

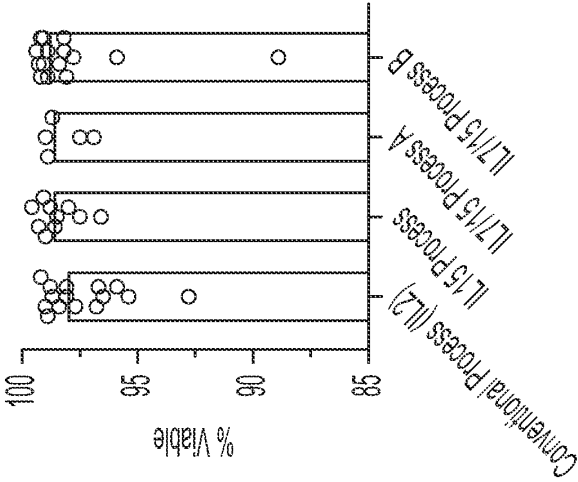


FIG. 1B

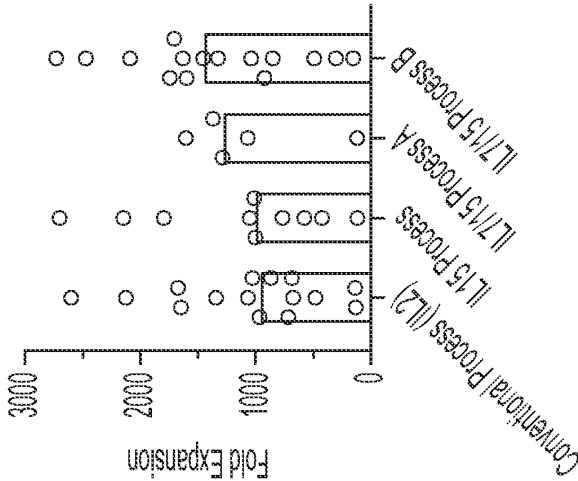


FIG. 1A

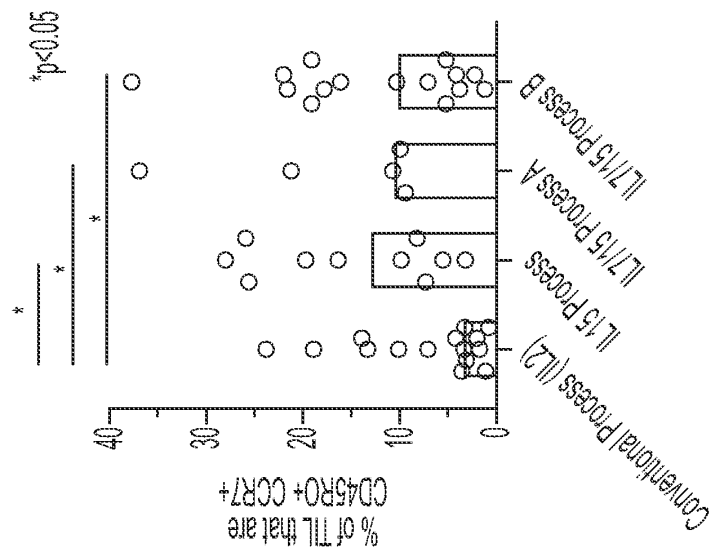


FIG. 2B

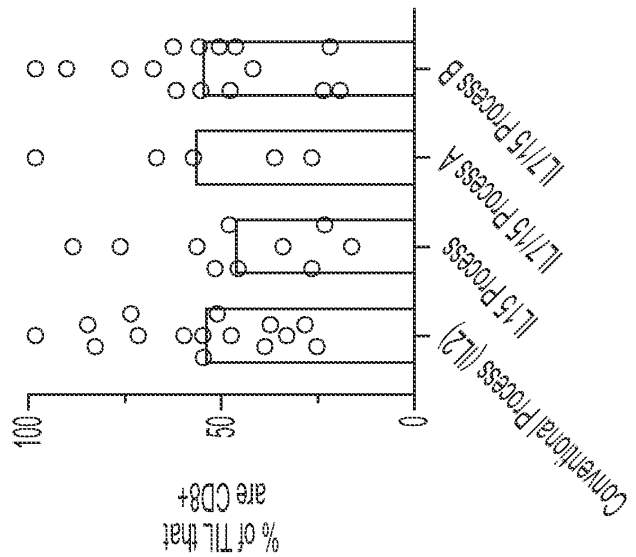


FIG. 2A

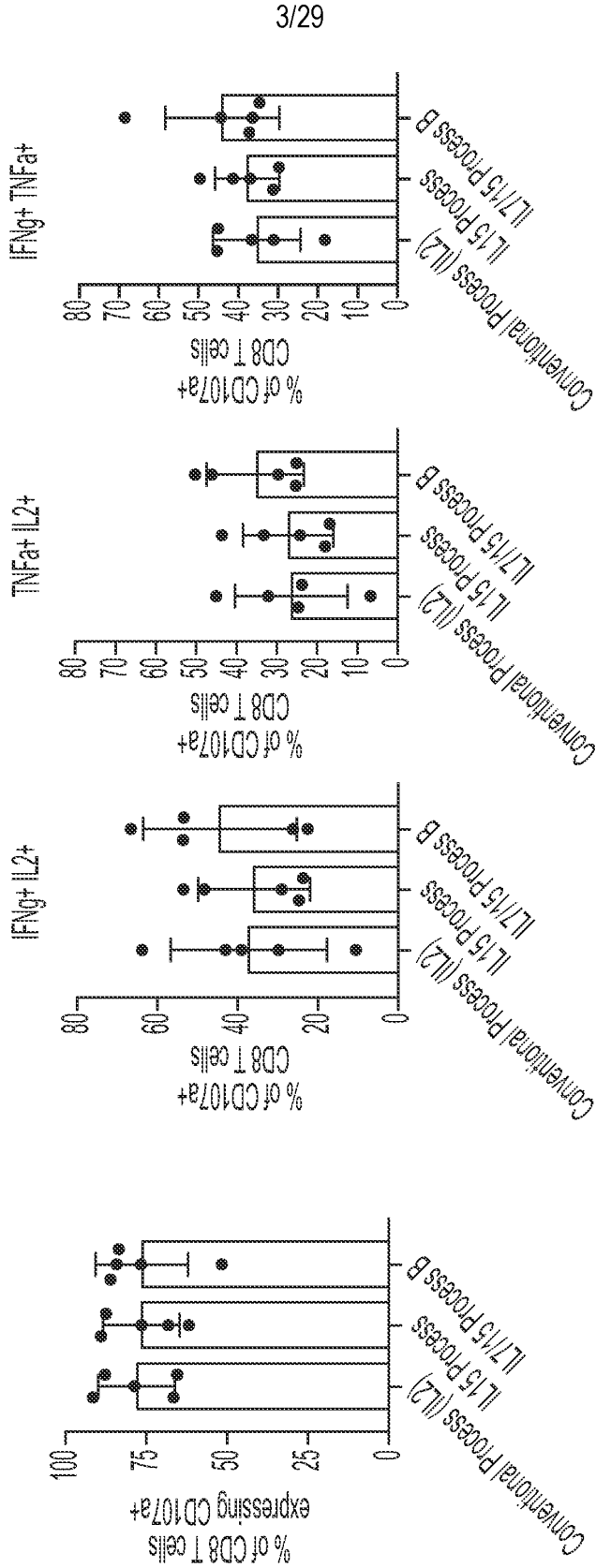


FIG. 3A

FIG. 3B

FIG. 3C

FIG. 3D

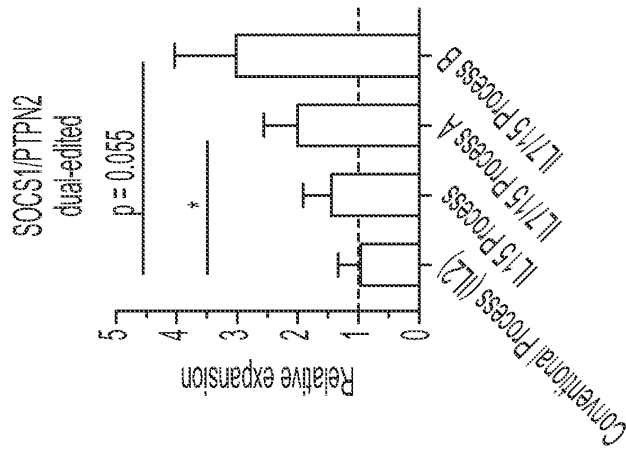


FIG. 4C

