

FIG. 1A

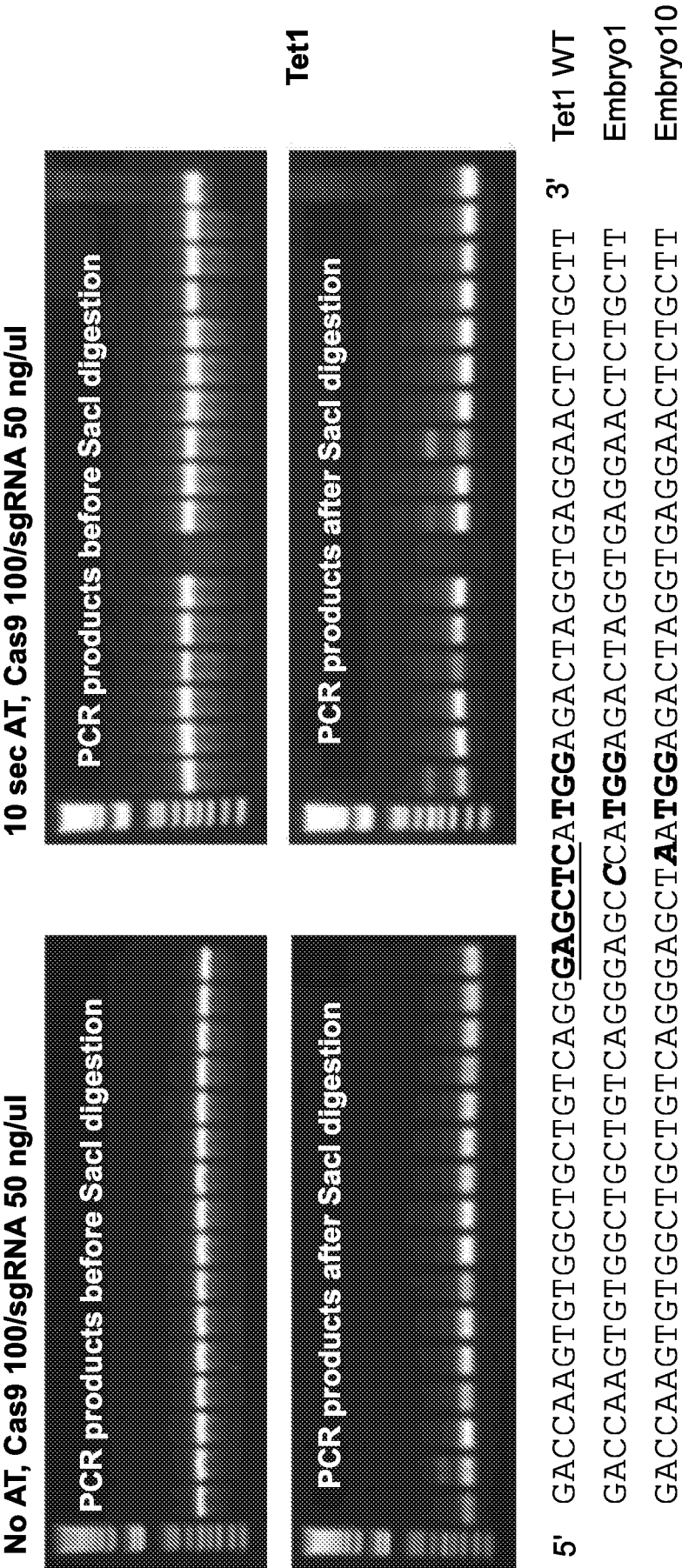
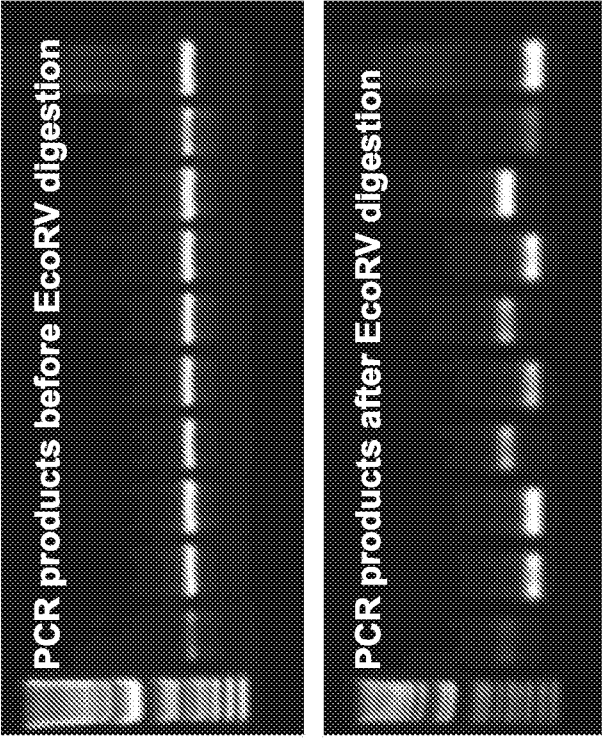


FIG. 1B

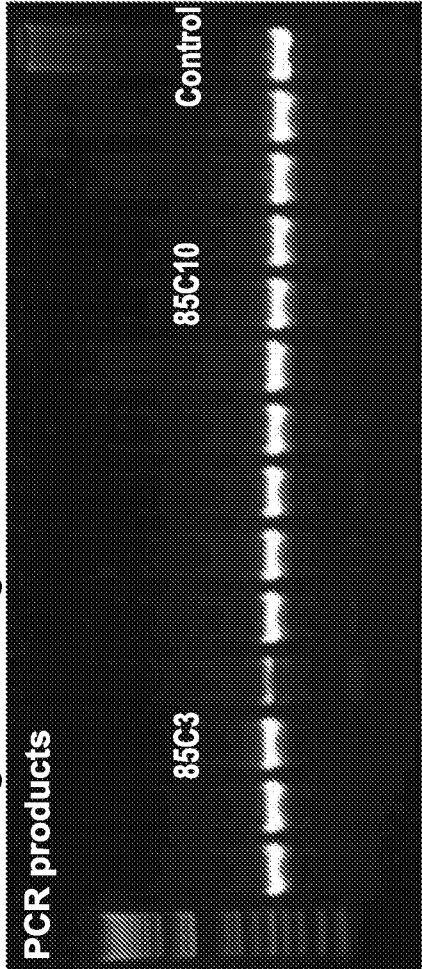
10 sec AT, Cas9 400/sgRNA 200 ng/ul



5'	AGAAACACGTGAAAGTGCCAAACA	<u>GATATCAGGCTGCAGAAATCGGAGAACCA</u>	3'	Tet2 WT
	AGAAACACGTGAAAGTGCCAAACAGAT	--CC AGGCTGCAGAAATCGGAGAACCA		Embryo4
	AGAAACACGTGAAAGTGCCAAACAG	----- CAAGGCTGCAGAAATCGGAGAACCA		Embryo8

FIG. 2A

Cas9 400/sgRNA 200 ng/ul



PCR products Exposed to EcoRV

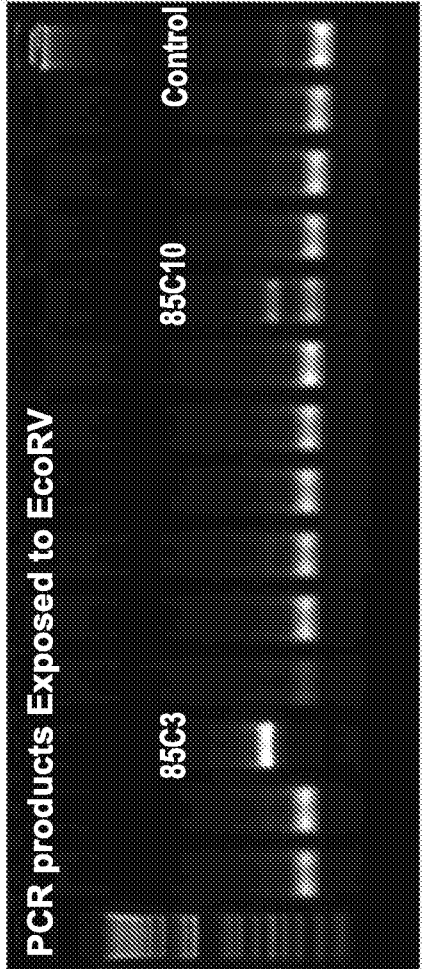
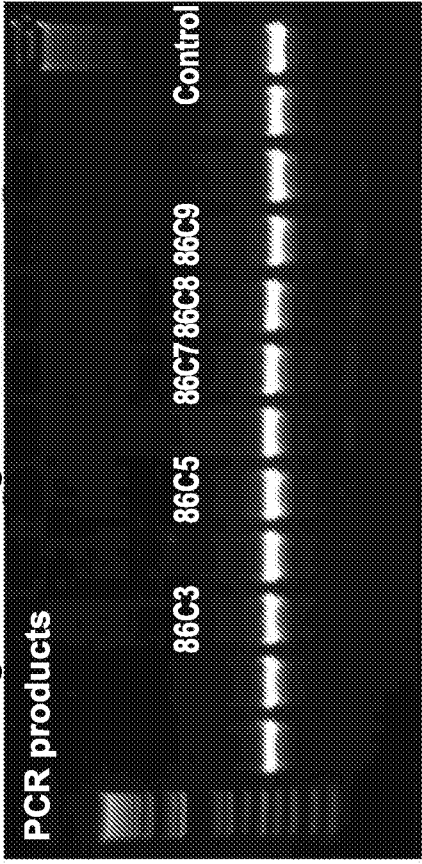
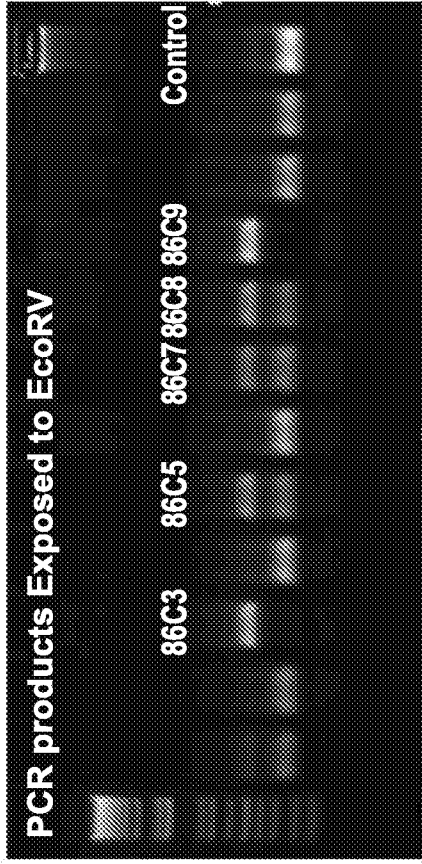


