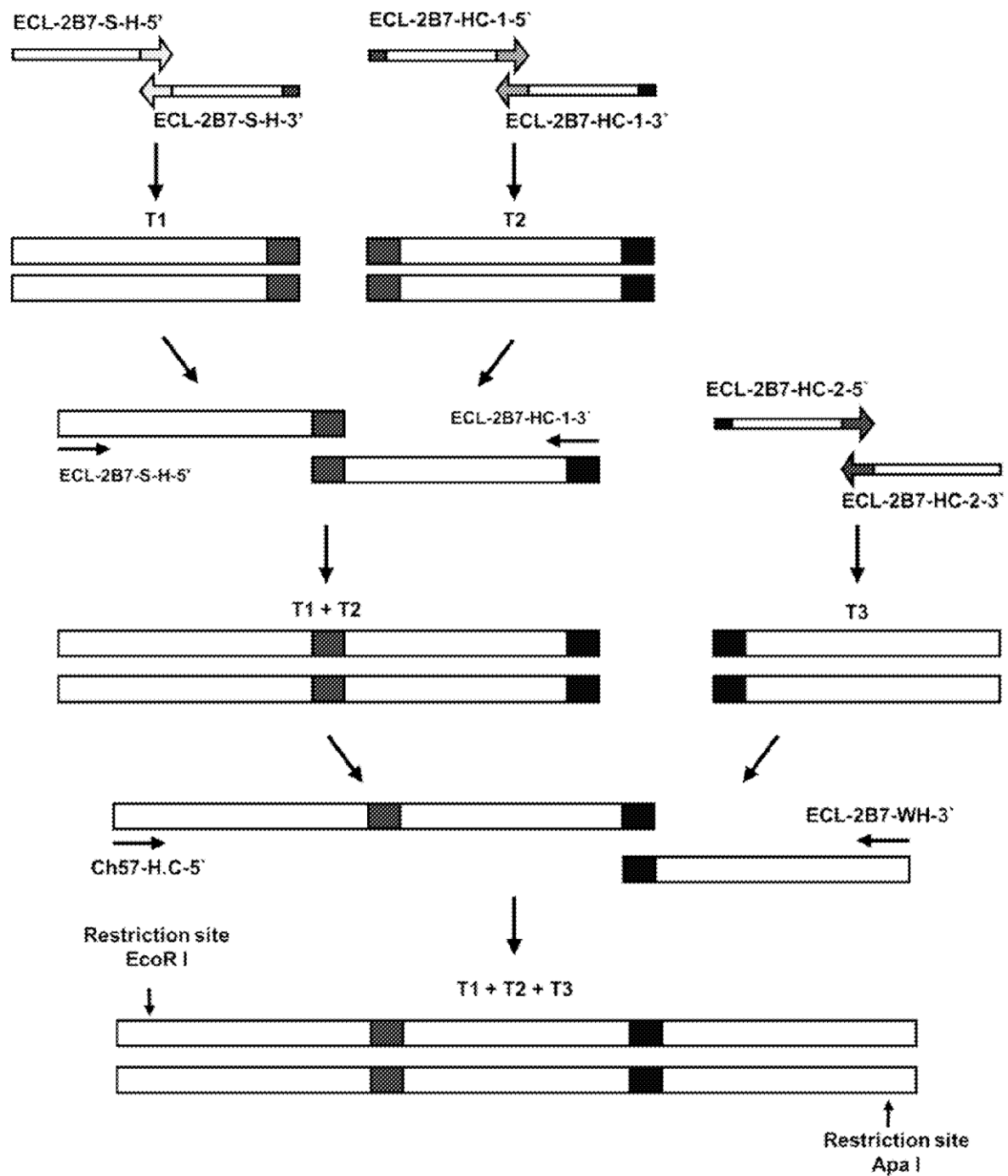
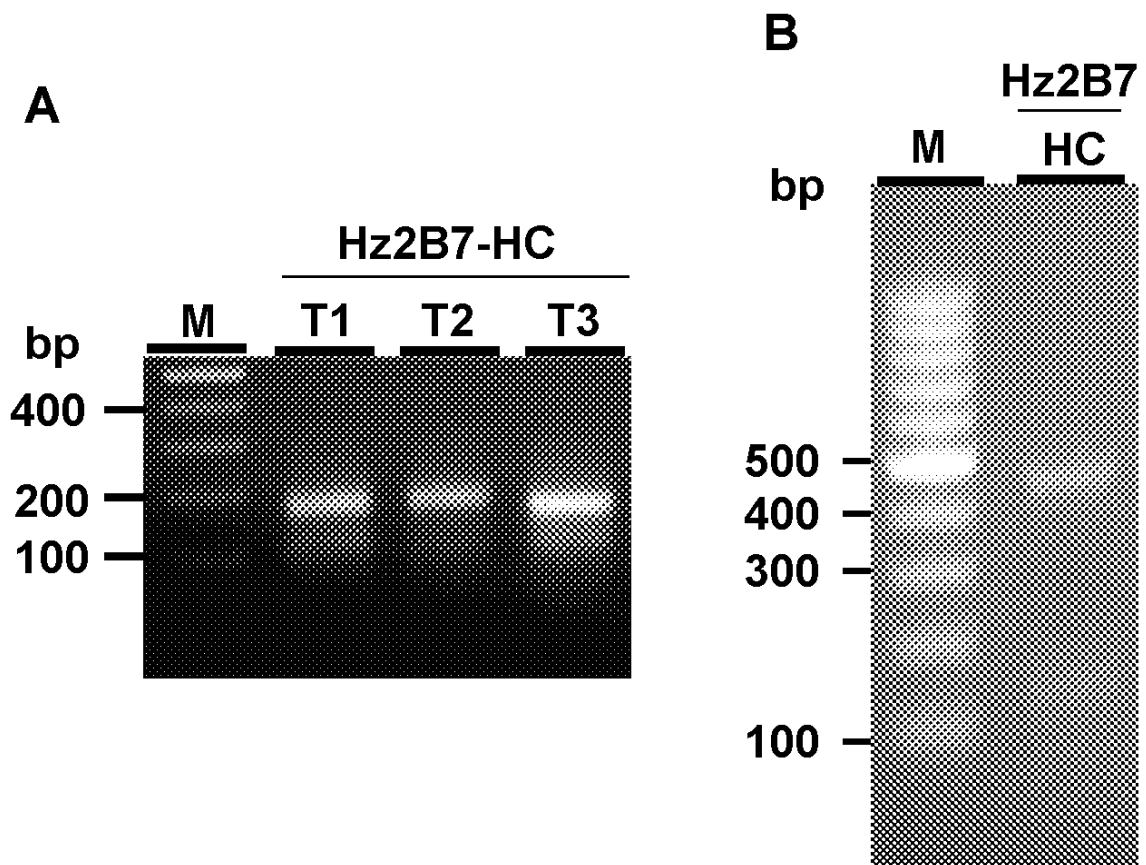