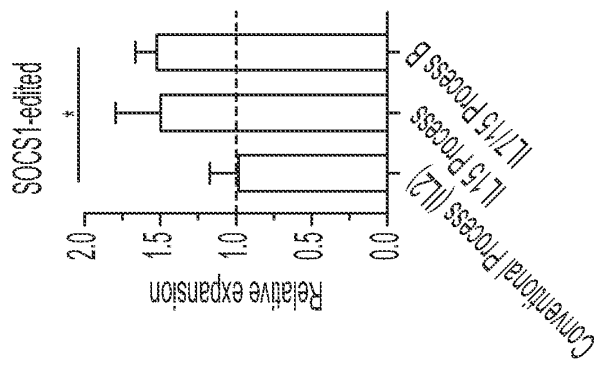


FIG. 4B

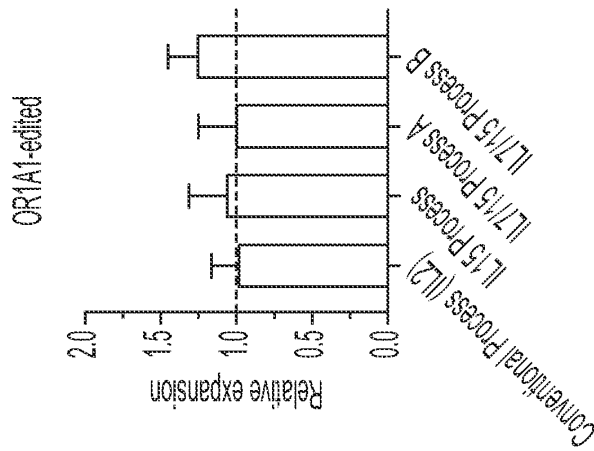


FIG. 4A

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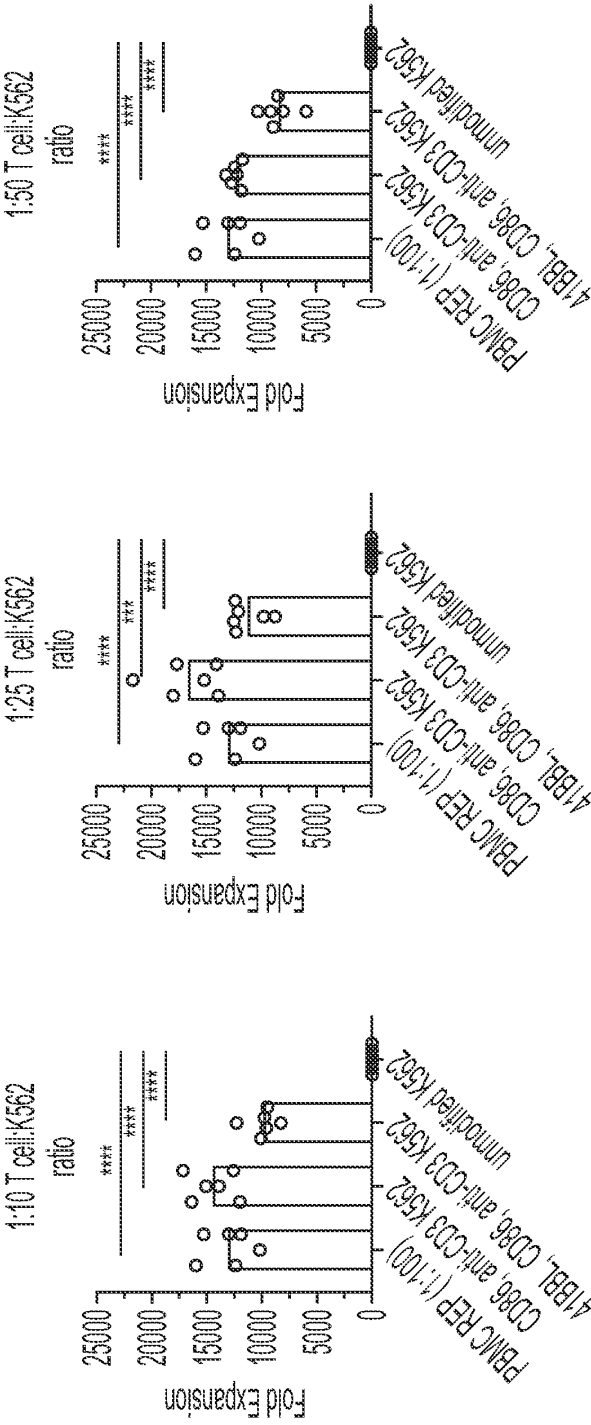
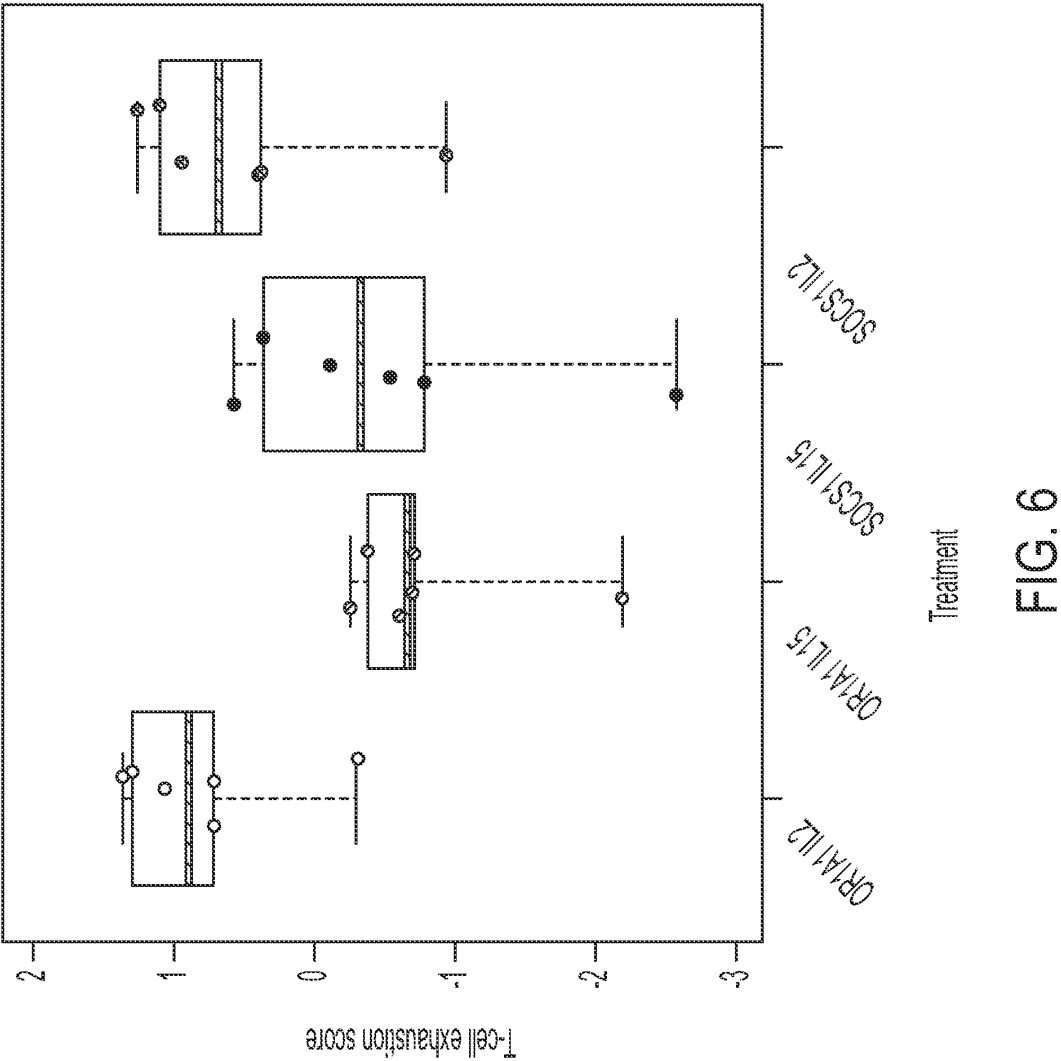


FIG. 5C

FIG. 5B

FIG. 5A



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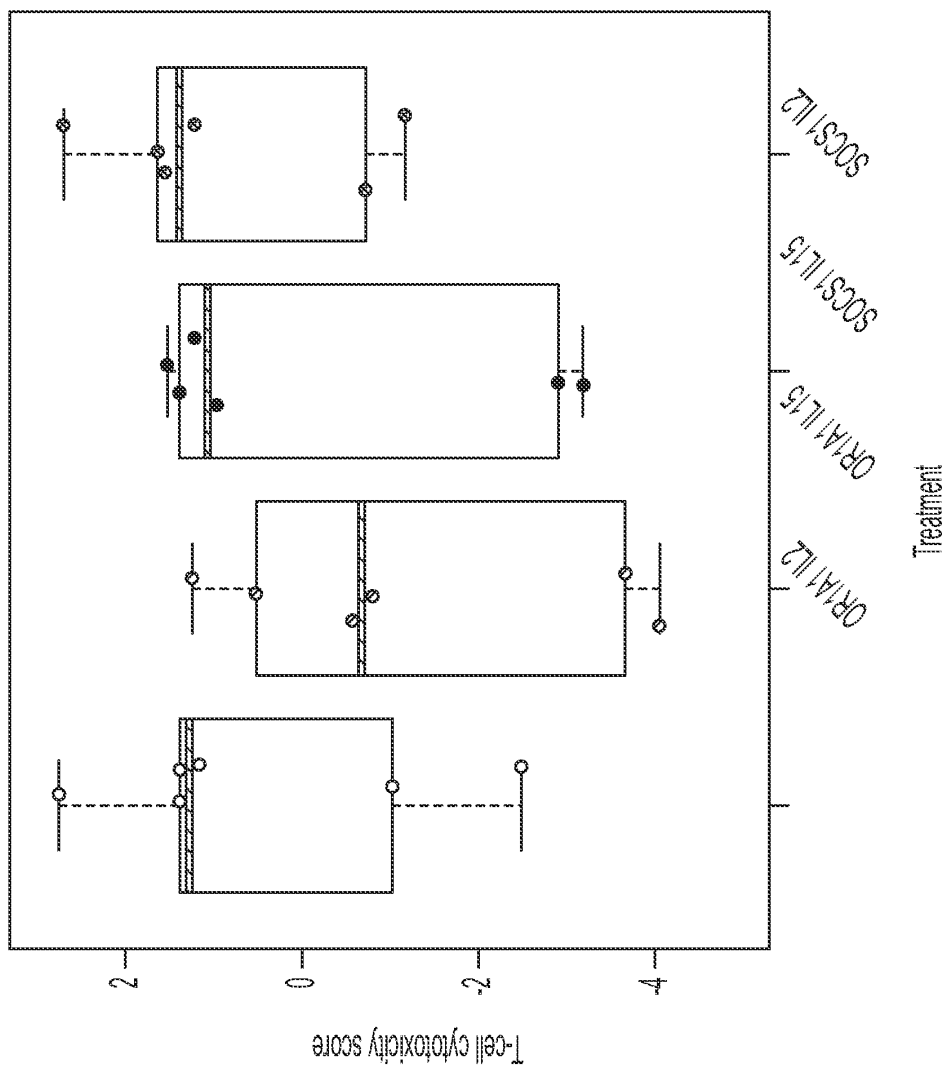