FIG. 2B

Cas9 600/sgRNA 300 ng/ul

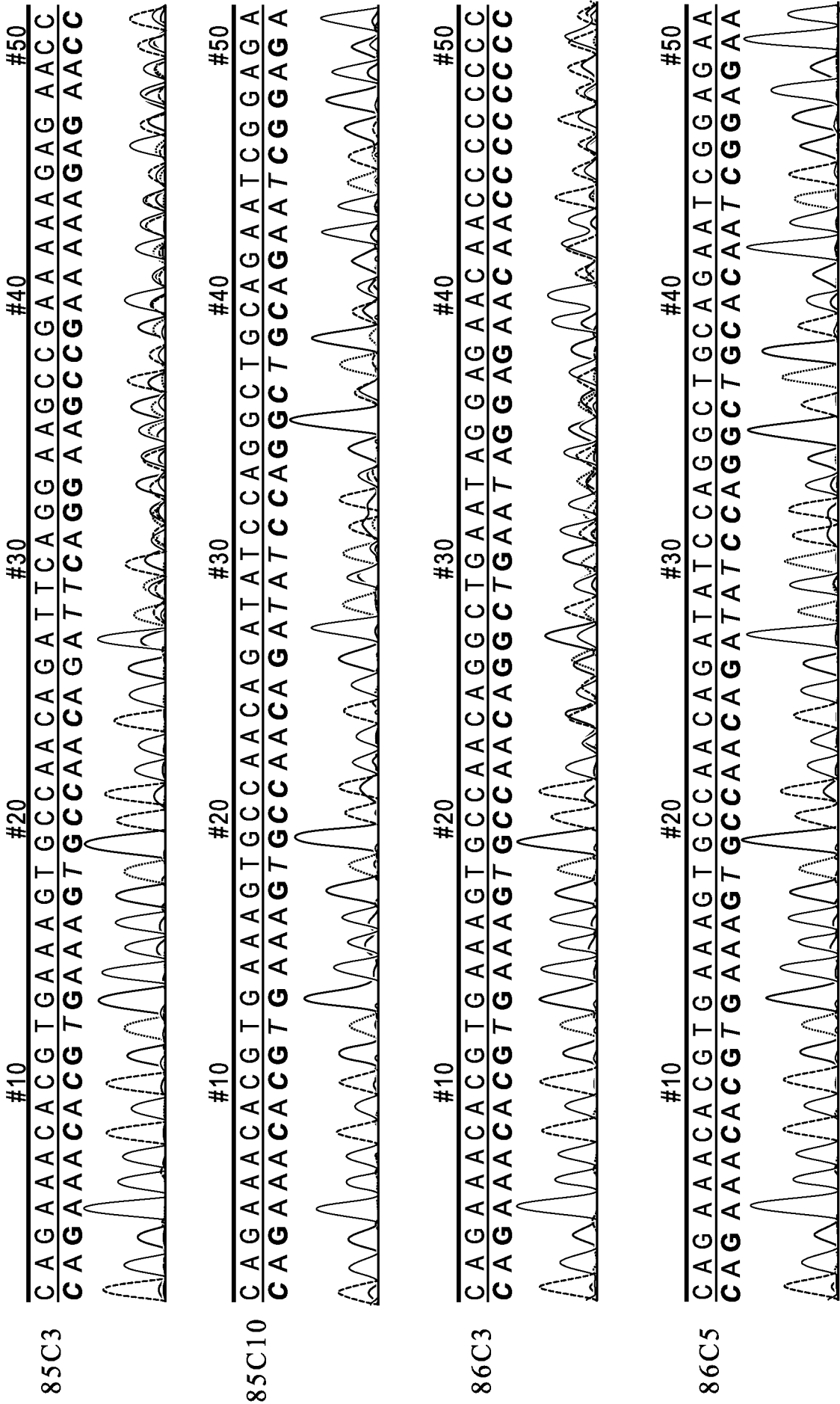


PCR products Exposed to EcoRV



C-----A-----T-----G-----

FIG. 2C



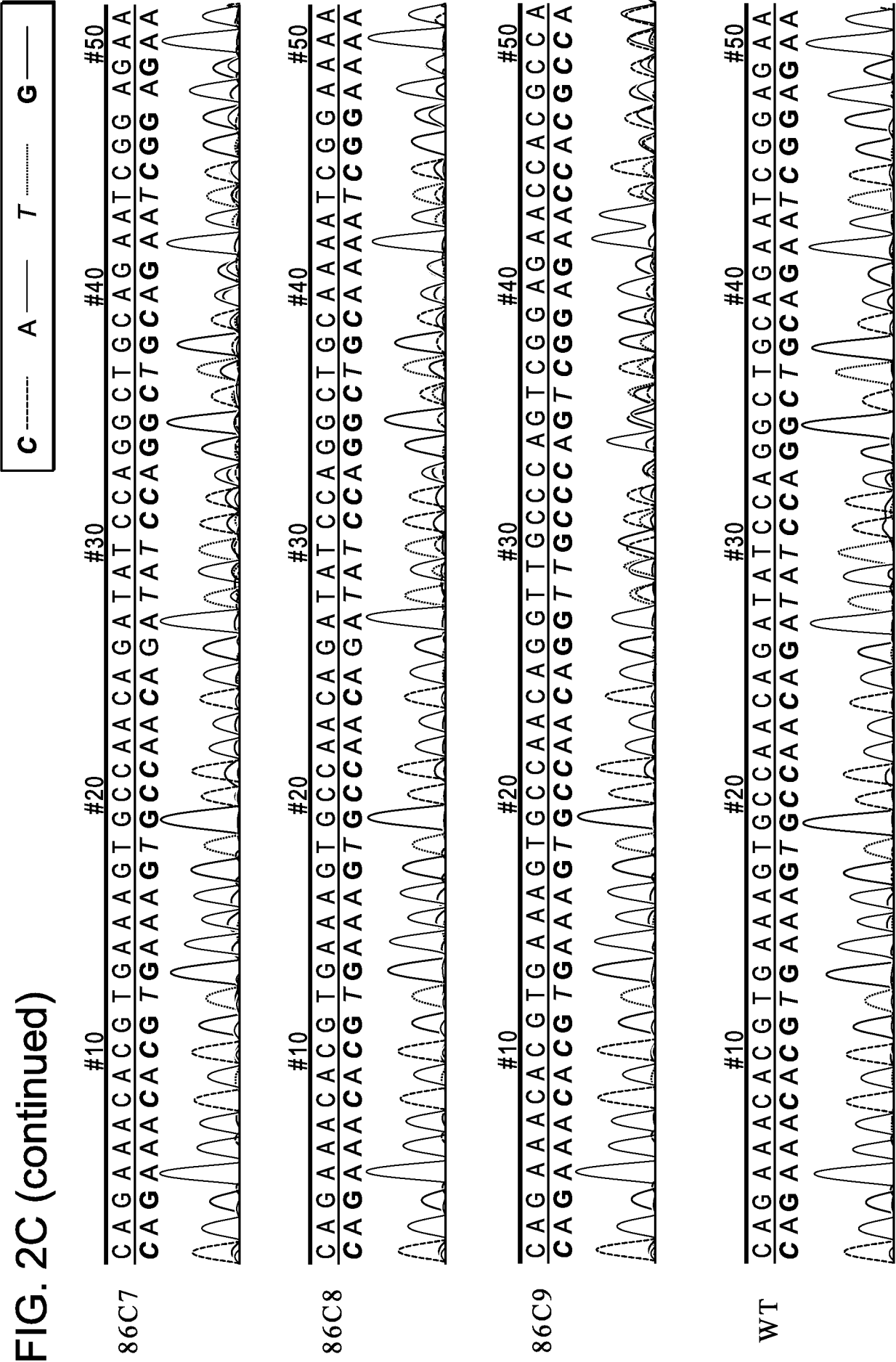
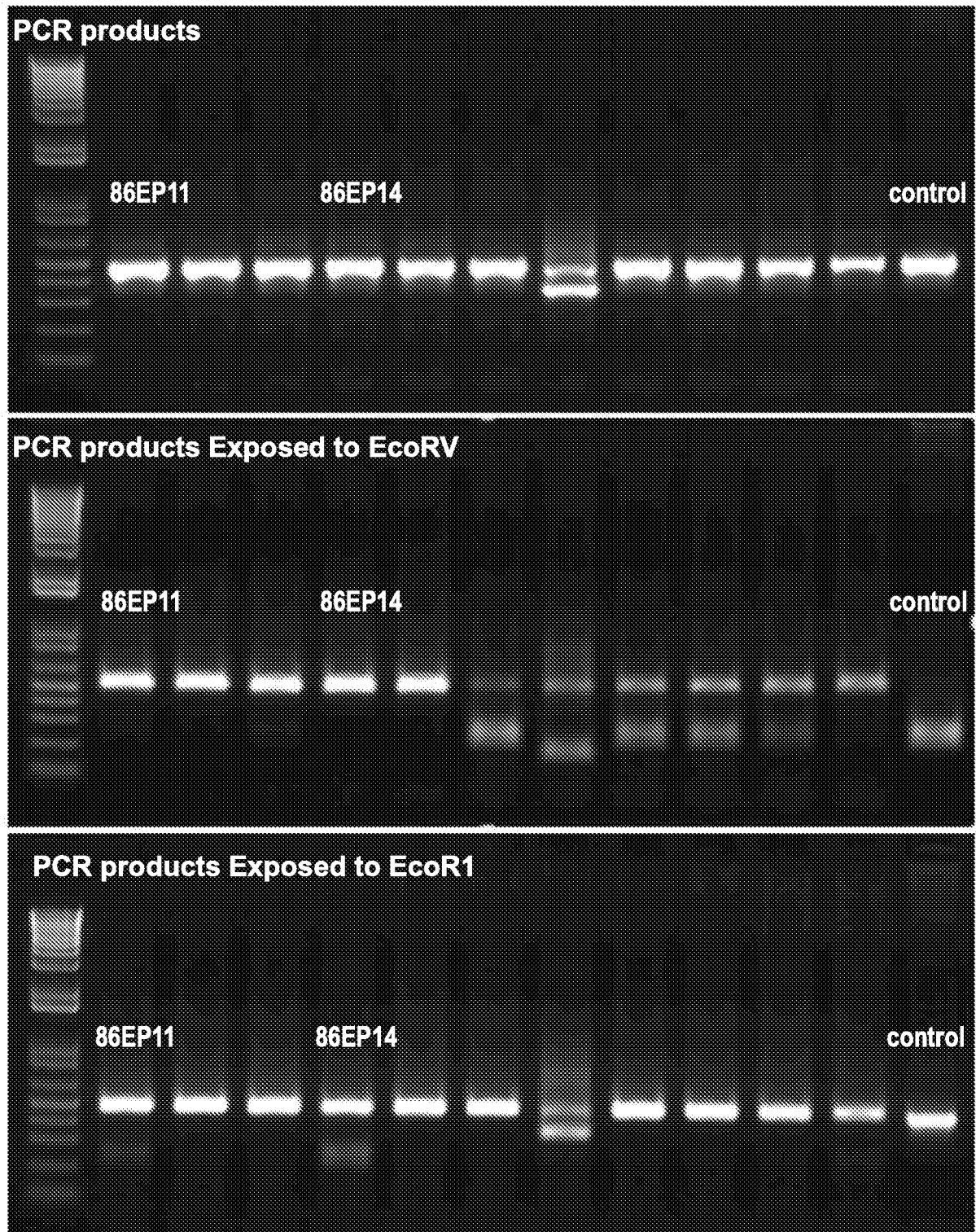


FIG. 2D

85C3	AGAAACACG	TGAAAGTGCCAA	CAG: : : : : : G: [CTGCAGAA	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA		
	AGAAACACG	TGAAAGTGCCAA	CAGATA	T	CCAGGCTGCAGAA	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA
	AGAAACACG	TGAAAGTGCCAA	CAGATA	T	CCAGGCTGCAGAA	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA
86C3	AGAAACACG	TGAAAGTGCCAA	CAGATA: : T: : A: [TCTGCAGAA	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA		
	AGAAACACG	TGAAAGTGCCAA	CAGATA: : T: : A: [TCTGCAGAA	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA		
	AGAAACACG	TGAAAGTGCCAA	CAG: : : : : : G: [CTGCAGAA	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA		