【DRAWINGS】

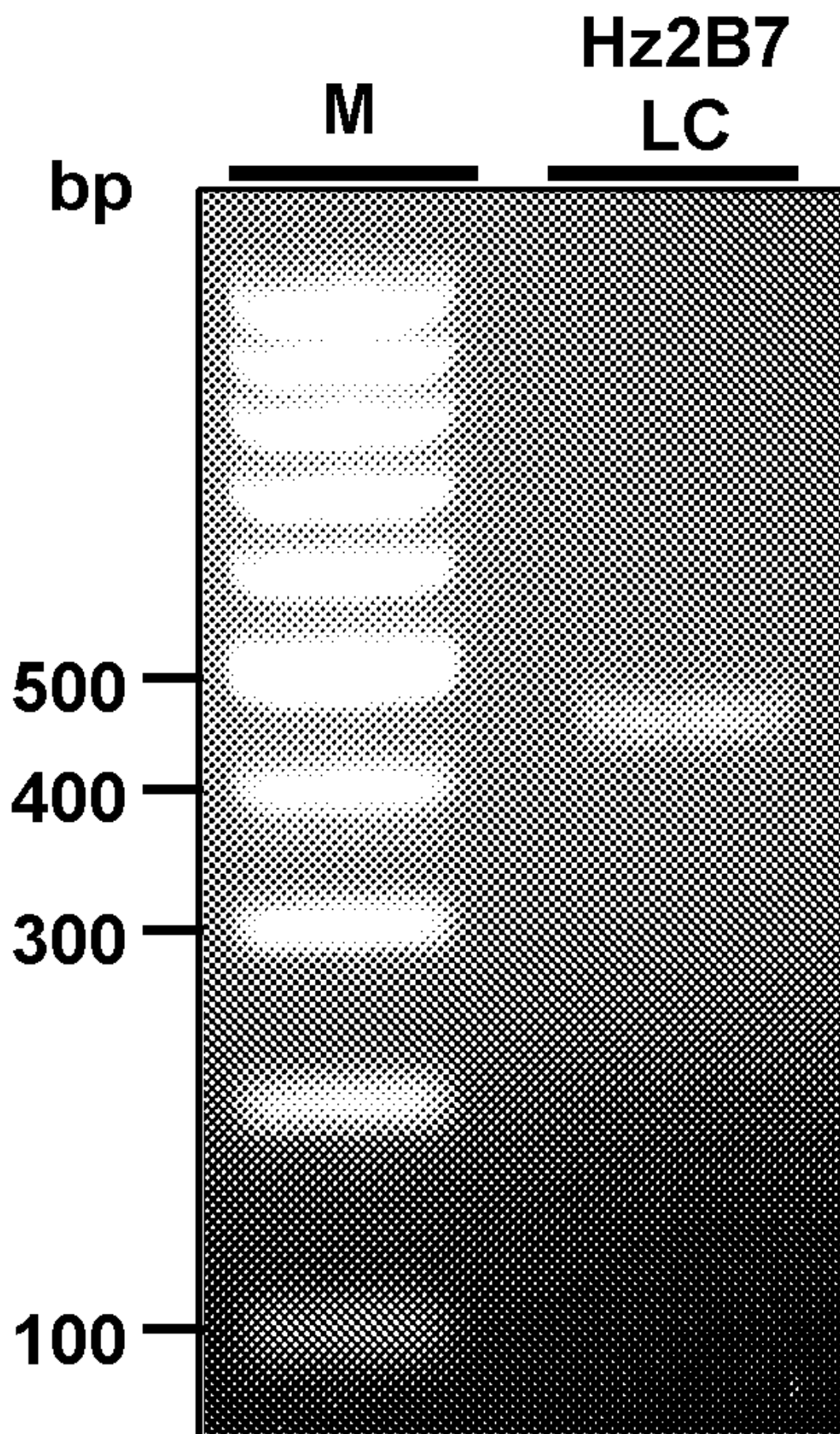
