

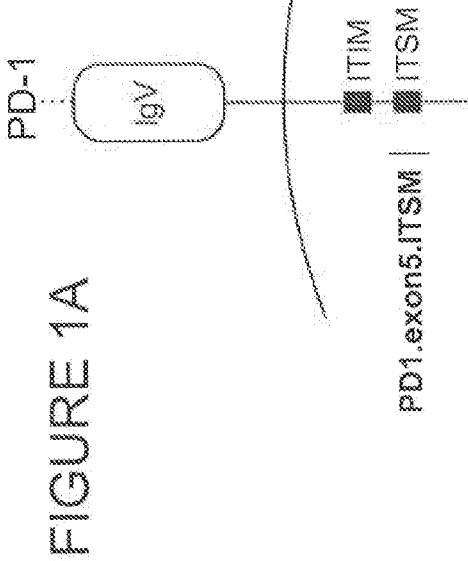
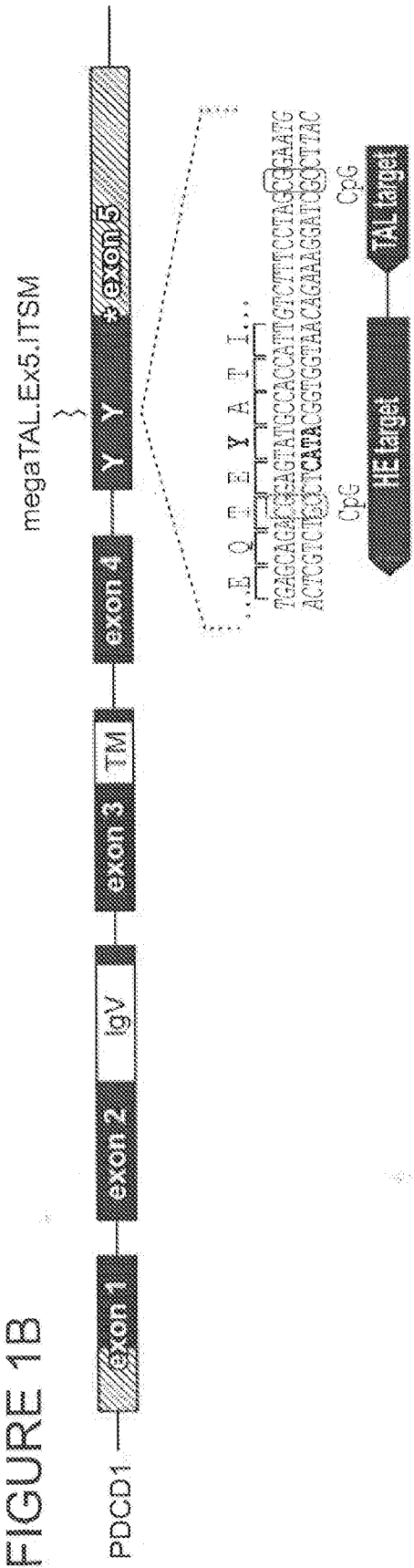
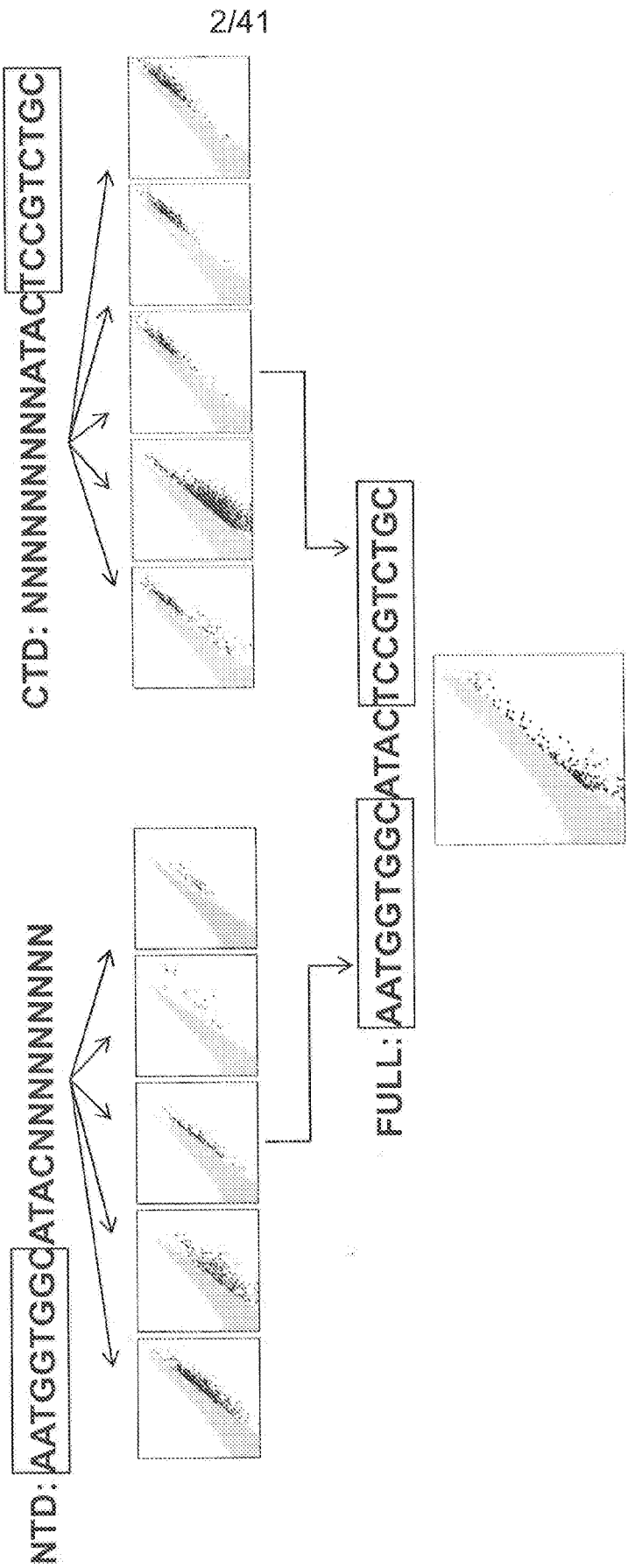
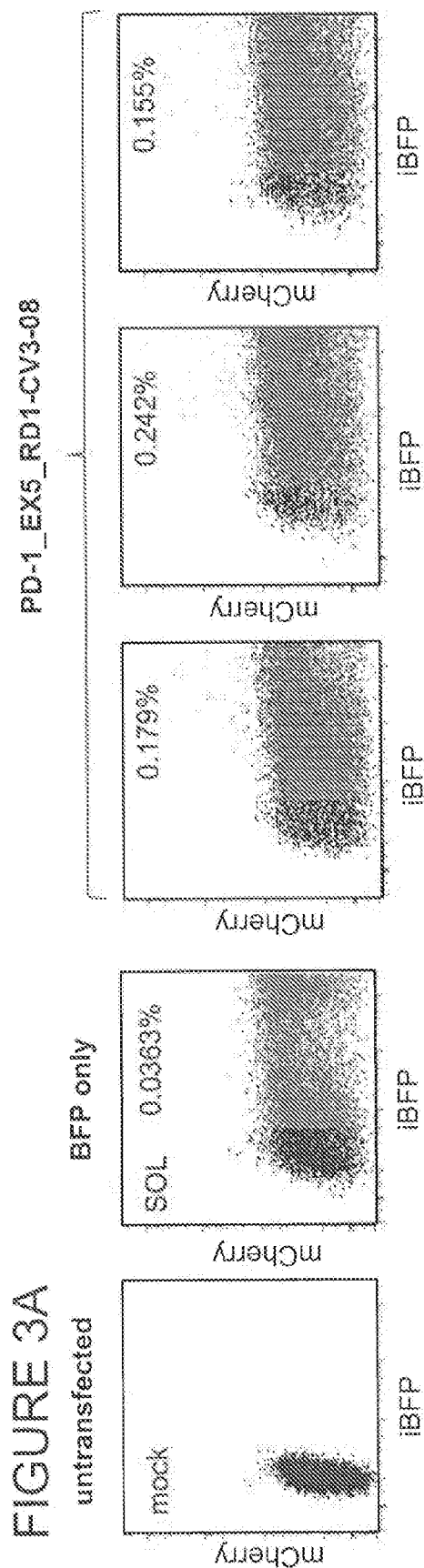
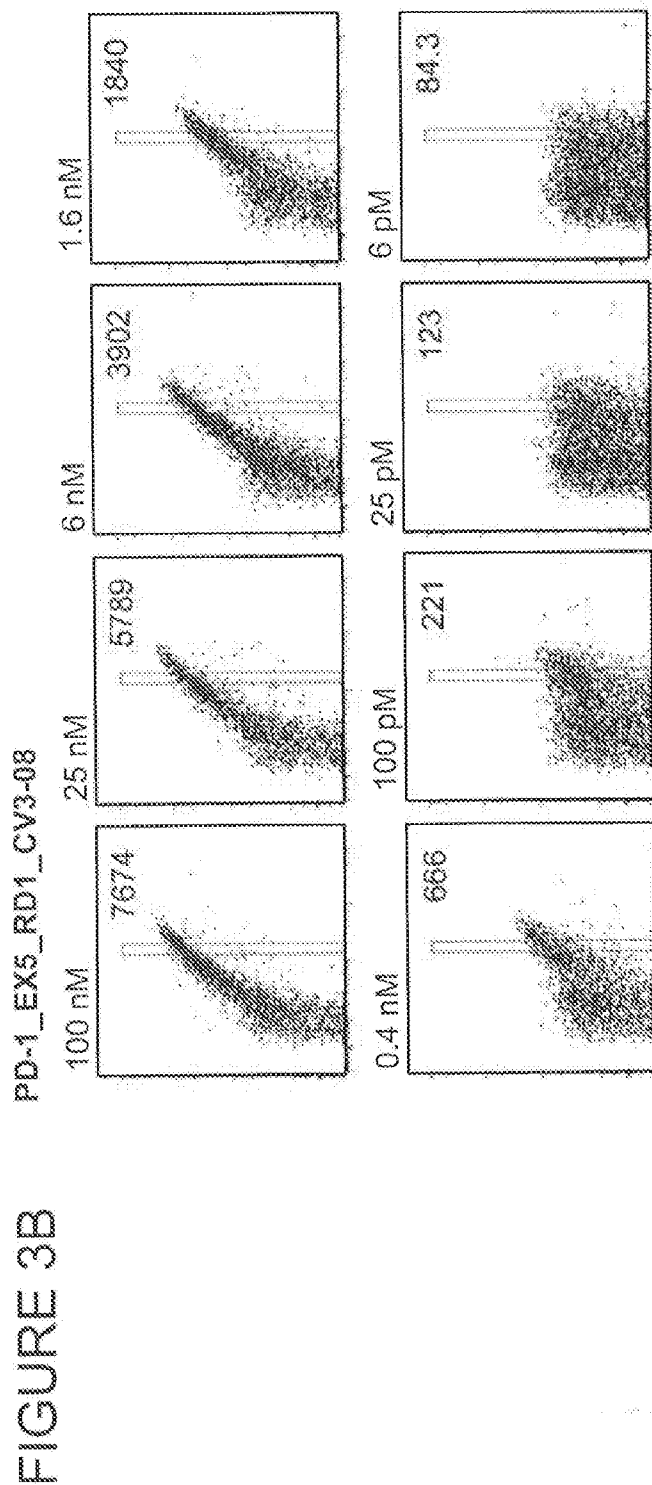