FIG. 7

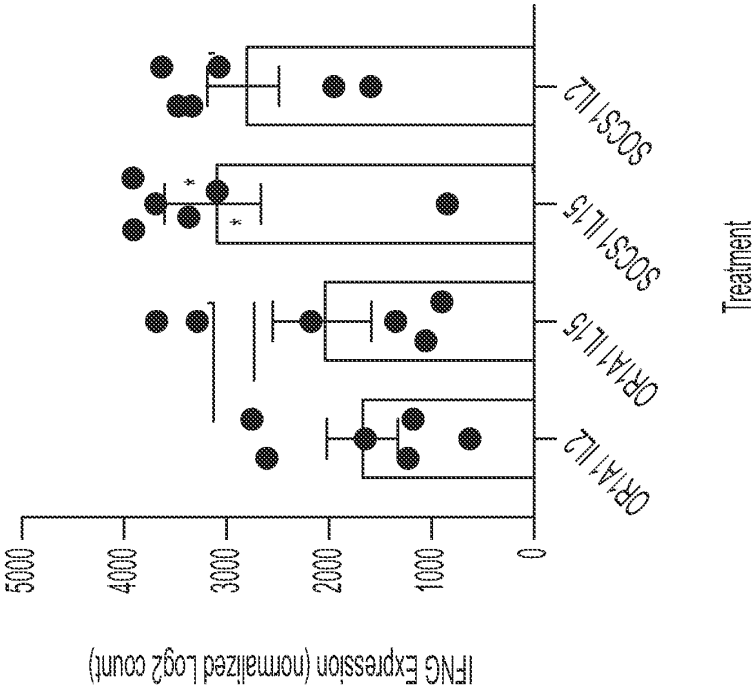


FIG. 8

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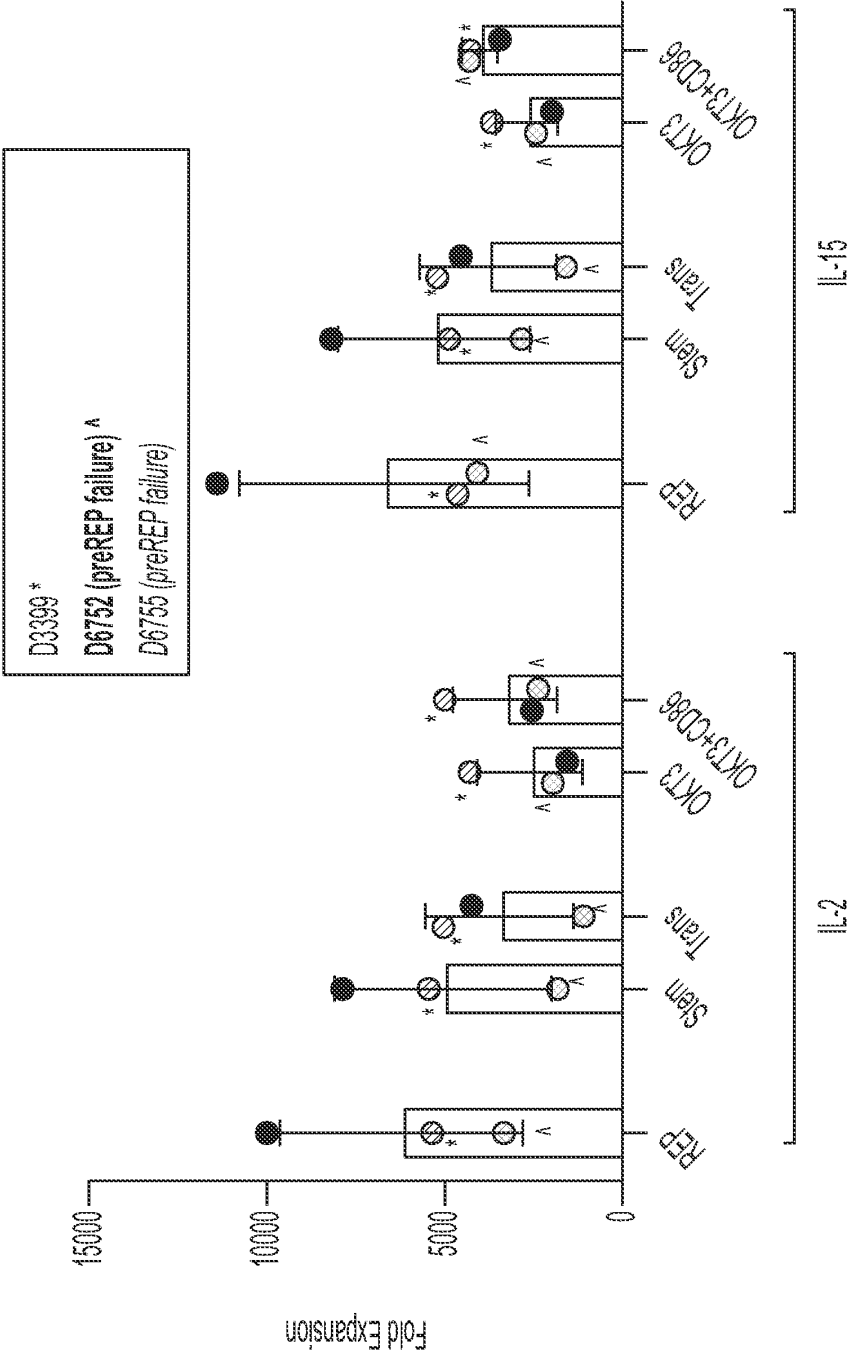


FIG. 9

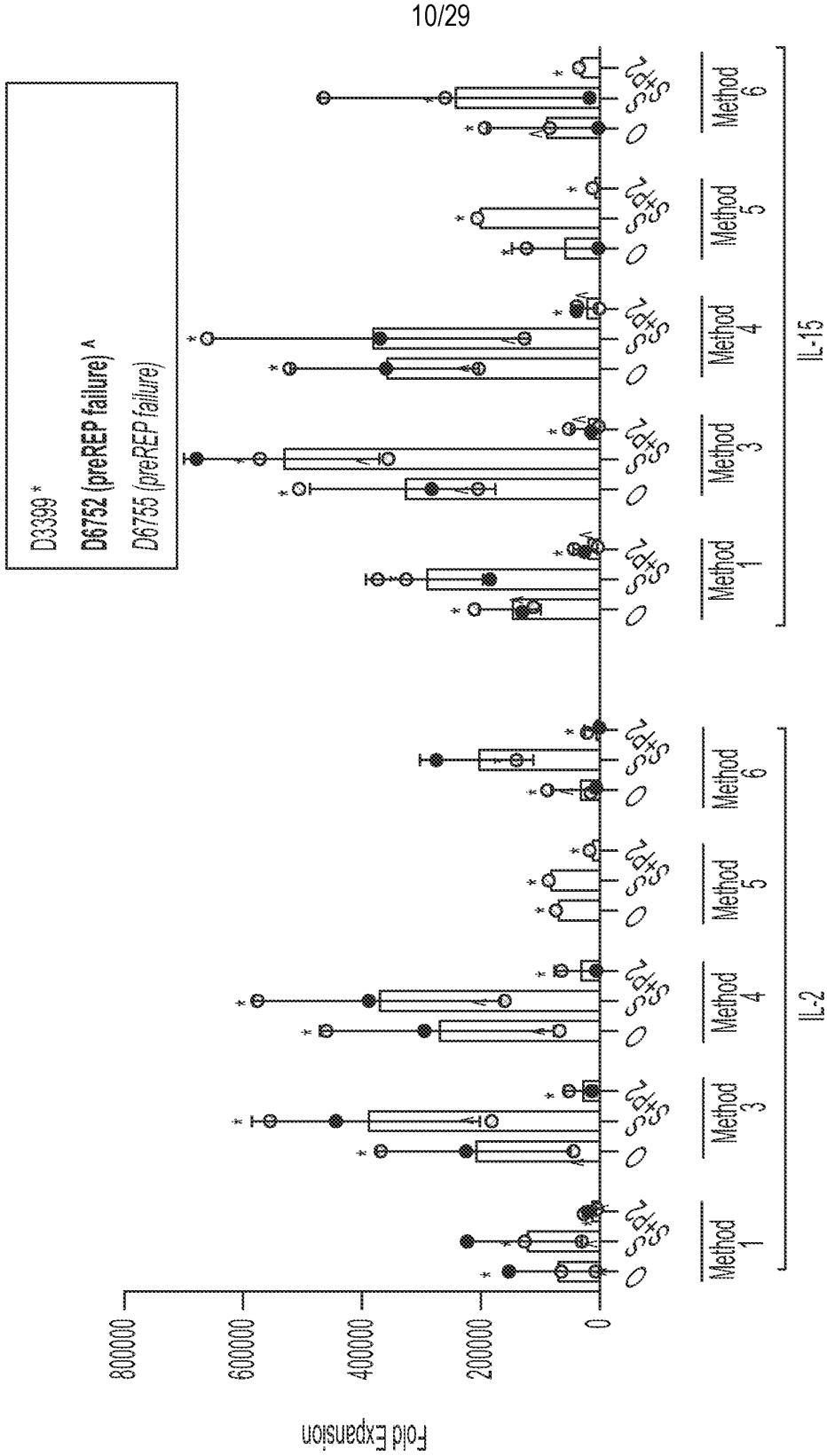


FIG. 10

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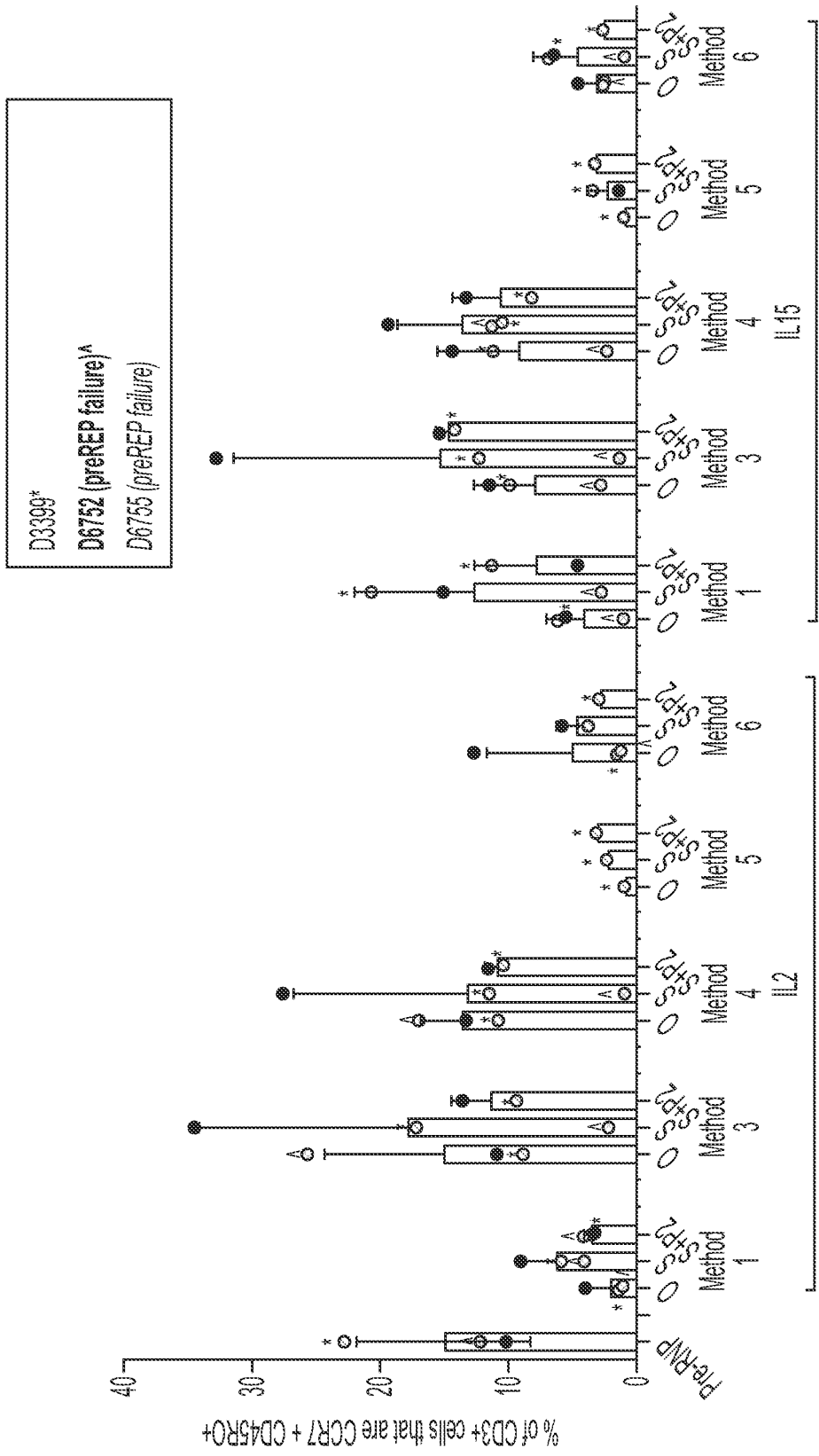