【Figure 1】



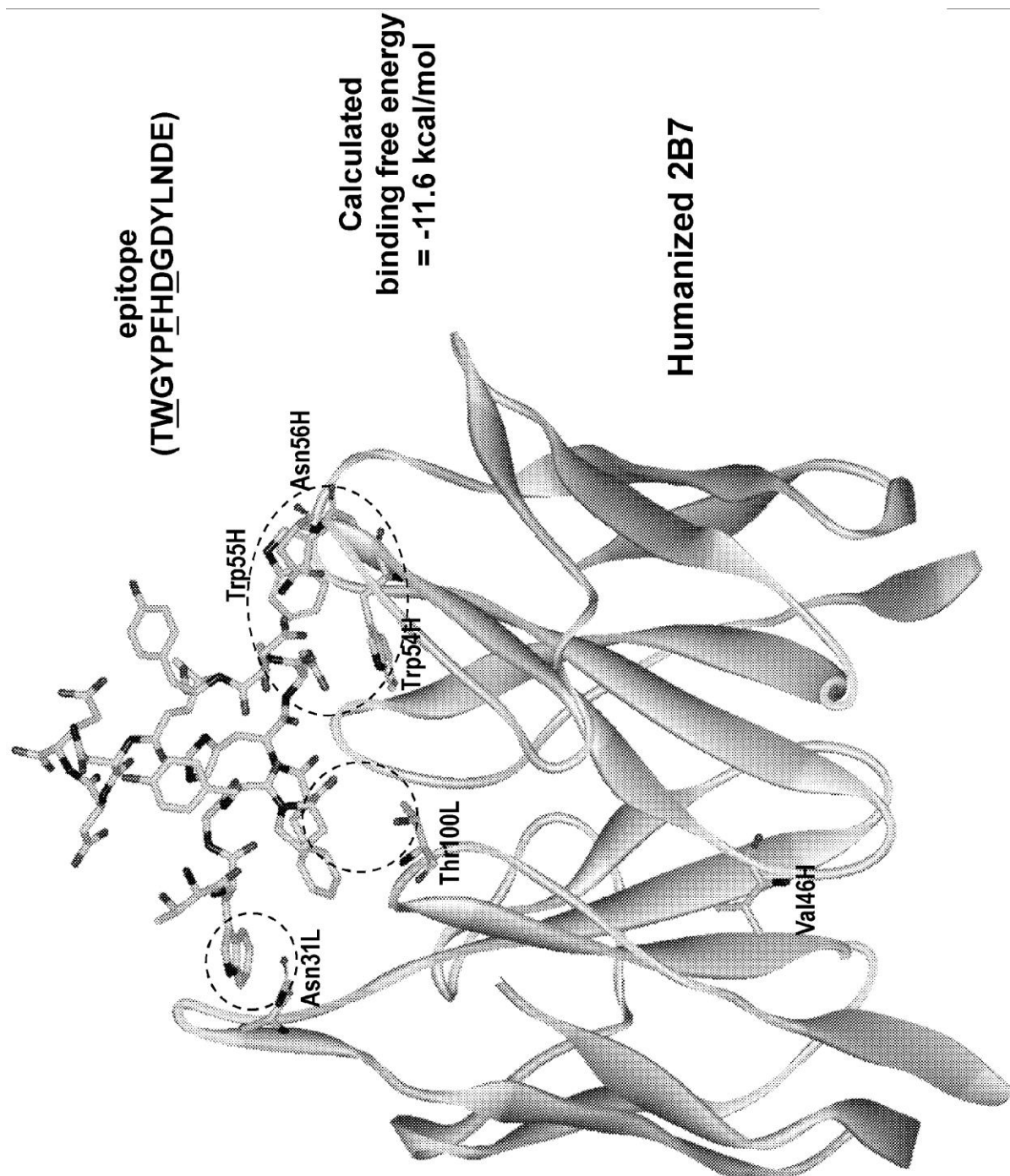
【Figure 2】