	AGAAACACG	TGAAAGTGCCA	: : : : : : GGC	TGCAGAA	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA	
86C9	AGAAACACG	TGAAAGTGCCAA	CAGATAC: : CCAG	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA		
	AGAAACACG	TGAAAGTGCCAA	CAGATAC: : CCAGGCTGCAGAA	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA		
	AGAAACACG	TGAAAGTGCCAA	CAG: : : : : : G: [CTGCAGAA	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA		
WT	AGAAACACG	TGAAAGTGCCAA	CAGATA: : TCCAGGCTGCAGAA	T	CGGAGAA	CCA	CGCCCGAGCTGCAGAGCC	T	C	AAGCAA	CCAAAA		

FIG. 3A**Cas9 400/sgRNA 200/donor 400 ng/ul**

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FIG. 4A

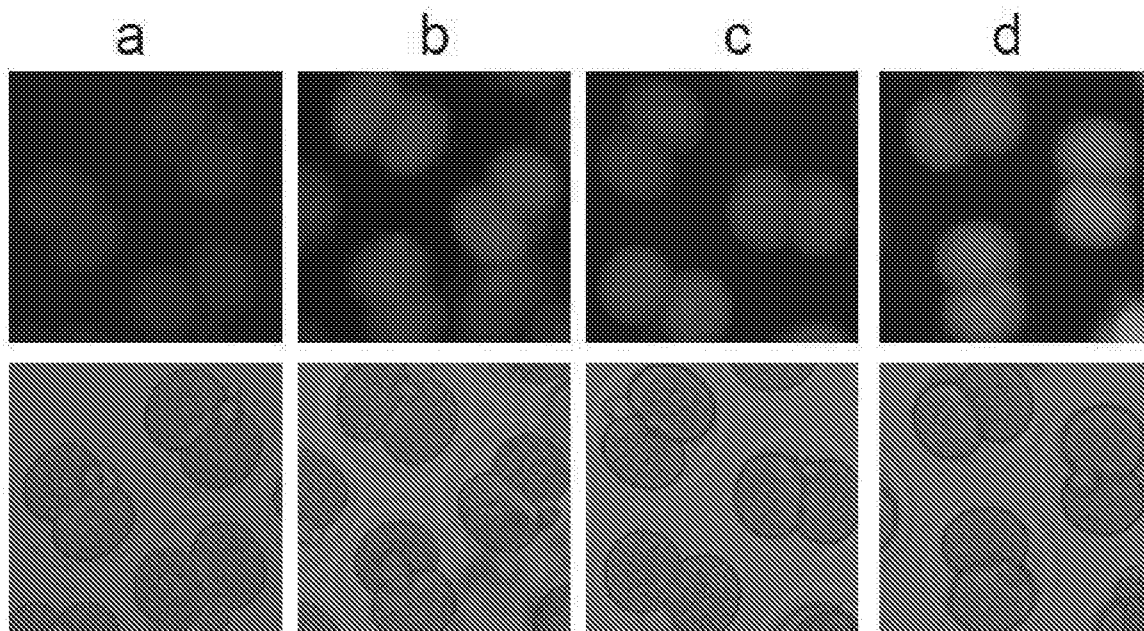


FIG. 4B

	Volt.	Pulses	Duration	Interval	No. of EP
a	30V	2	1ms	100ms	1
b	30V	2	1ms	100ms	4
c	30V	2	1ms	100ms	6
d	30V	2	1ms	100ms	8