FIG. 11

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Donor	Cytokine	Edit/s	Method 1	Method 3	Method 4	Method 5	Method 6
D3399	IL2	OR1A2	0.88	0.61	0.95	0.02	0.02
D6752	IL2	OR1A2	0.48	0.82	0.78		0.02
D6755	IL2	OR1A2	0.89	0.95	0.74		
D3399	IL15	OR1A2	0.67	0.93	0.63	0.03	0.02
D6752	IL15	OR1A2	0.85	0.94	0.83		0.02
D6755	IL15	OR1A2	0.86	0.97	0.98		
D3399	IL2	SOCs1	0.97	0.72	0.95	0.99	0.97
D6752	IL2	SOCs1	0.99	0.98	0.99		
D6755	IL2	SOCs1	0.97	0.99	0.98		1.00
D3399	IL15	SOCs1	0.78	0.99	0.99	0.99	0.99
D6752	IL15	SOCs1	0.99	0.89	0.99		1.00
D6755	IL15	SOCs1	0.98	0.97	0.99		0.98
D3399	IL2	SOCs1; PTPN2	0.96; 0.97	0.72; 0.82	0.48; 0.64	0.96; 0.97	0.94; 0.94
D6752	IL2	SOCs1; PTPN2	0.55; 0.58				
D6755	IL2	SOCs1; PTPN2	0.97; 0.97	0.91; 0.95	0.92; 0.93		
D3399	IL15	SOCs1; PTPN2	0.38; 0.59	0.44; 0.59	0.97; 0.97	0.94; 0.98	0.93; 0.96
D6752	IL15	SOCs1; PTPN2					
D6755	IL15	SOCs1; PTPN2	0.94; 0.96	0.89; 0.94	0.86; 0.92		

FIG. 12

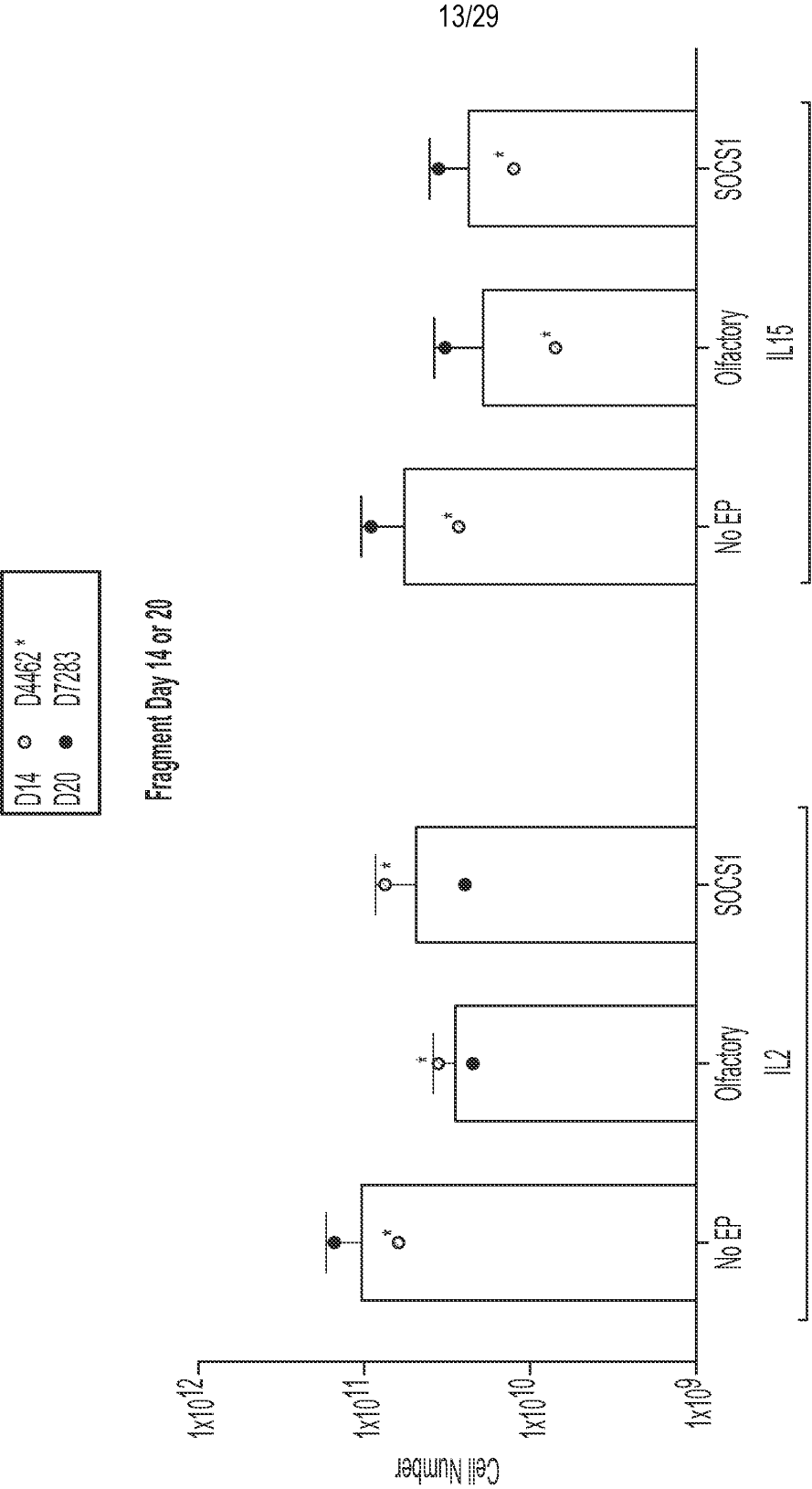


FIG. 13

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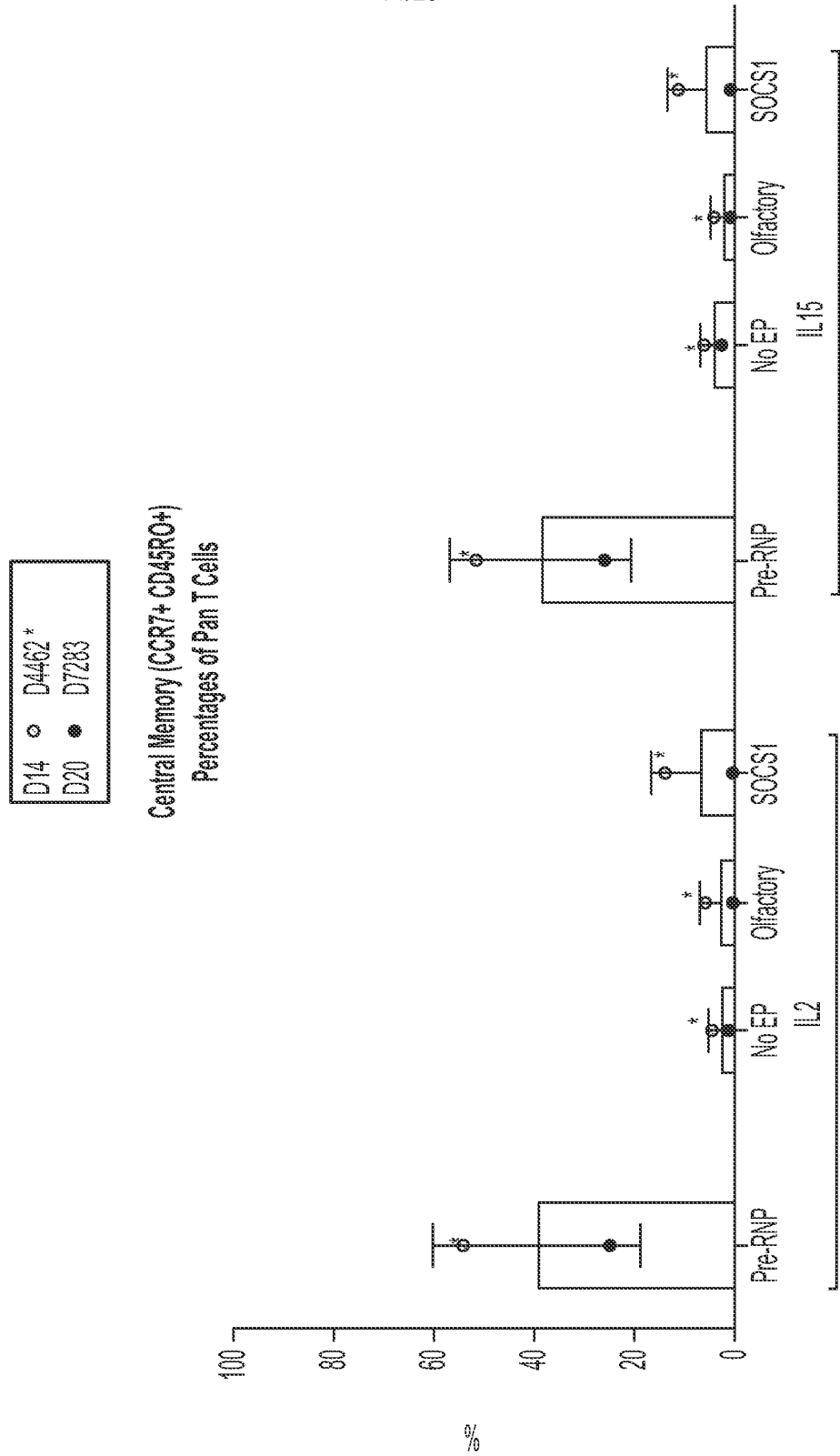


FIG. 14

Donor	Cytokine		Edit	Frequency
D4462	IL2		OR1A2	0.74
D4462	IL15		OR1A2	0.88
D7283	IL2		OR1A2	0.64
D7283	IL15		OR1A2	0.79
D4462	IL2		S0CS1	0.95
D4462	IL15		S0CS1	0.96
D7283	IL2		S0CS1	0.96
D7283	IL15		S0CS1	0.95