FIGURE 2

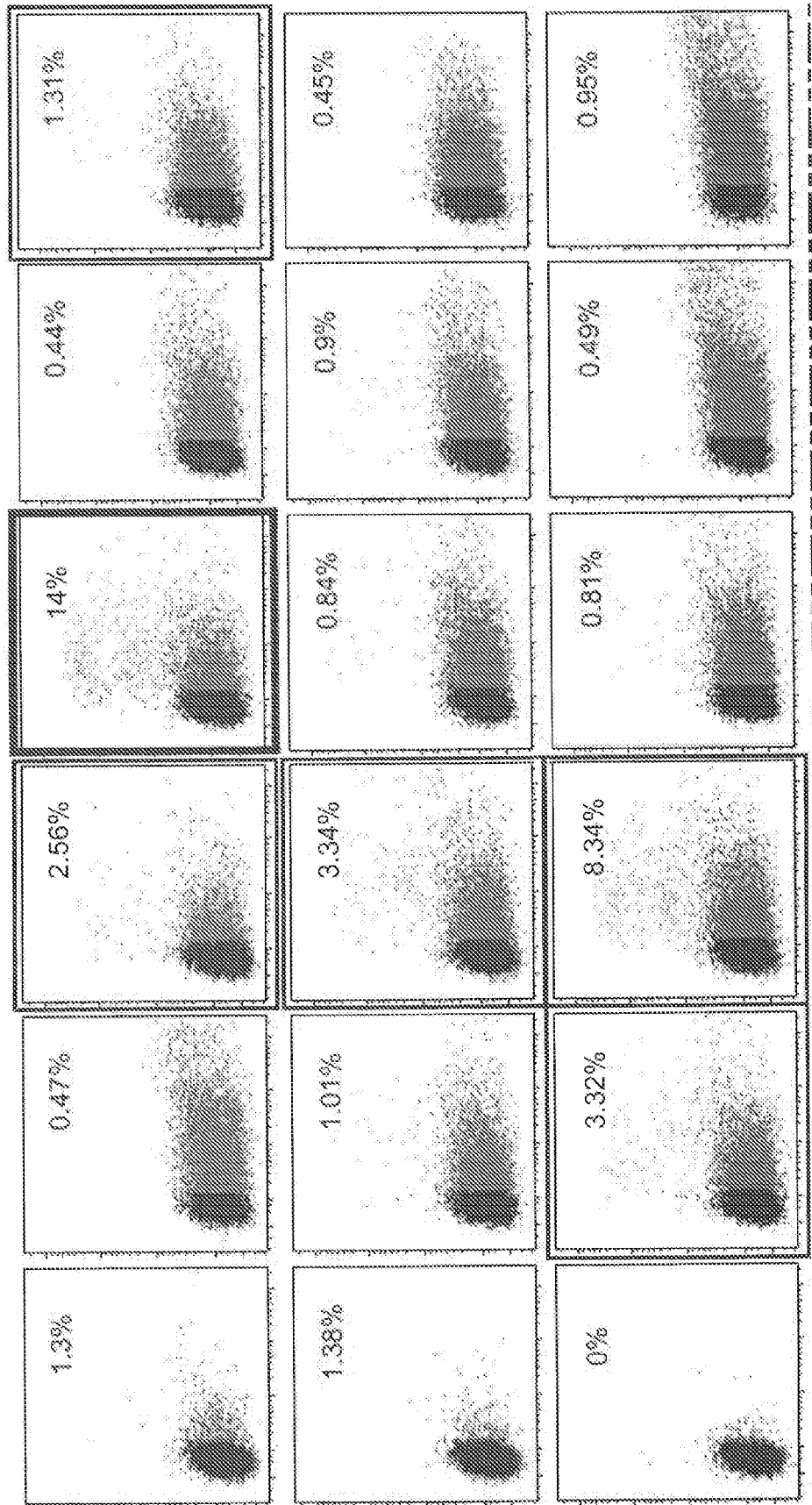


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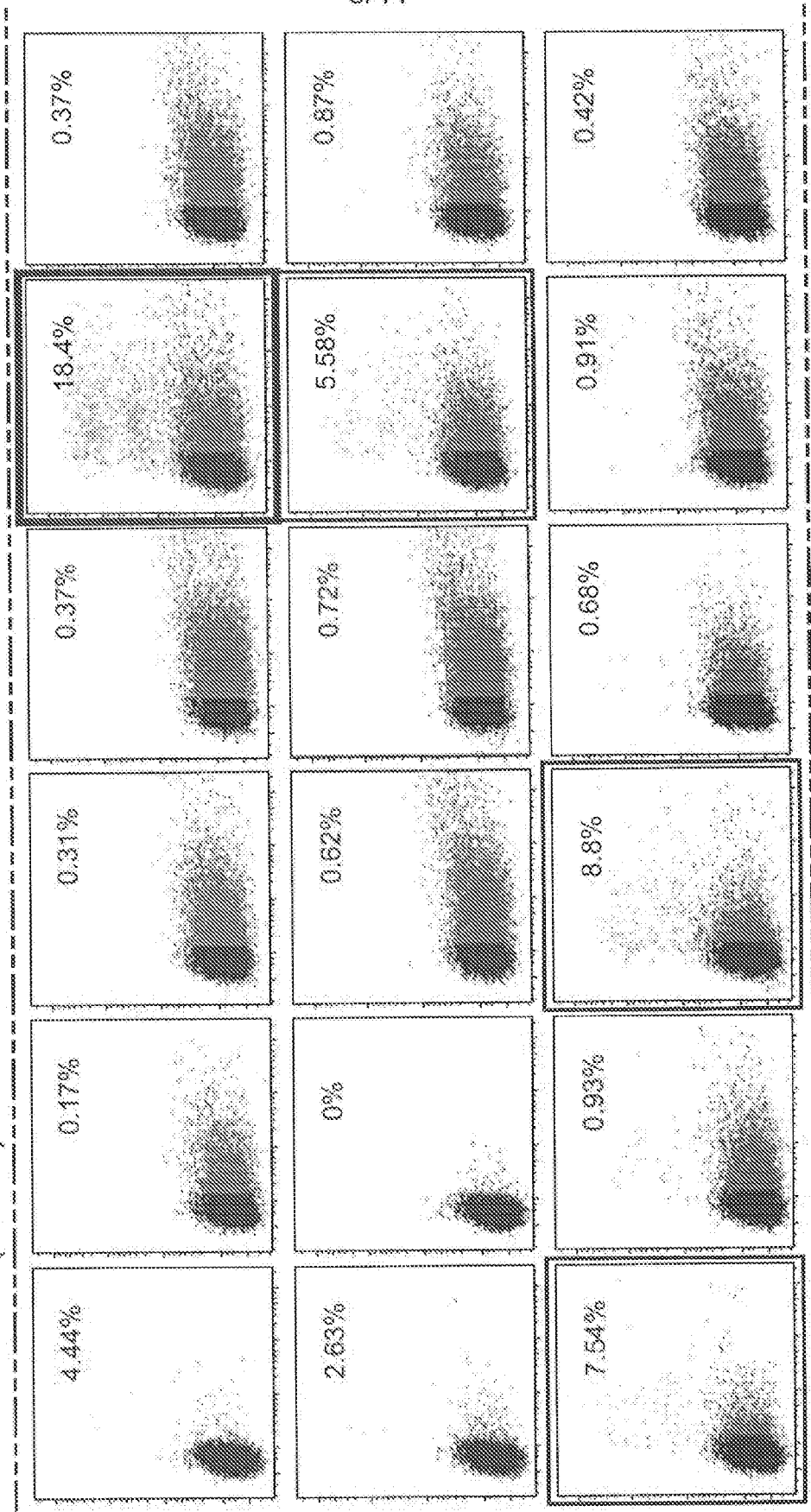
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FIGURE 4



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FIGURE 4 (cont.)



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FIGURE 4 (cont.)

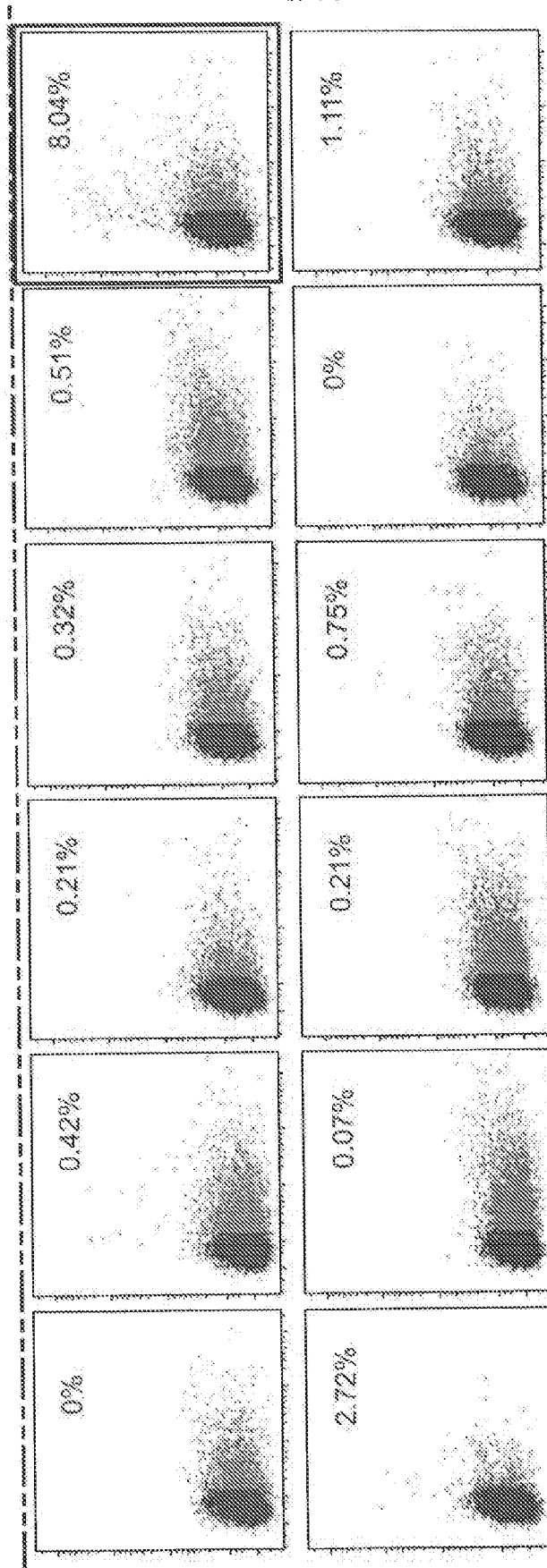
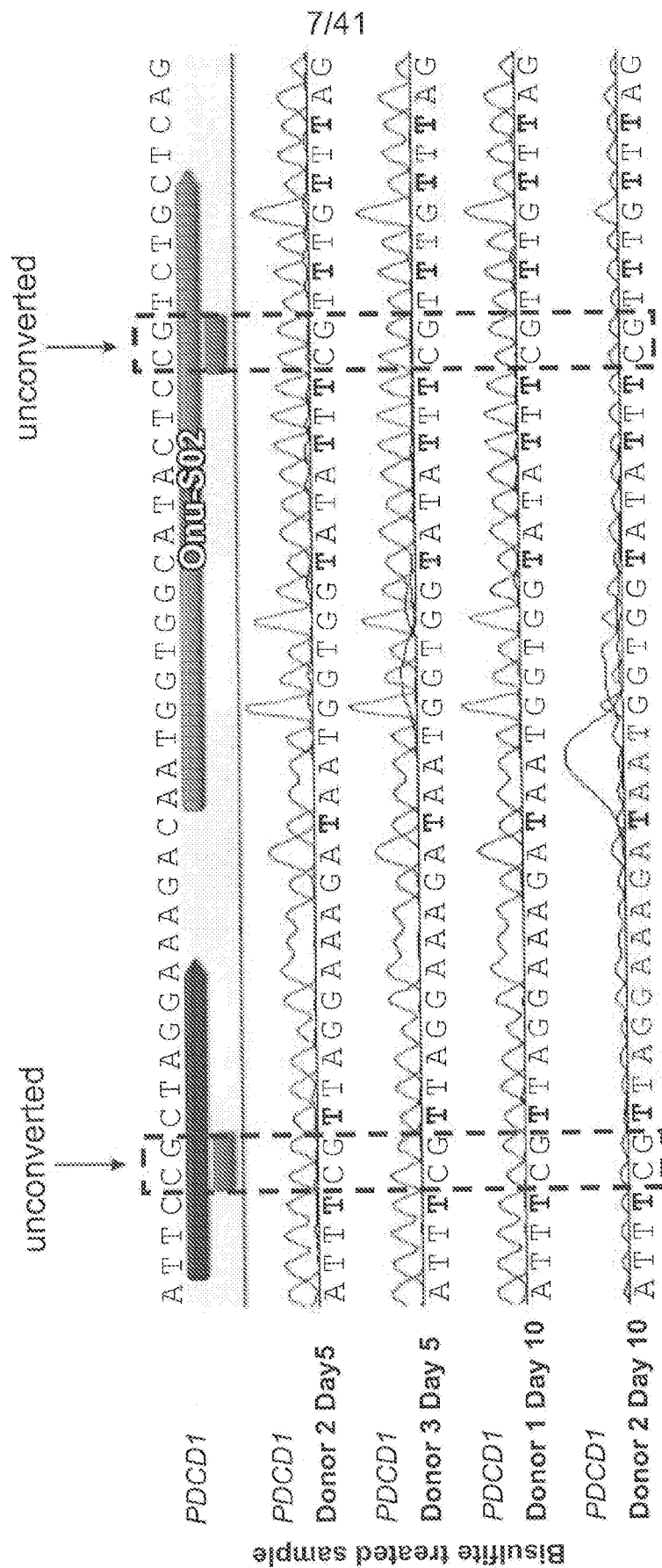
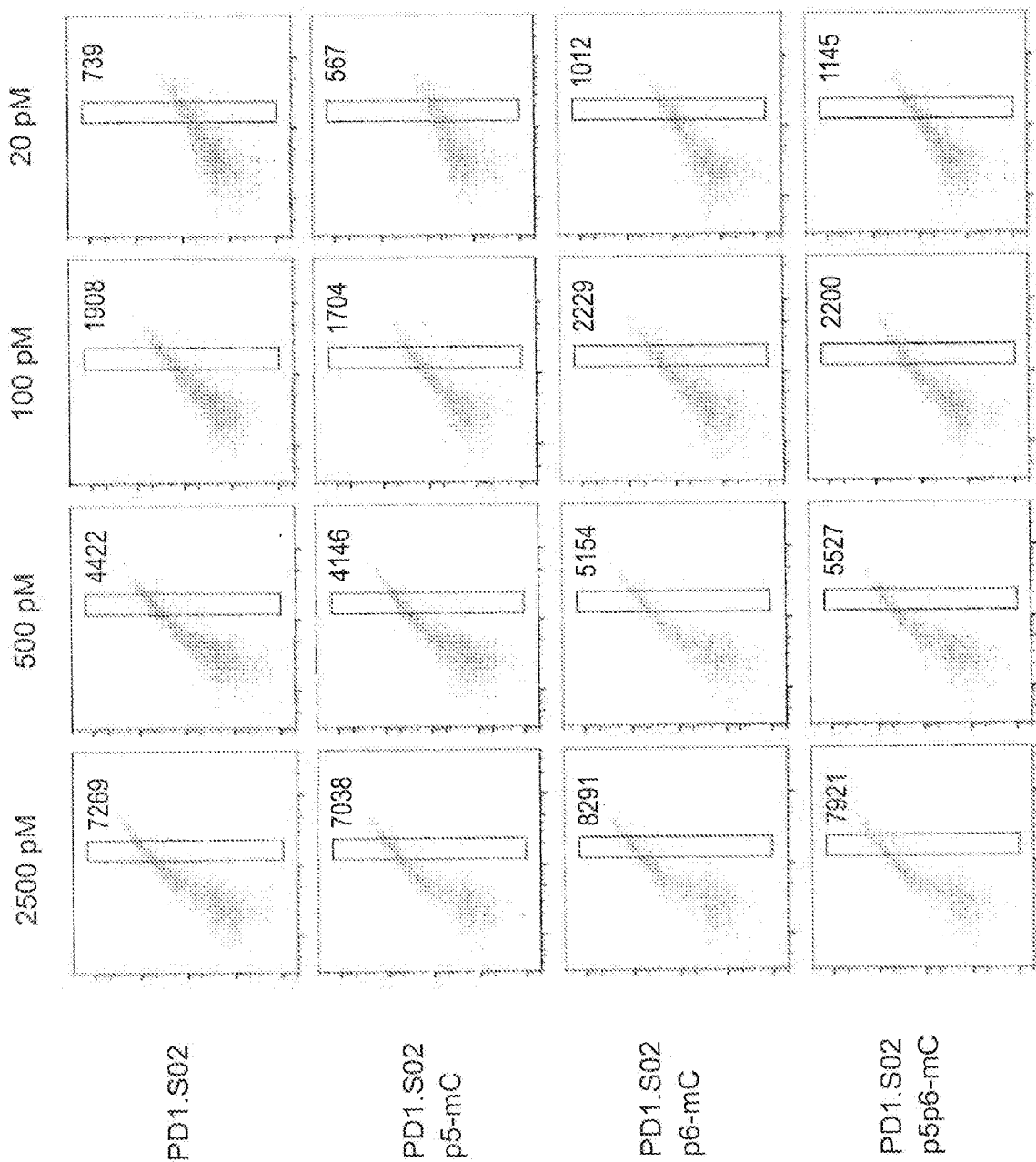


FIGURE 5





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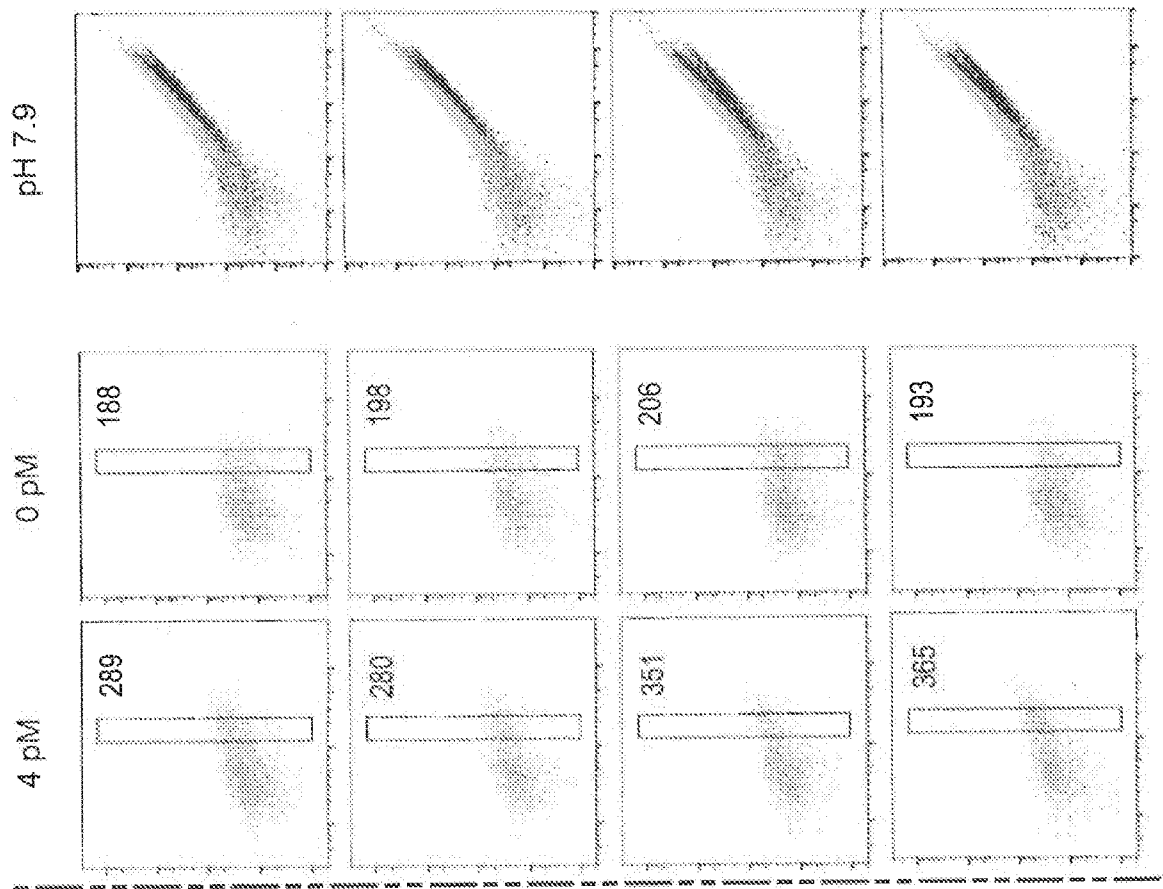


FIGURE 6 (cont.)

