

2A.1

```

*****
179 FCTNAINILAGINGLEAGQSLVISASIIIVFNLEEGDCRDDHVFSLYFMIPFFFTTLGL      GPT_HUMAN
179 FCTNAINILAGINGLEAGQSLVISASIIIVFNLEEGDCRDDHVFSLYFMIPFFFTTLGL      GPT_MACMU
179 FCTNAINILAGINGLEAGQSLVISASIIIVFNLEEGDCRDDHVFSLYFMIPFFFTTLGL      GPT_PANTR
179 FCTNAINILAGINGLEAGQSLVISASIIIVFNLEEGDCRDDHVFSLYFMIPFFFTTLGL      GPT_CANFA
179 FCTNAINILAGINGLEAGQSLVISASIIIVFNLEEGDYRDDHVFSLYFMIPFFFTTLGL      GPT_CAVPO
181 FCTNAINILAGINGLEAGQSLVISASIIIVFNLEQGDRDDHVFSLYFMIPFFFTTLGL      GPT_RAT
181 FCTNAINILAGINGLEAGQSLVISASIIIVFNLEEGDYRDDHVFSLYFMIPFFFTTLGL      GPT_MOUSE
179 FCTNAINILAGINGLEAGQSLVISASIIIVFNLEEGDYRDDHVFSLYFMIPFFFTTLGL      GPT_CRIGR

*****
239 LYHNWYPSRVFVGDTCYFAGMTFAVVGILGHFSKTMLLFFMPQVFNFLYSLPQLLHIIP      GPT_HUMAN
239 LYHNWYPSRVFVGDTCYFAGMTFAVVGILGHFSKTMLLFFMPQVFNFLYSLPQLLHIIP      GPT_MACMU
239 LYHNWYPSRVFVGDTCYFAGMTFAVVGILGHFSKTMLLFFMPQVFNFLYSLPQLLHIIP      GPT_PANTR
239 LYHNWYPSQVFVGDTCYFAGMTFAVVGILGHFSKTMLLFFMPQVFNFLYSLPQLLHIIP      GPT_CANFA
239 LYHNWYPSQVFVGDTCYFAGMTFAVVGILGHFSKTMLLFFMPQVFNFLYSLPQLLHIIP      GPT_CAVPO
241 LYHNWYPSQVFVGDTCYFAGMTFAVVGILGHFSKTMLLFFMPQVFNFLYSLPQLFQIIP      GPT_RAT
