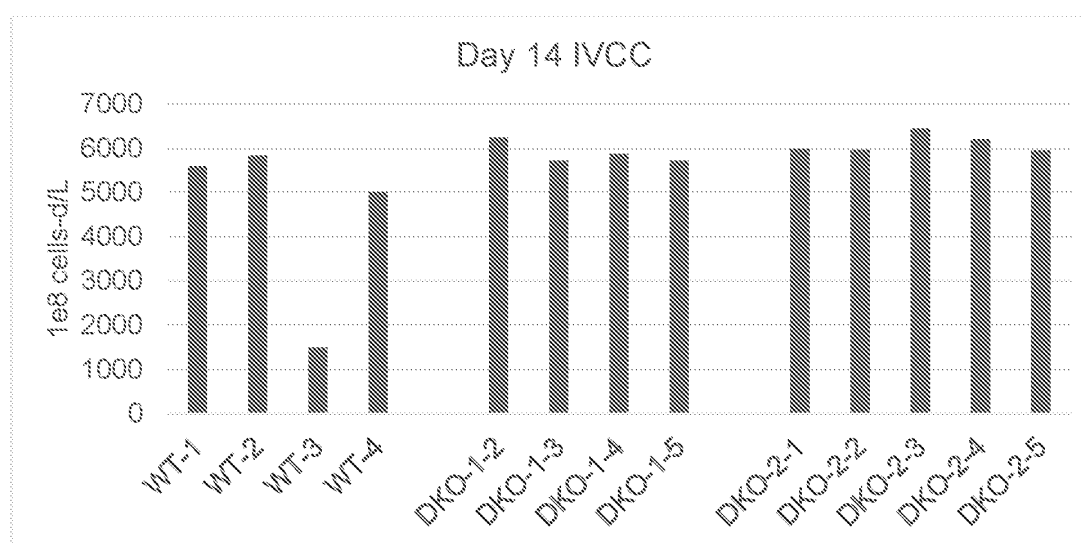


**Figure 1**

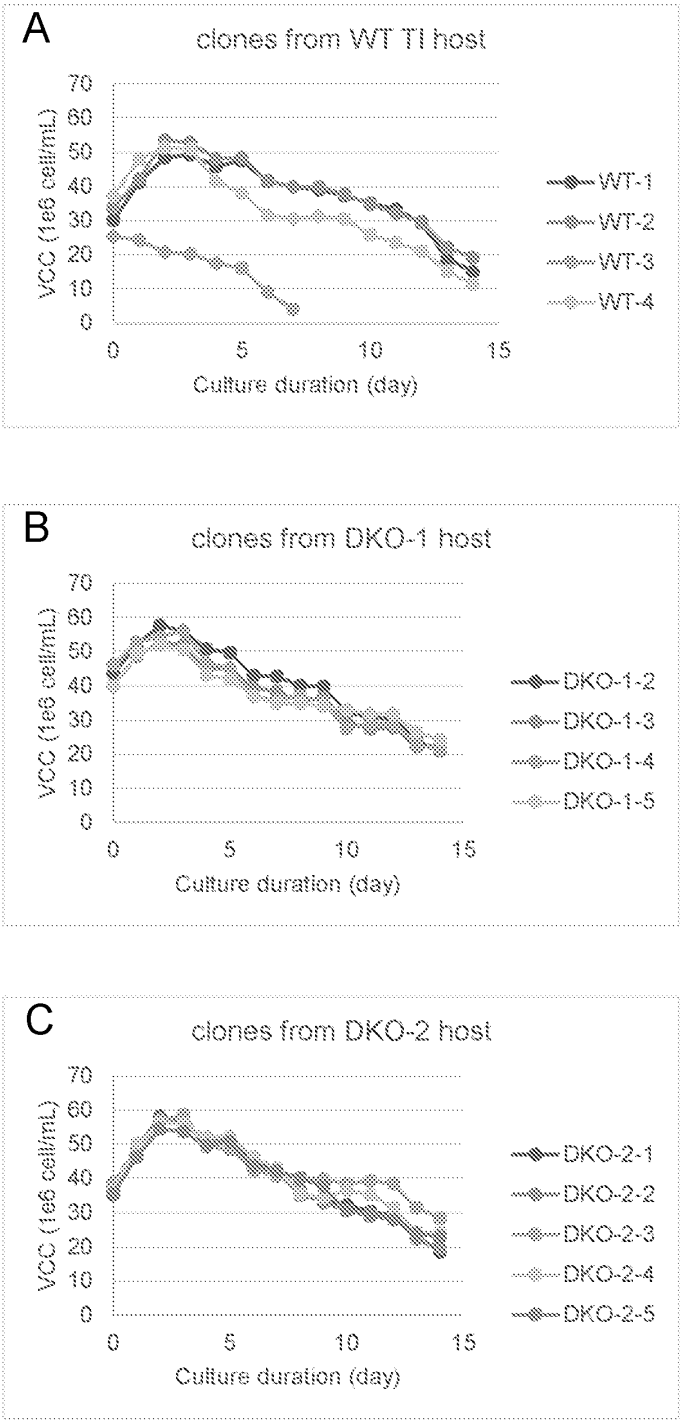


Figure 2A-2C

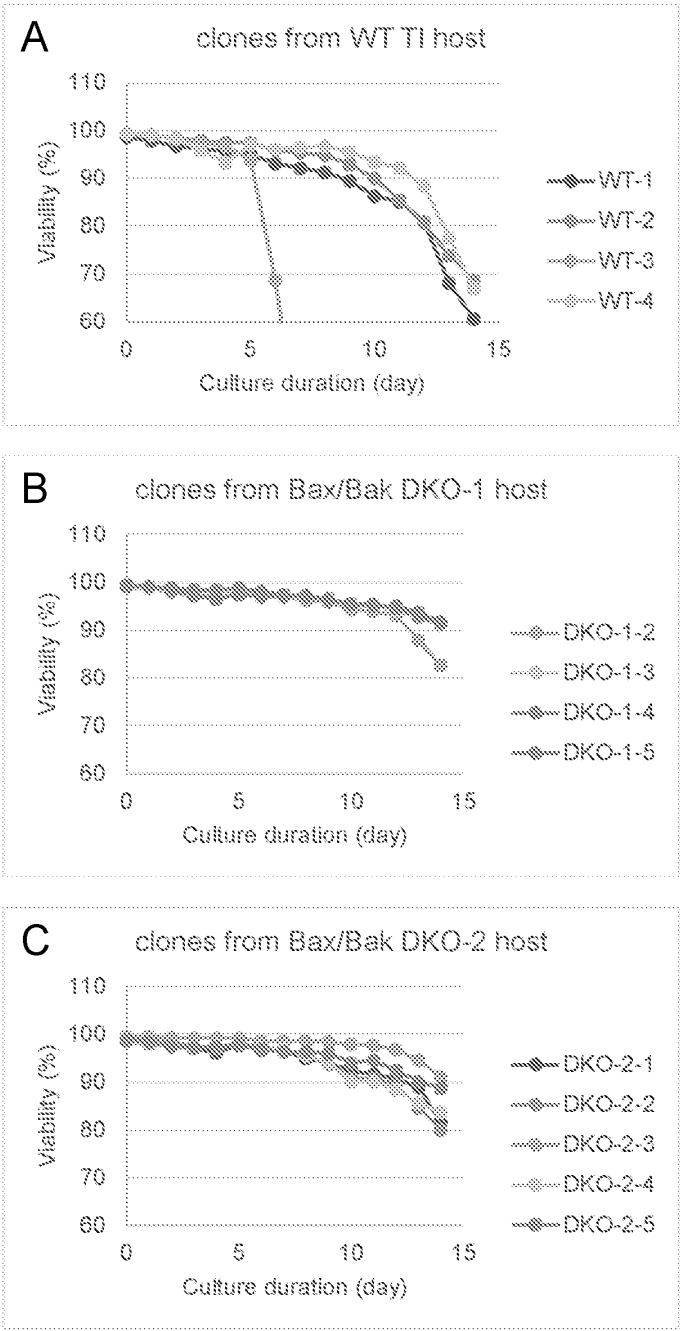
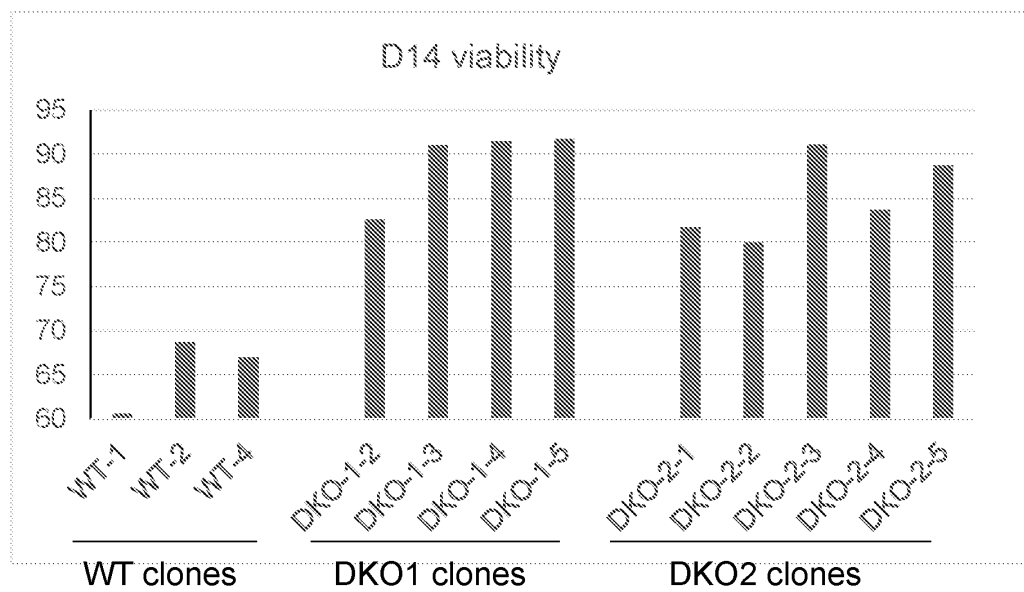