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FIGURE 7A

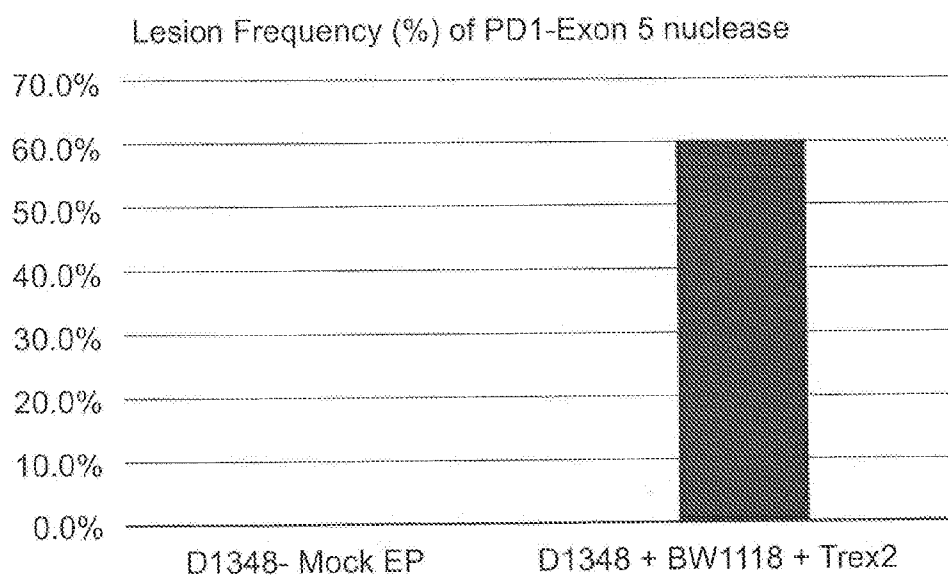
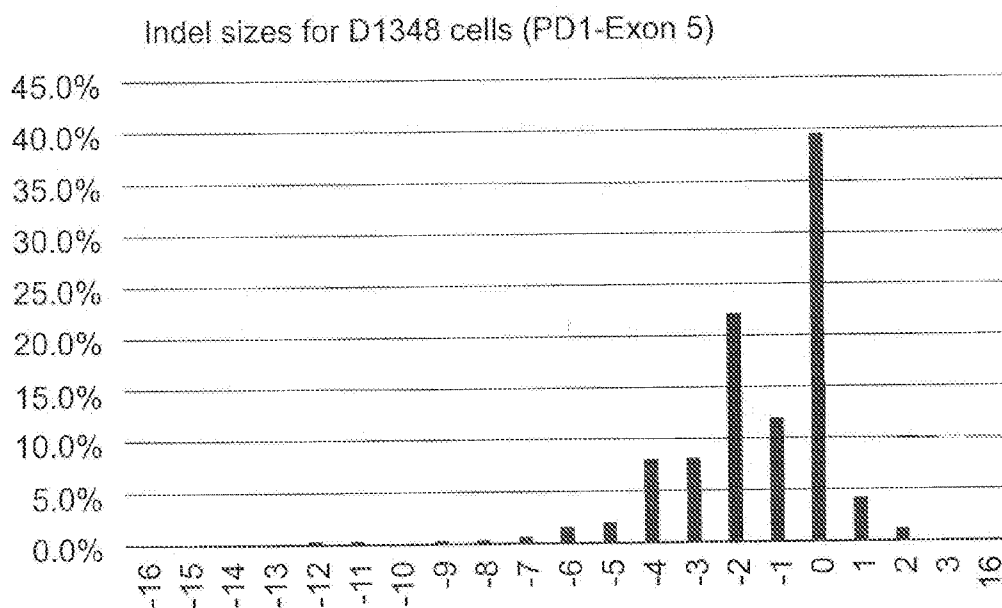
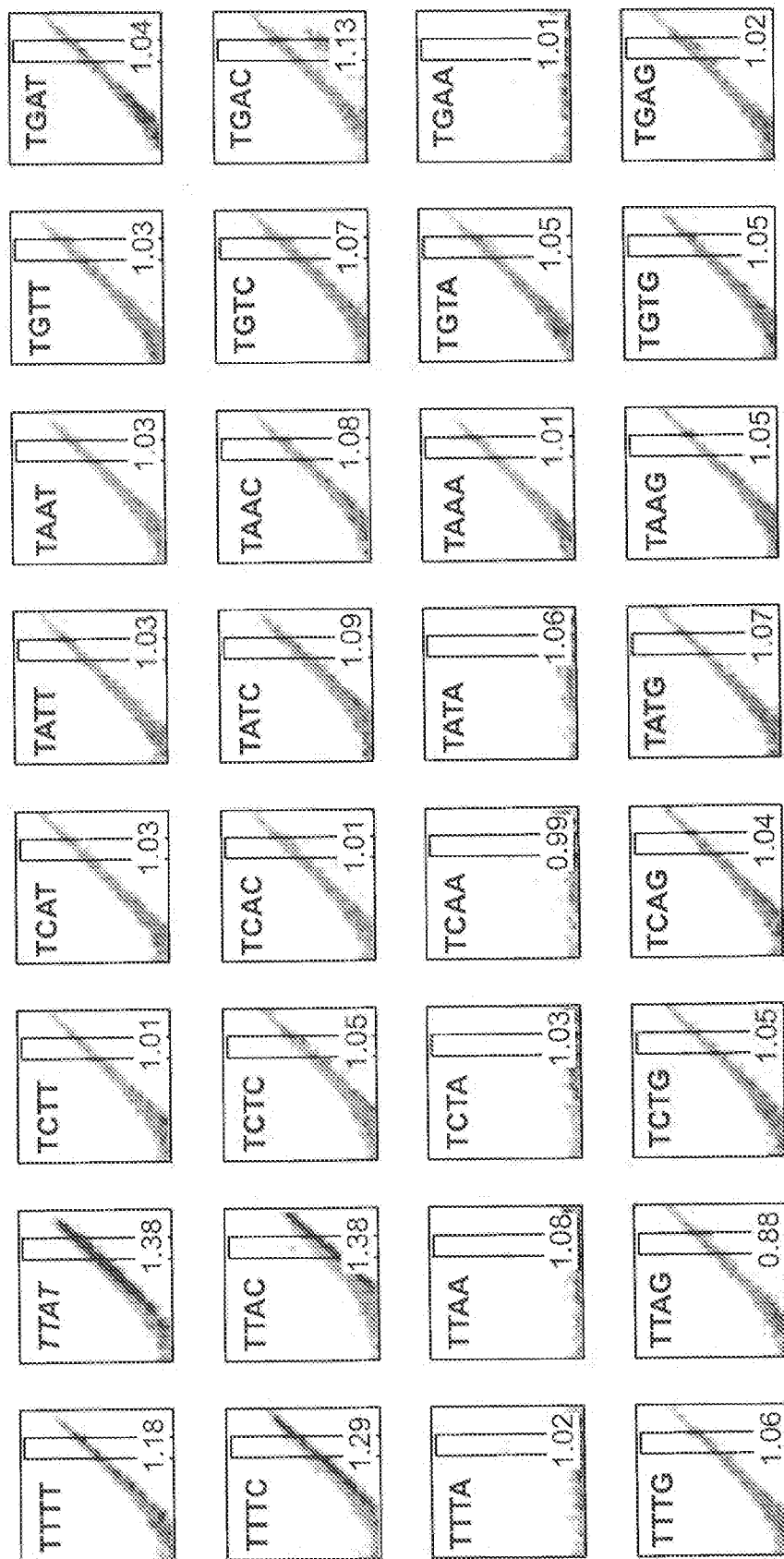


FIGURE 7B



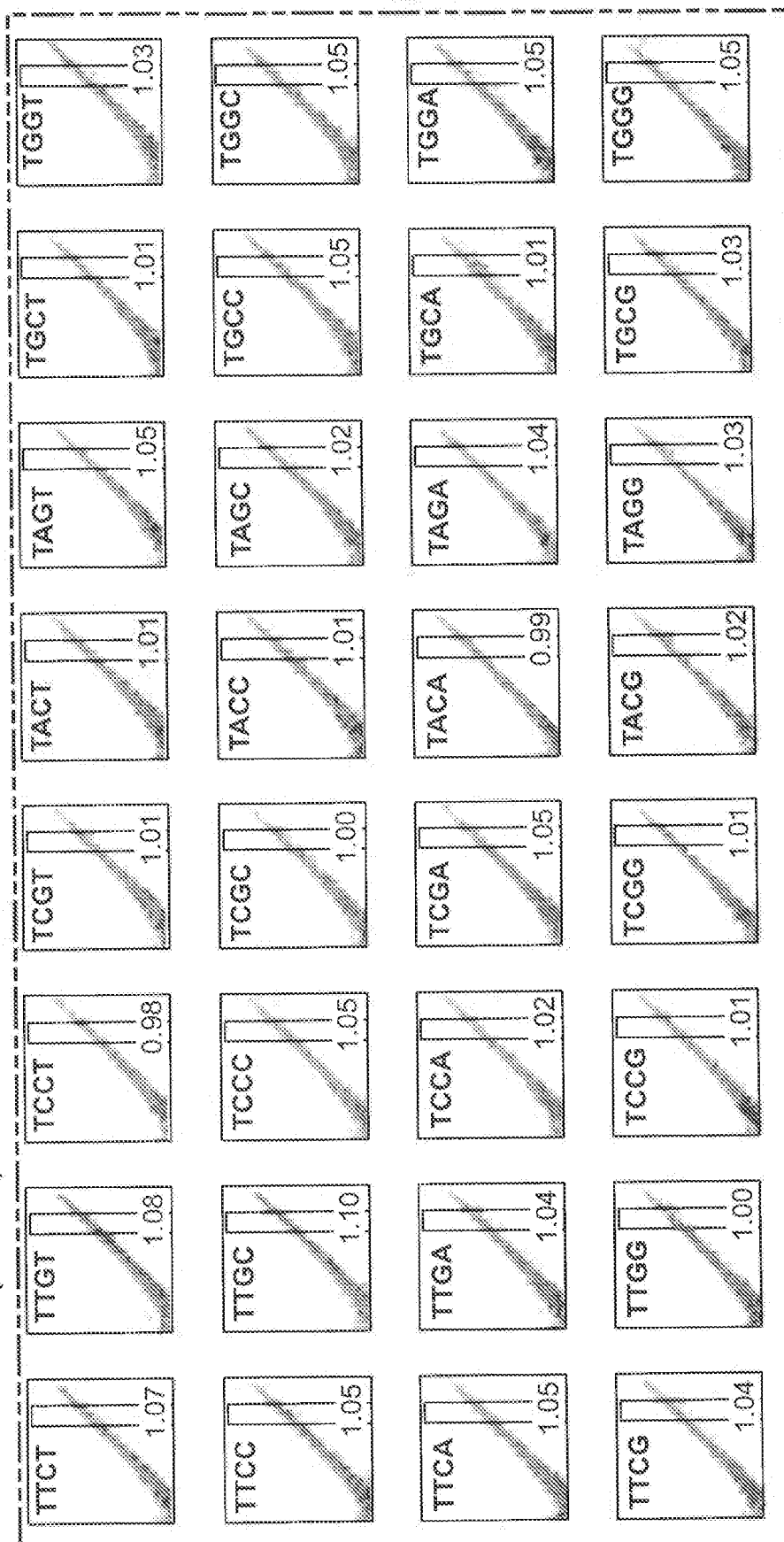
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FIGURE 8



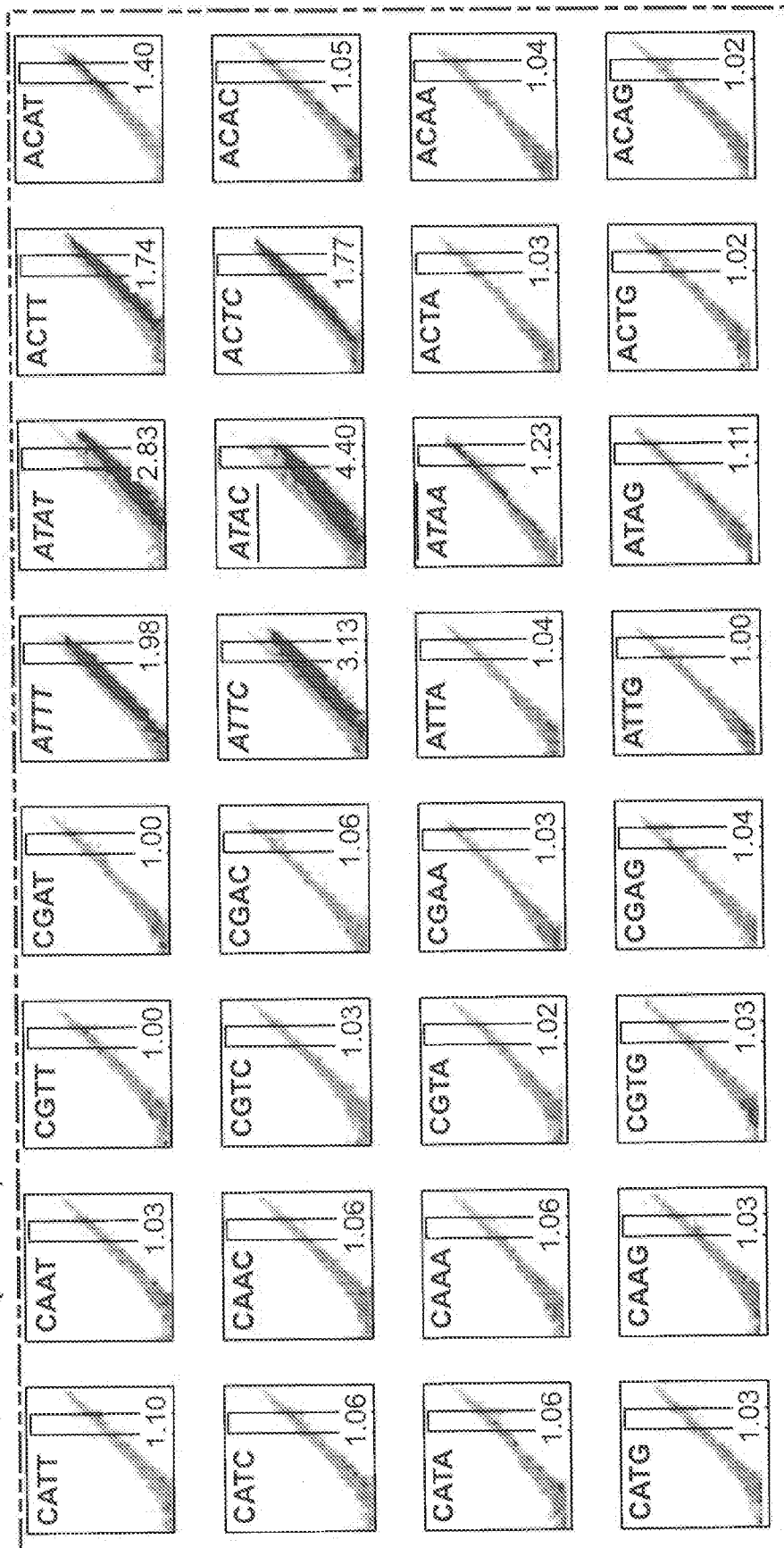
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FIGURE 8 (cont.)



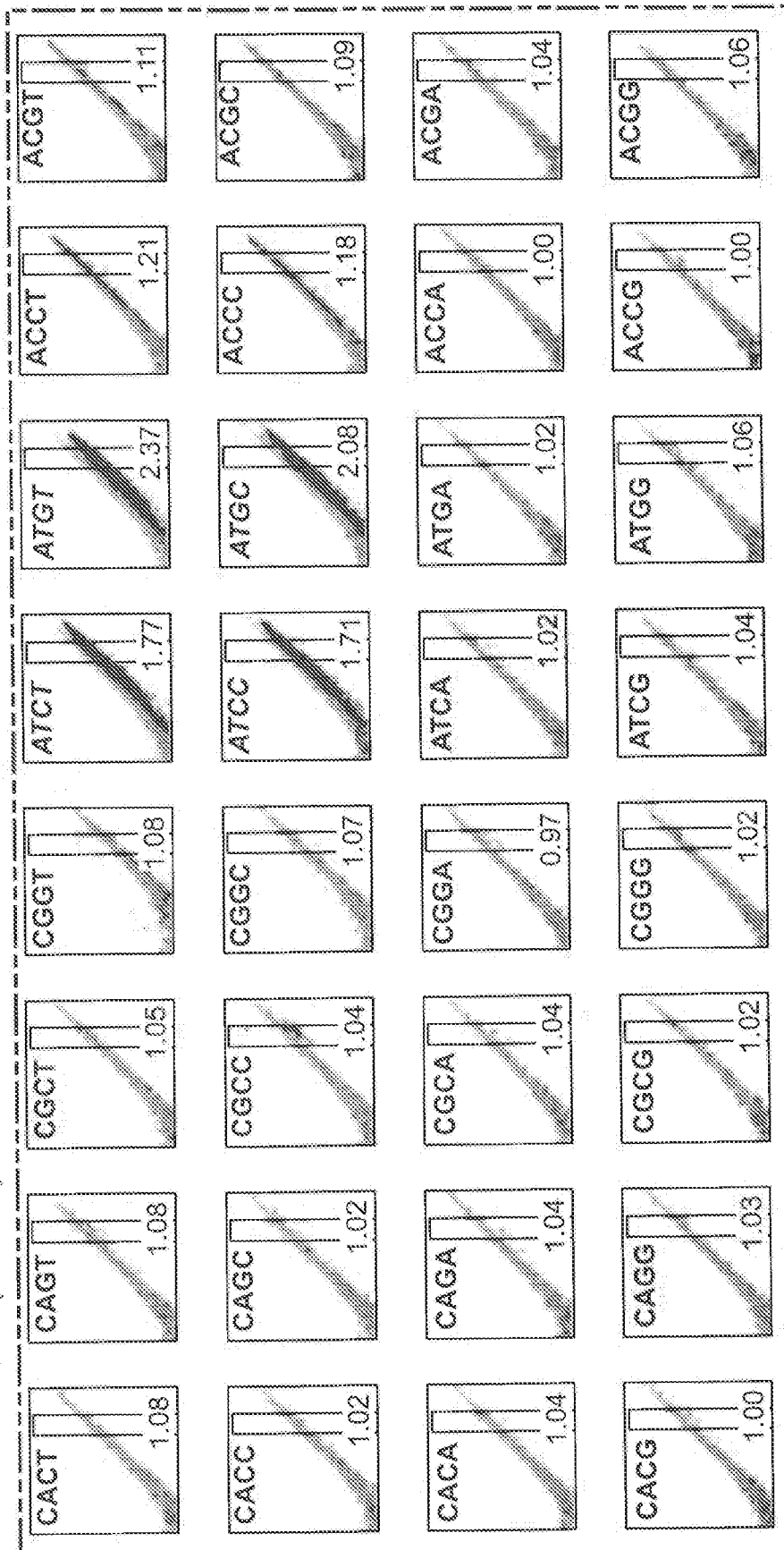
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FIGURE 8 (cont.)