241 LYHNWYPSRVFVGDTCYFAGMTFAVVGILGHFSKTMLLFFMPQVFNFLYSLPQLFHIIP      GPT_MOUSE
239 LYHNWYPSQVFVGDTCYFAGMTFAVVGILGHFSKTMLLFFIPQVFNFLYSLPQLLHAIP      GPT_CRIGR

*****
299 CPRHRIPRLNIKTGKLEMSYSKFKTKSLSLGTFILKVAESLQLVTVHQSETEDEGEFTEC      GPT_HUMAN
299 CPRHRIPRLNIKTGKLEMSYSKFKTKSLSLGTFILKVAESLRLVTIHQSDTEDEGEFTEC      GPT_MACMU
299 CPRHRIPRLNIKTGKLEMSYSKFKTKSLSLGTFILKVAESLQLVTVHQSETEDEGEFTEC      GPT_PANTR
299 CPRHRIPRLNIKTGKLEMSYSKFKTKSLSLGTFILKVAASLQLVTVHQSENEDEGEFTEC      GPT_CANFA
299 CPRHRIPRLNIKTGKLEMSYSKFKTKSLSLGTFILKVAERLQLVTVHRSEGEDEGEFTEC      GPT_CAVPO
301 CPRHRMPRLNIKTGKLEMSYSKFKTKSLSLGTFILKVAESLRLVTVHRGESEDEGEFTEC      GPT_RAT
301 CPRHRMPRLNAKTGKLEMSYSKFKTKNLSLGLTFILKVAENLRLVTVHQGESEDEGEFTEC      GPT_MOUSE
299 CPRHRIPRLNPKTGKLEMSYSKFKTKNLSLGLTFILKVAERLQLVTVHRGESEDEGEFTEC      GPT_CRIGR

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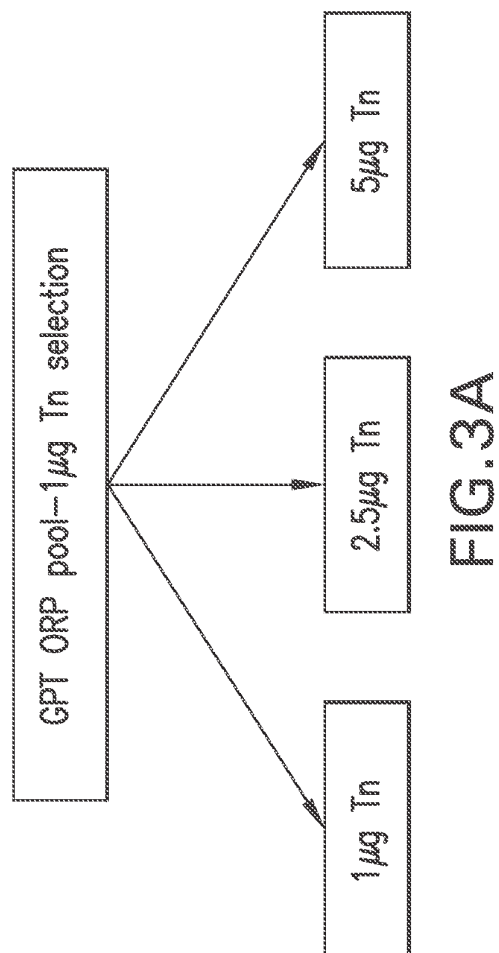
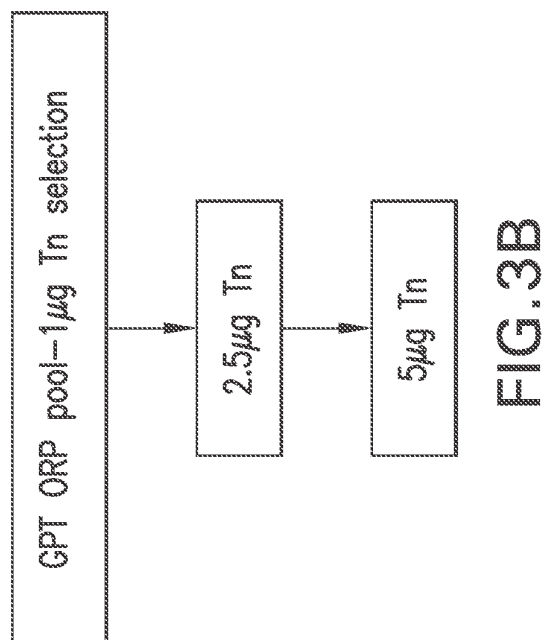
FIG. 2B

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359 NNMTLINLLKVLGPIHERNLTLLLLLQILGSAITFSIRYQLVRLFYDV
359 NNMTLINLLKIFGPIHERNLTLLLLLQILGSAFTFSIRYQLVRLFYDV