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FIG. 4C

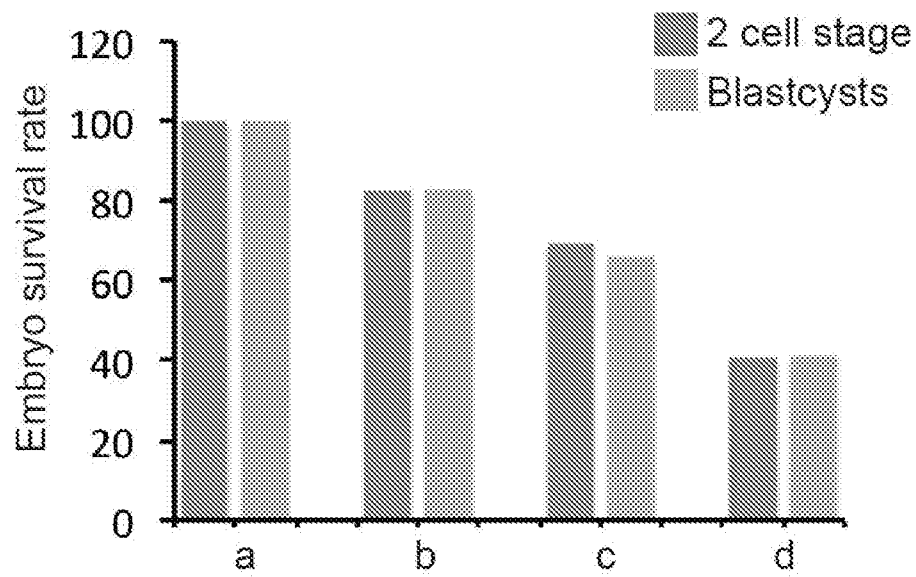


FIG. 4D

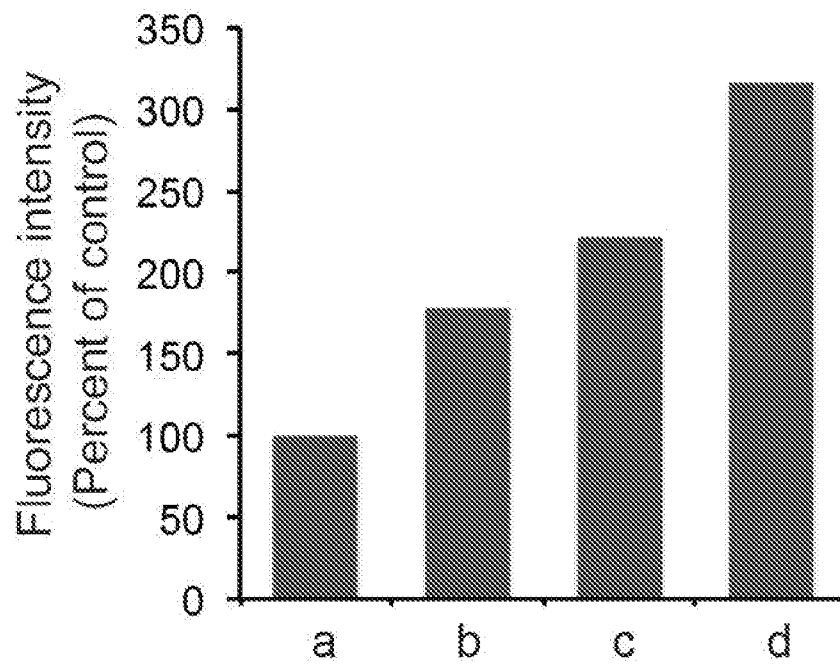


FIG. 5A

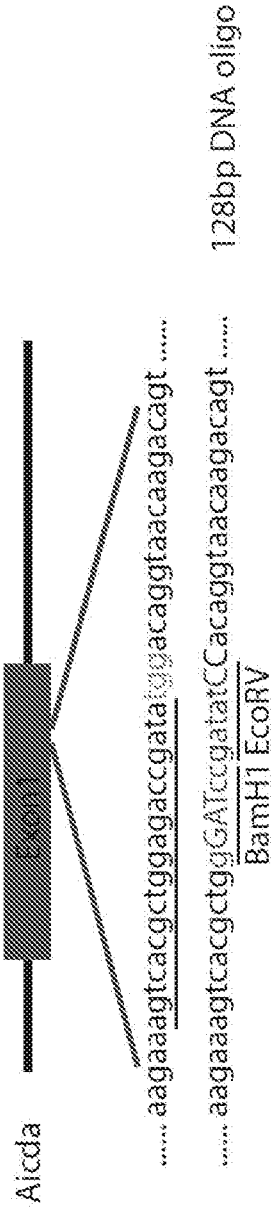
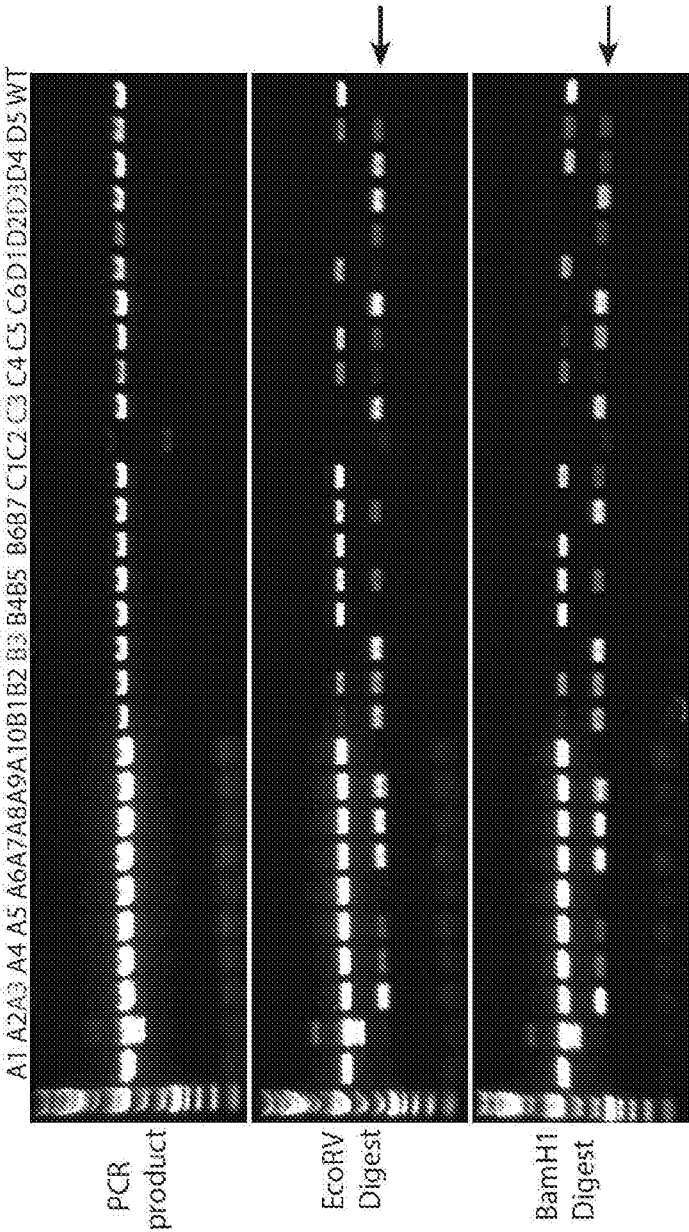


FIG. 5B



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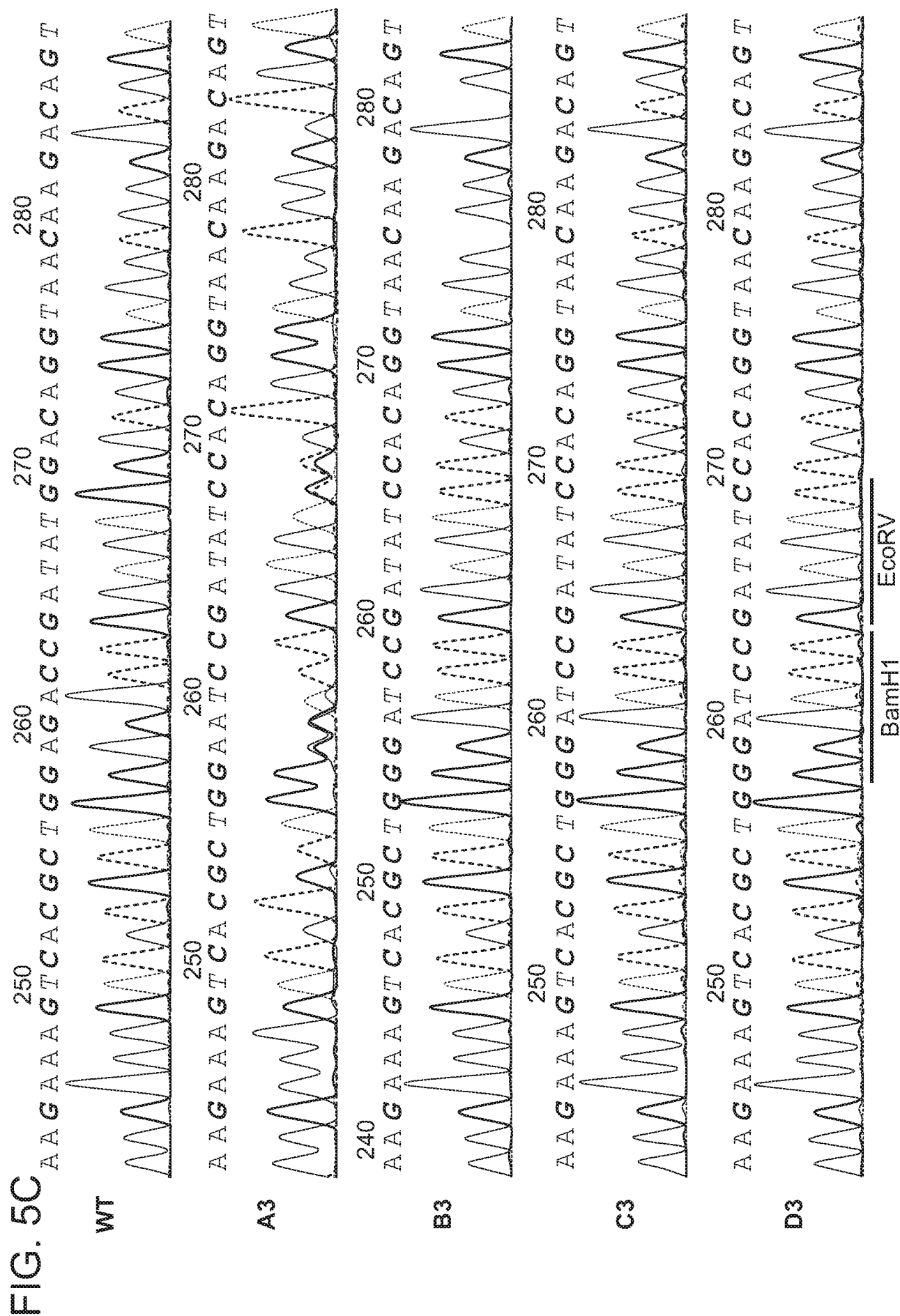