Figure 3A-3C

Figure 4



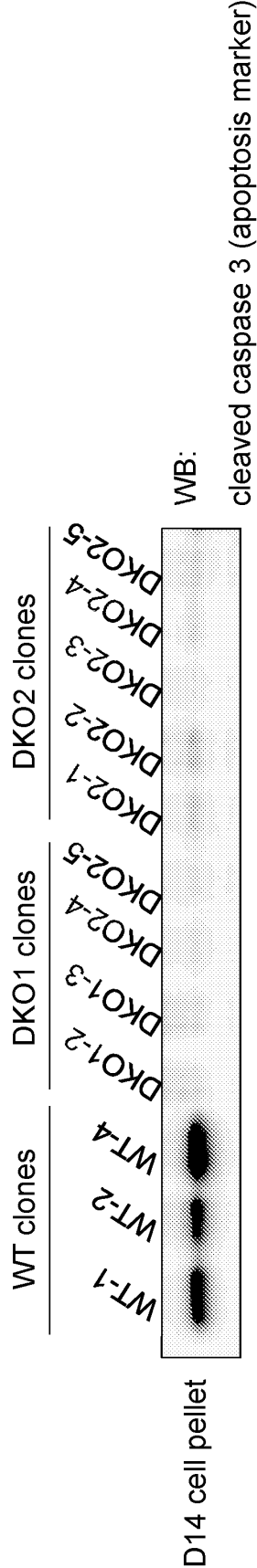


Figure 5

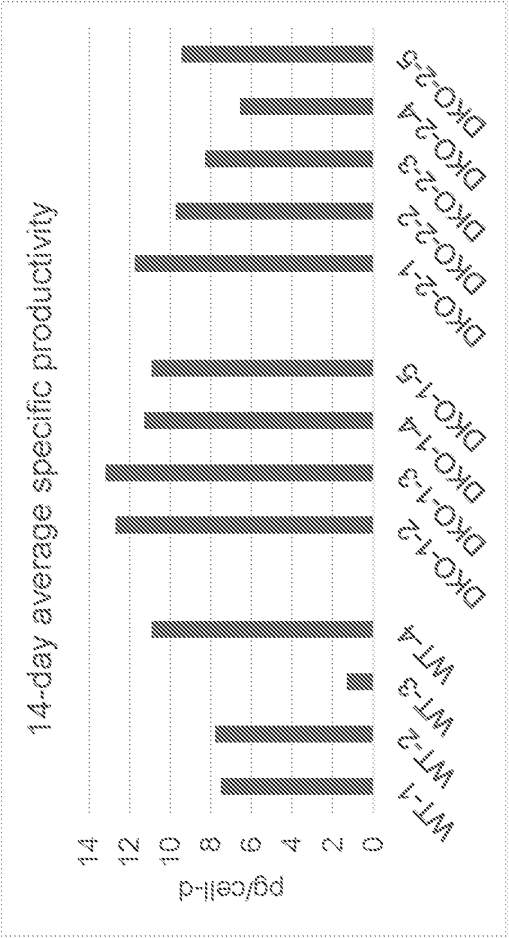


Figure 7

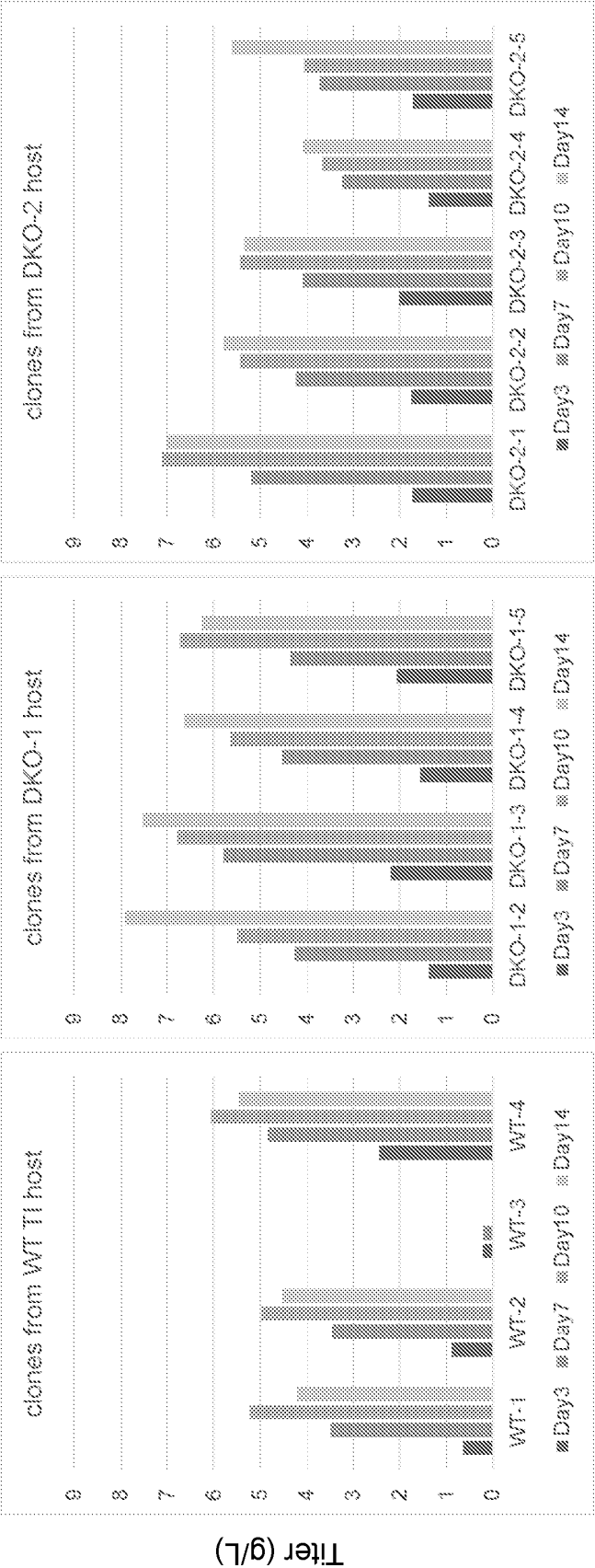


Figure 6