FIG. 15

Label	SOCs1 (u728)	Label	OR1A2 (axfc)
D3239 IL2 S	0.90	D3239 IL2 O	0.73
D6138 IL2 S	0.98	D6138 IL2 O	0.61
D6755 IL2 S	0.98	D6755 IL2 O	0.81
D4462 IL2 S	0.95	D4462 IL2 O	0.74
D7283 IL2 S	0.96	D7283 IL2 O	0.64
D3239 IL2 S 1000U IL2	0.93	D3239 IL2 O 1000U IL2	0.86

FIG. 16

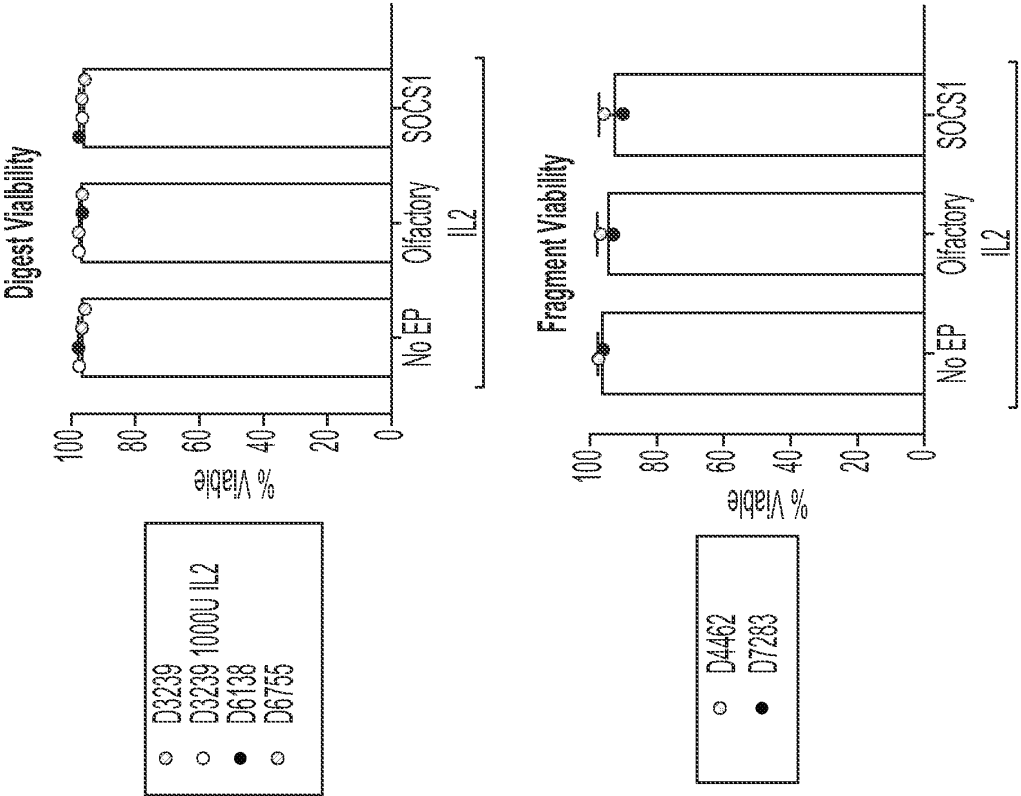


FIG. 17