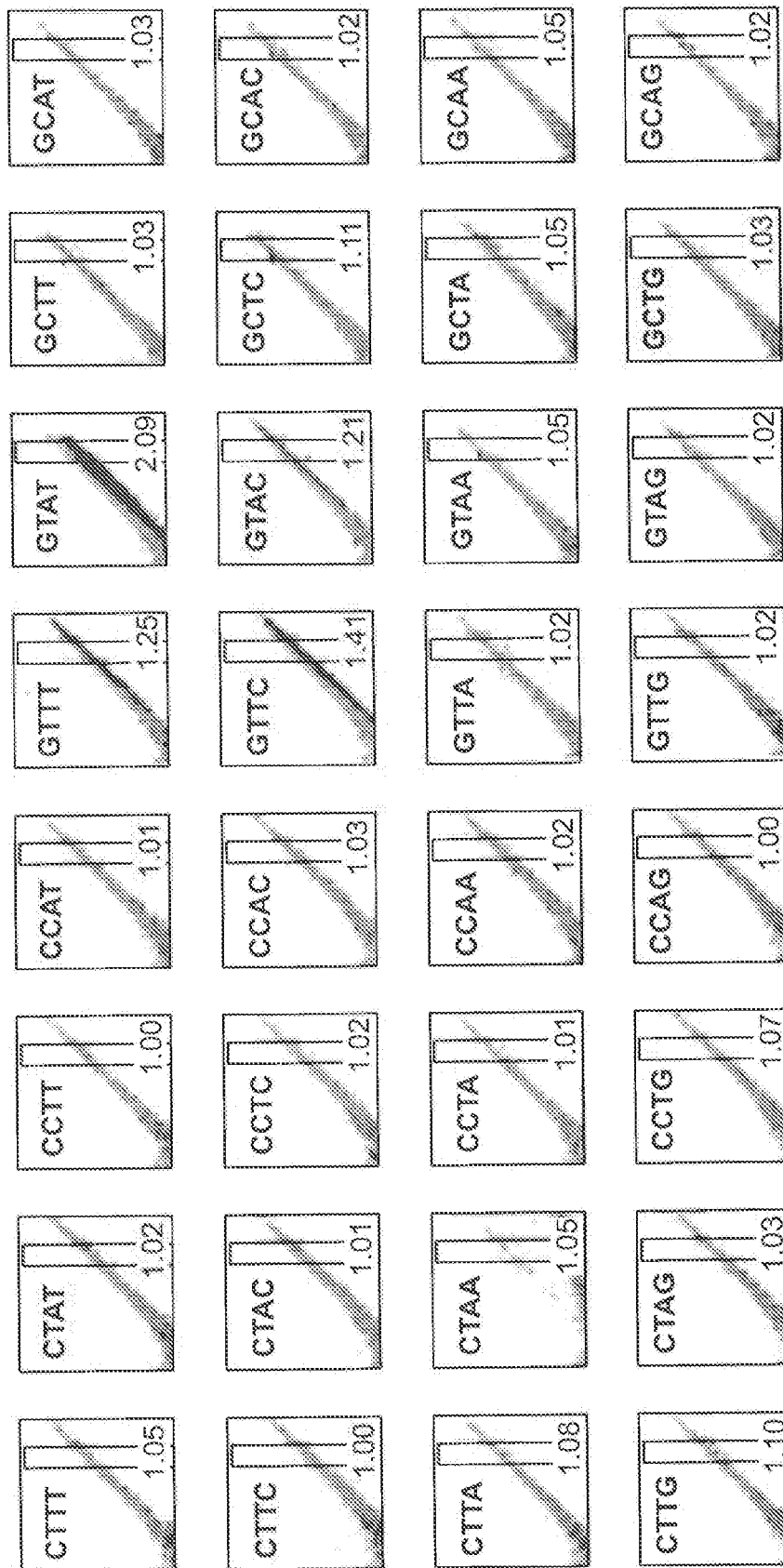
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FIGURE 8 (cont.)



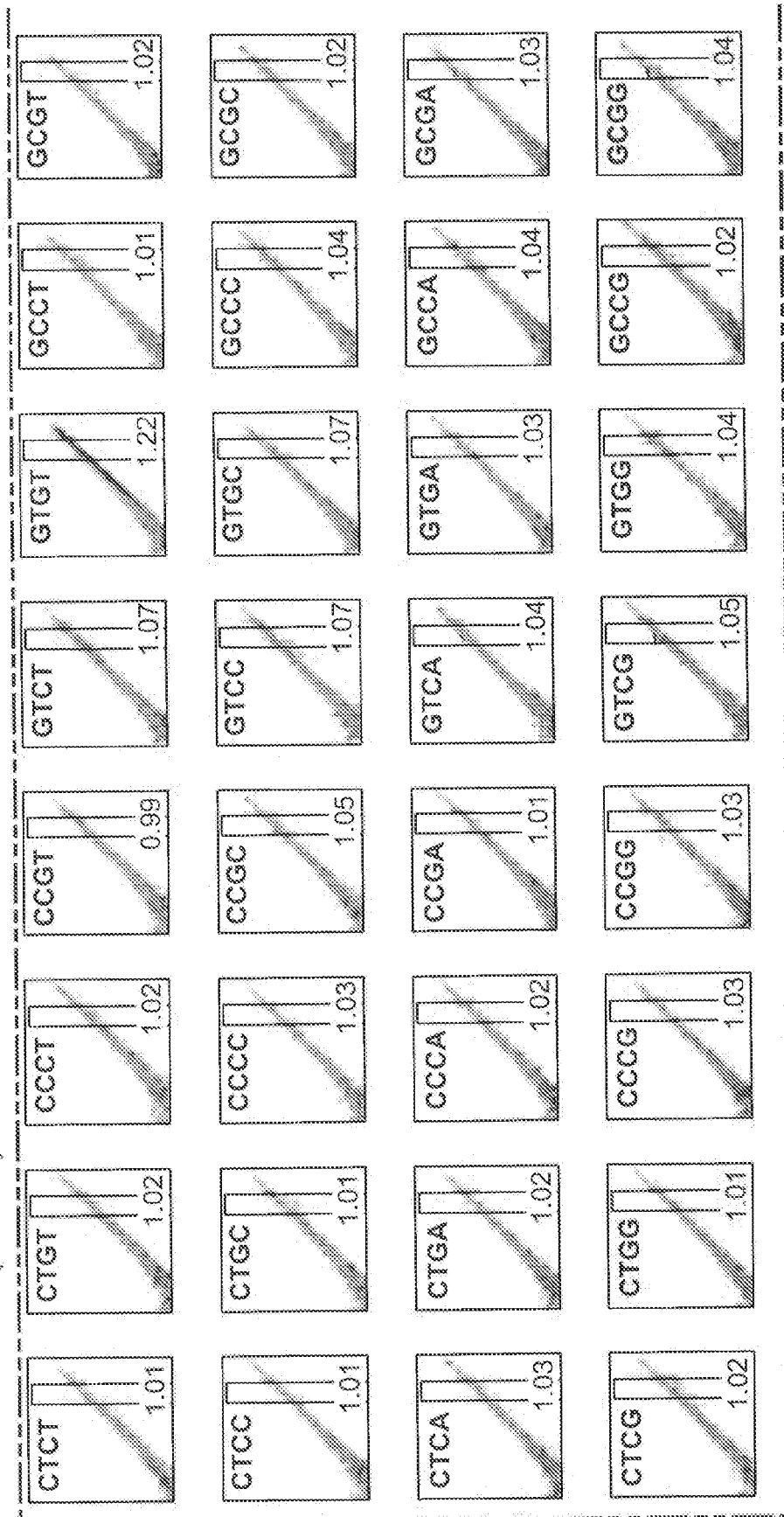
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FIGURE 8 (cont.)



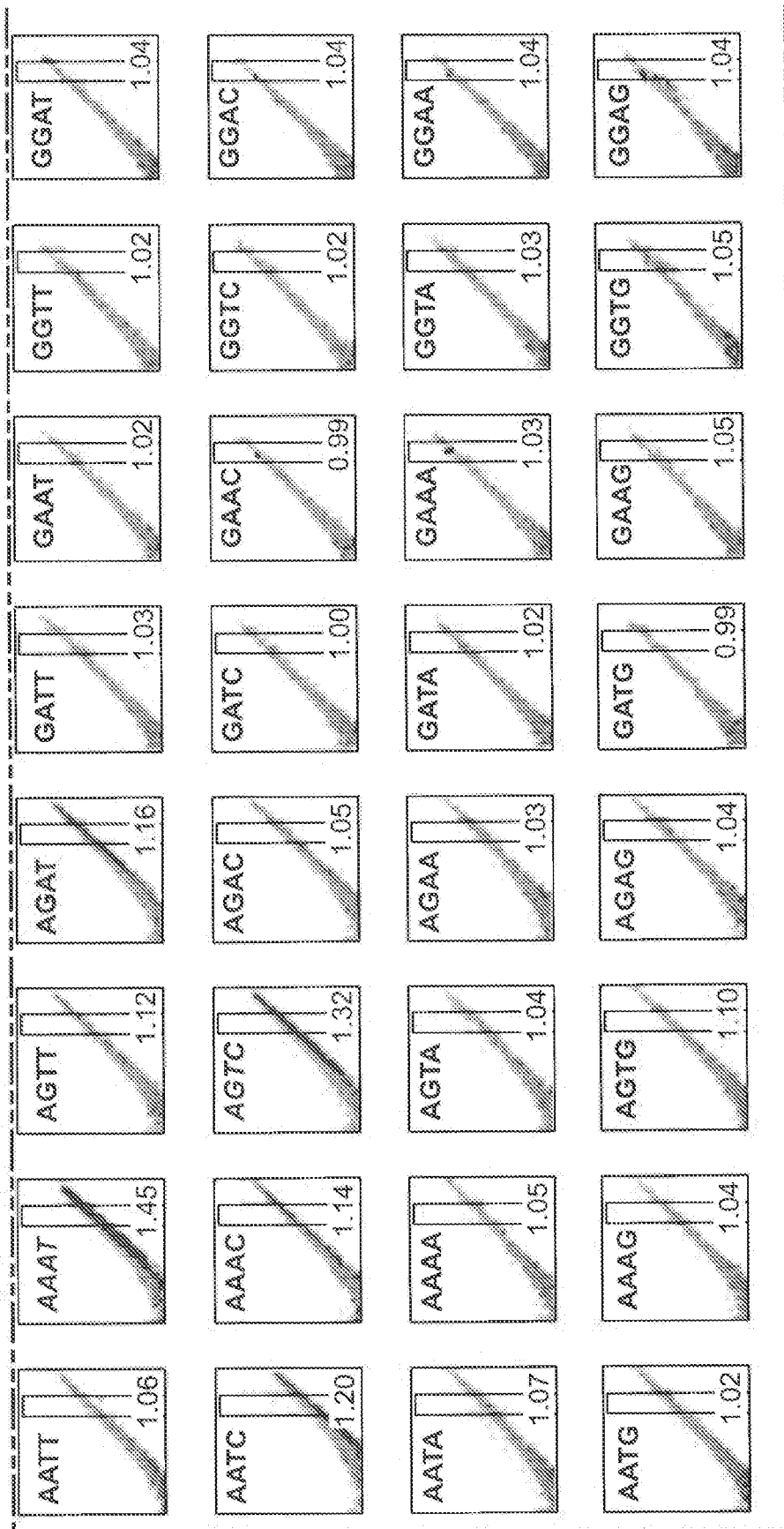
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FIGURE 8 (cont.)



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FIGURE 8 (cont.)



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FIGURE 8 (cont.)