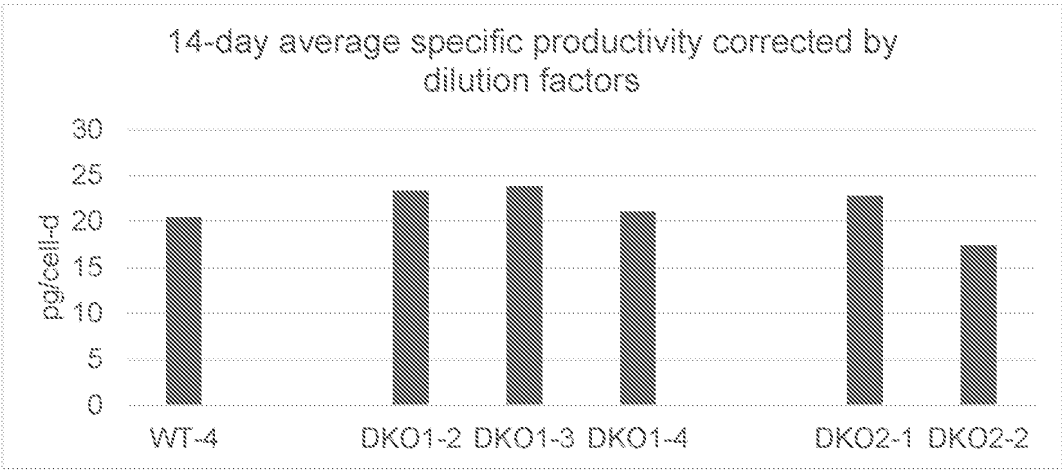


Figure 8

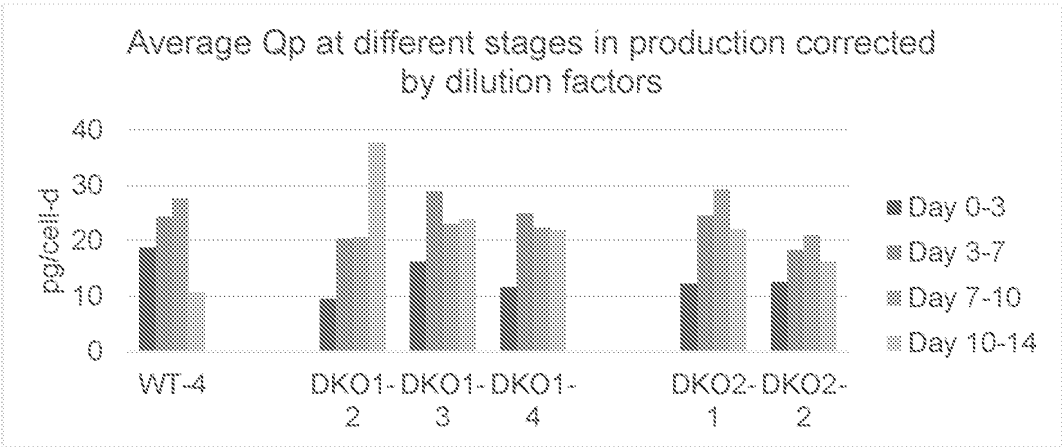


Figure 9

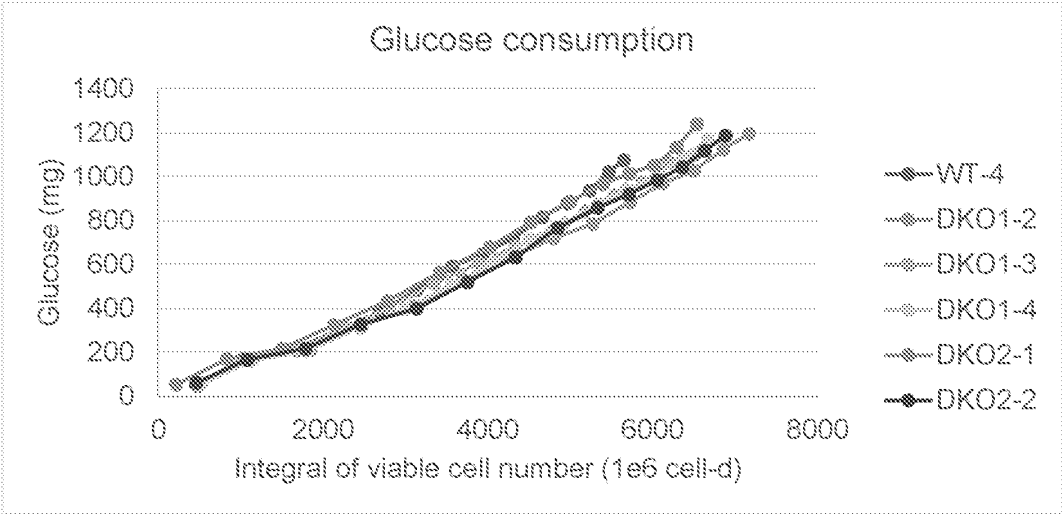


Figure 10

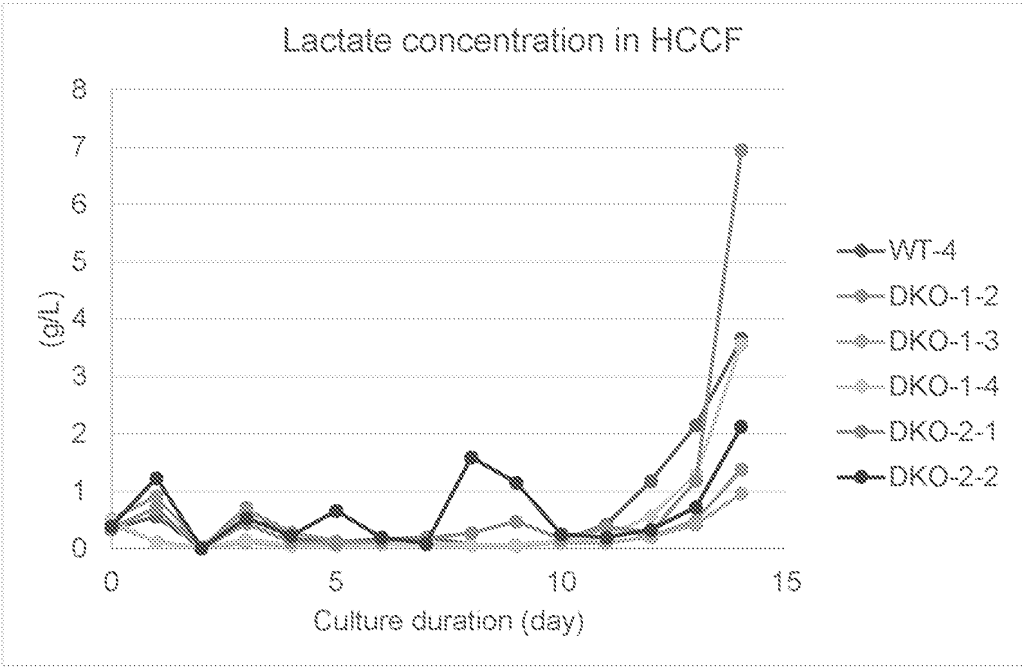


