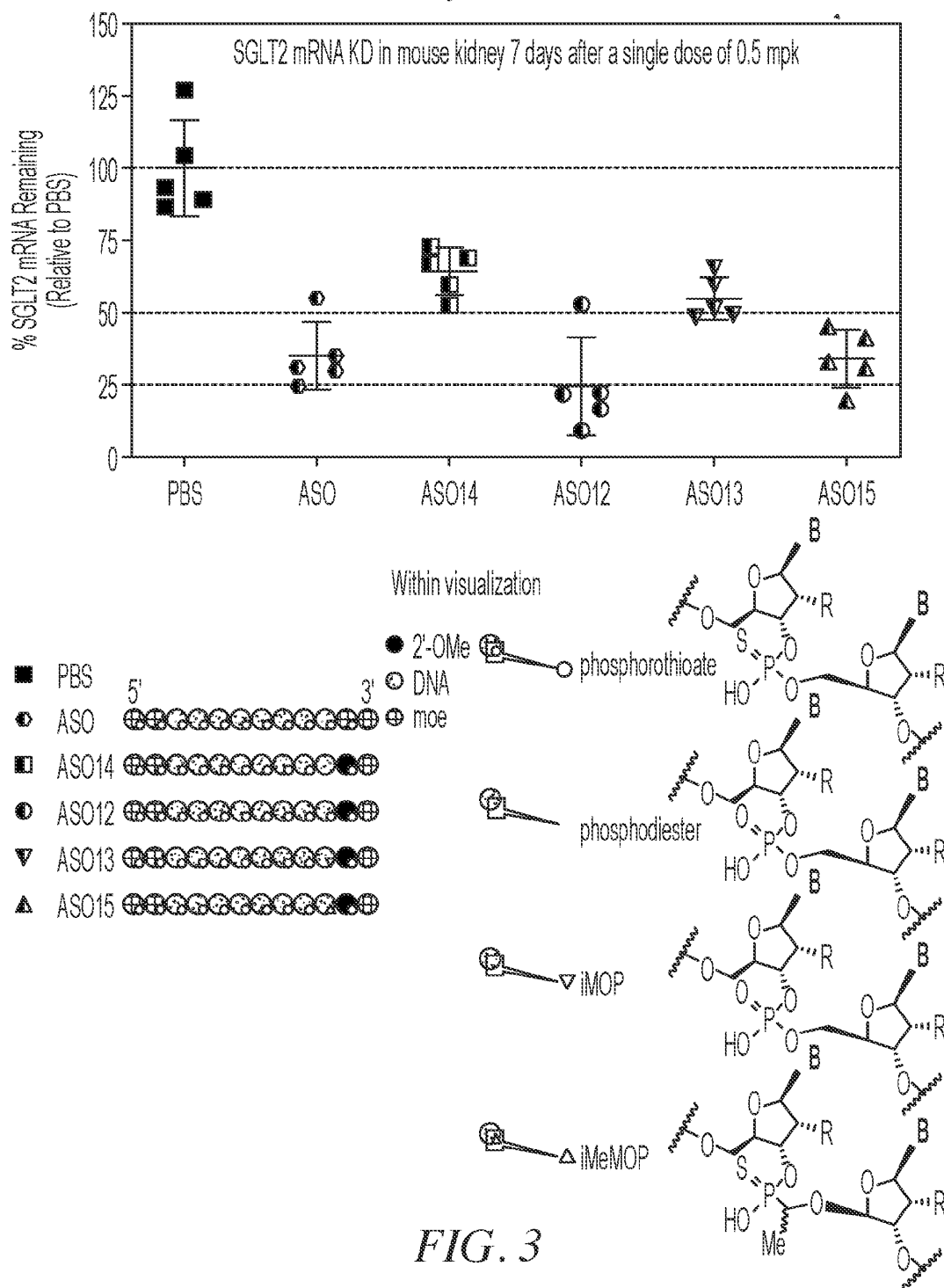