359 NNMTLINLLKILGPIHERNLTLLLLLQILGSAITFSIRYQLVRLFYDV
359 NNMTLINLLKVLGPMHERNLTLLLLLQILGSAVTFSIRYQLVRLFYDV
359 NNMTLINLLKIFGPIHERNLTLLLLLQIVGSAVTFSIRYQLVRLFYDV
361 NNMTLINLLKVFGPTHERNLTFLLLQLVSSAVTFSIRYQLVRLFYDV
361 NNMTLINLLKVFGPIHERNLTLLLLLQVLSSAATFSIRYQLVRLFYDV
359 NNMTLINLLKIFGPIHERNLTLLLLLQILSSAVTFSIRYQLVRLFYDV
408 GPT_HUMAN
408 GPT_MACMU
408 GPT_PANTR
408 GPT_CANFA
408 GPT_CAVPO
410 GPT_RAT
410 GPT_MOUSE
408 GPT_CRIGR

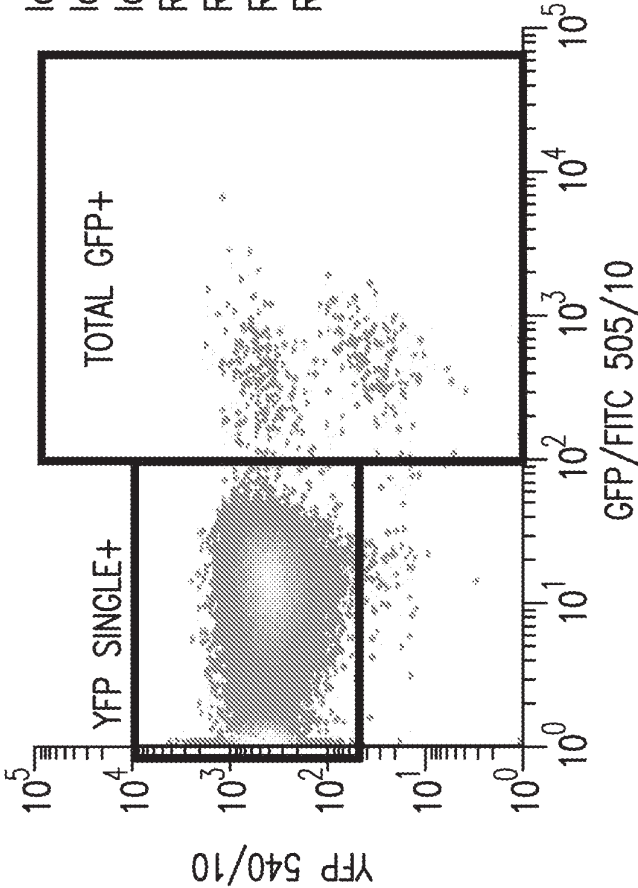
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FIG. 2C



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Selection efficiency with Hygromycin