Figure 11

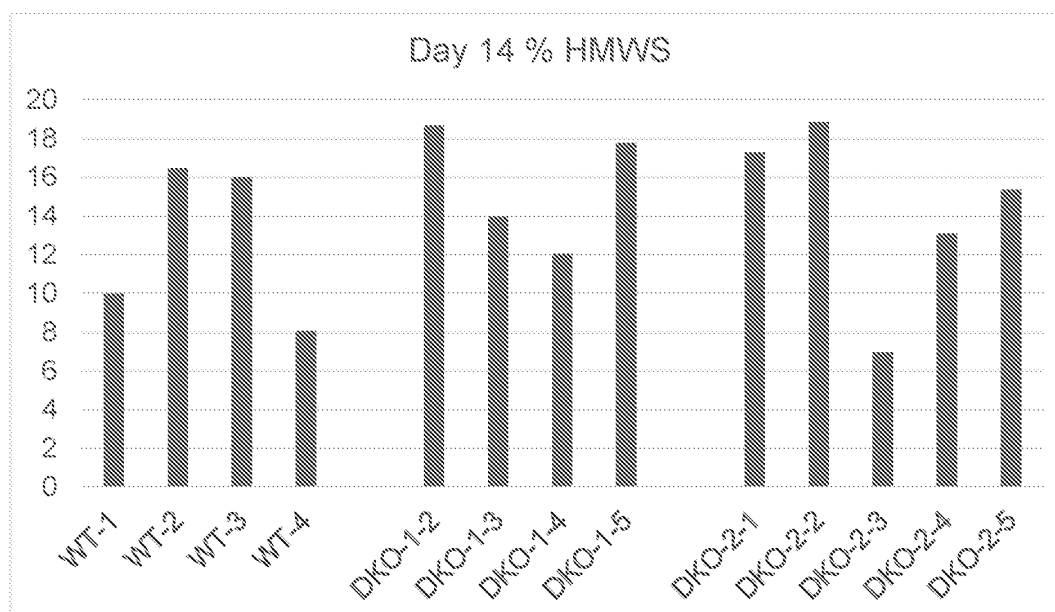


Figure 12

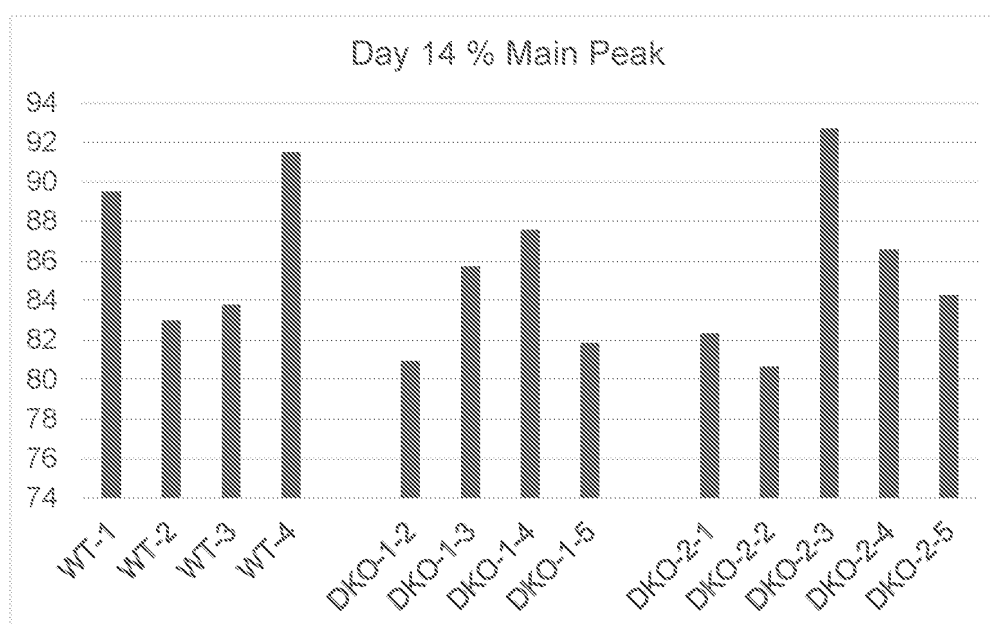


Figure 13

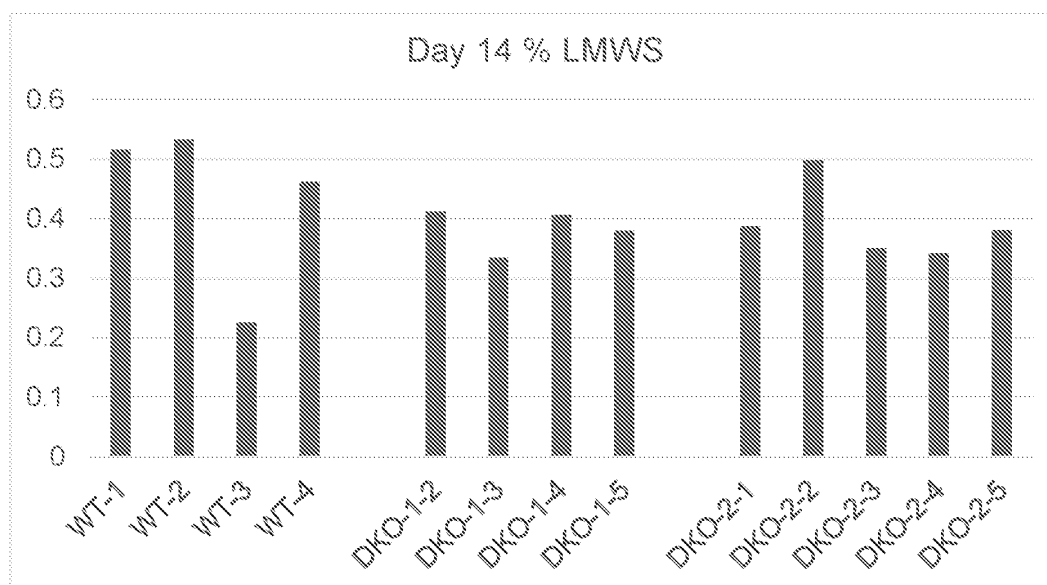


Figure 14