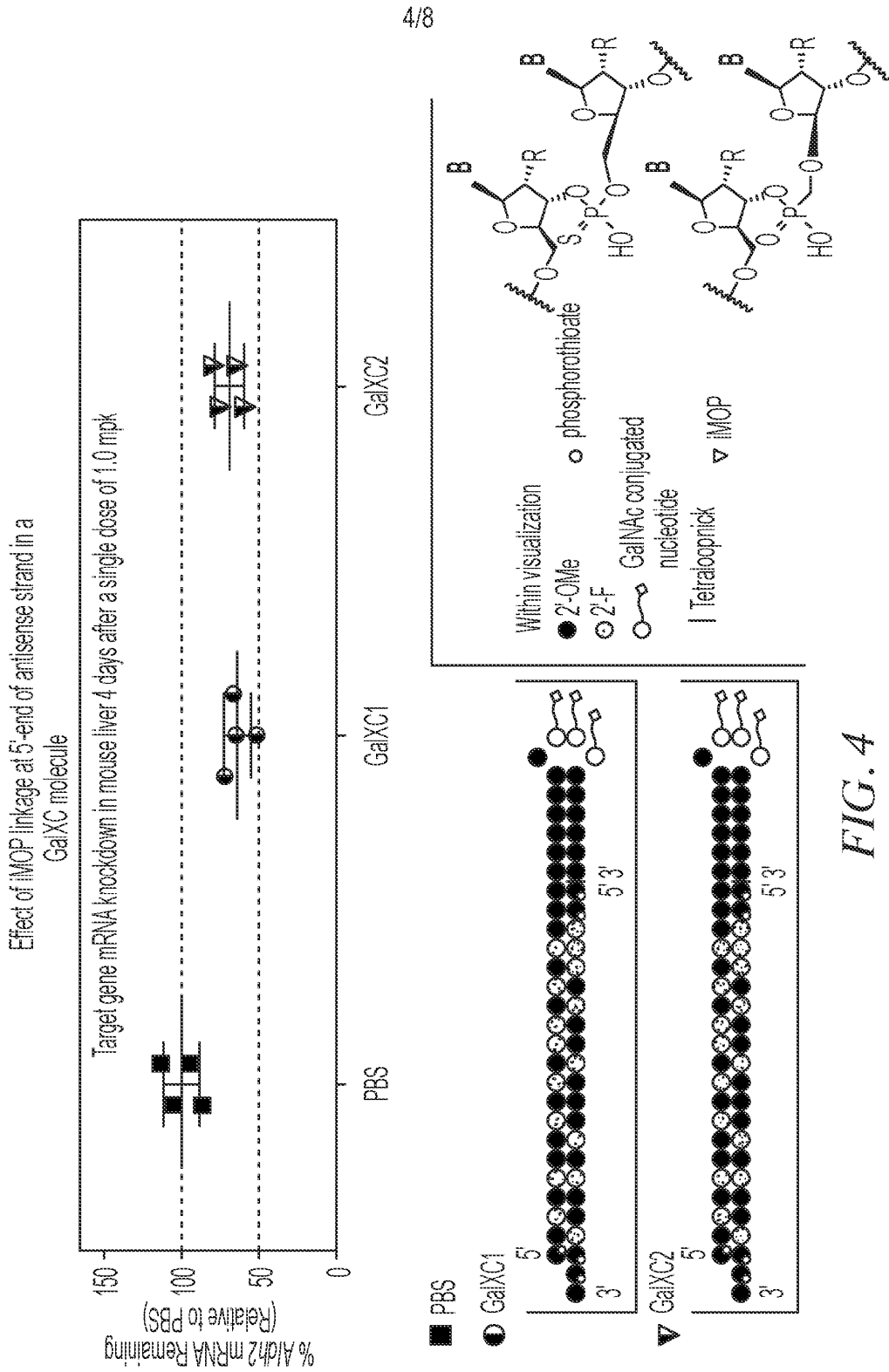