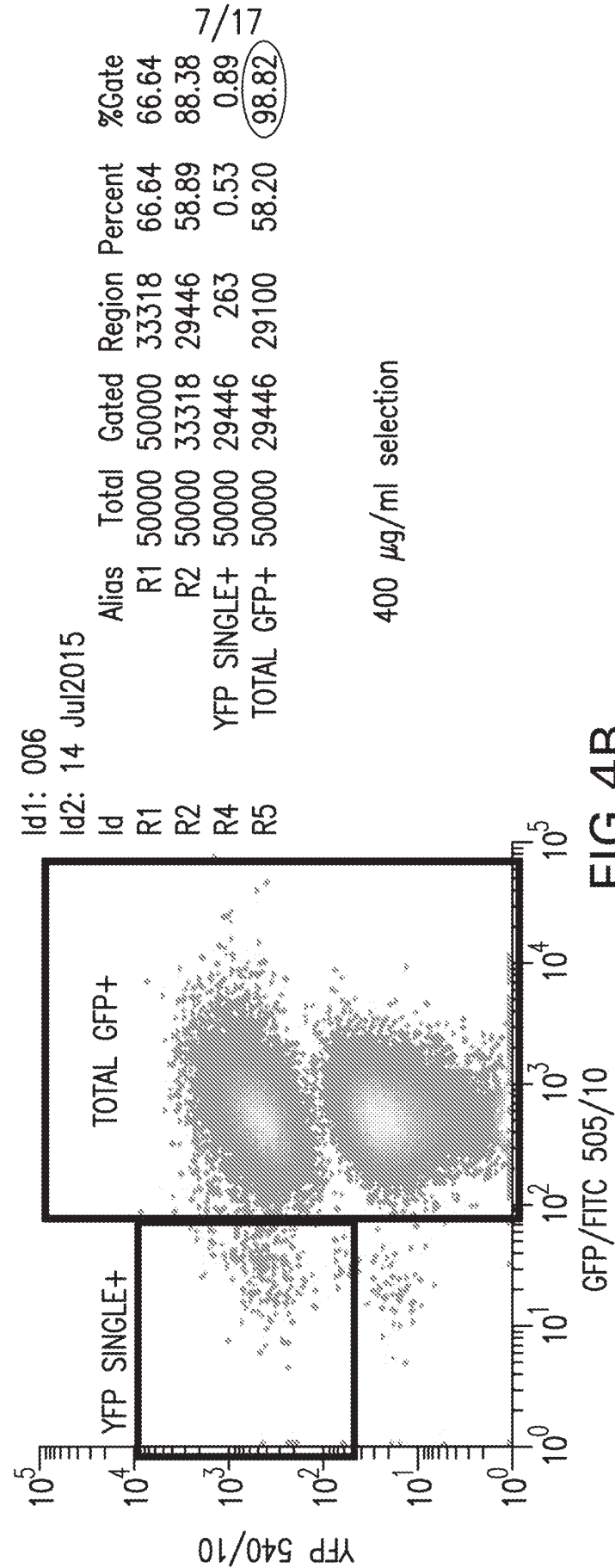
Id1: 005
Id2: 14 Jul2015

Id	Alias	Total	Gated Region	Percent	%Gate
R1	R1	50000	50000	56.63	56.63
R2	R2	50000	28315	52.27	92.30
R4	YFP SINGLE+	50000	26134	51.39	98.32
R5	TOTAL GFP+	50000	26134	0.71	1.35

No Hyg selection

FIG.4A

Selection efficiency with Hygromycin



Selection efficiency with Tn and GPT
as a selectable marker

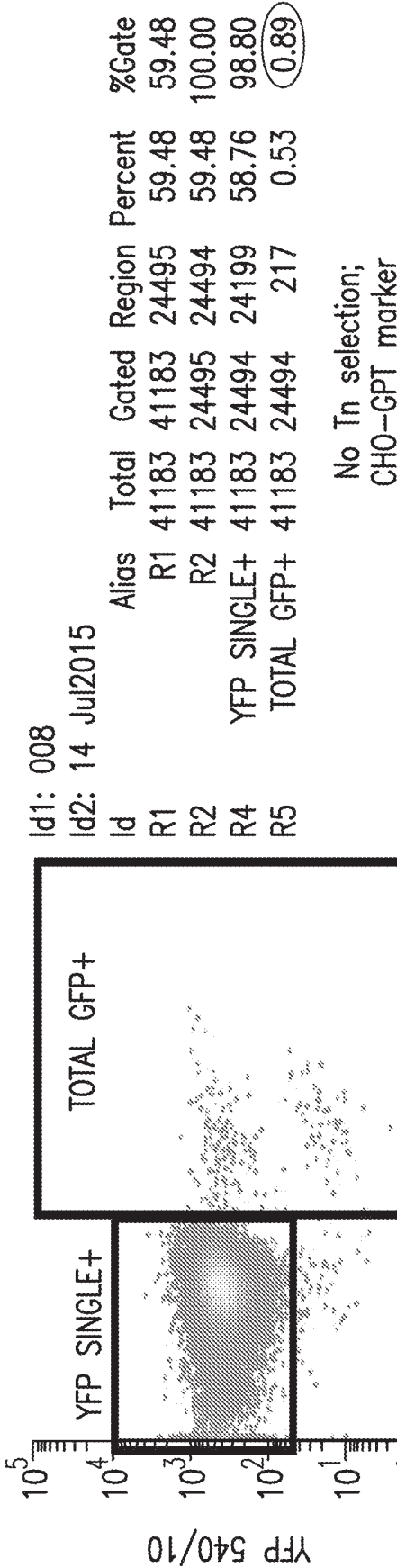


FIG.5A

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Selection efficiency with Tn and GPT
as a selectable marker