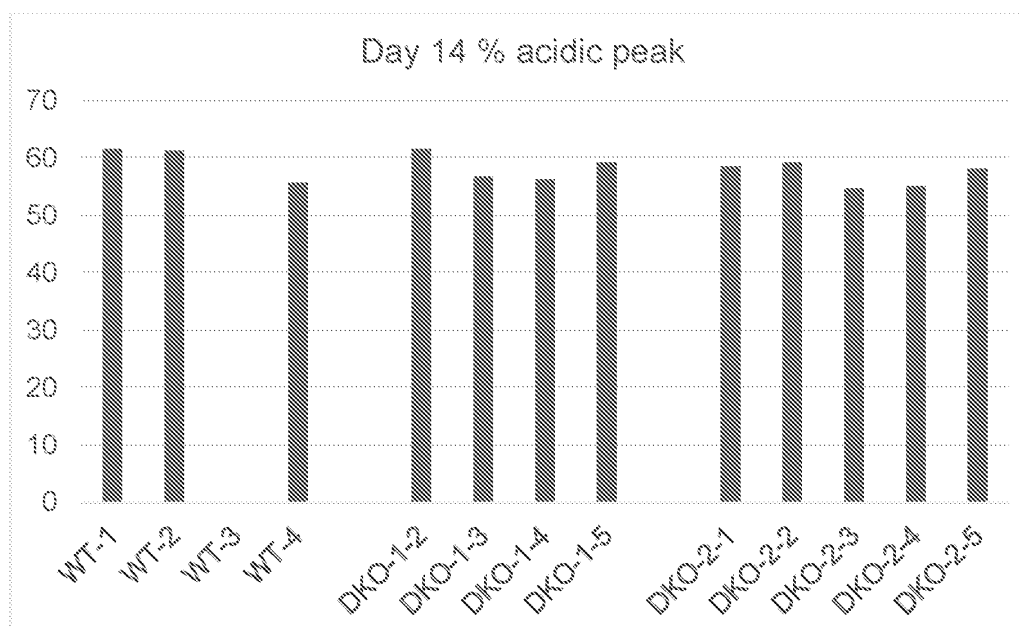


Figure 15

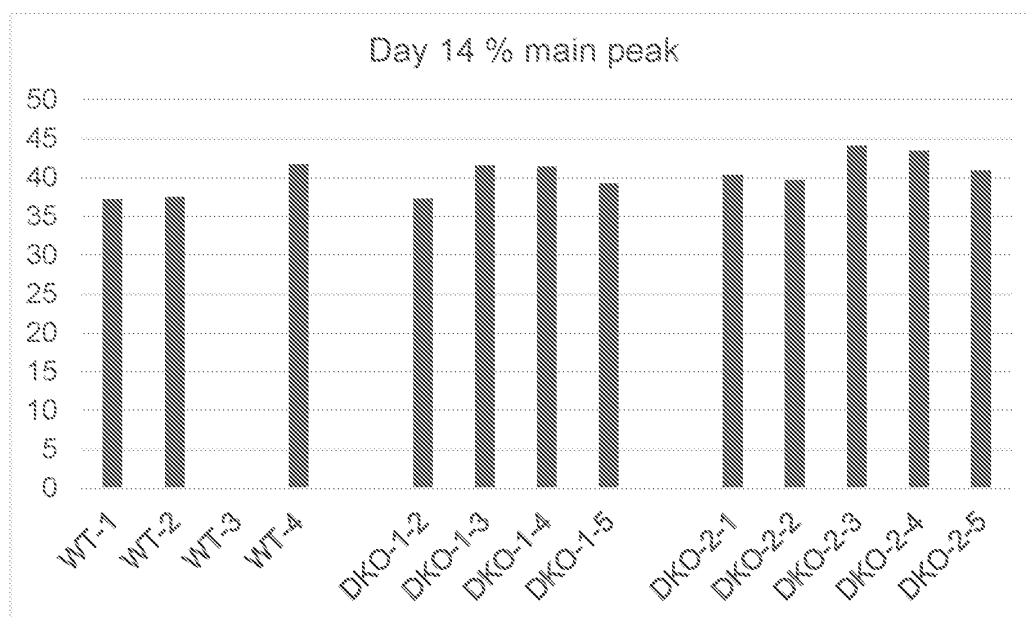


Figure 16

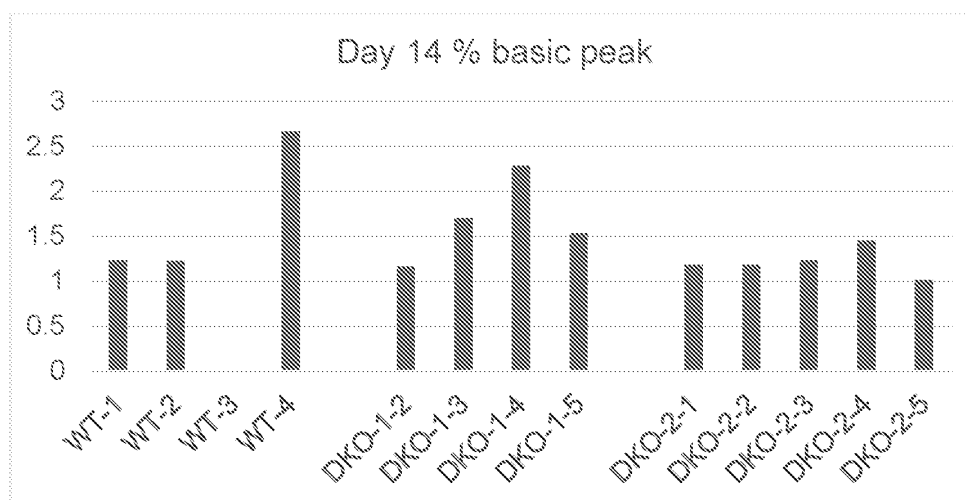
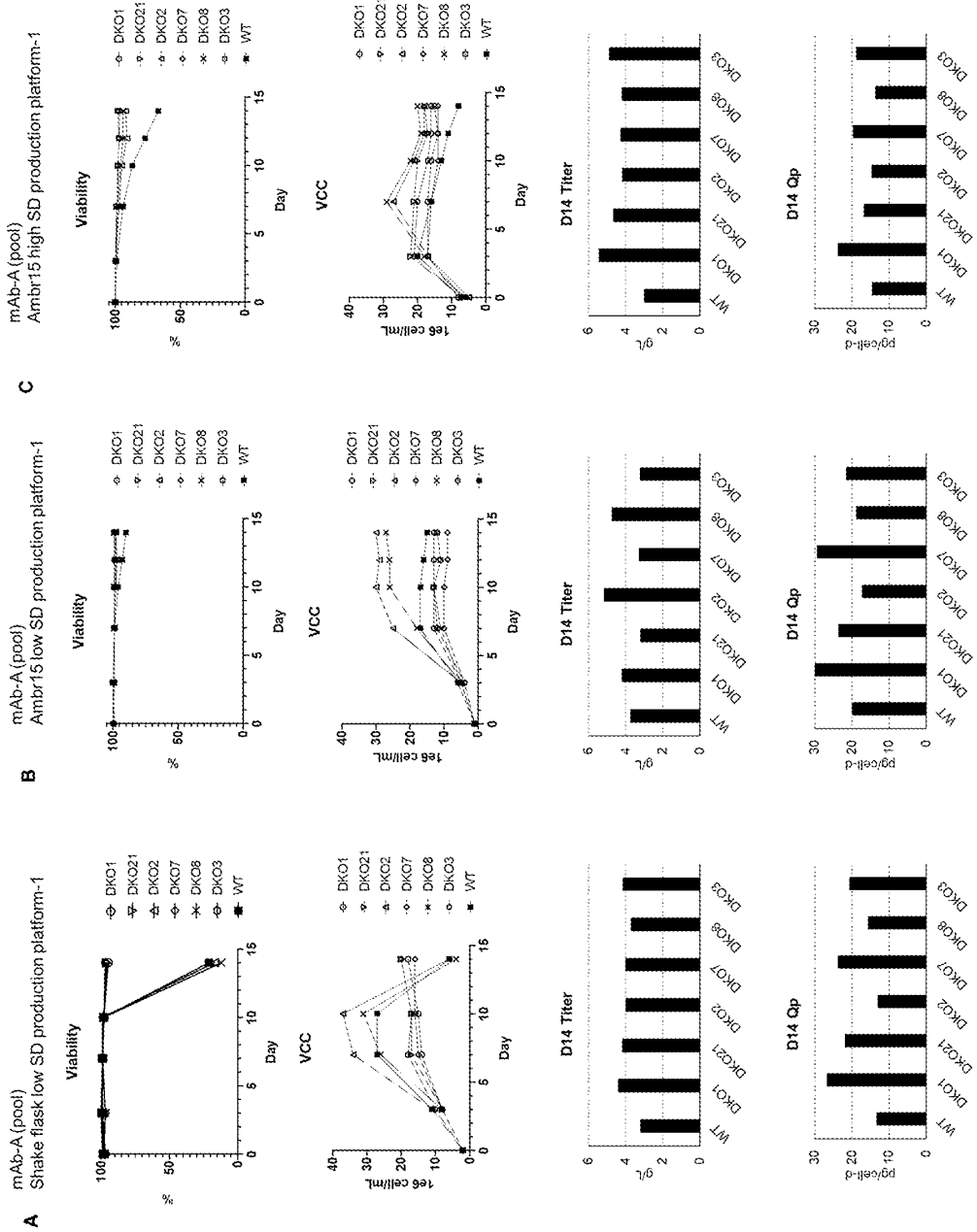