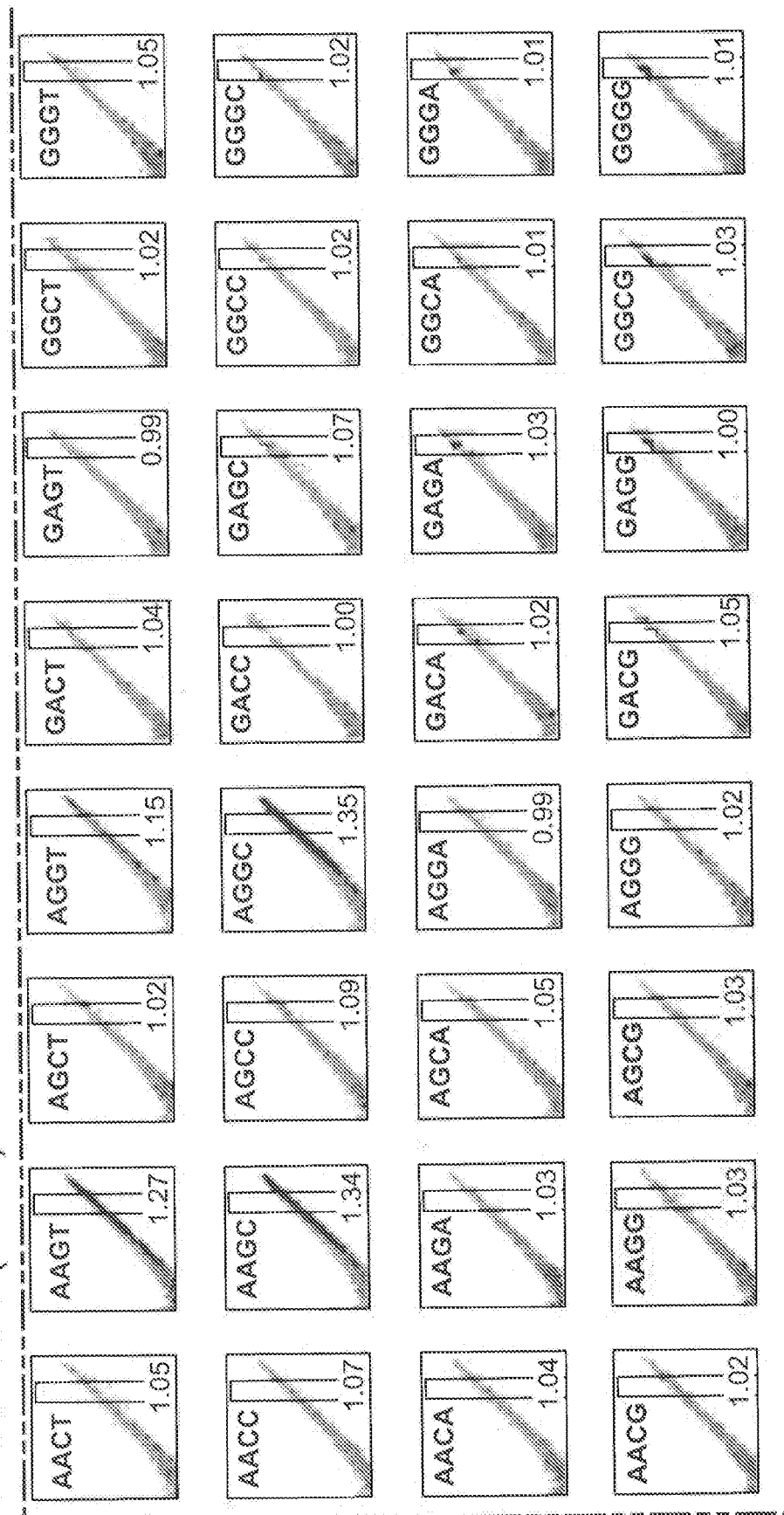


FIGURE 9A

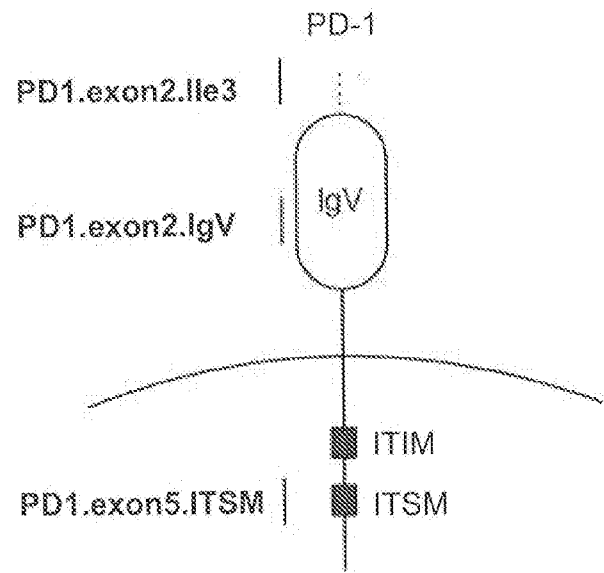


FIGURE 10

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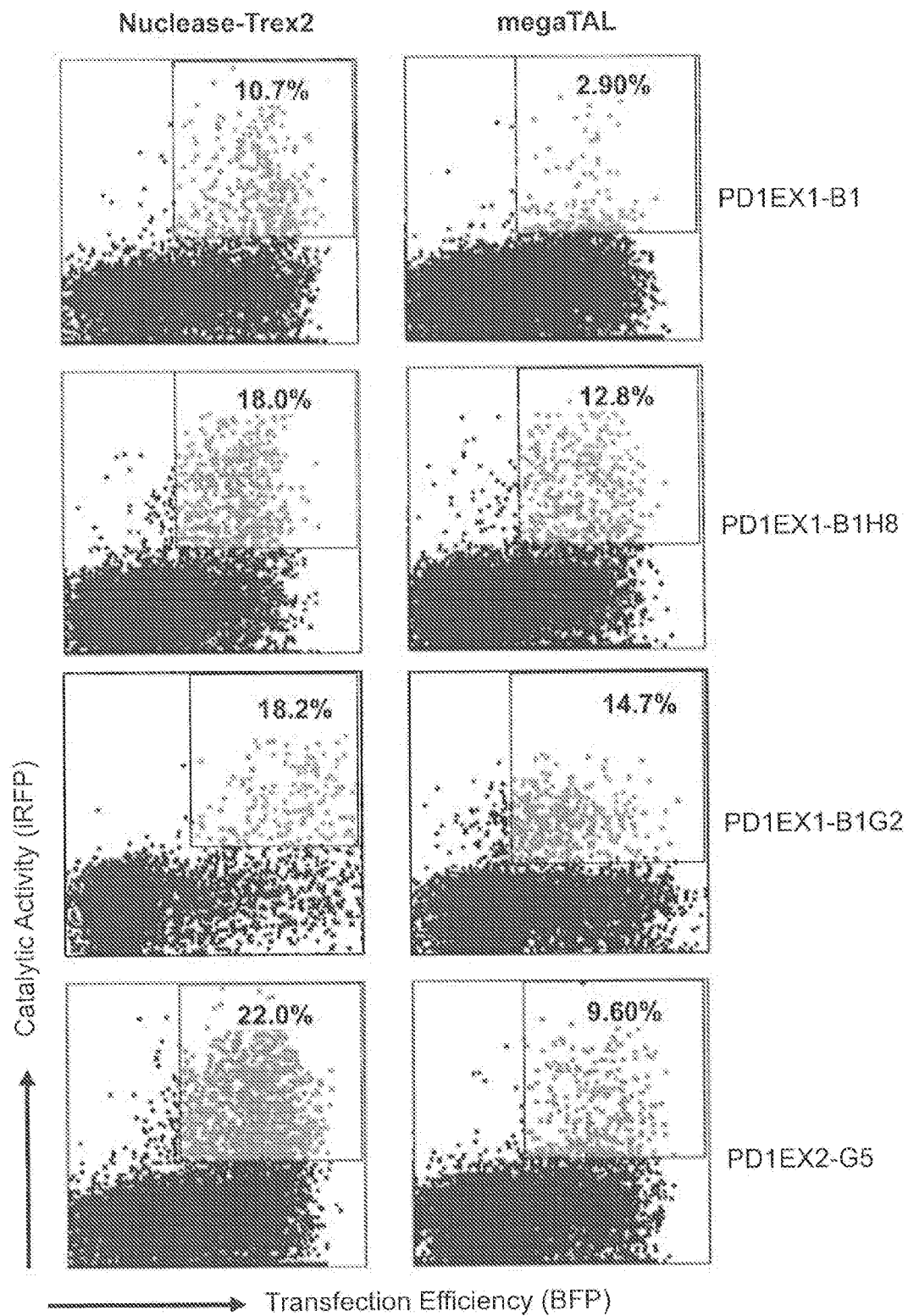


FIGURE 11A

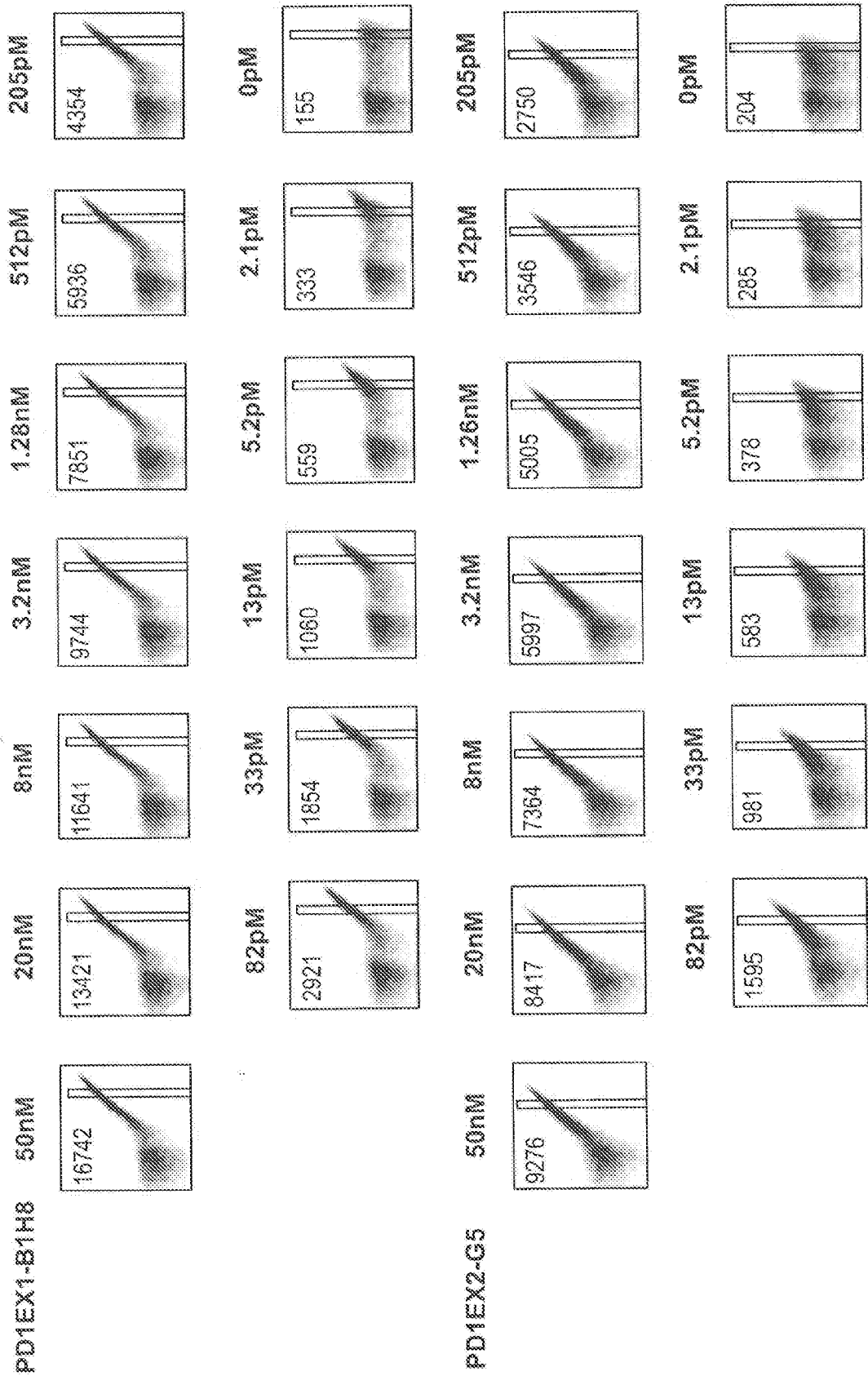
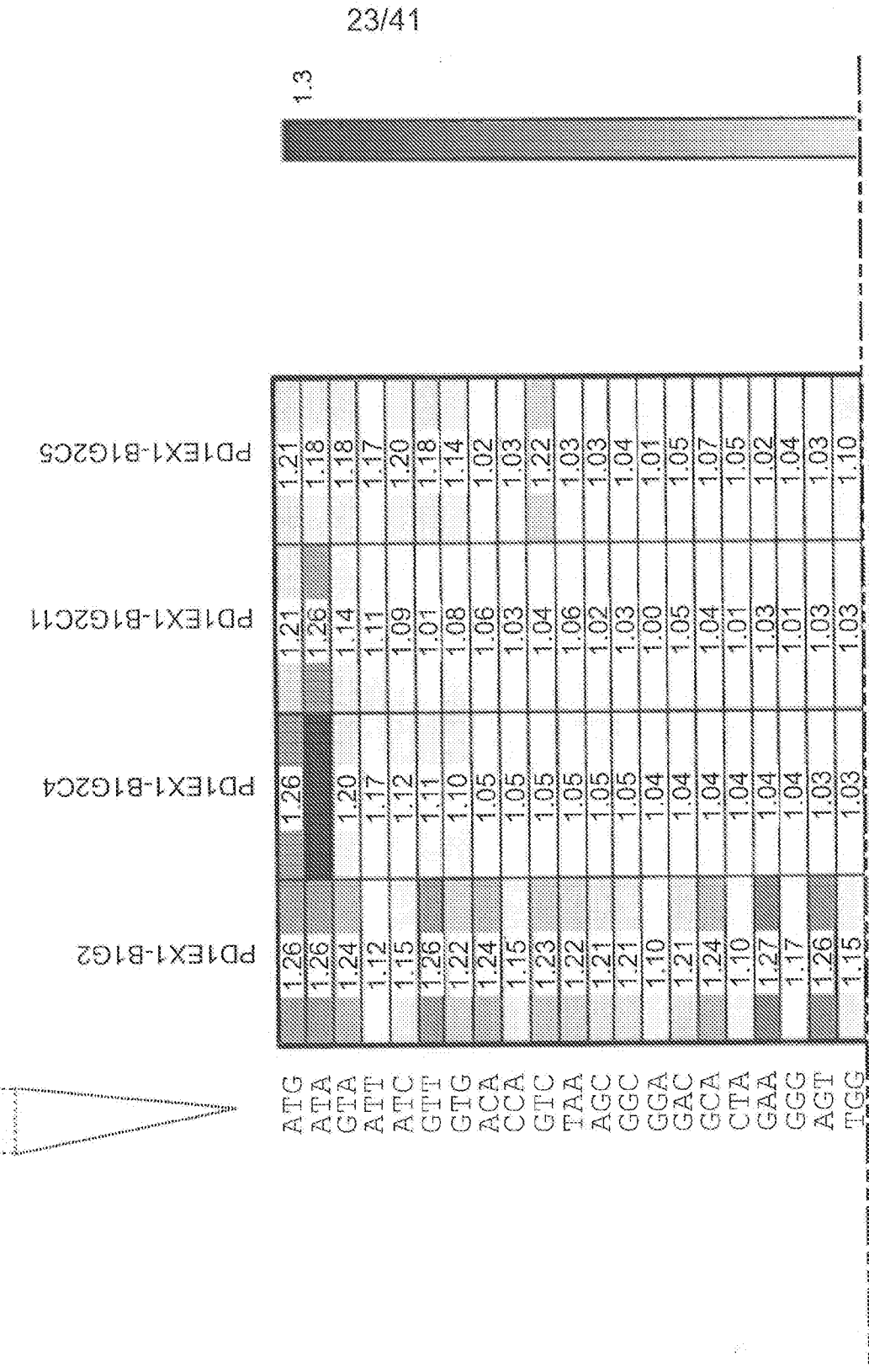


FIGURE 11B

PD1Ex1.ile3 GGCAATGCAGATCCACAGGCGC



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FIGURE 11B (cont.)

TTG	1.07	1.03	1.03	1.03	1.11	1.2
ACG	1.25	1.03	1.01	1.01	1.01	
TCA	1.24	1.03	1.07	1.06	1.06	
TTC	1.06	1.03	1.00	1.05	1.05	
CGC	1.13	1.03	1.03	1.01	1.01	
GAT	1.25	1.03	1.03	1.05	1.05	
TCG	1.22	1.03	0.99	1.07	1.07	
CGA	1.19	1.03	1.00	1.00	1.00	
CTG	1.05	1.03	1.02	1.04	1.04	
CGG	1.15	1.02	1.04	1.03	1.03	
GGT	1.21	1.02	1.03	1.04	1.04	
AGA	1.21	1.02	1.04	1.02	1.02	
GAG	1.25	1.02	1.00	1.00	1.00	
CGT	1.12	1.02	1.01	1.04	1.04	
AAG	1.25	1.02	1.04	1.04	1.04	
TAC	1.23	1.02	1.03	1.06	1.06	
CCG	1.07	1.02	1.03	1.01	1.01	
TTT	1.02	1.02	1.01	1.03	1.03	
AGG	1.28	1.02	1.02	1.02	1.02	
TAT	1.21	1.02	1.02	1.01	1.01	
GCC	1.05	1.02	1.03	1.03	1.03	
TTA	1.10	1.02	1.03	1.05	1.05	
CAC	1.10	1.02	1.01	1.04	1.04	
CTC	1.04	1.02	1.04	1.05	1.05	
TCT	1.19	1.02	1.05	1.06	1.06	
TCC	1.19	1.01	1.04	1.14	1.14	
GCG	1.23	1.01	1.00	1.04	1.04	
CAG	1.13	1.01	1.02	1.03	1.03	
CCT	1.03	1.01	1.02	1.01	1.01	
CTT	1.02	1.01	1.01	1.03	1.03	
						1.1

FIGURE 11B (cont.)