FIG. 2

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Effect of replacing PS linkage with iMOP linkage or
iMeMOP linkage on the ASO backbone in vivo





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Effect of replacing PS linkage with IMOP linkage or iMeMOP linkage on the GAP2 position of the ASO backbone in vivo

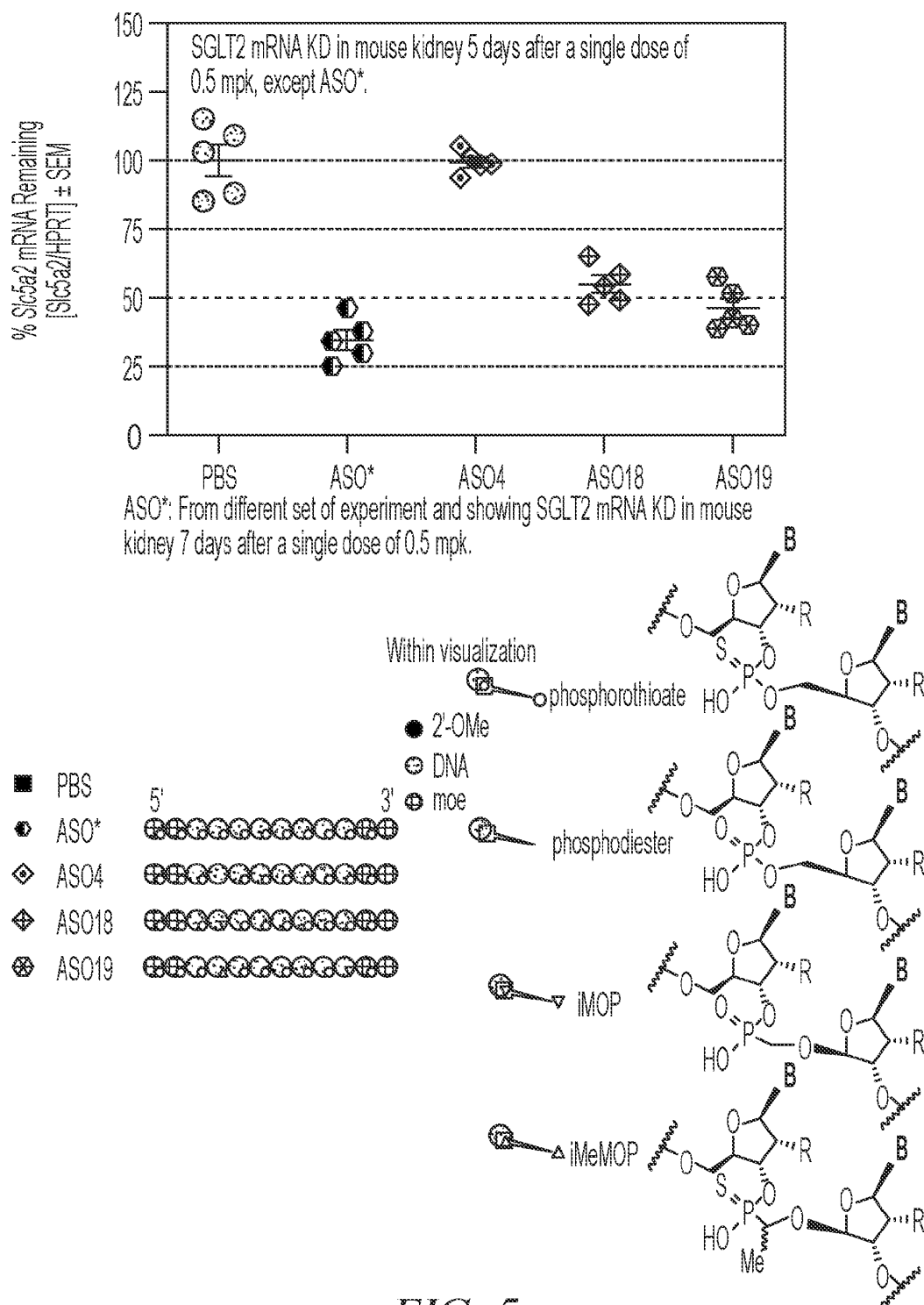
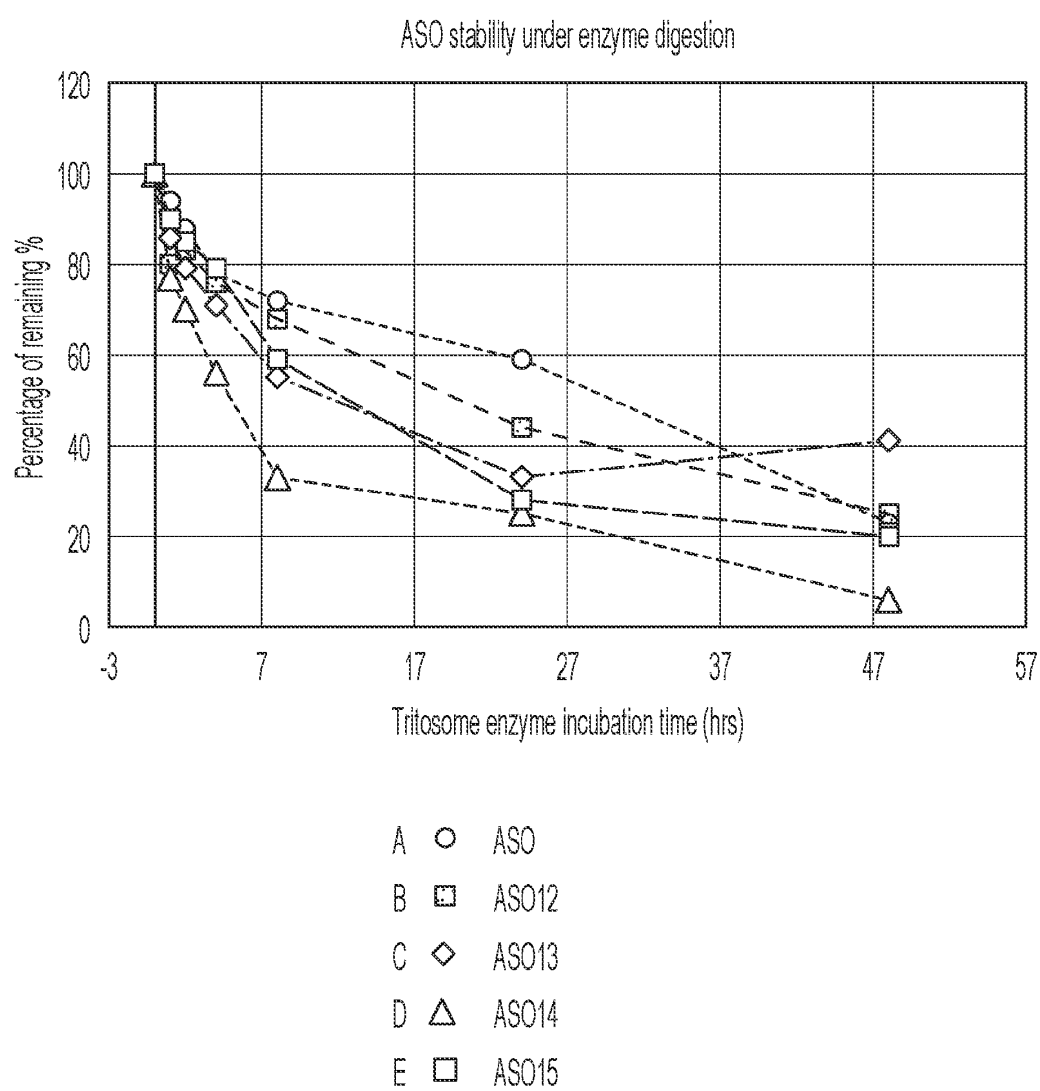