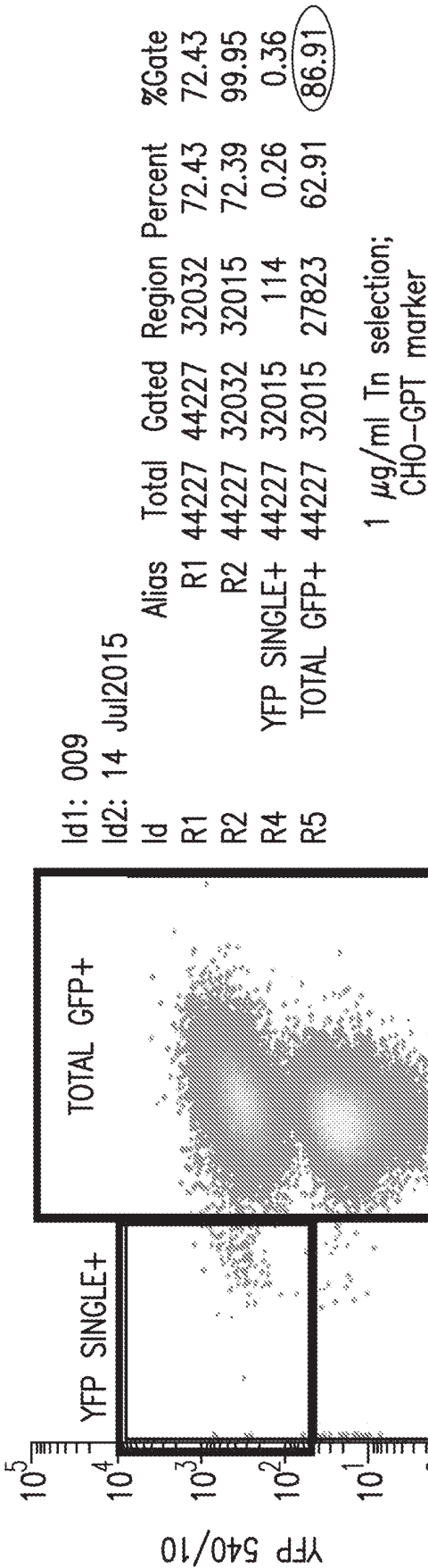


FIG.5B

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Selection efficiency with Tn and GPT
as a selectable marker

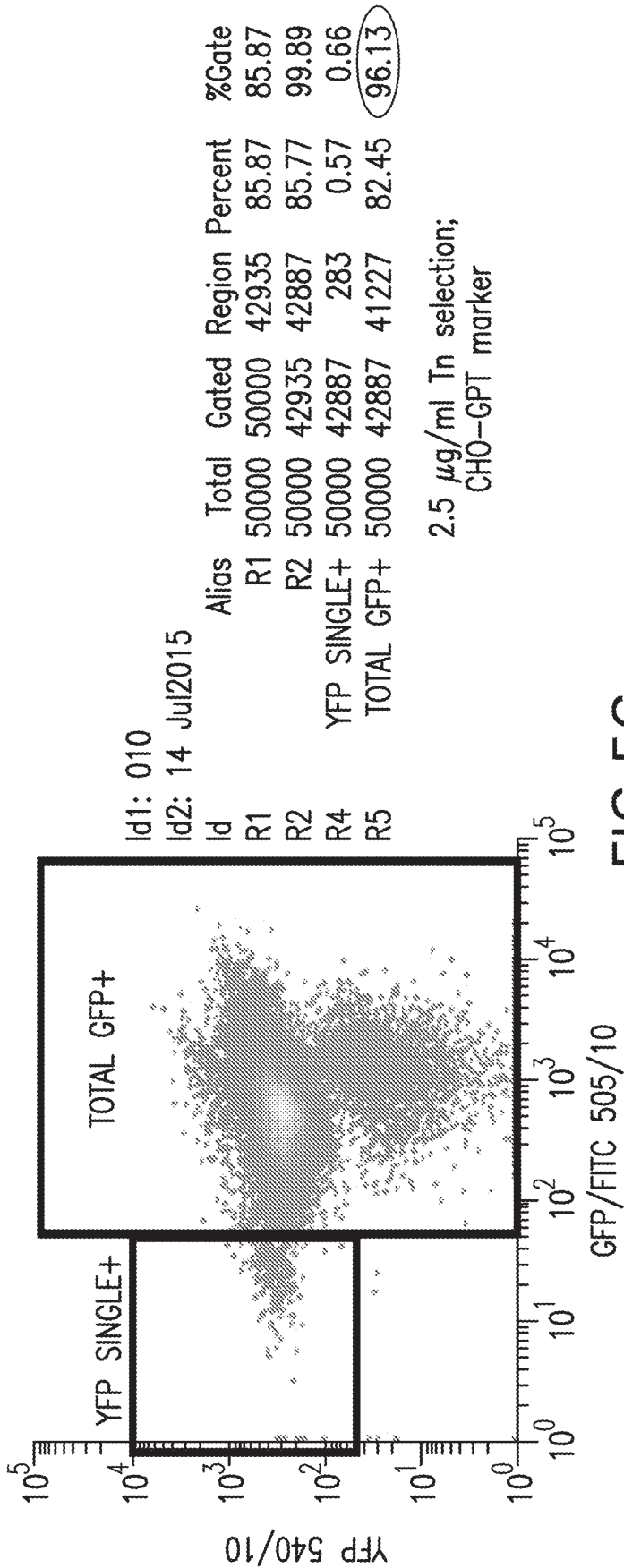


FIG.5C

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Selection efficiency with Tn and GPT
as a selectable marker

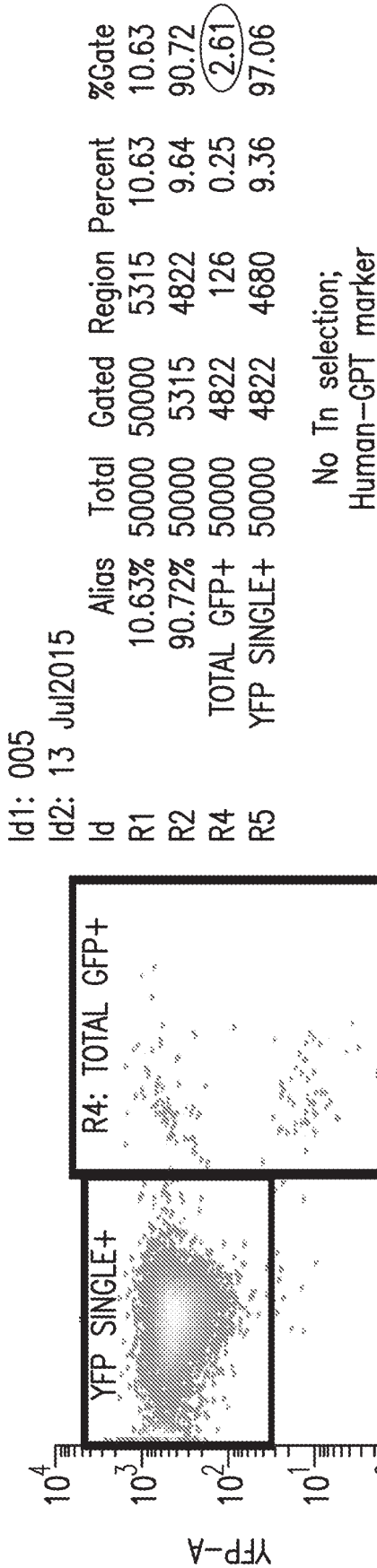


FIG.5D

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Selection efficiency with Tn and GPT
as a selectable marker

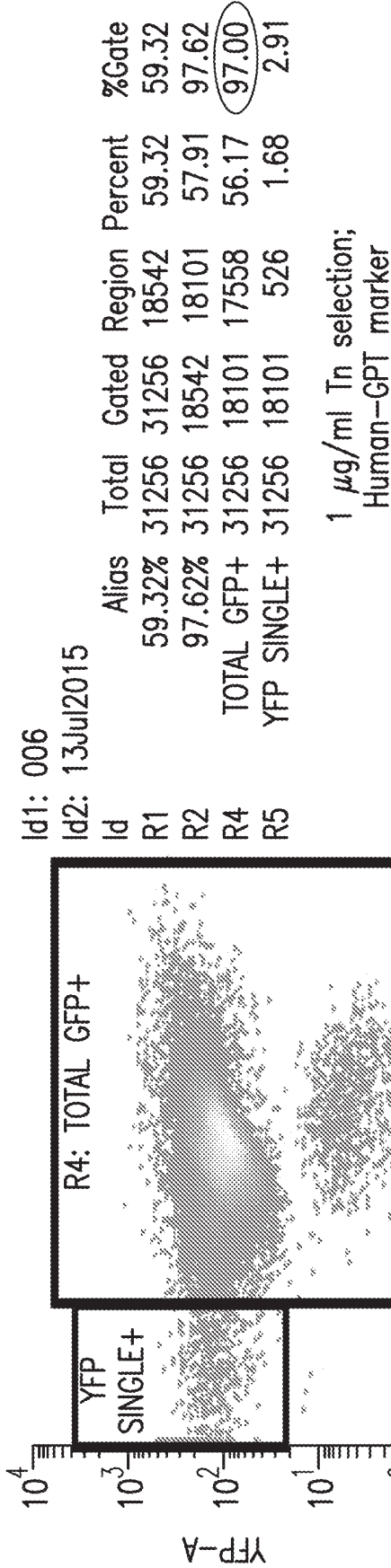


FIG.5E