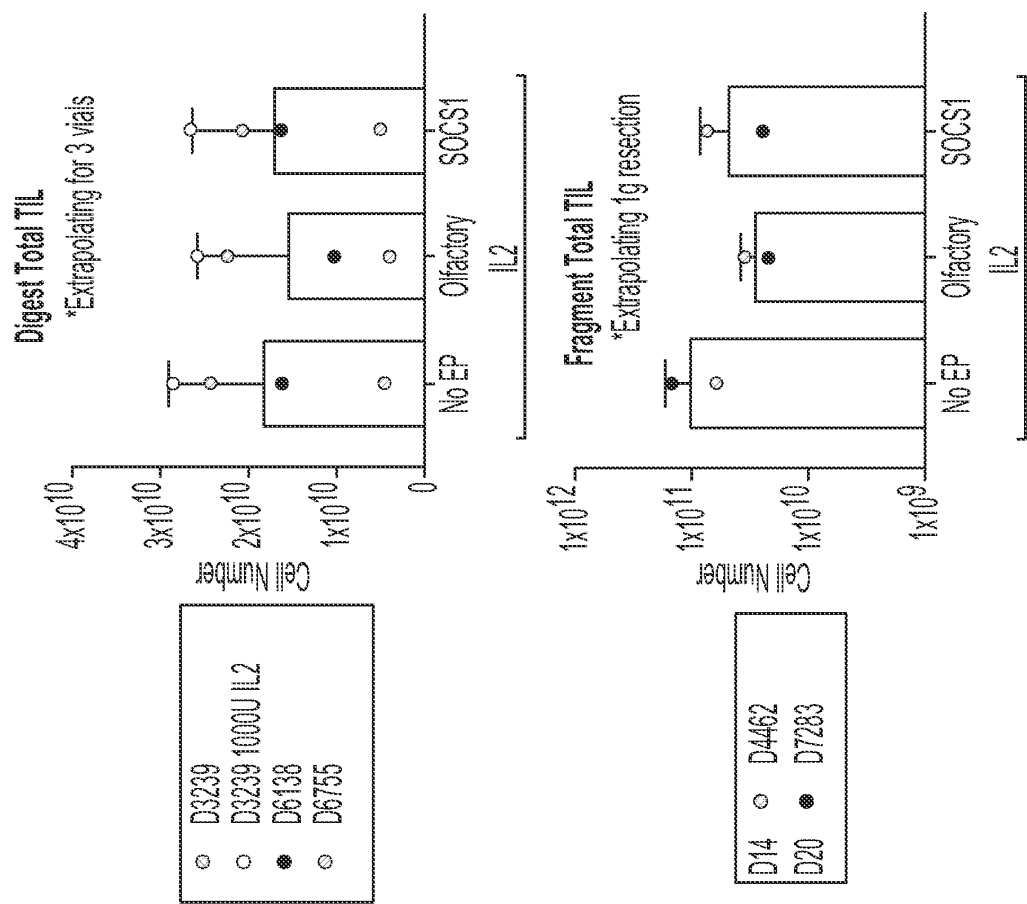


FIG. 18

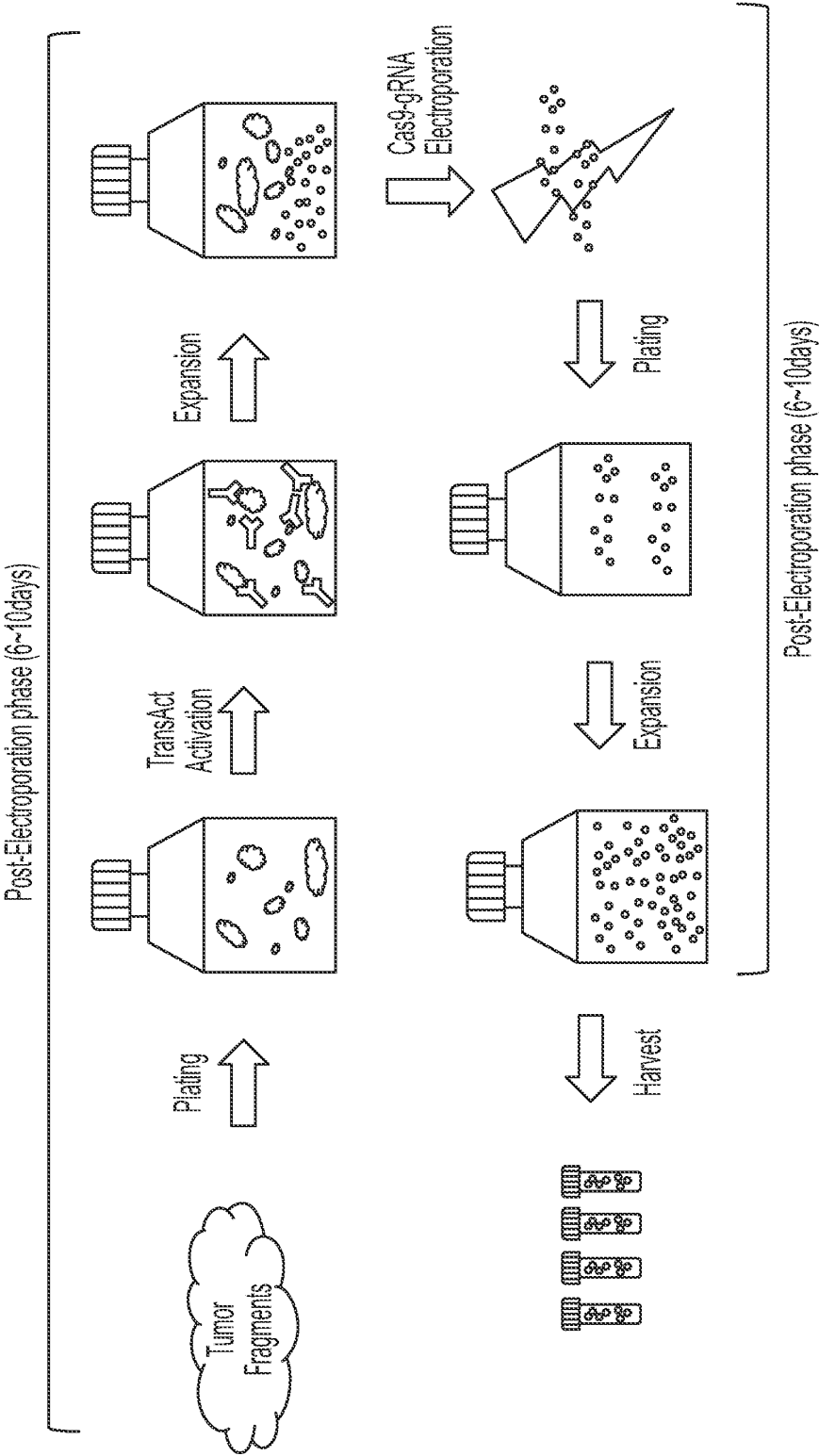


FIG. 19

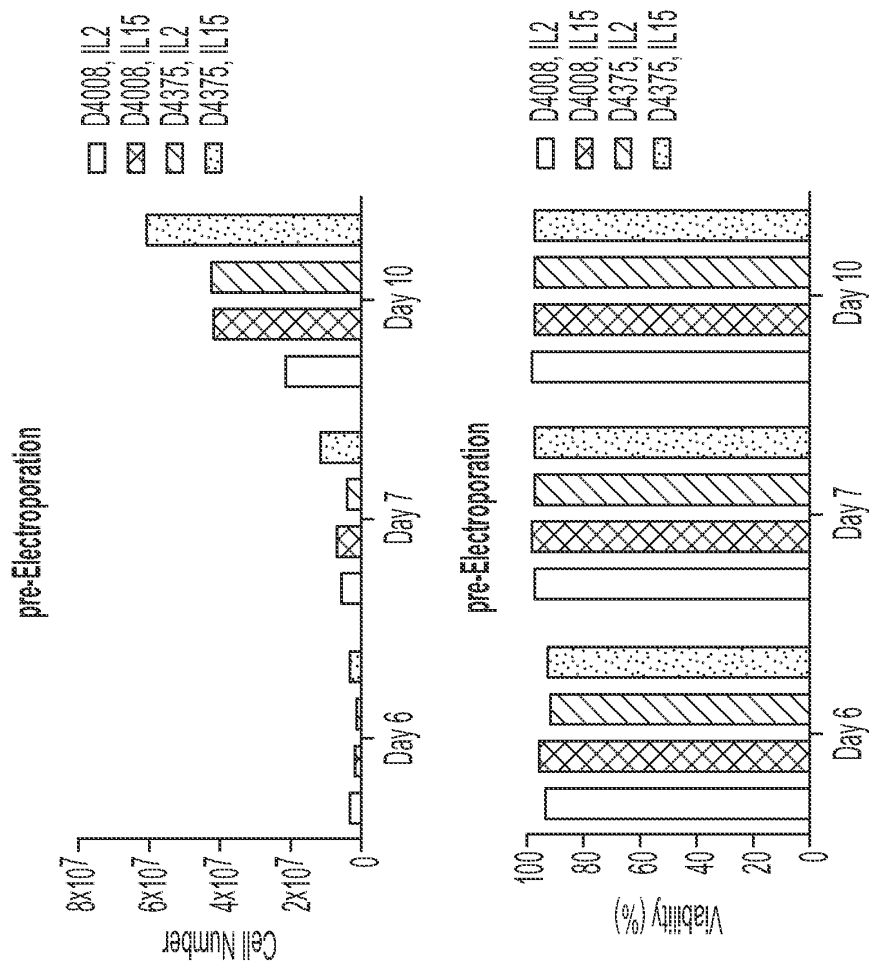


FIG. 20

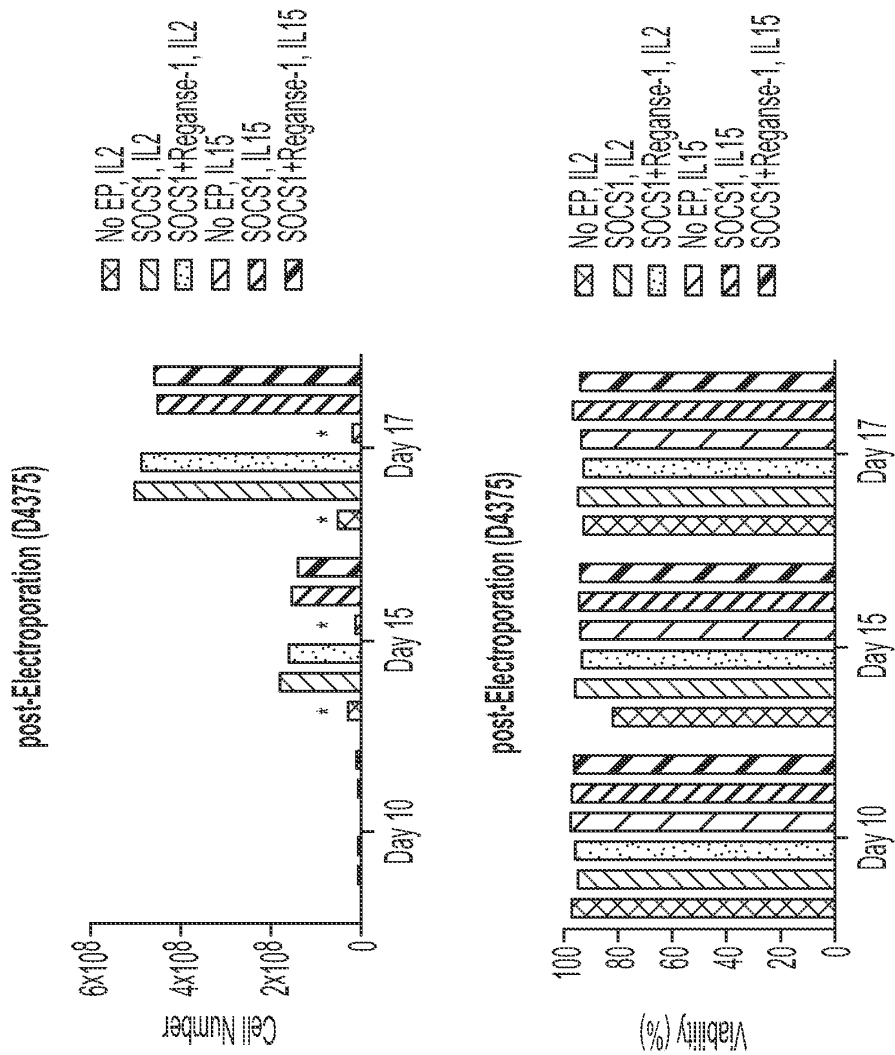


FIG. 21

Labels (D4375)	SOCs1 editing	Regnase-1 editing
SOCs1, IL2	0.97	<0.00005
SOCs1 + Regnase-1, IL2	0.97	0.96
SOCs1, IL15	0.95	<0.00005
SOCs1 + Regnase-1, IL15	0.96	0.94