FIG. 6A

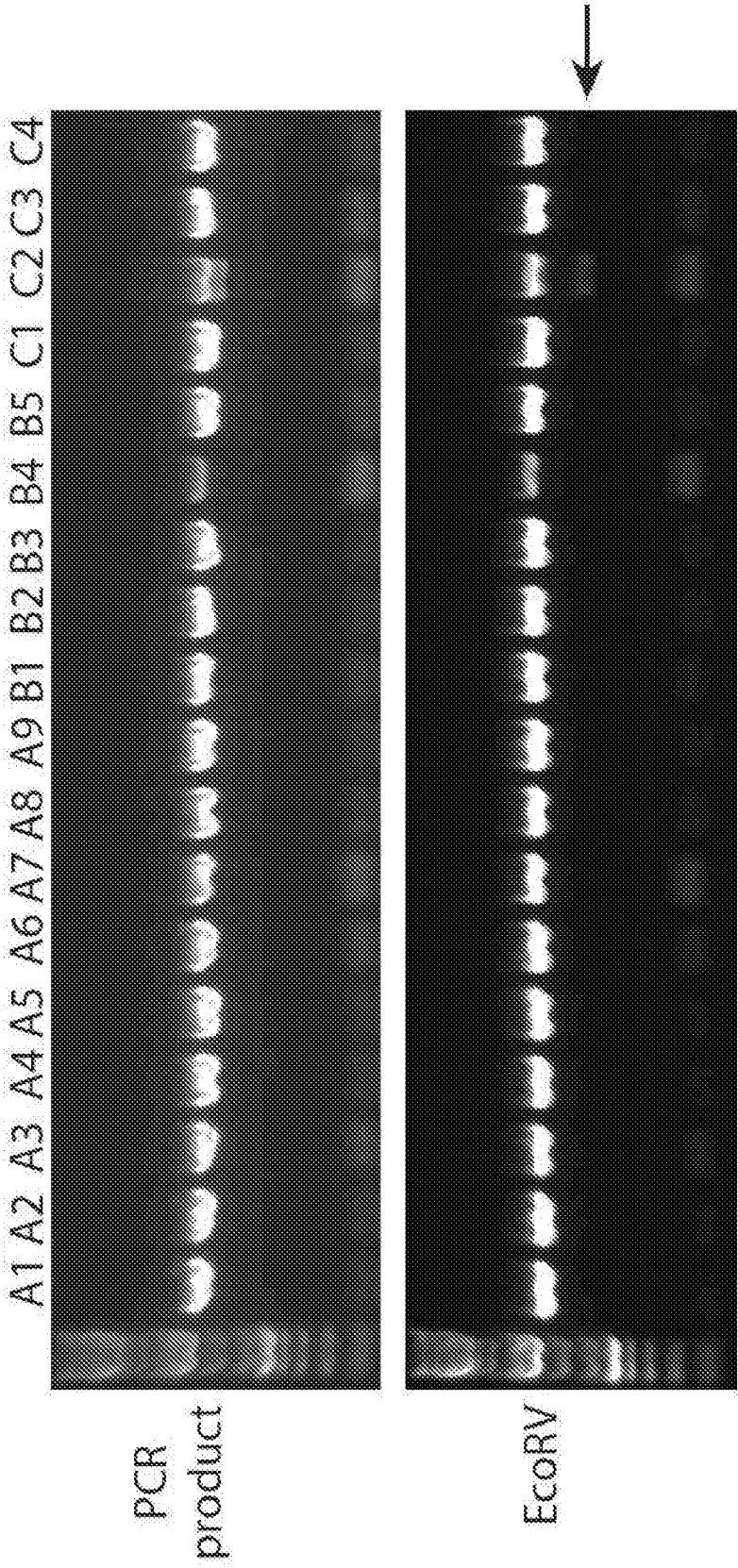


FIG. 6B

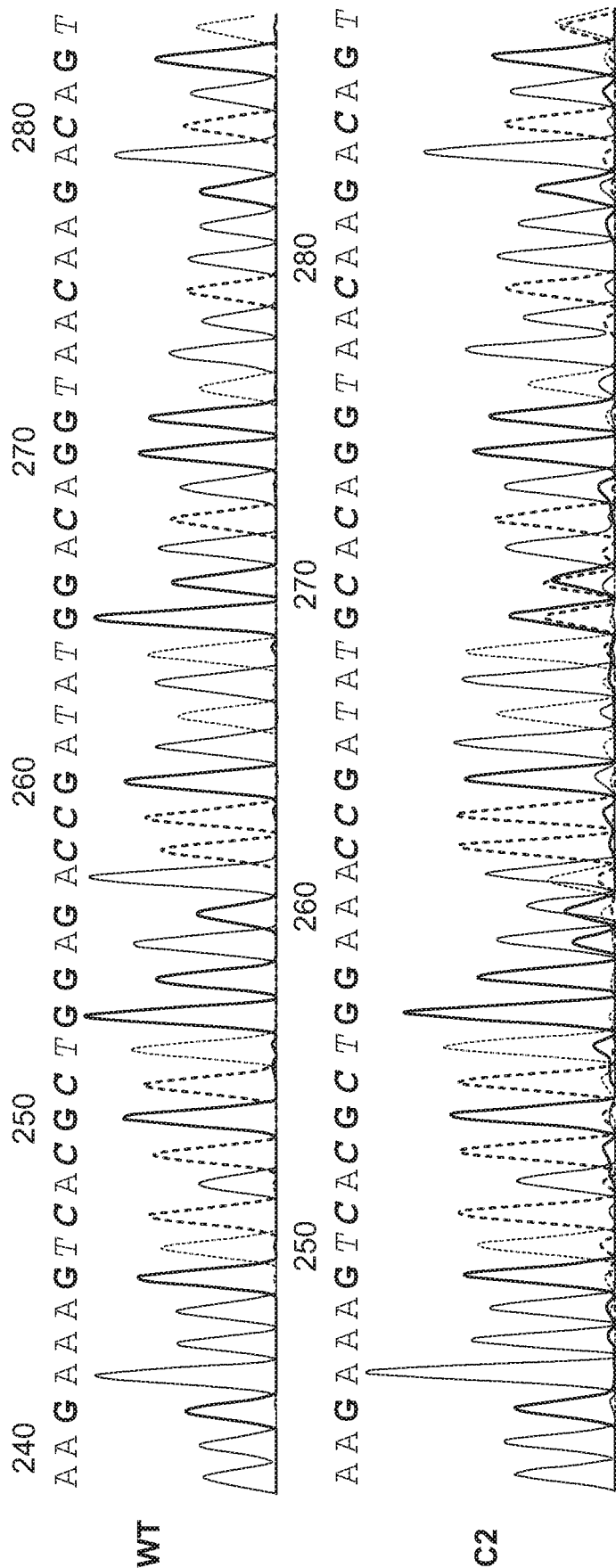


FIG. 6C

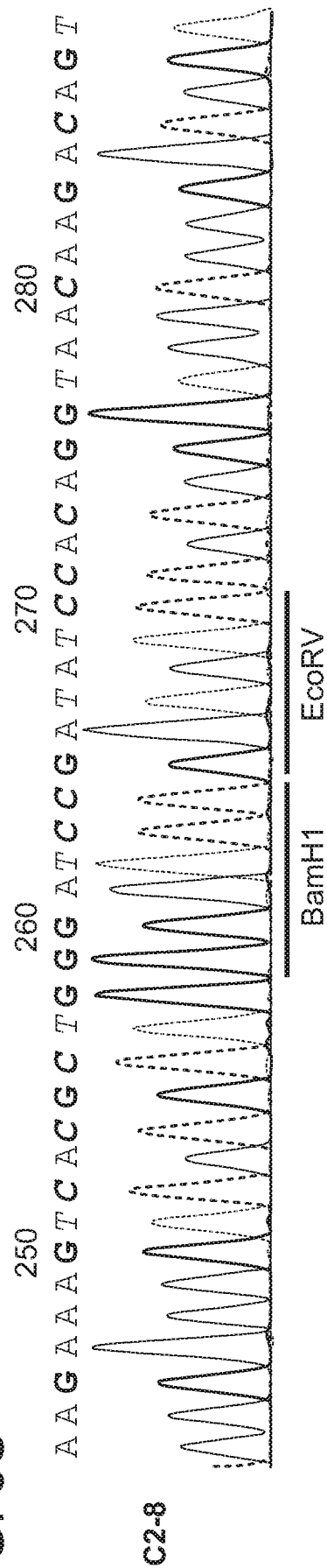