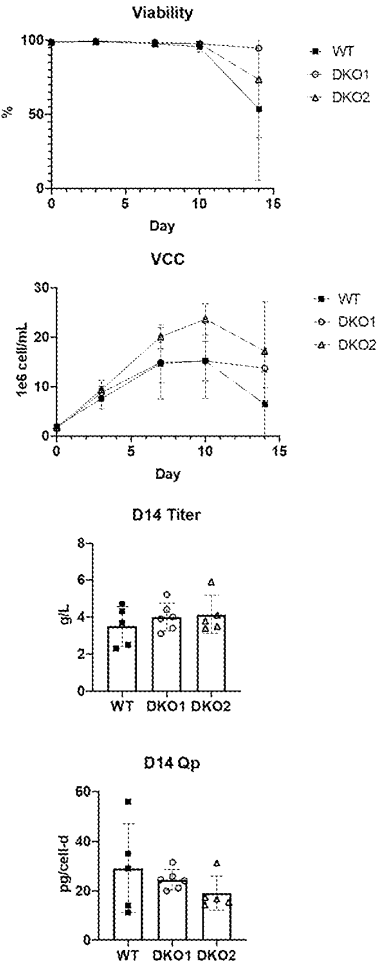
Figure 17

Figures 18A-18C



Figures 19A-19B

A mAb-A (SCCs)
shake flask low SD production platform-1



B mAb-A (SCCs)
Ambr15 intensified production platform-1

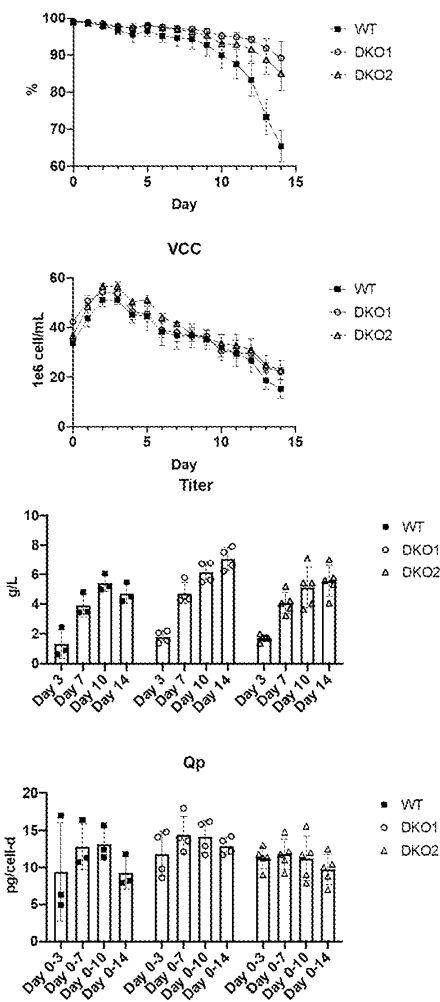
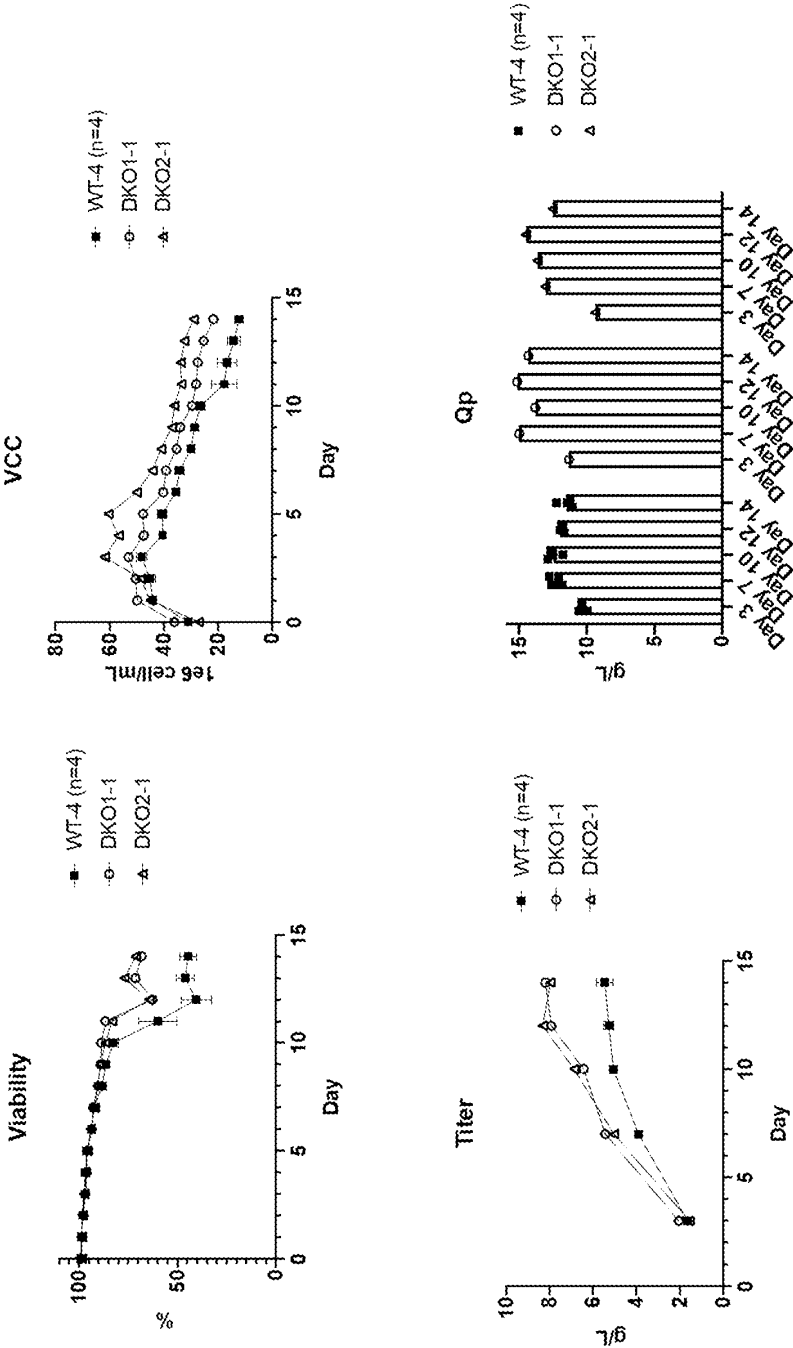