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AAC	1.24	1.01	1.02	1.04
TAG	1.24	1.01	1.03	1.00
CCC	1.03	1.01	1.04	1.05
CAA	1.16	1.01	1.01	1.03
GCT	1.22	1.01	1.02	1.03
TGT	1.21	1.01	1.03	1.01
CAT	1.12	1.01	1.04	1.04
ACT	1.16	1.00	1.02	1.01
AAT	1.23	1.00	1.03	1.02
TGC	1.18	1.00	0.97	1.00
ACC	1.17	1.00	1.01	1.04
TGA	1.21	0.99	1.02	0.99
AAA	1.22	0.99	1.02	1.03

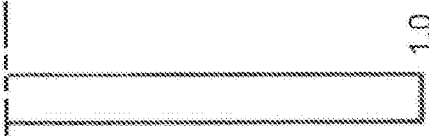


FIGURE 12

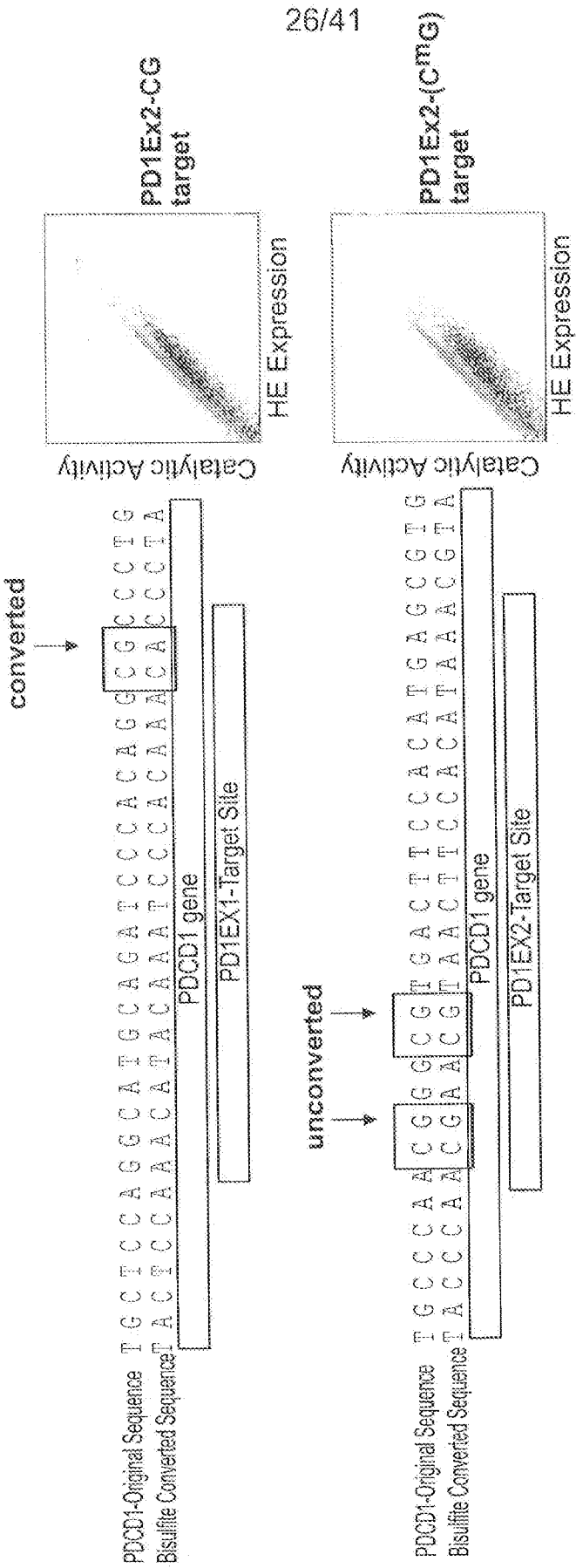


FIGURE 13A

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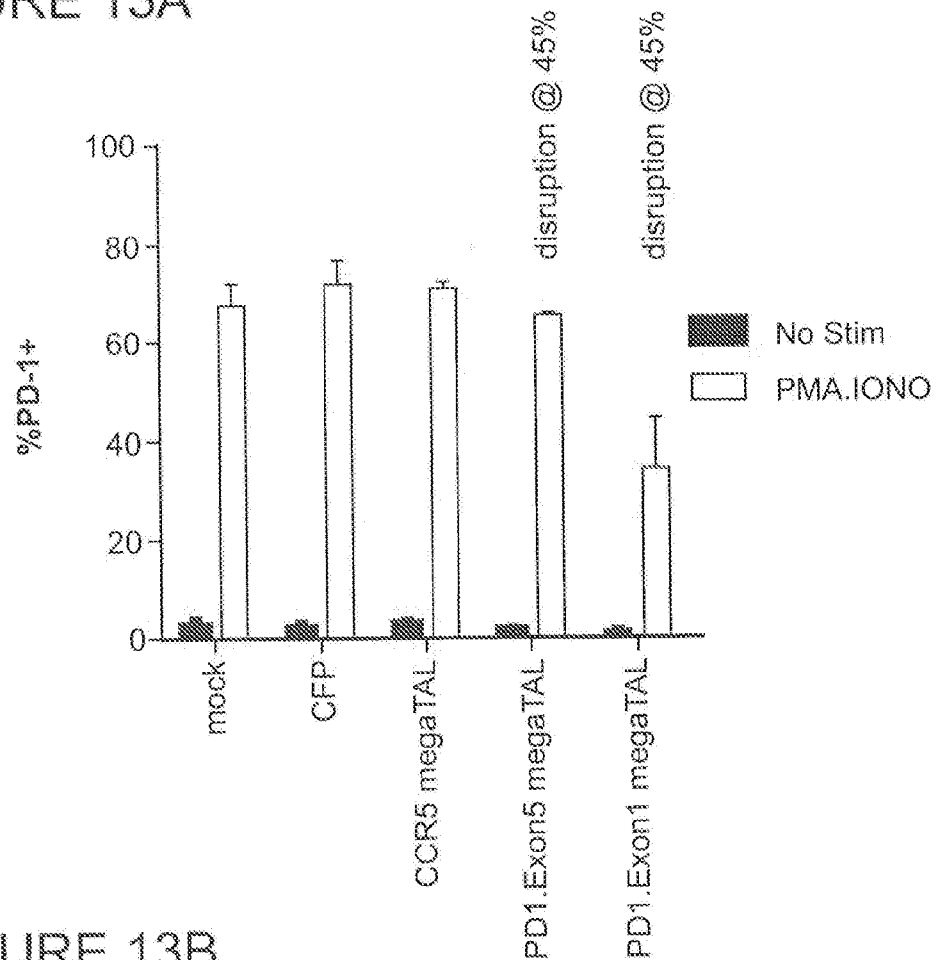


FIGURE 13B

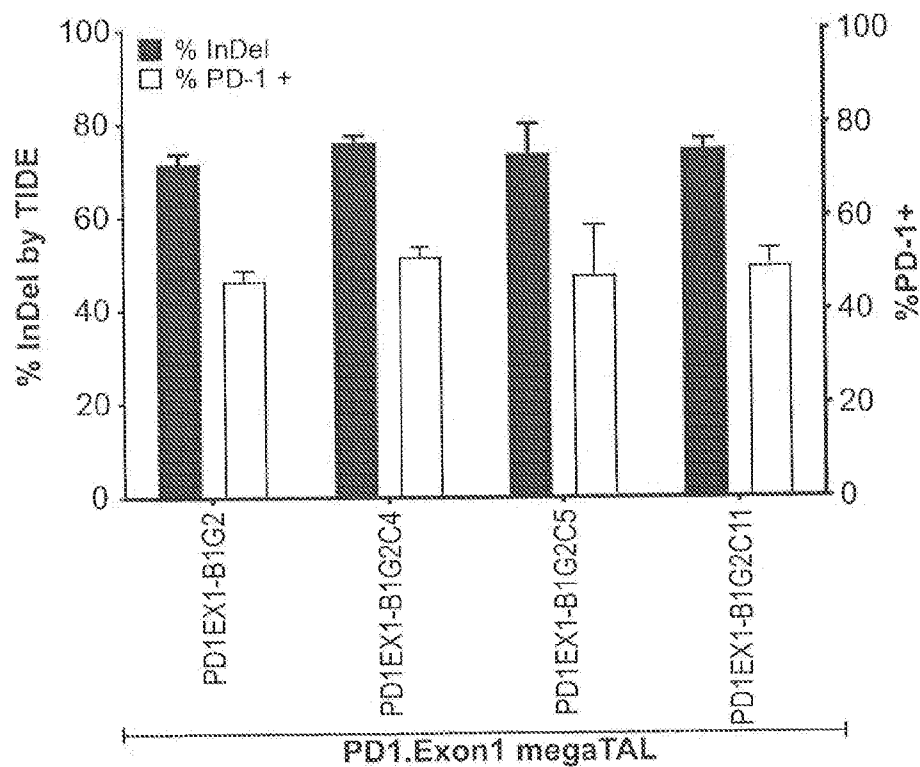


FIGURE 14

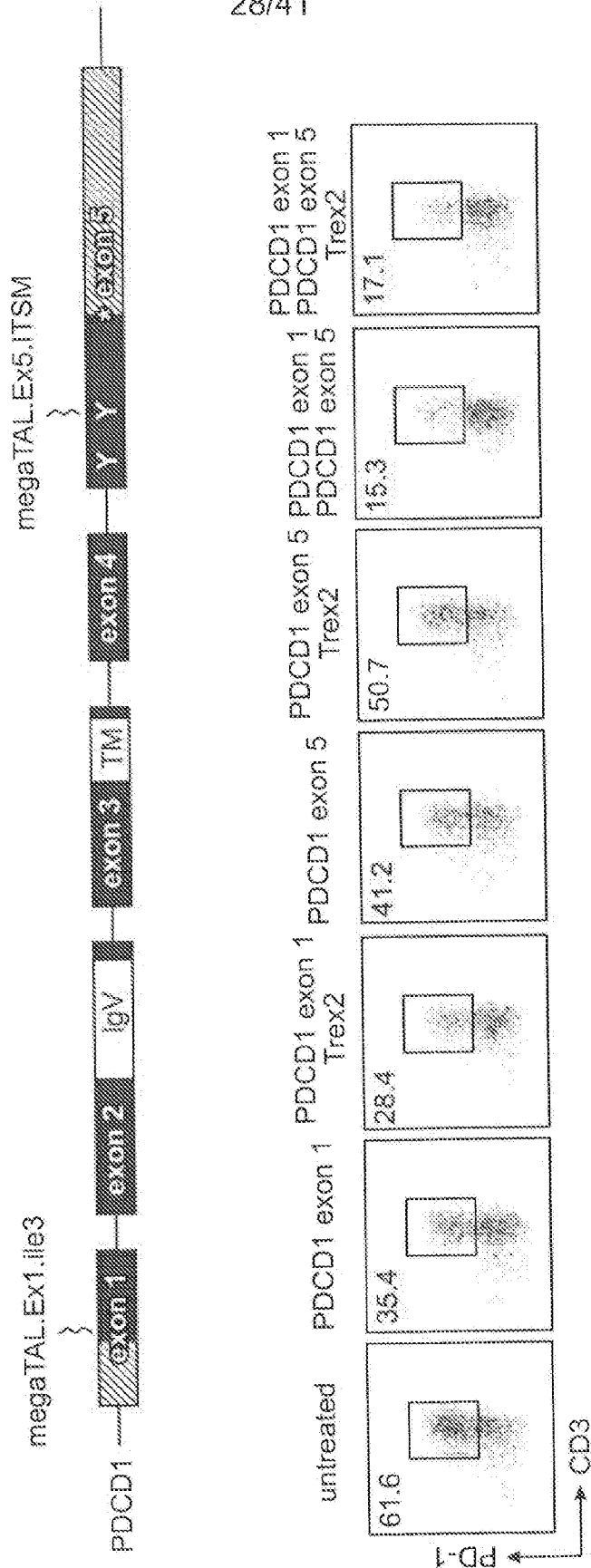
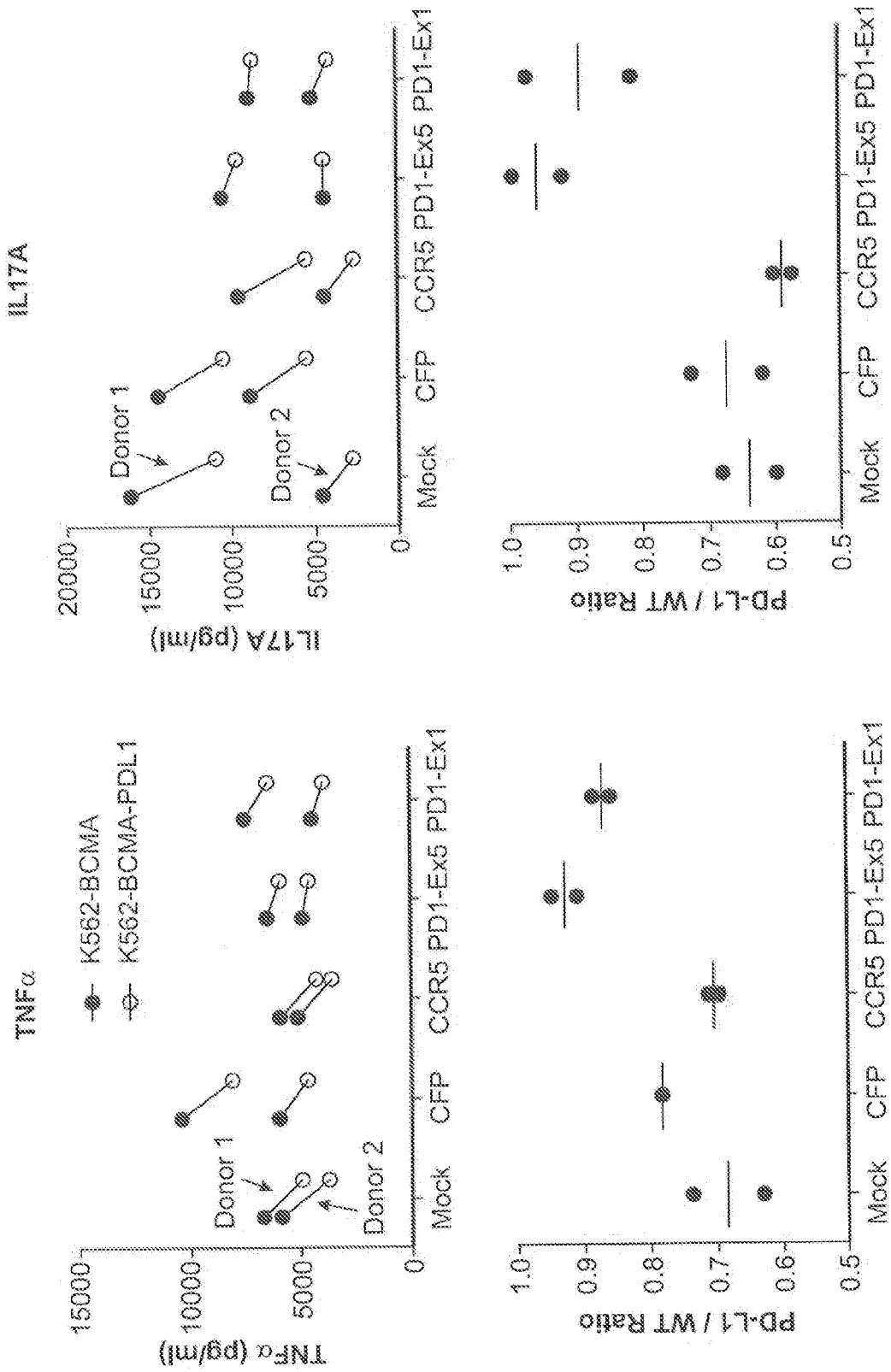