FIG. 7A

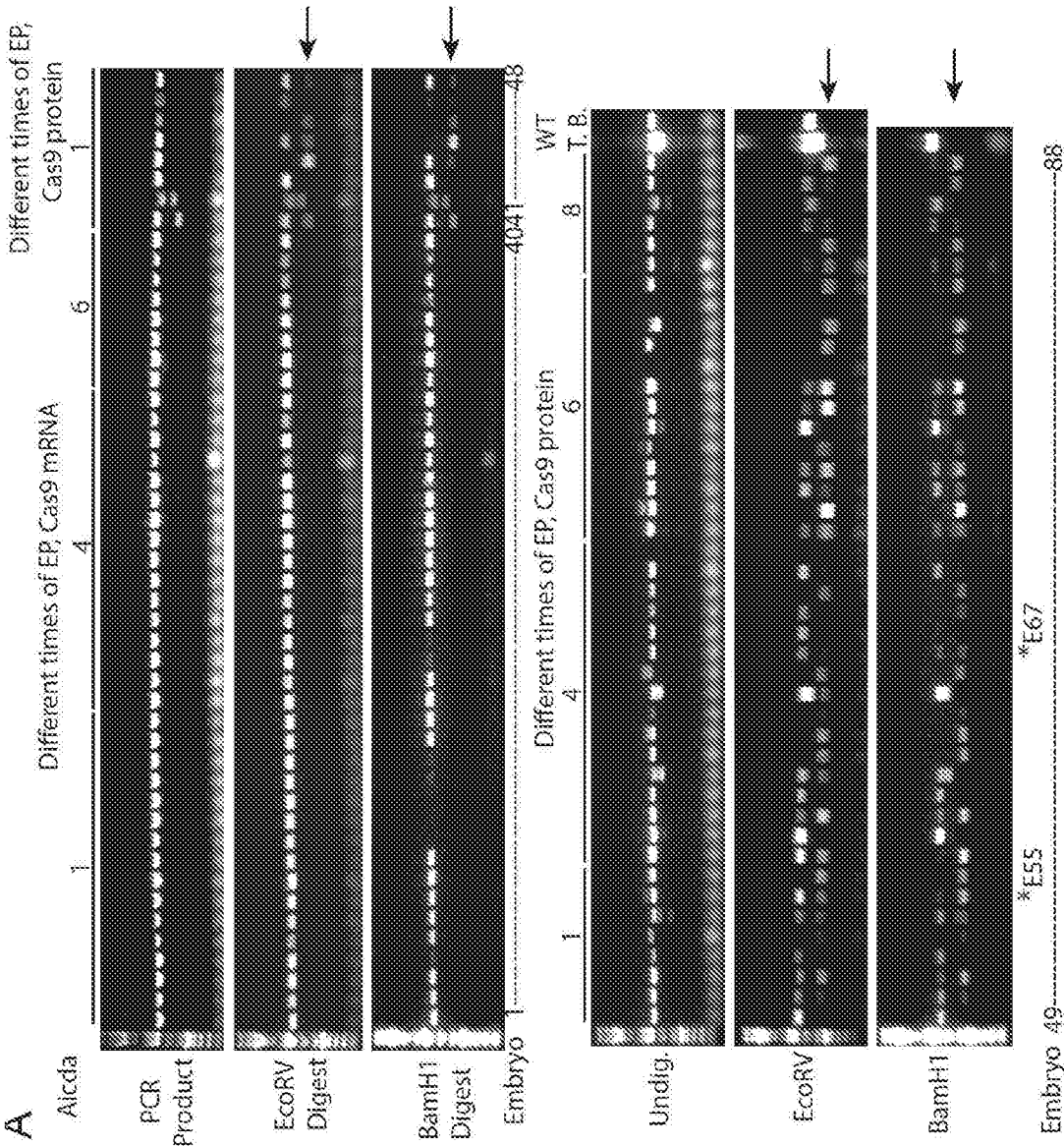


FIG. 7B

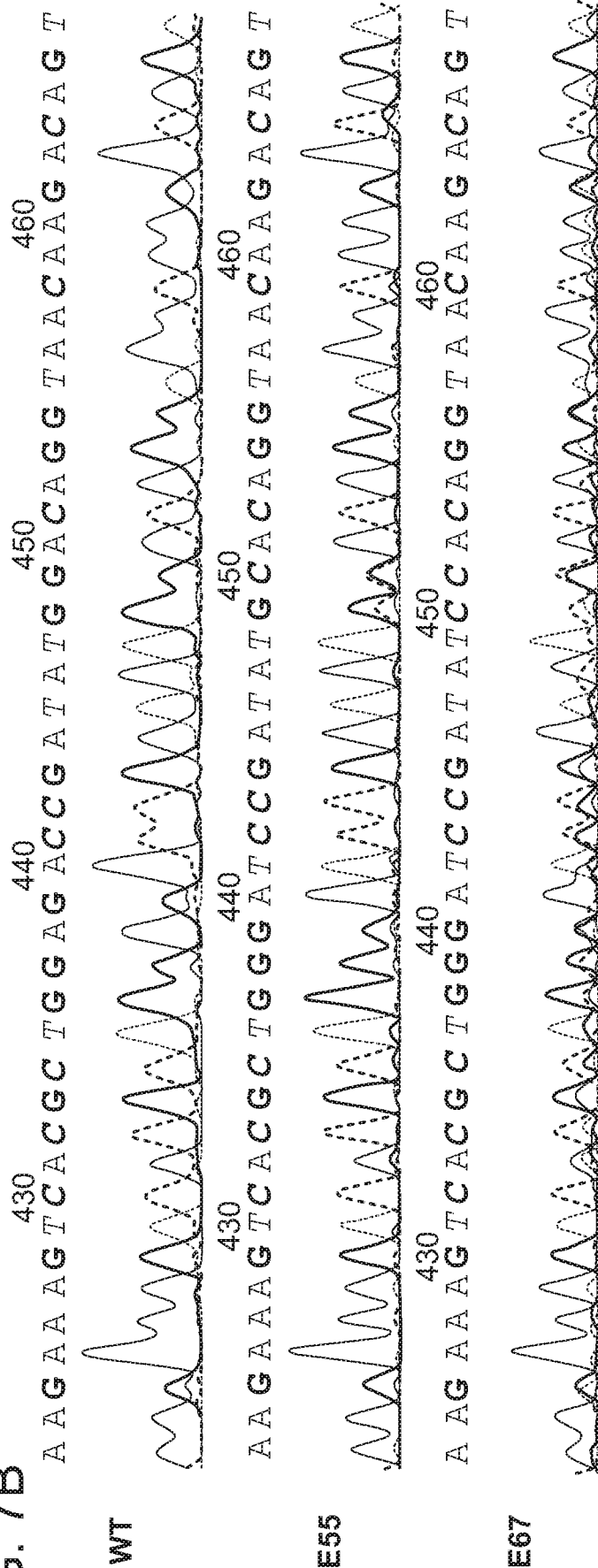


FIG. 7C

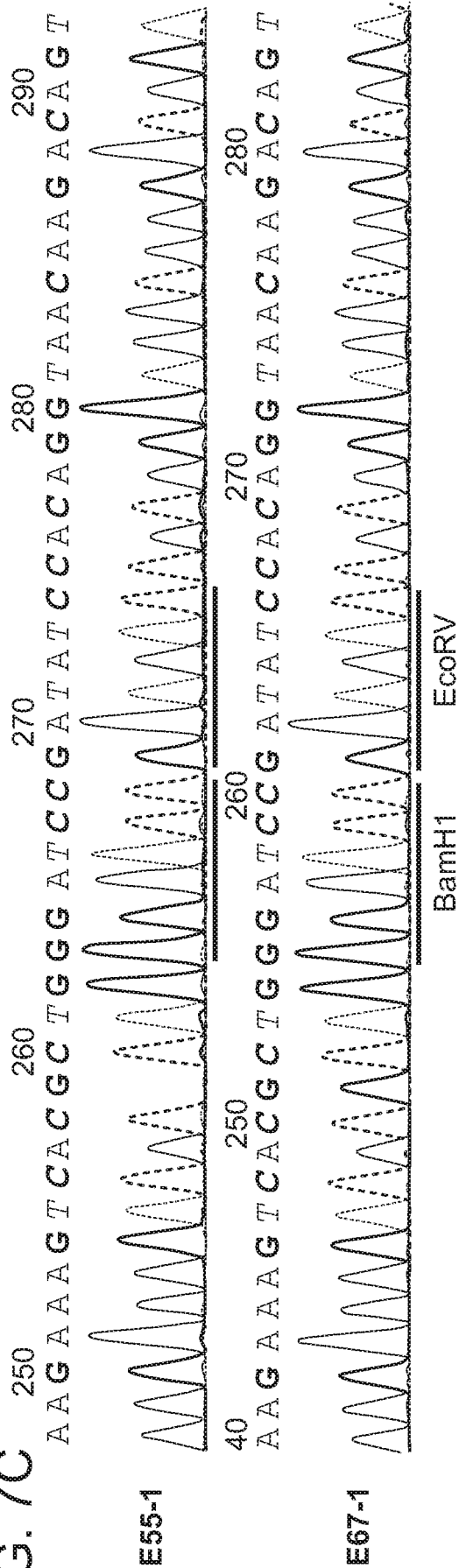