FIG. 22

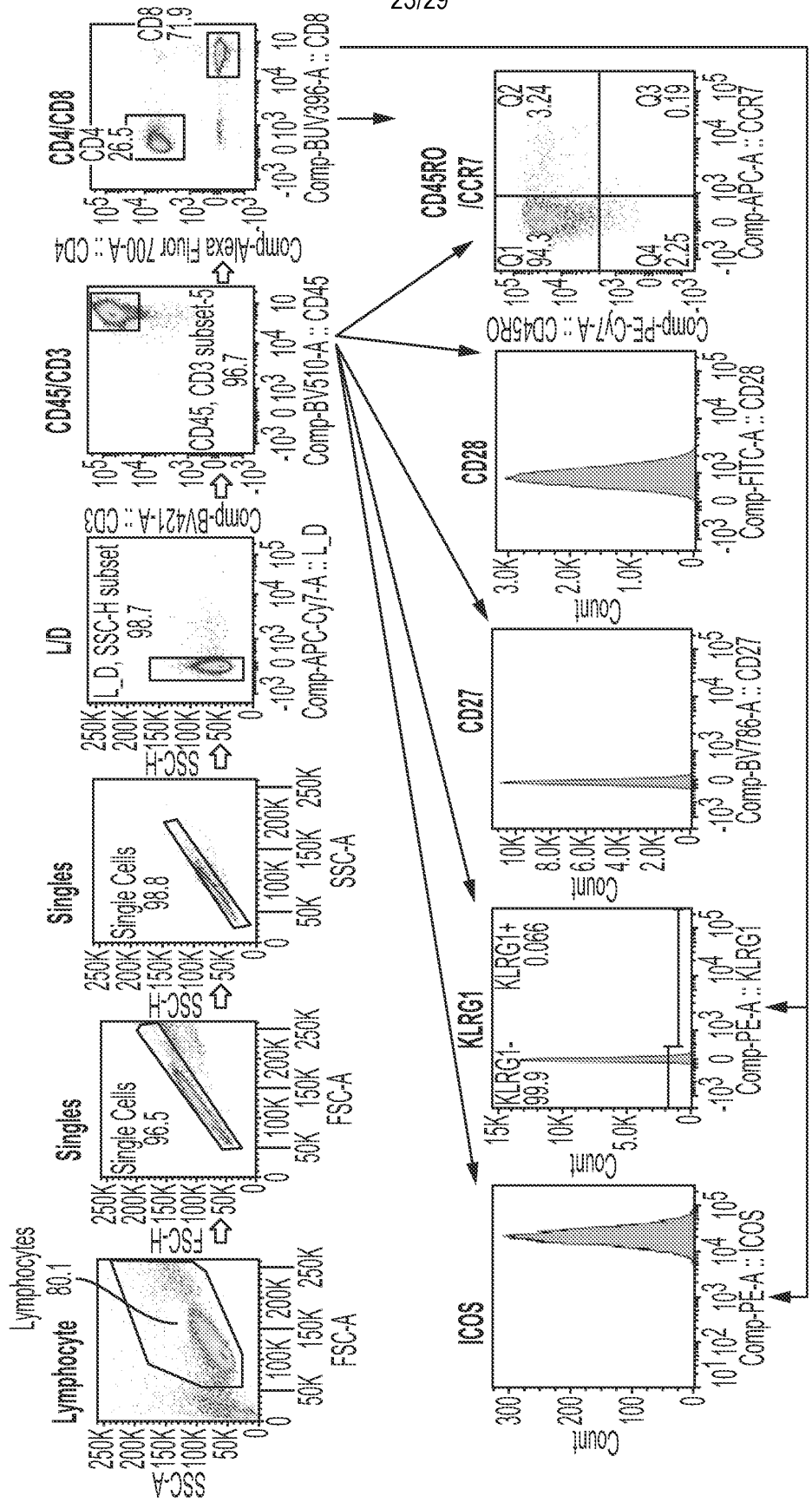


FIG. 23

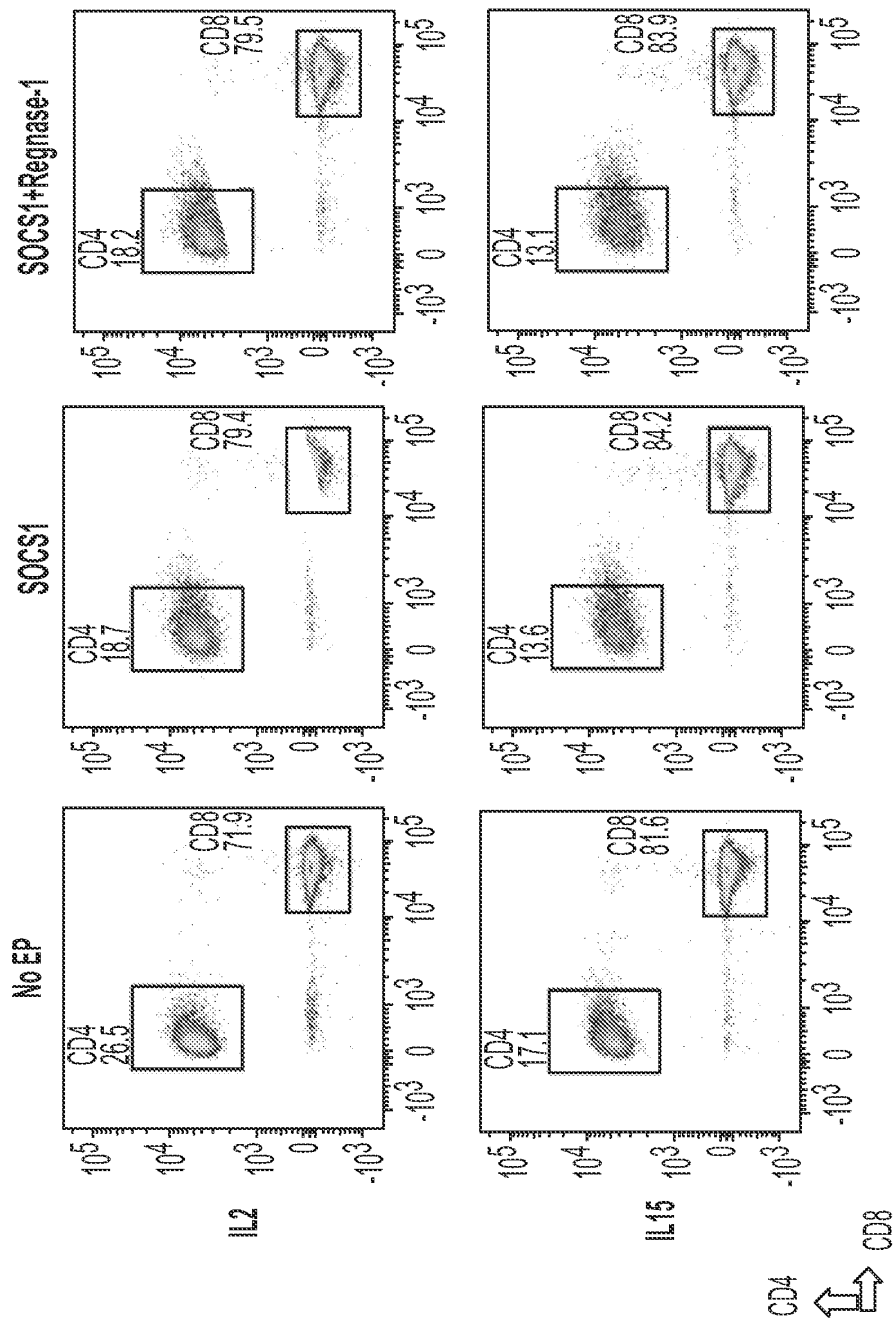


FIG. 24

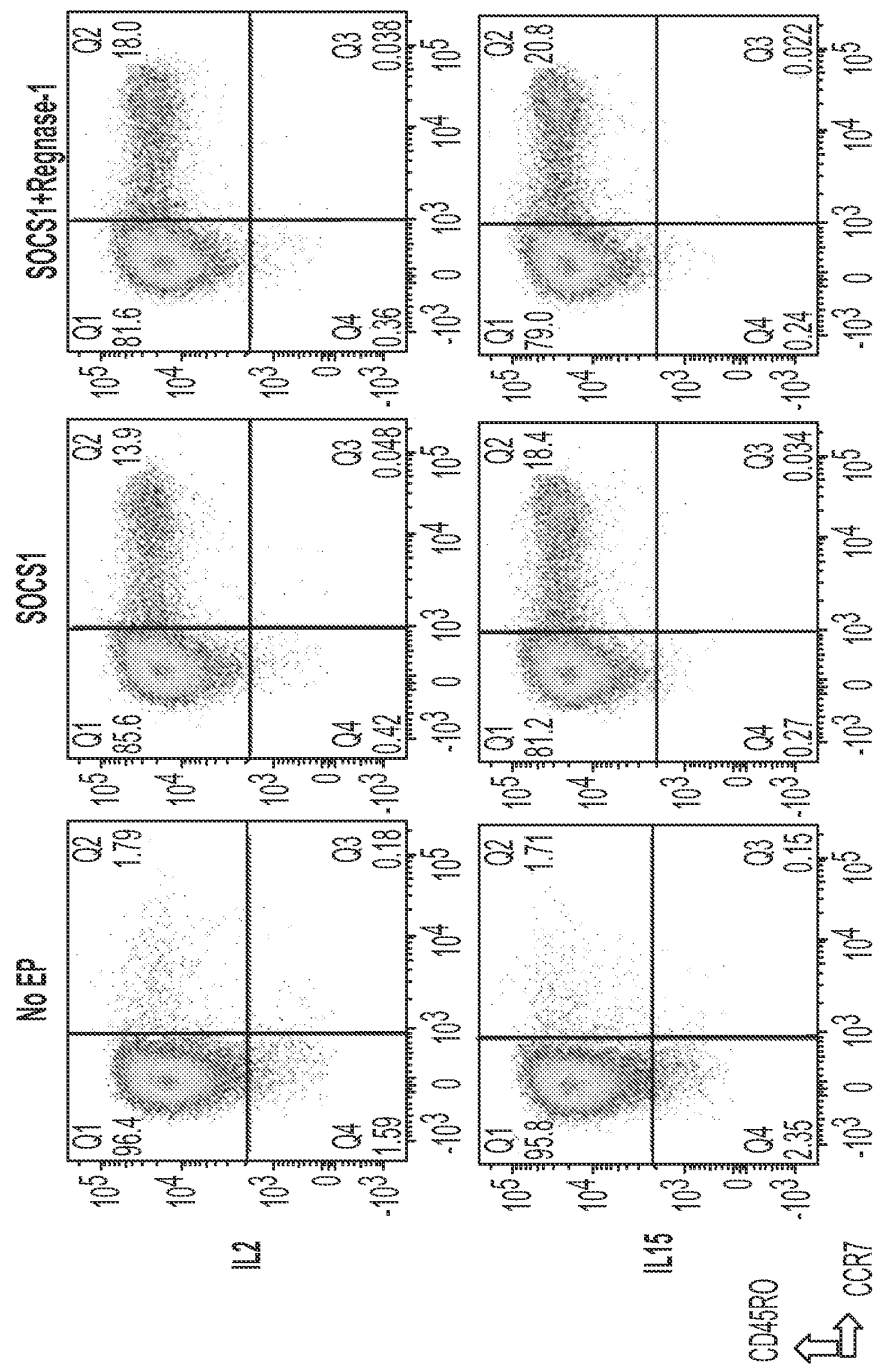


FIG. 24 Continued

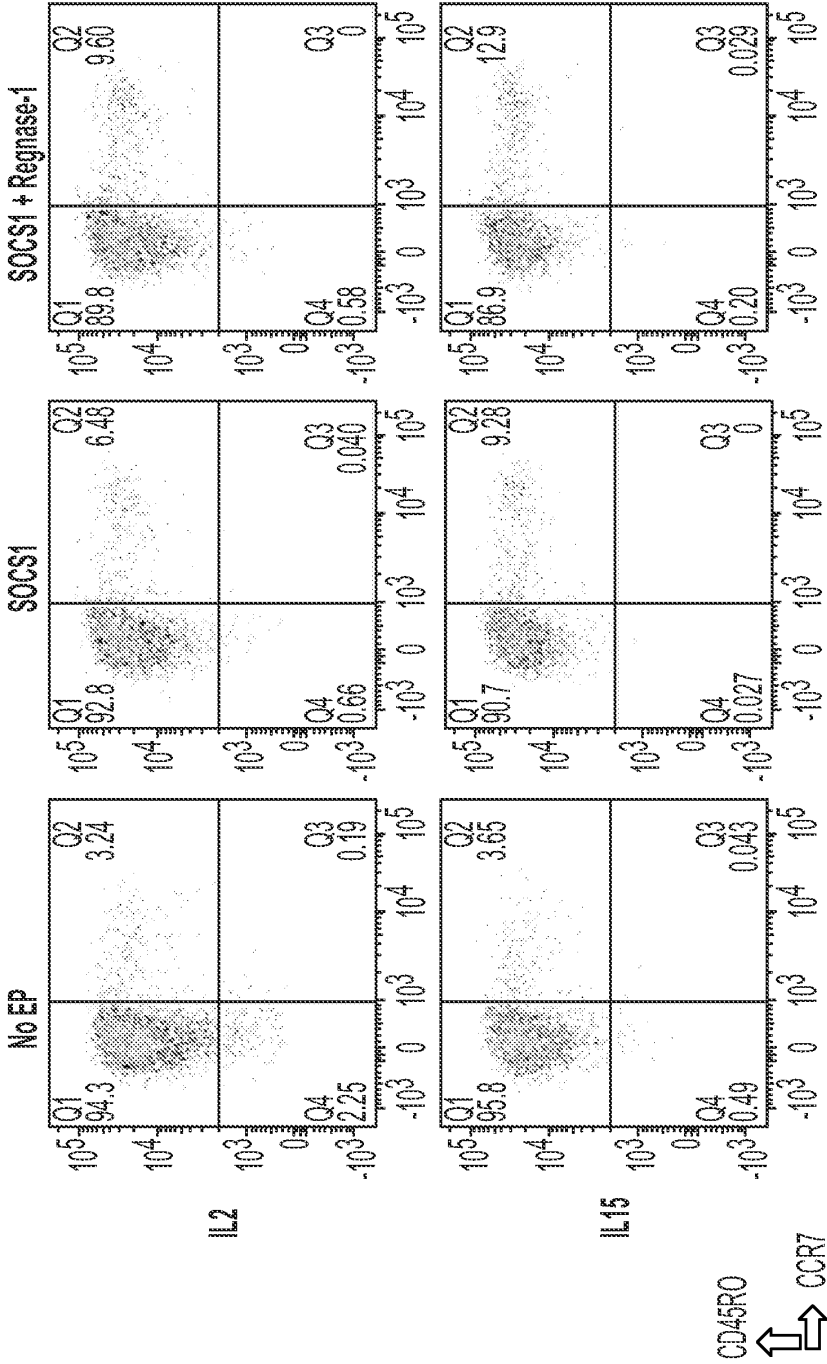