FIGURE 15A



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FIGURE 15B

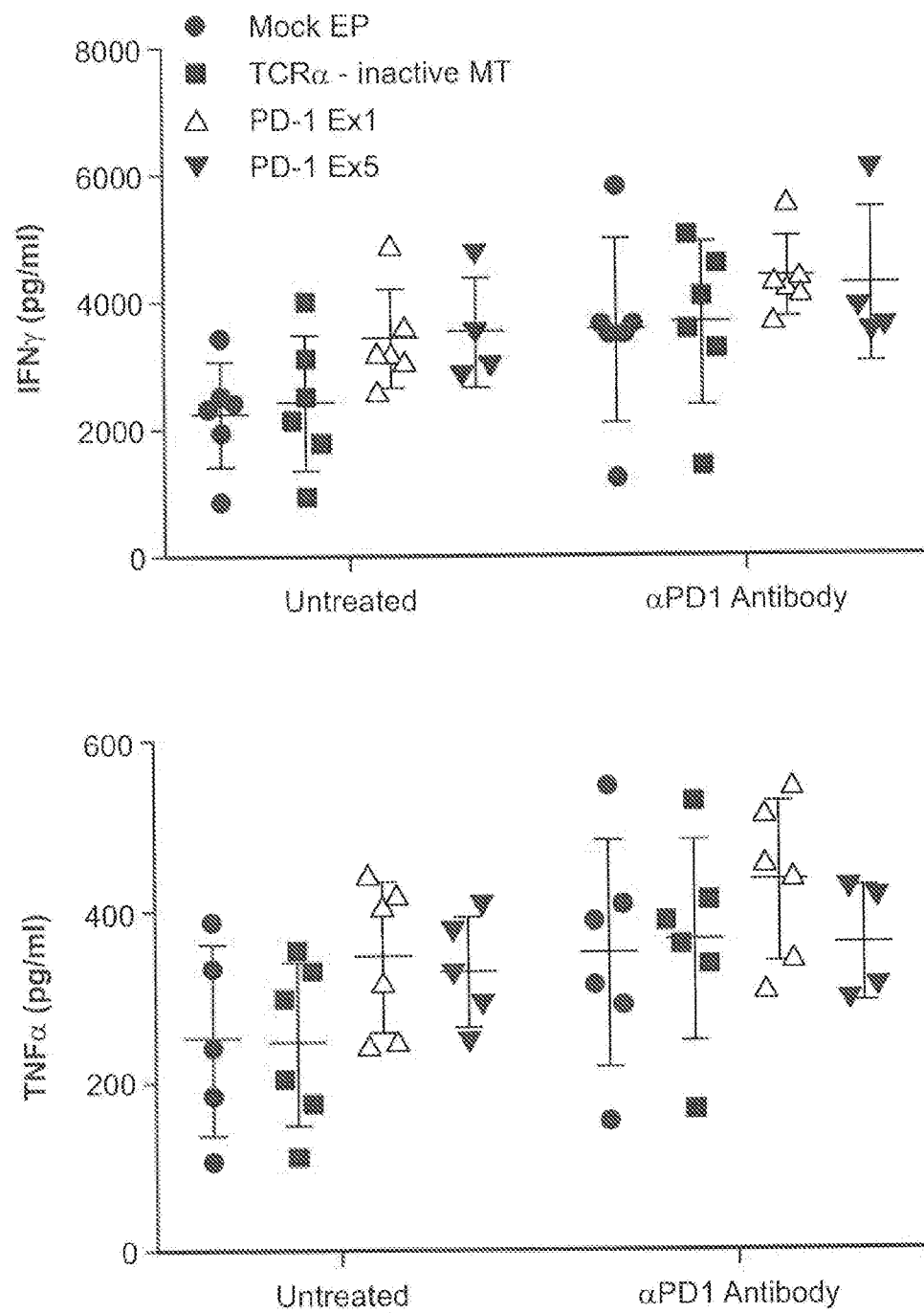
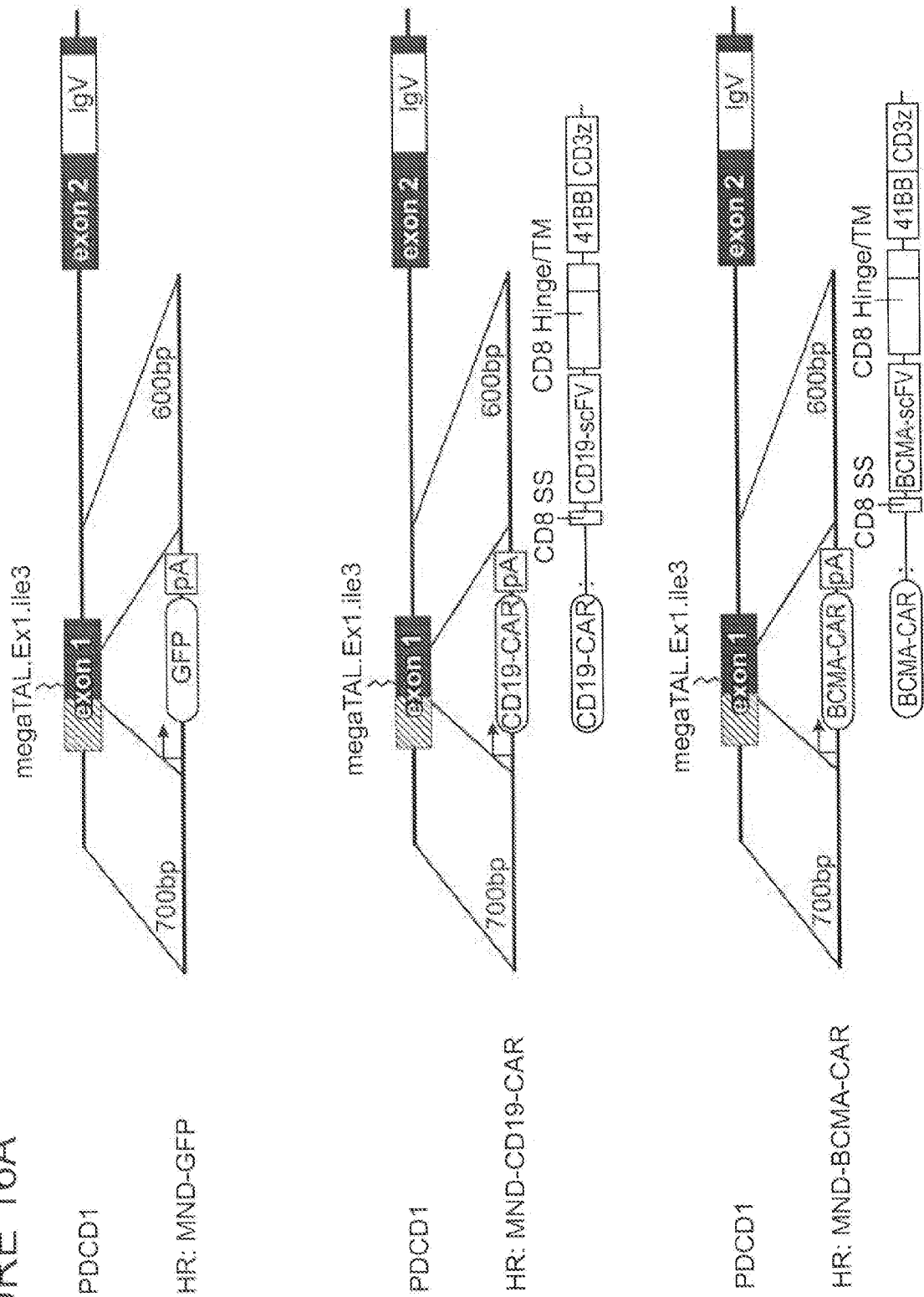
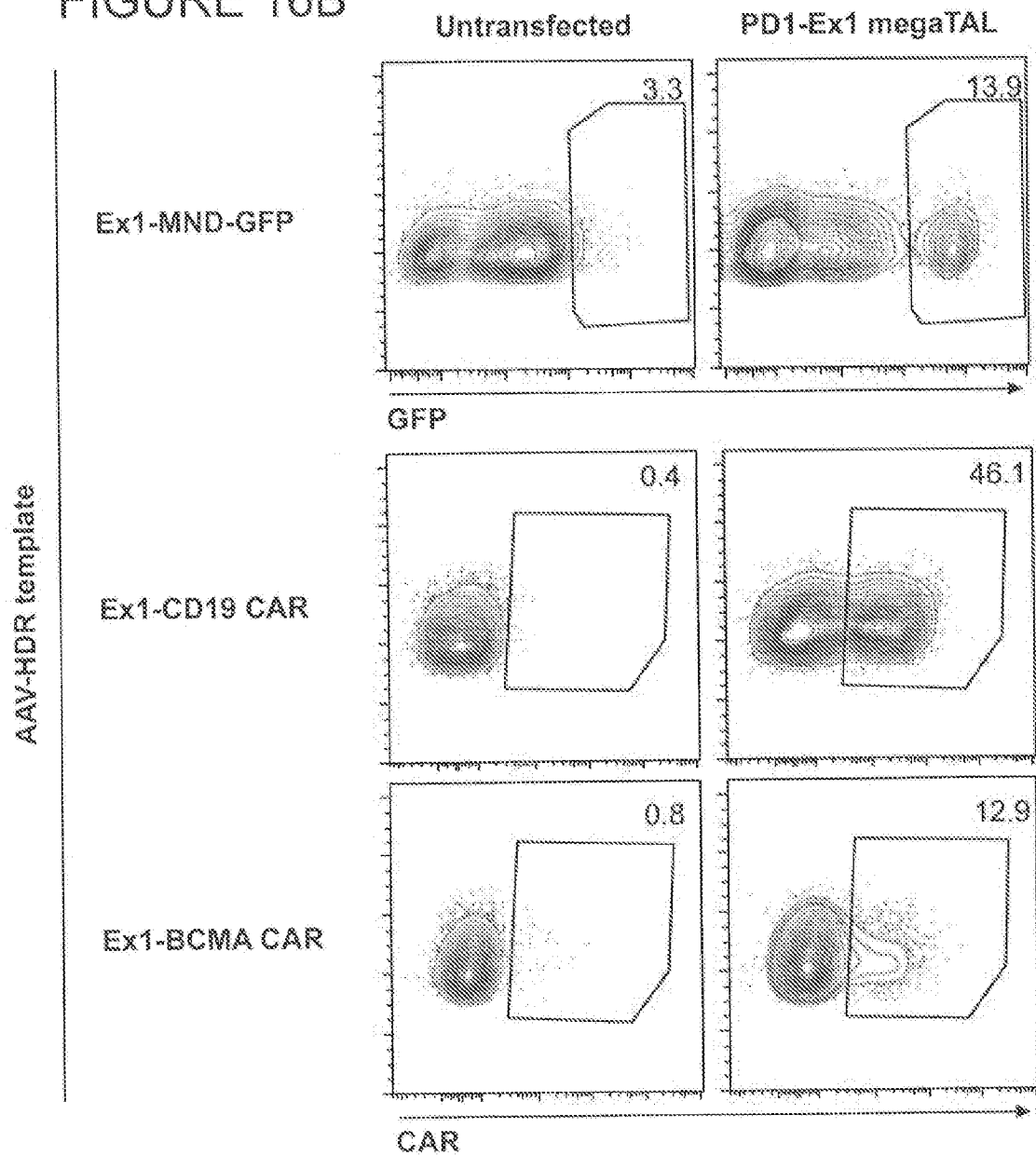


FIGURE 16A



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FIGURE 16B



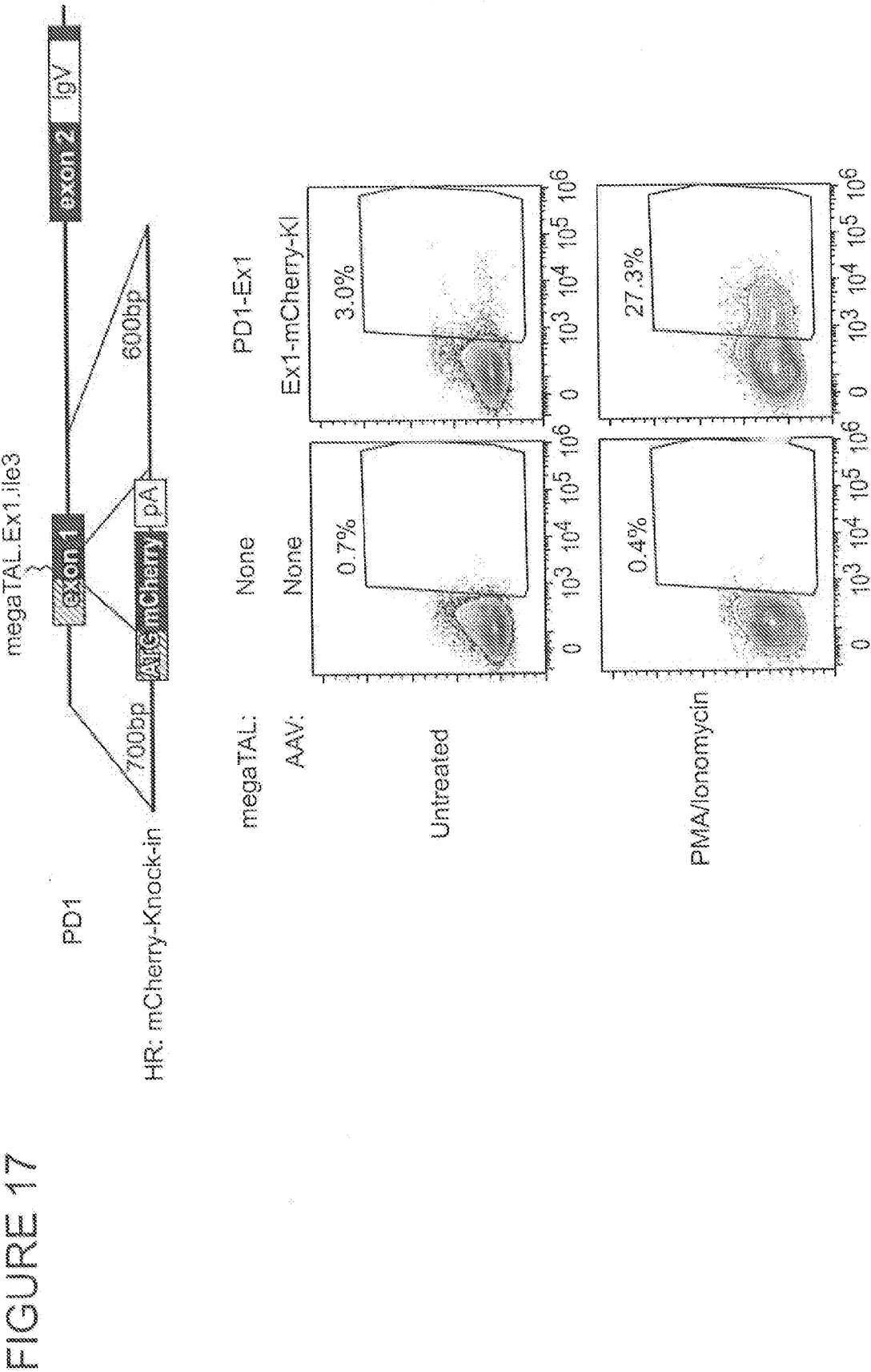
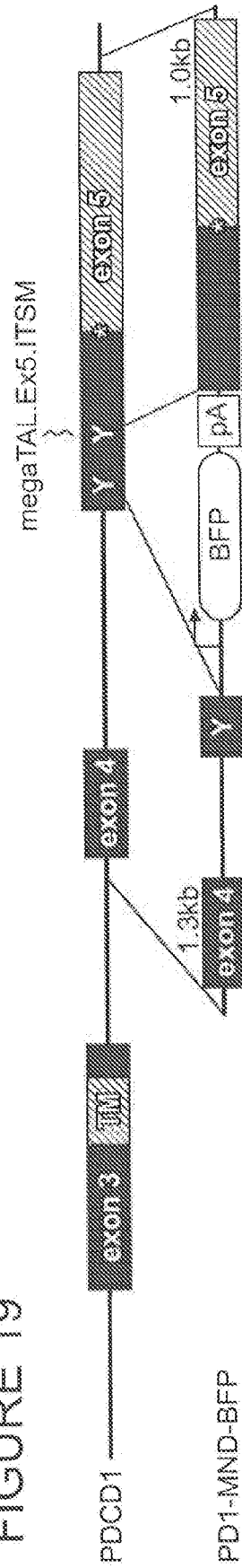
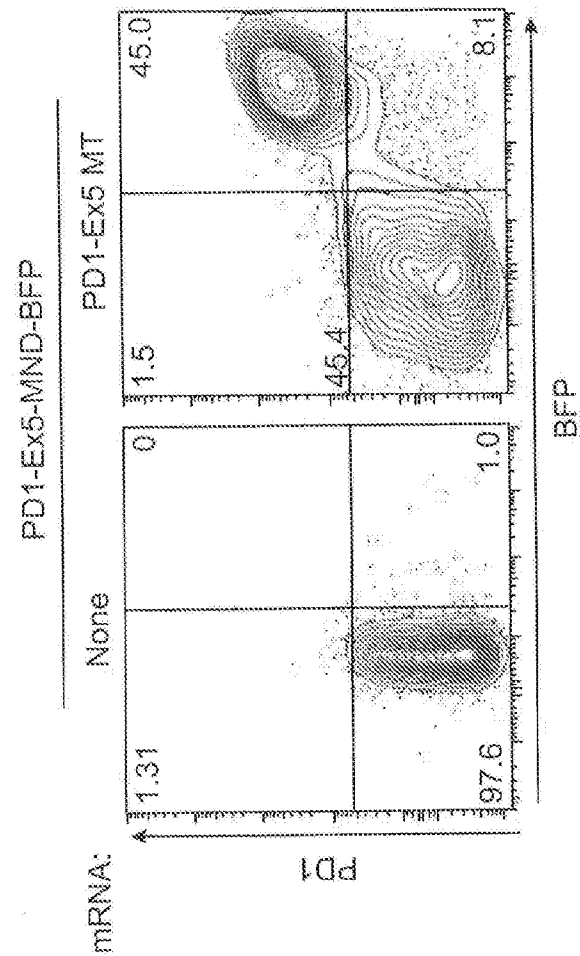
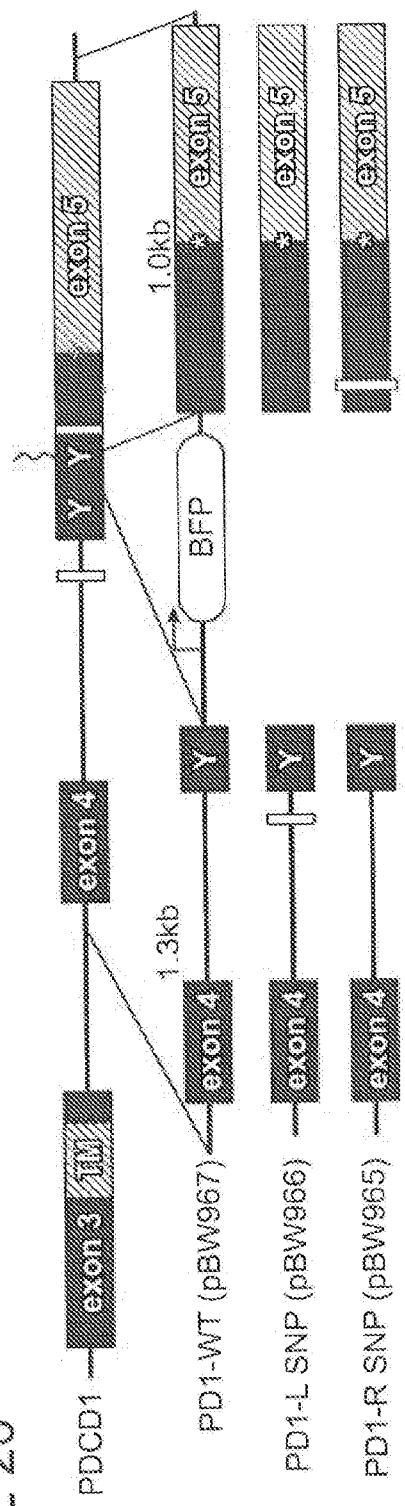