FIG. 8A

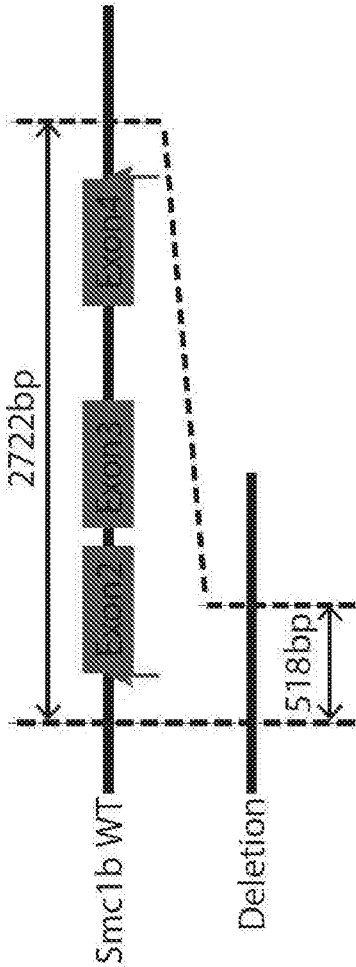


FIG. 8B

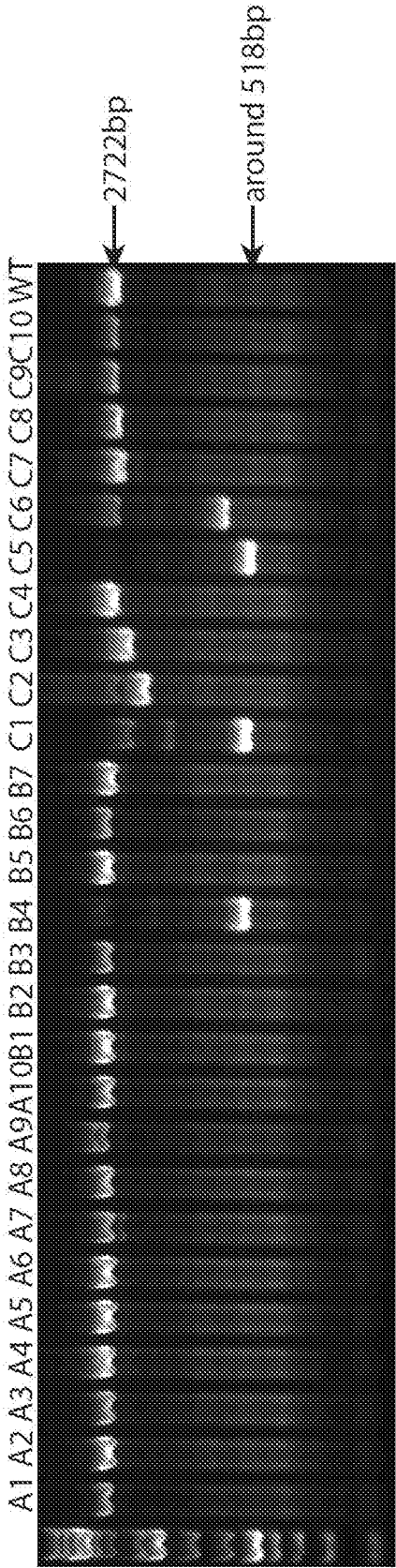
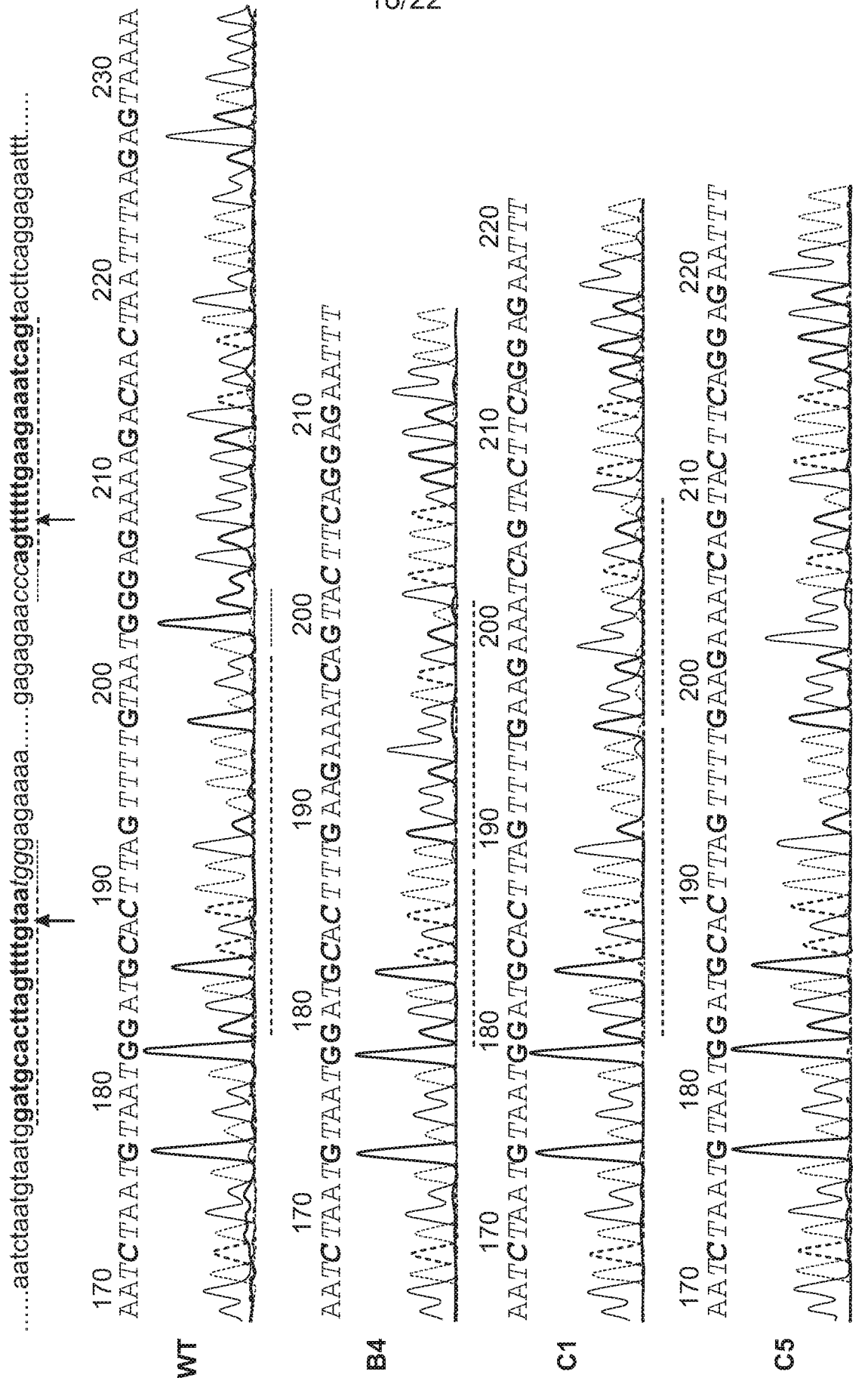