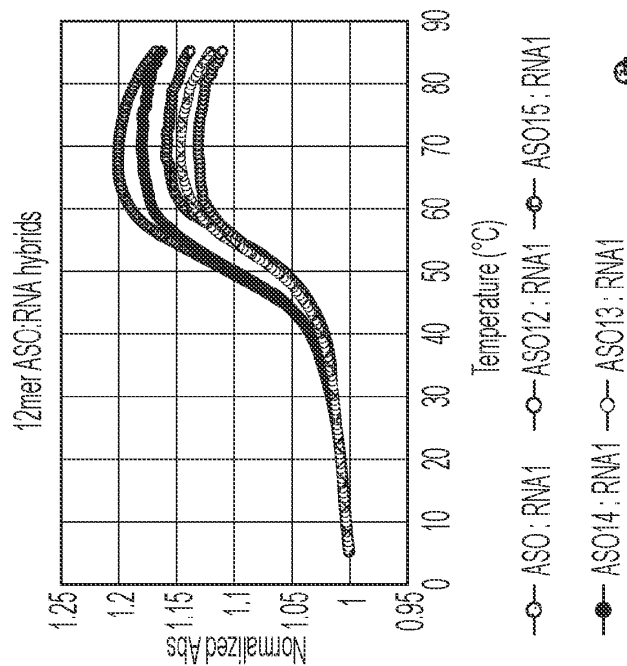
FIG. 5

RECTIFIED SHEET (RULE 91) ISA/EP

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**FIG. 6**

Effects of iMeMOP and IMOP incorporation into ASO strand on the thermal stability of 12mer ASO-RNA hybrid. Incorporation of PS and PO are included for comparison.



Name	ASO Sequence (5'-3')	Linkage Chemistry	T _m *
ASO : RNA1		PS	51 °C
ASO15 : RNA1		Mono Methyl MOP	50 °C
ASO13 : RNA1		MOP	52.5 °C
ASO12 : RNA1		PS (moeT to mU)	51.5 °C
ASO14 : RNA1		PO Control	53 °C

* All ASOs were hybridized to a 12mer complementary RNA (RNA1).

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Within visualization: ● 2'-OMe ⊕ DNA ⊕ moe

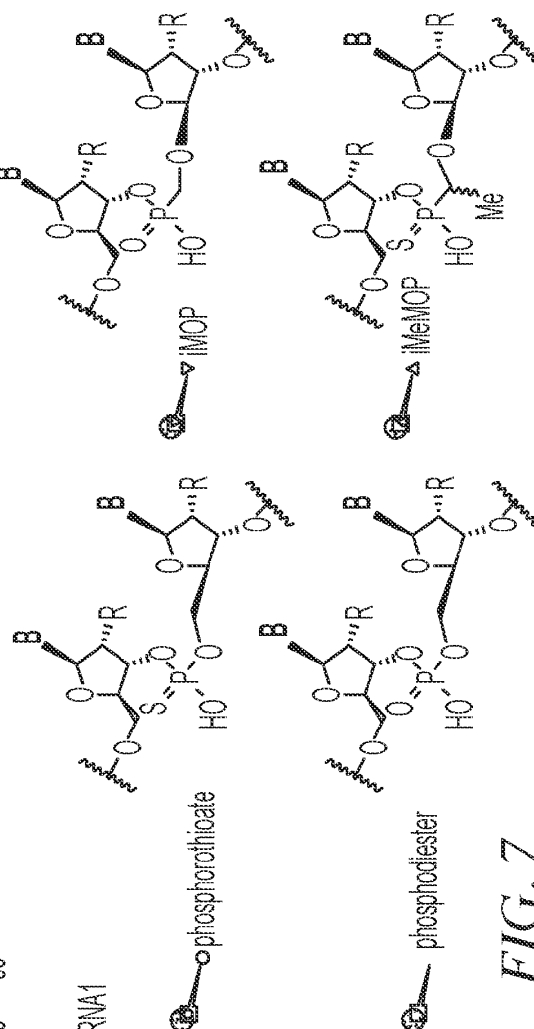
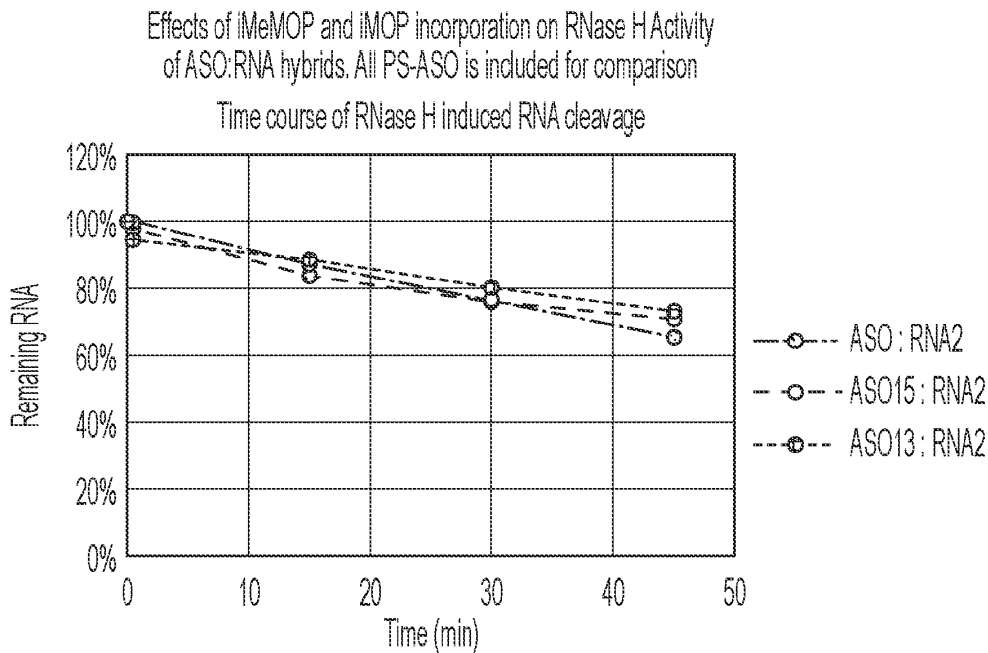