Selection efficiency with Tn and GPT
as a selectable marker

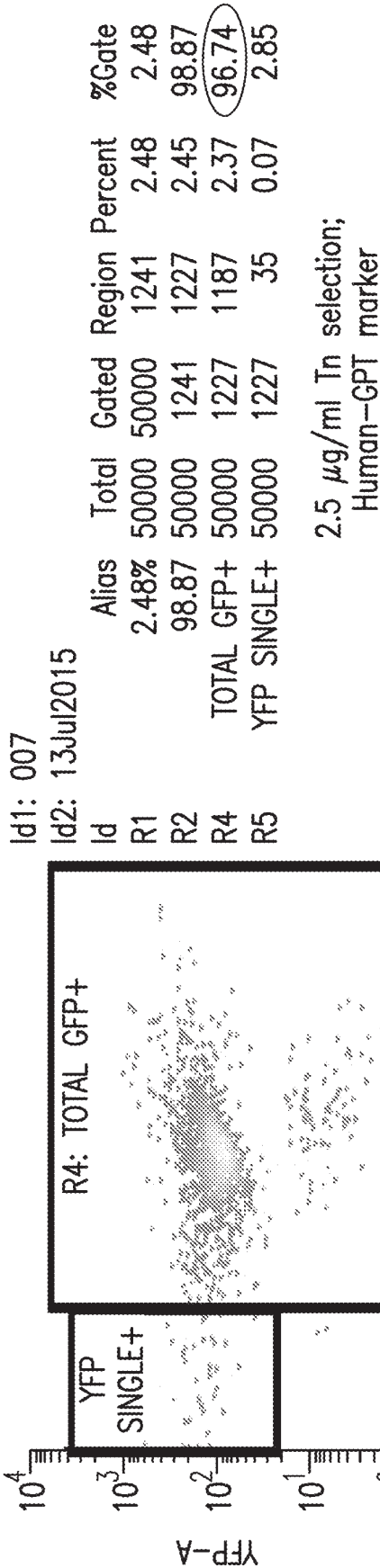


FIG.5F

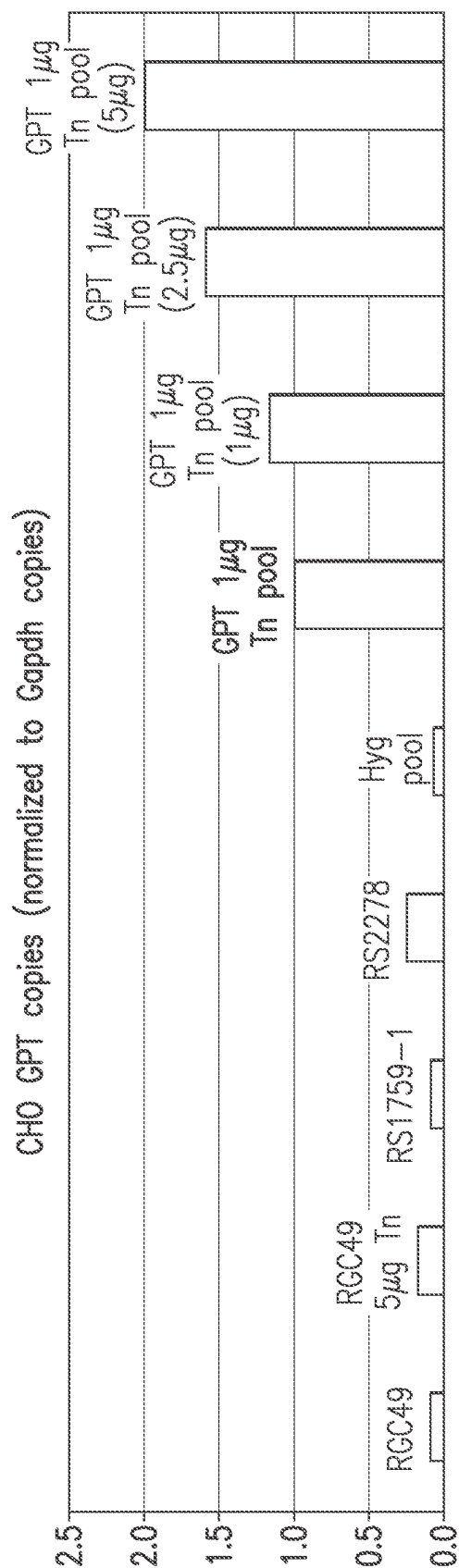


FIG.6A

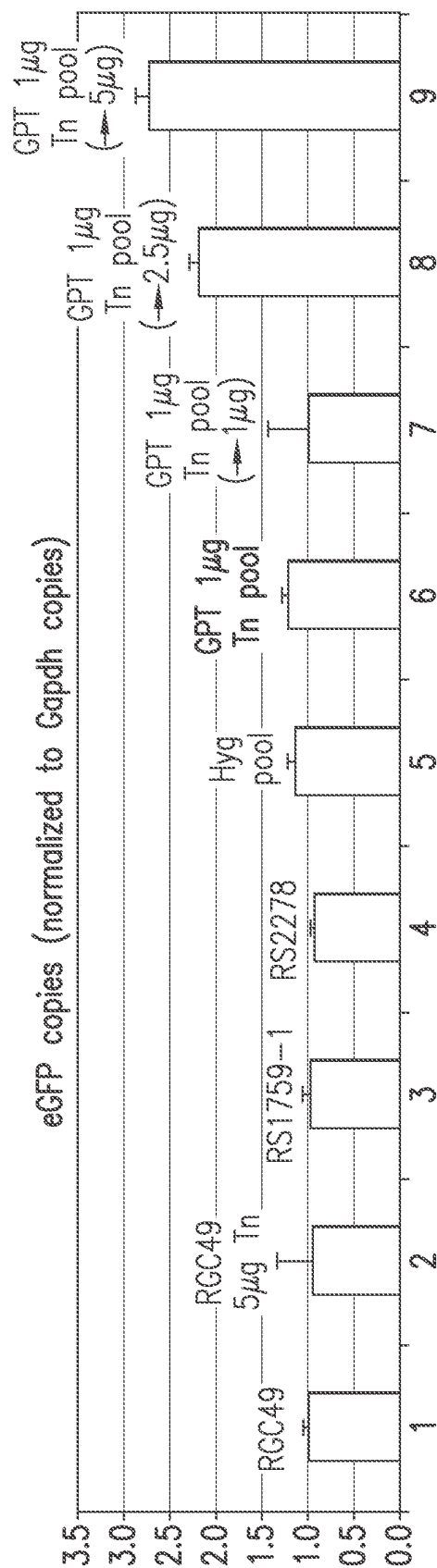


FIG.6B

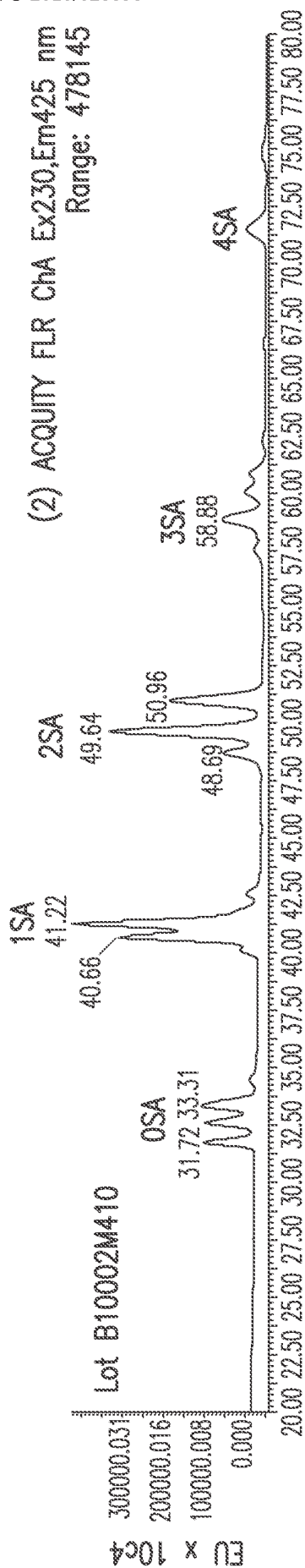


FIG. 7A

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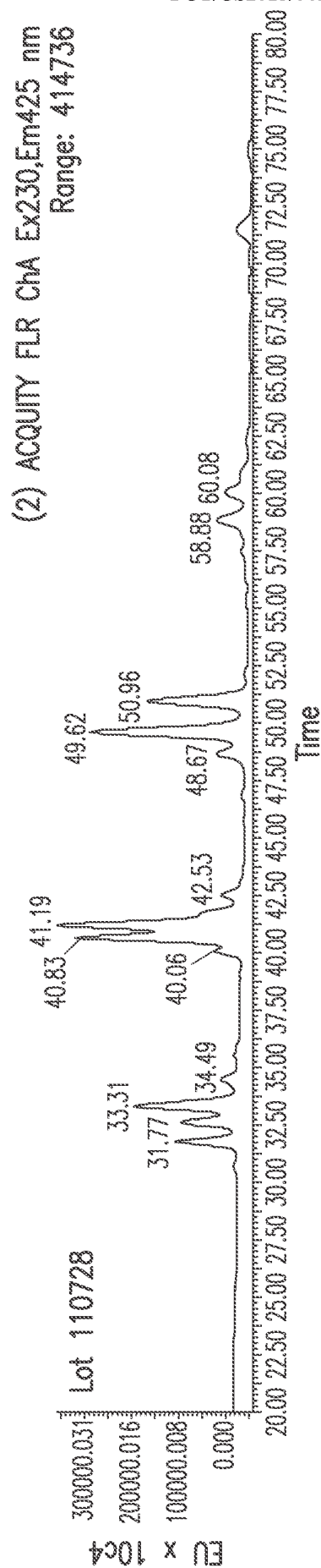


FIG. 7B

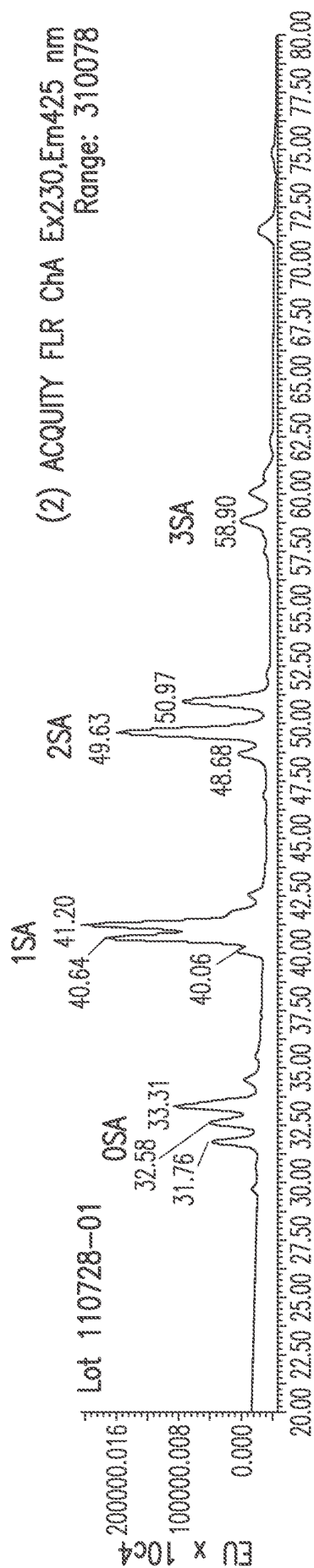


FIG. 7C

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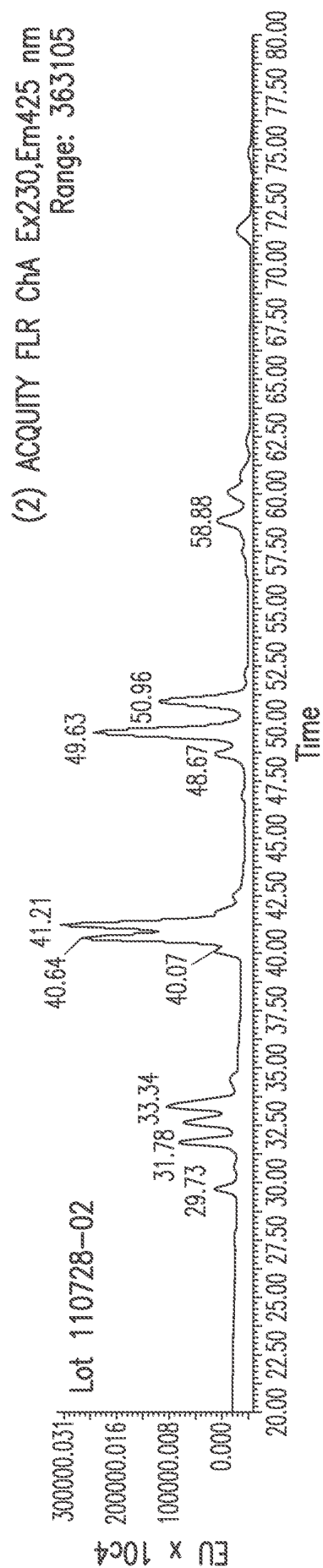


FIG. 7D

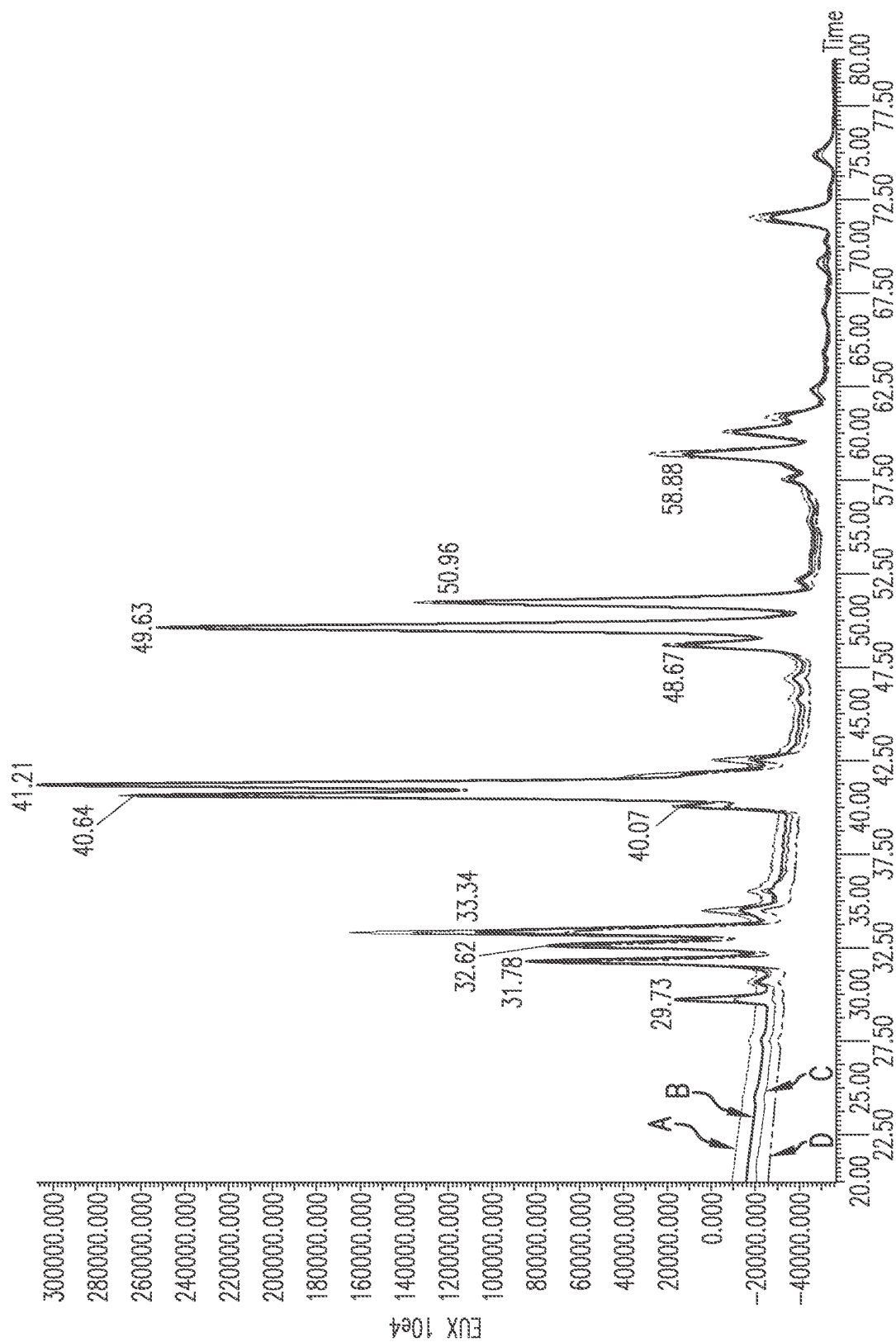


FIG.8