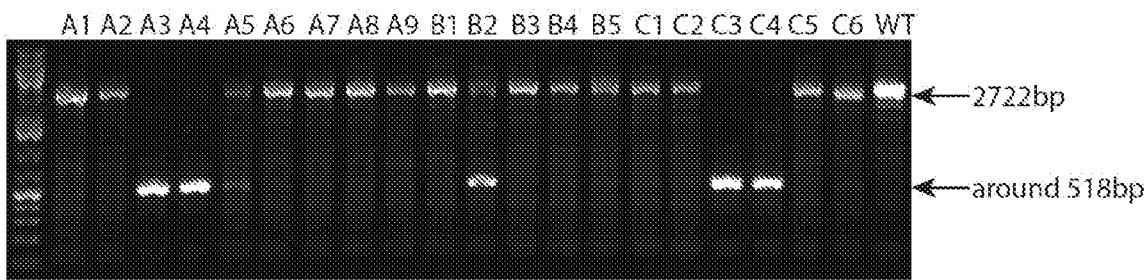
FIG. 8C

Smc1b



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FIG. 9A



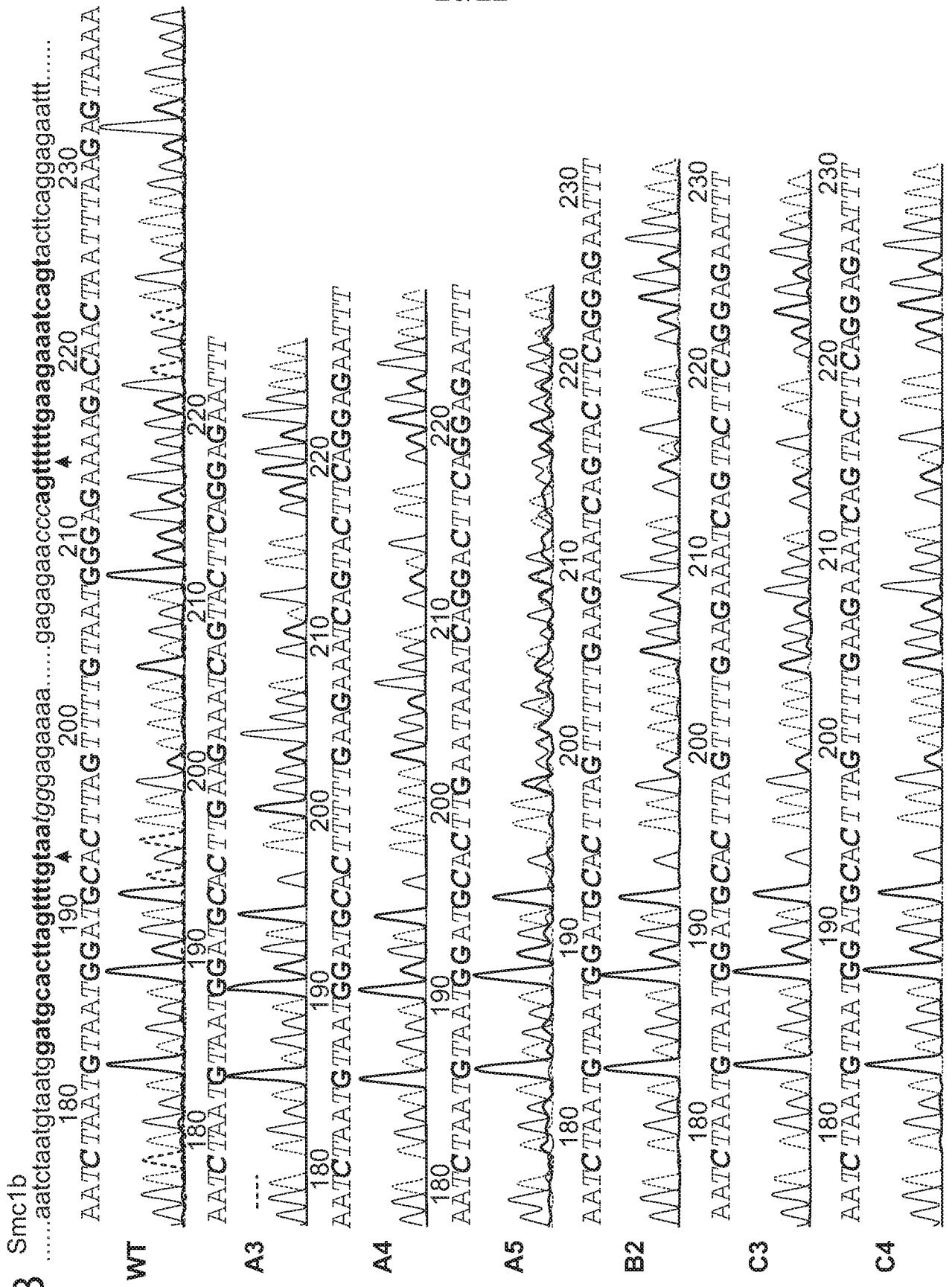


FIG. 10A

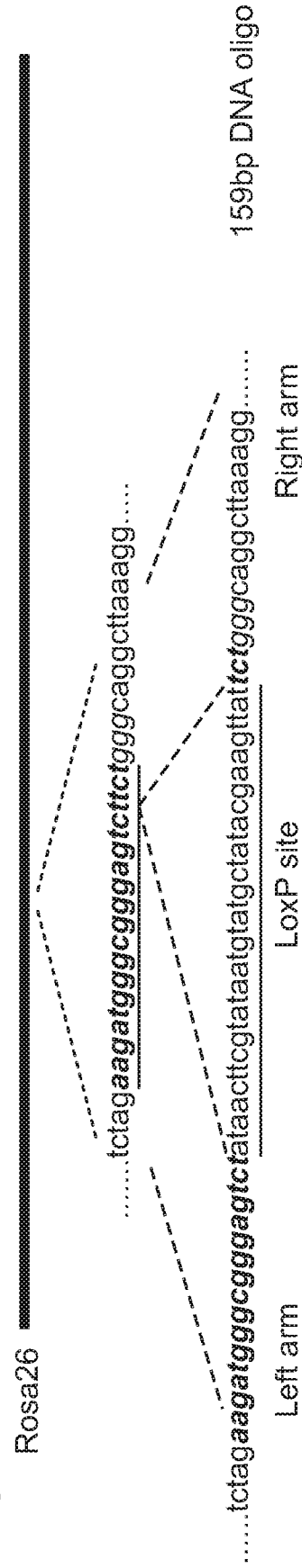


FIG. 10B

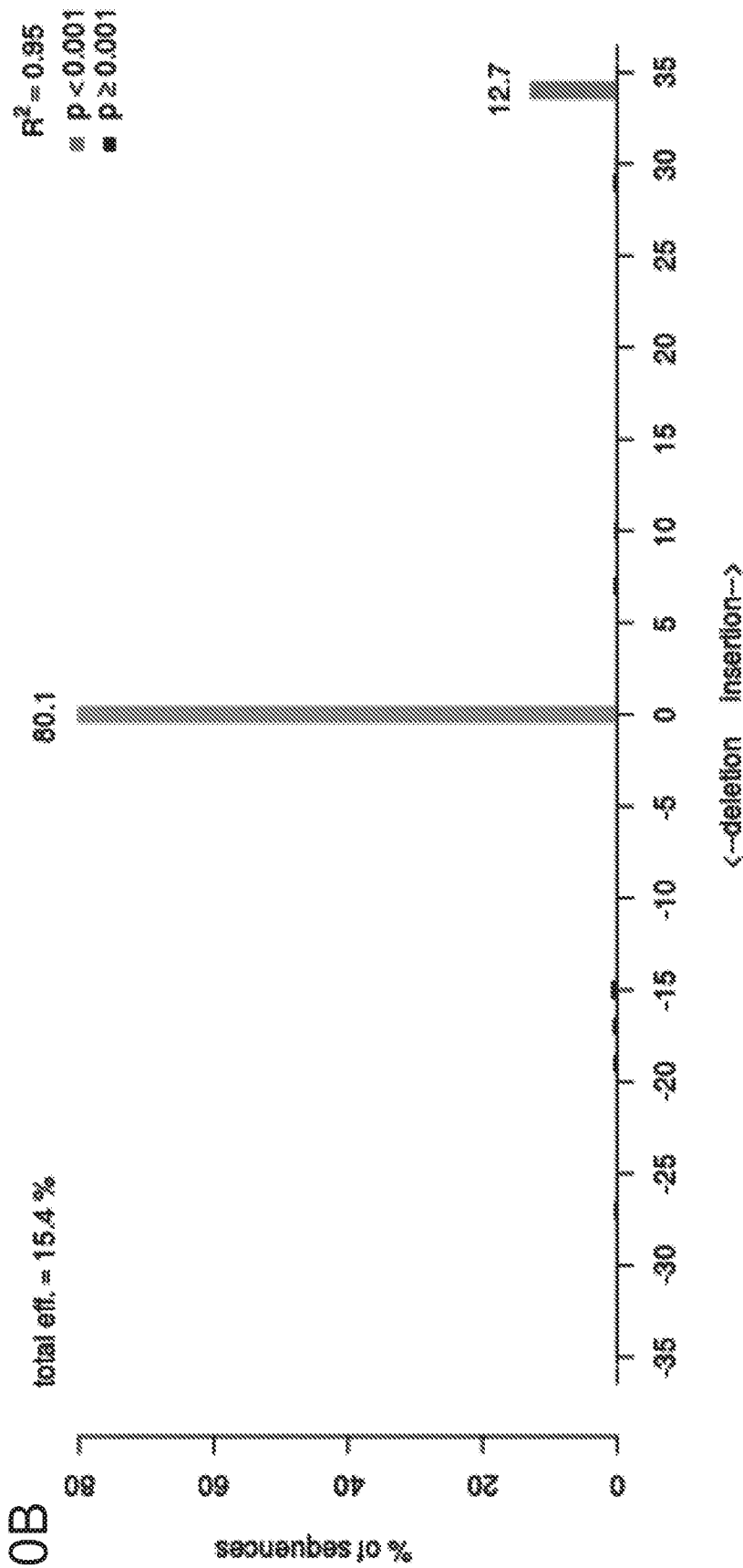


FIG. 10C