FIG. 24 Continued

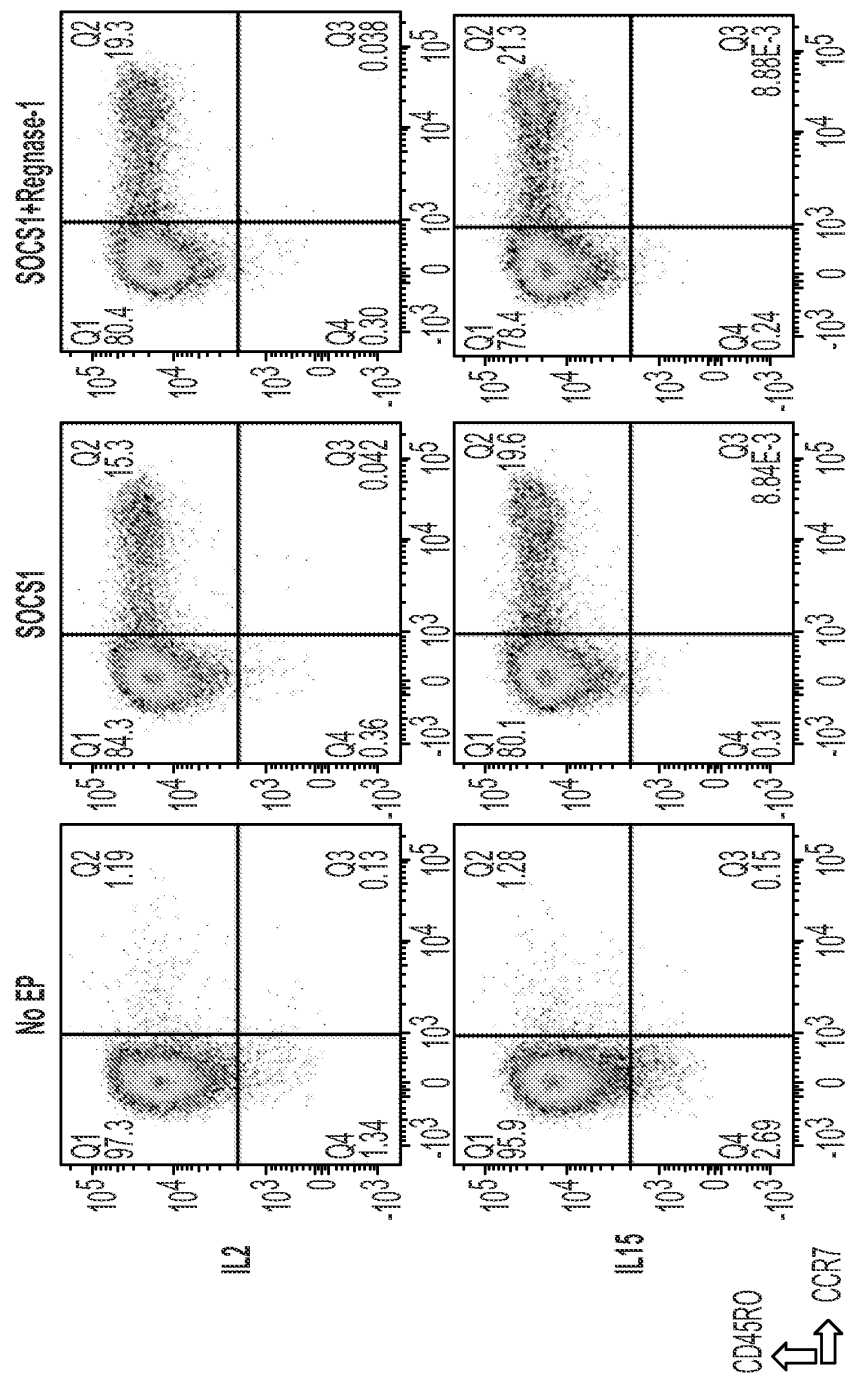


FIG. 24 Continued

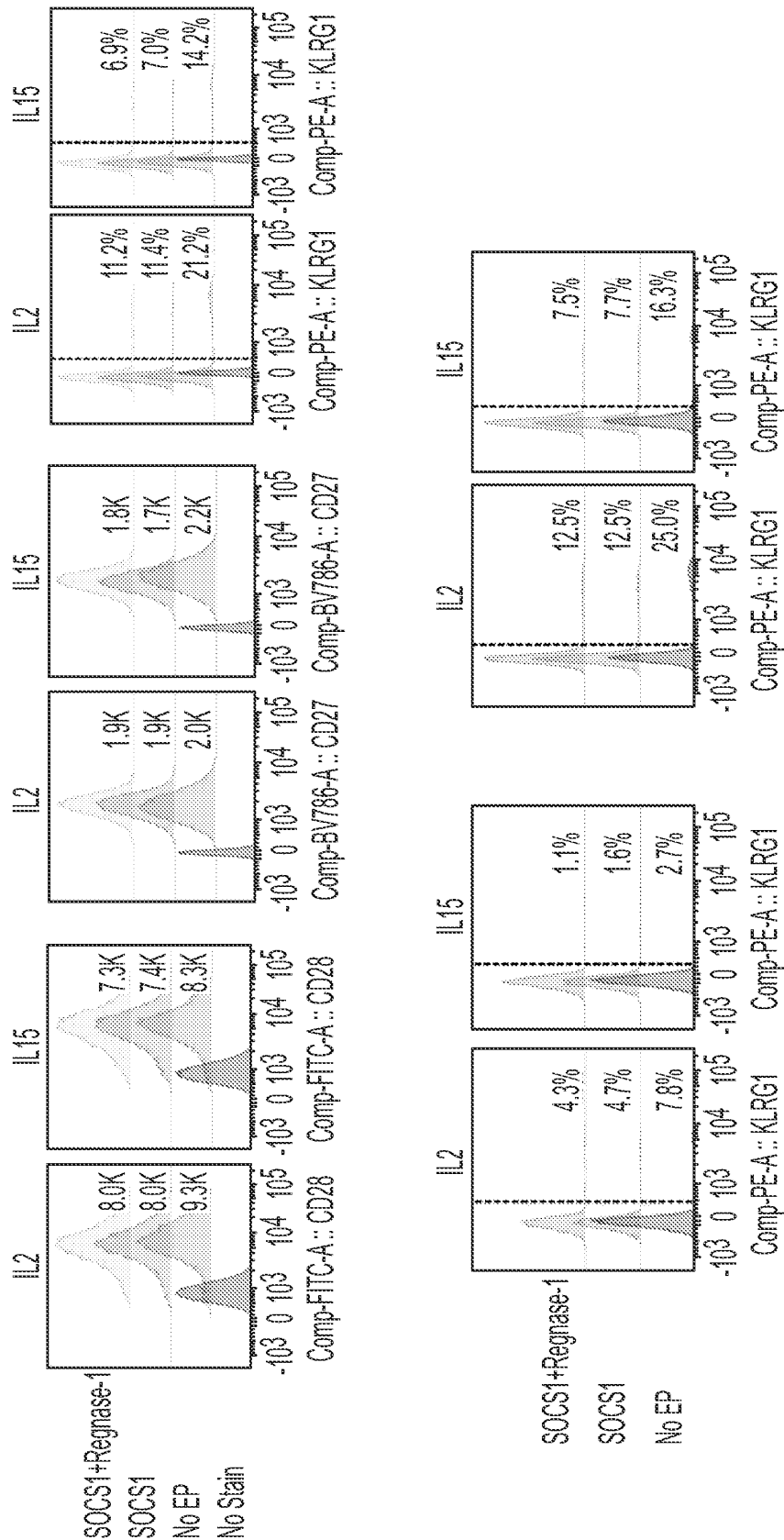


FIG. 25

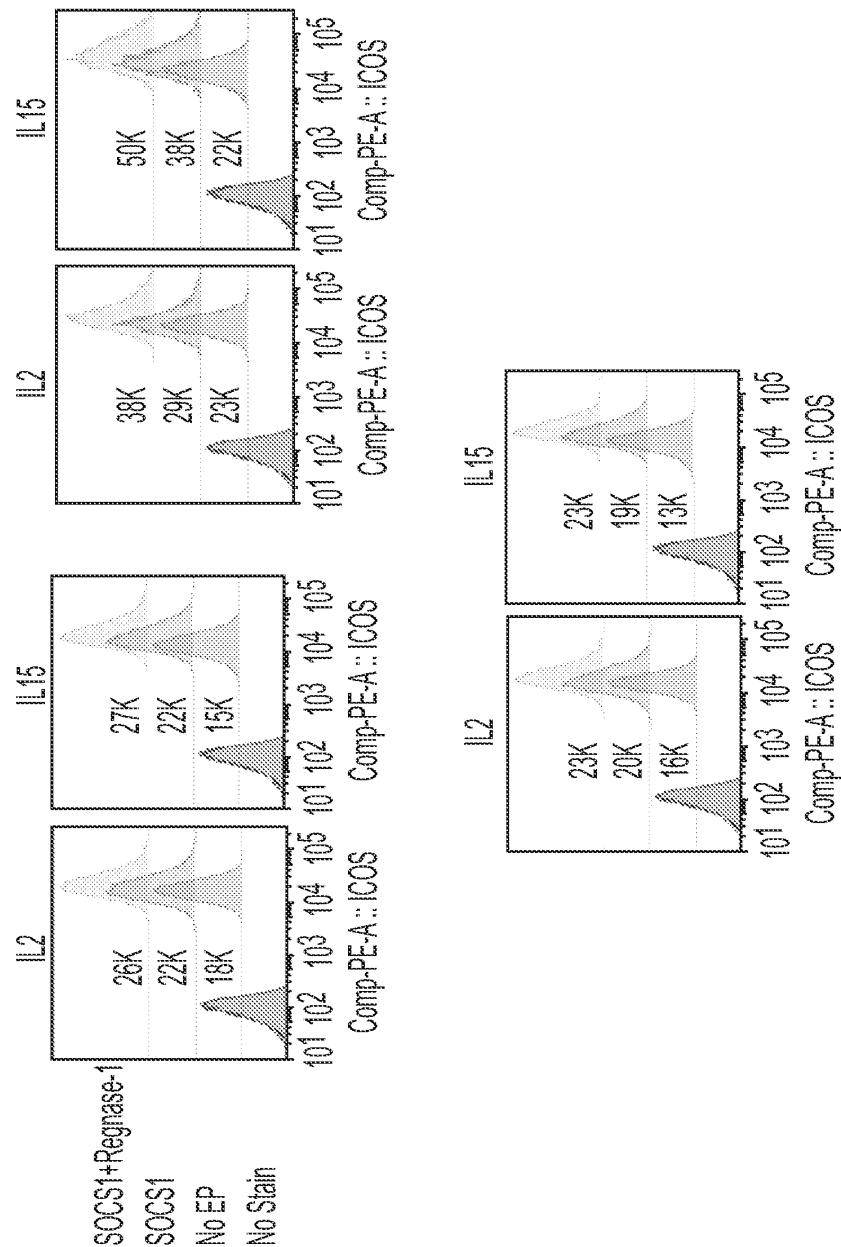


FIG. 26