FIGURE 19



□ PDCD1-associated SNPs

FIGURE 20



	AAV		megaTAL
	PD1 - R SNP	PD1 - L SNP	
PD1 - WT	PD1 - R SNP	PD1 - L SNP	PD1-Ex5
PD1 - R SNP	PD1 - R SNP	PD1 - L SNP	PD1-Ex5
PD1 - L SNP	PD1 - R SNP	PD1 - L SNP	PD1-Ex5
PD1 - WT	PD1 - R SNP	PD1 - L SNP	PD1-Ex5

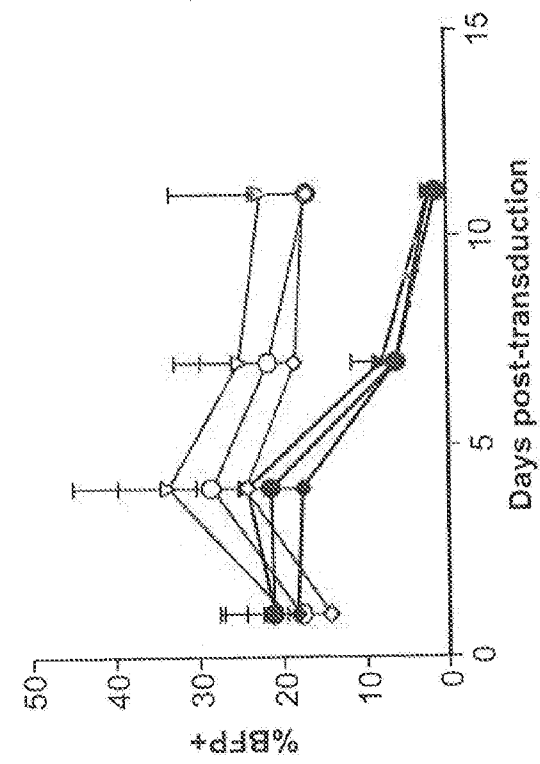
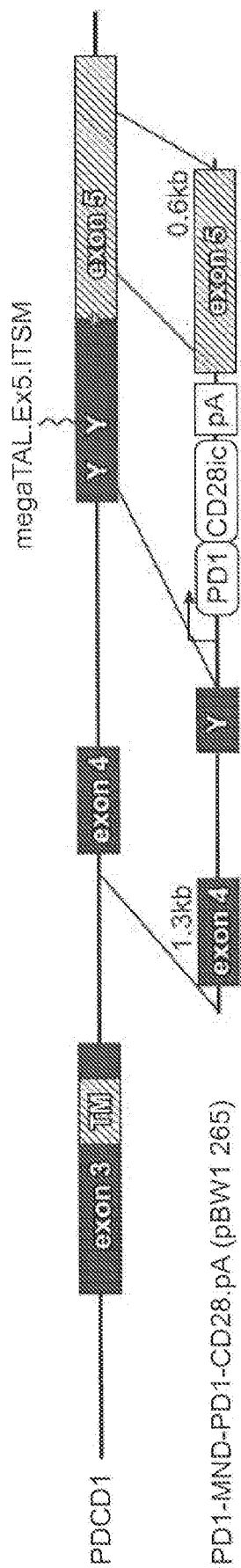


FIGURE 21



PD1-Ex5-MND-PD1.CD28

mRNA: PD1-Ex5-MND-PD1.CD28

None PD1-Ex5 MT

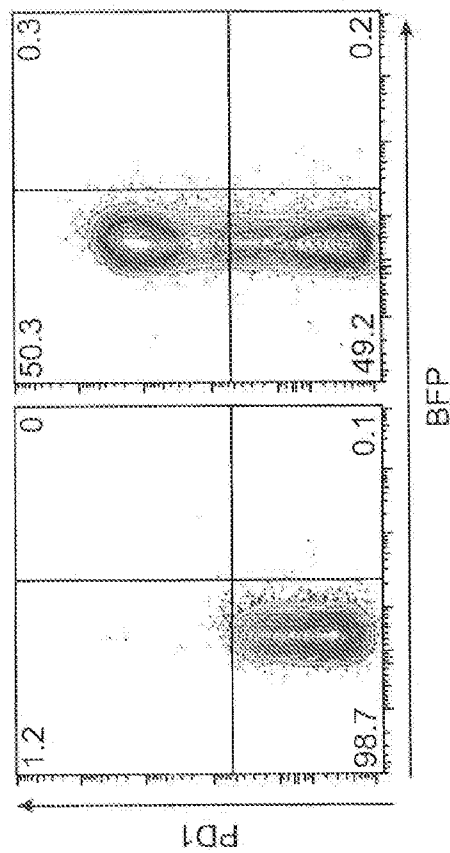
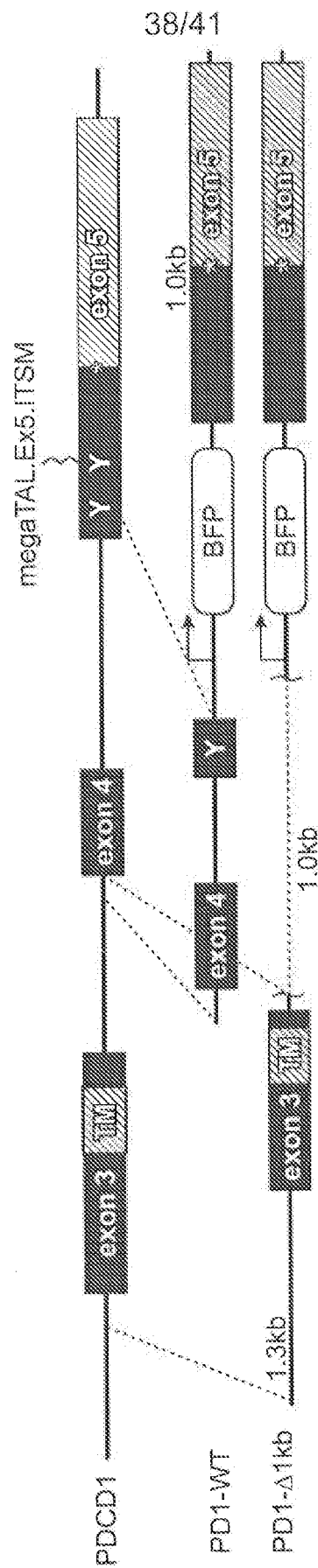
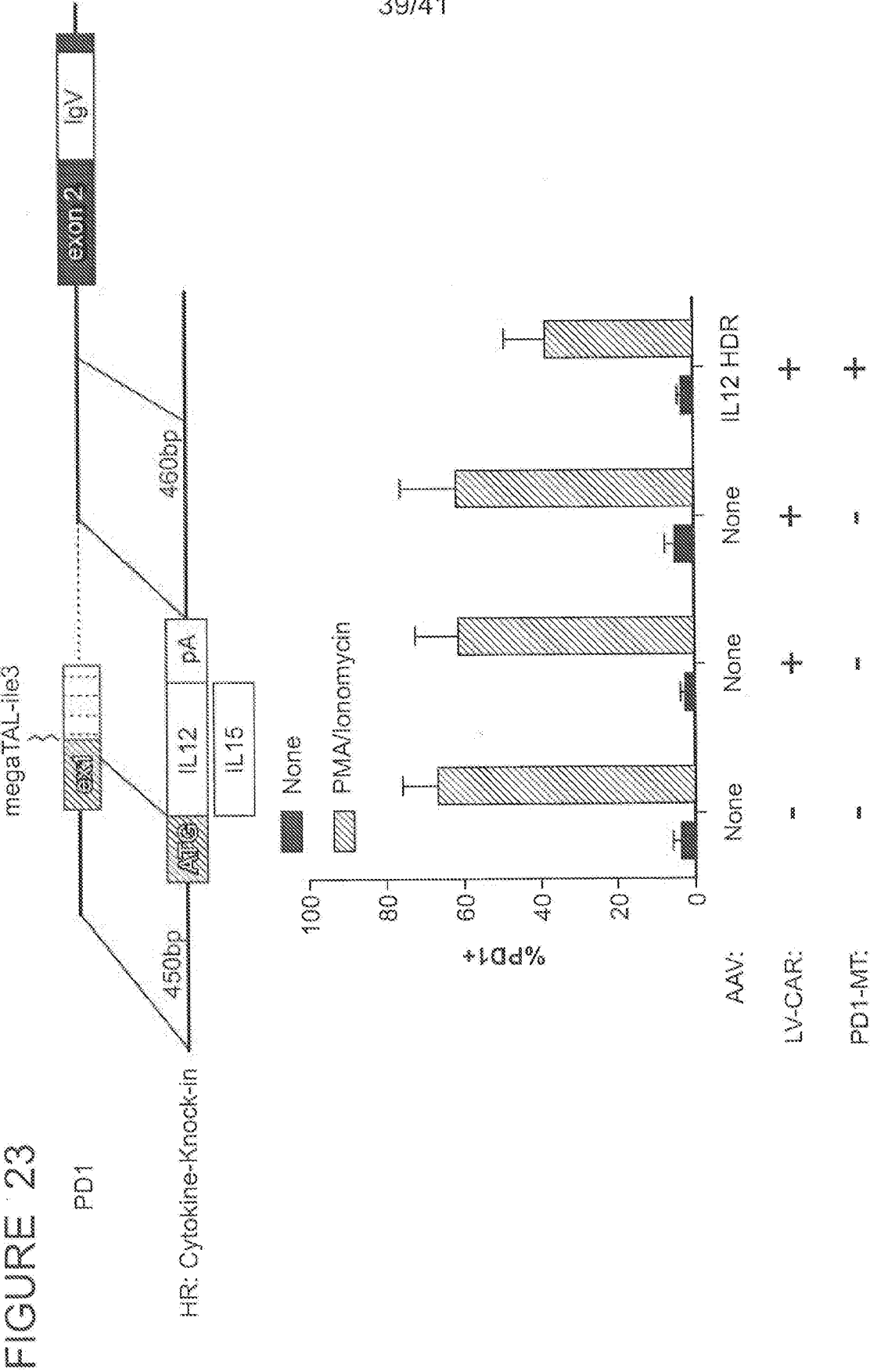


FIGURE 22





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FIGURE 24A

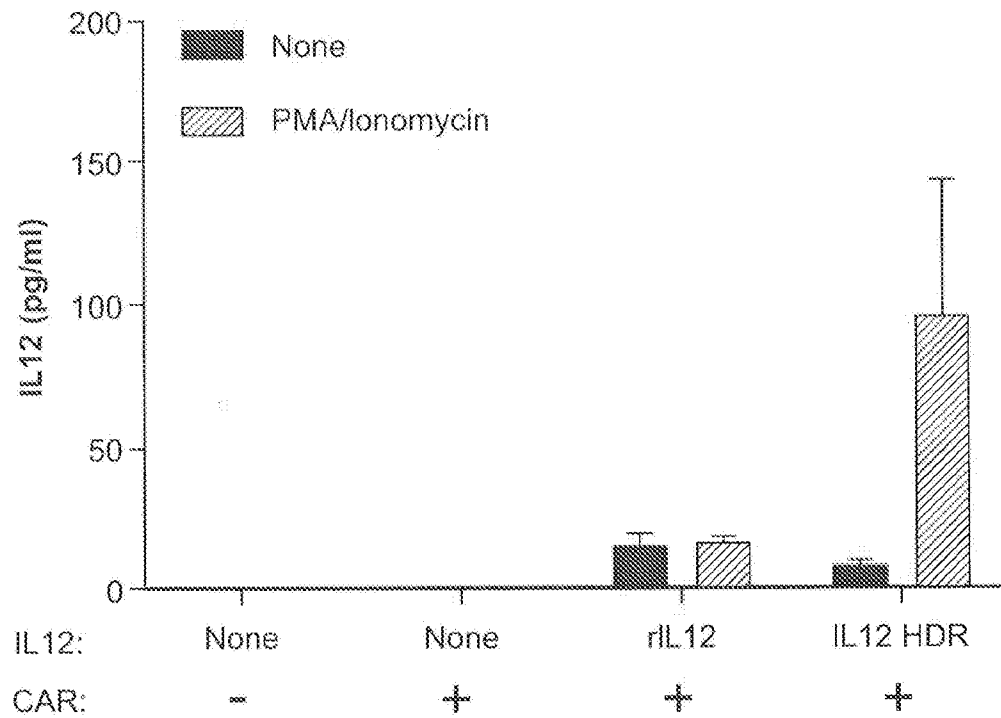
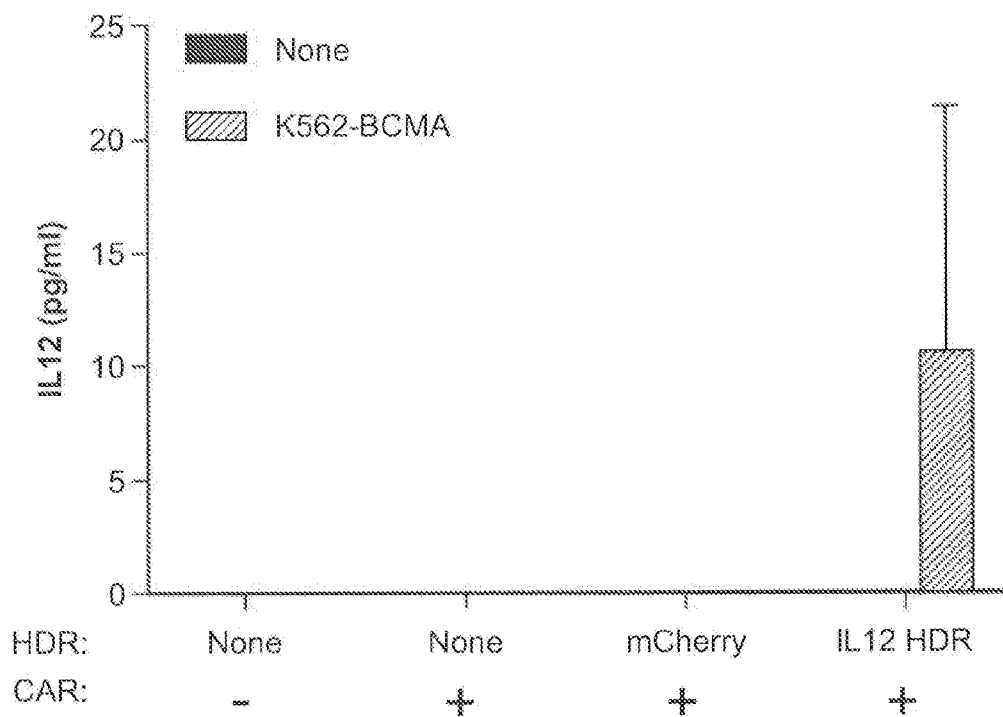


FIGURE 24B

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