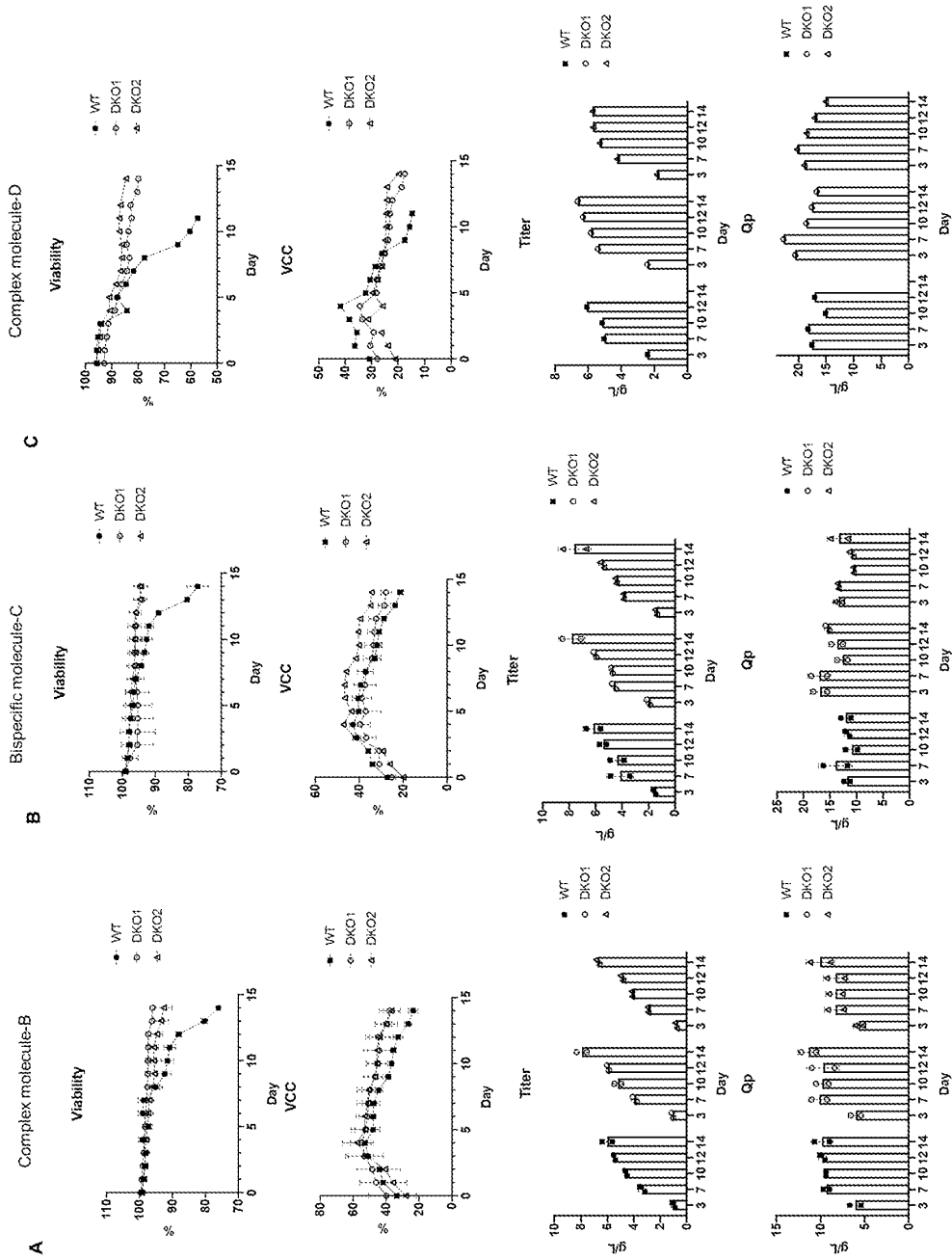
Figure 20

mAb-A (SCCs)
Ambr250 intensified production platform



Figures 21A-21C

Pools, Ambr15 intensified production platform



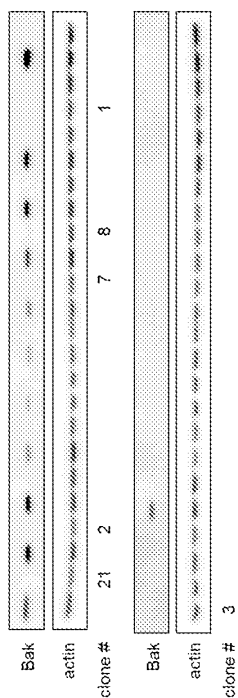
Figures 22A-22D

A Generation of Bax/Bak DKO host cell lines

Step 1: WT CHO host transfected with Bax gRNA.



Step 2: Bax KO clone 40 transfected with Bax gRNA.



C mAb-A (pool)

Ambr15 low SD production platform-1

	Aggregate	% Glycan			% Charge variants			
		Atuc	Man5	G1F	G0F	Acidic	Main	Basic
WT	9.9	3.0	1.4	36.3	56.1	43.5	53.5	2.9
DKO1	16.1	3.4	1.3	34.9	57.0	44.9	50.5	4.6
DKO21	8.1	2.5	0.9	30.8	62.7	41.8	52.7	5.5
DKO2	19.3	2.5	1.2	41.1	52.5	44.0	52.8	3.2
DKO7	12.9	3.9	1.7	31.2	60.4	41.2	54.8	4.1
DKO8	18.6	2.2	1.2	36.2	57.9	45.5	50.8	3.7
DKO3	7.6	2.3	0.8	33.6	59.9	40.4	55.0	4.7

B mAb-A (pool)

shake flask low SD production platform-1

Aggregate	%HMWS	% Glycan			% Charge variants			
		Afcu	Man5	G1F	G0F	Acidic	Main	Basic
WT	11.7	1.9	1.0	33.8	59.8	41.1	53.8	5.2
DK01	16.1	3.0	1.3	27.5	65.2	41.7	53.4	5.0
DK02 ¹	9.8	2.6	1.1	30.5	62.8	40.1	55.1	4.9
DK02	17.4	3.0	1.5	38.6	54.1	41.8	53.5	4.7
DK07	13.5	3.8	1.8	28.8	63.1	43.1	53.1	3.8
DK08	15.7	4.6	2.2	37.2	52.9	41.2	54.0	4.9
DK03	8.9	2.2	0.9	31.3	62.5	40.7	56.3	4.0

D mAb-A (pool)

Ambr15 high SD production platform-1

	Aggregate	% Glycan				% Charge variants		
		Alac	Man5	GIF	GOF	Acidic	Main	Basic
WT	8.7	3.3	2.0	39.7	52.6	48.4	47.6	4.0
DK01	19.4	5.3	2.6	39.2	50.9	54.4	42.6	3.0
DK021	13.5	4.5	2.4	37.6	53.2	46.9	48.0	3.1
DK02	14.5	4.6	3.3	35.4	56.8	46.5	47.5	6.0
DK07	16.5	7.3	4.1	33.8	54.0	52.0	45.3	2.7
DK08	14.0	3.9	2.7	31.4	61.6	45.9	47.4	6.7
DK03	13.2	4.0	2.0	37.7	54.0	46.9	49.8	3.3