FIG. 7



Name	ASO Sequence (5'-3')	Linkage Chemistry
ASO : RNA2		PS
ASO15 : RNA2		Mono Methyl MOP
ASO13 : RNA2		MOP
* All ASOs were hybridized to a 32mer complementary RNA (RNA2)		

Within visualization. ● 2'-OMe ⊕ DNA ⊕ mce

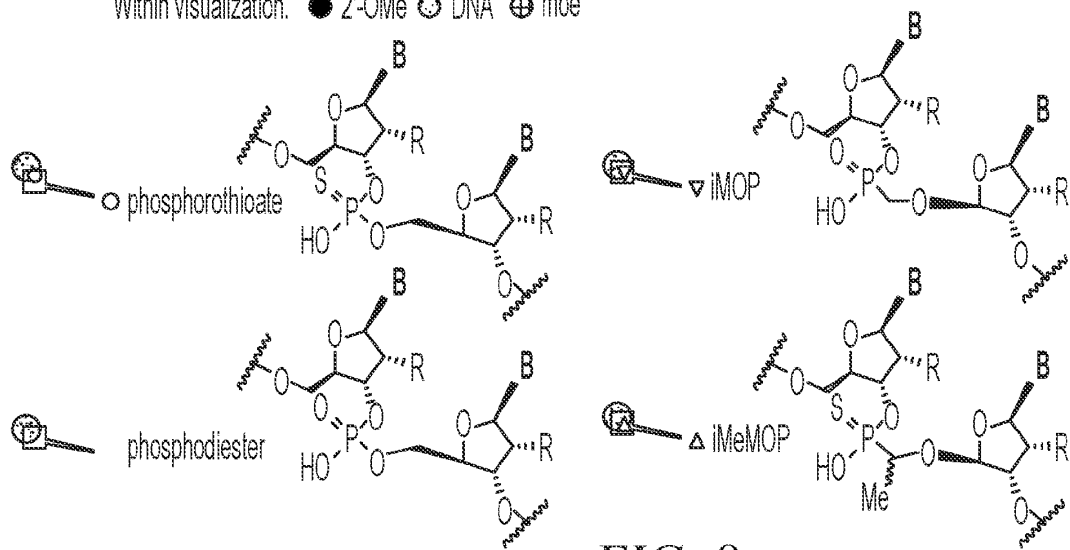


FIG. 8