Figure 23A-23C

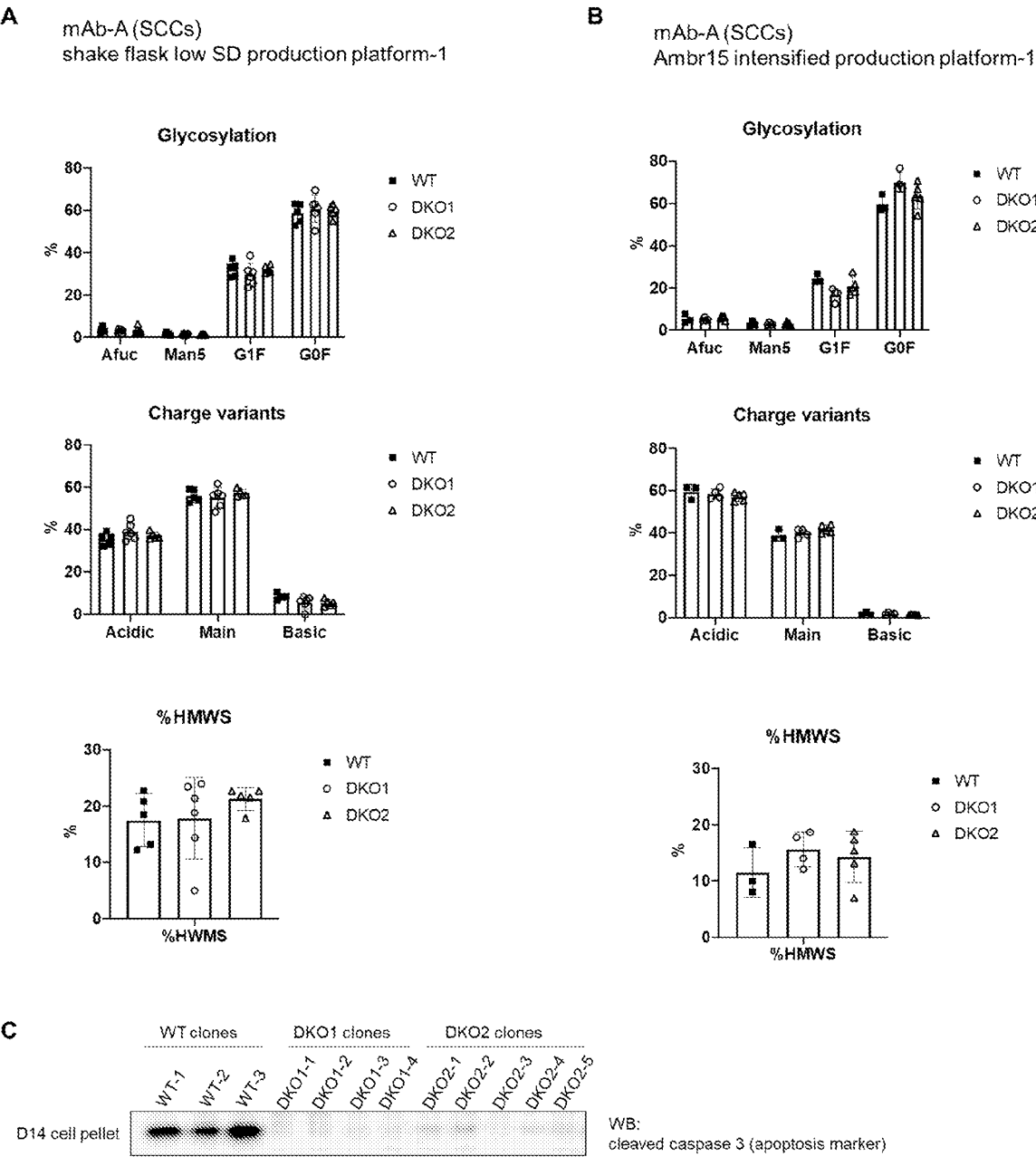
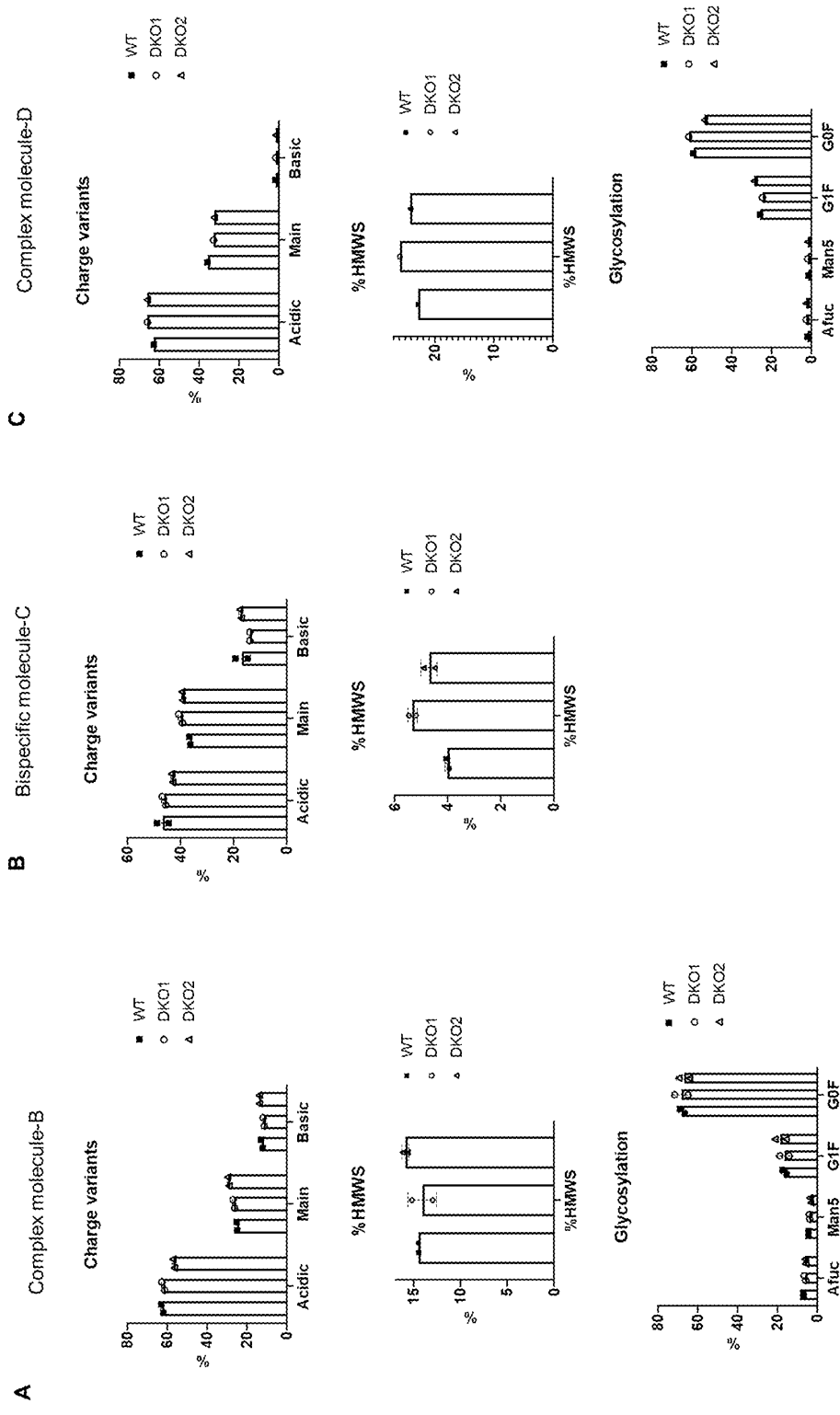


Figure 24A-24C



Figures 25A-25D

A Overview of gRNA/CRISPR mediated targeting of Bax and Bak genes in pool of antibody expressing cells