【Figure 3】



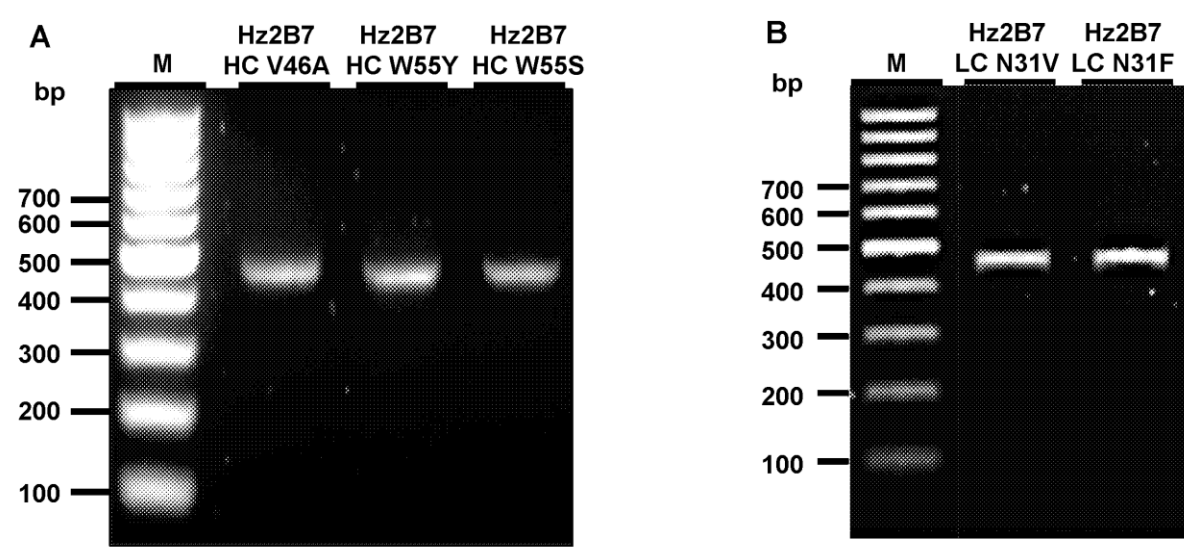
【Figure 4】



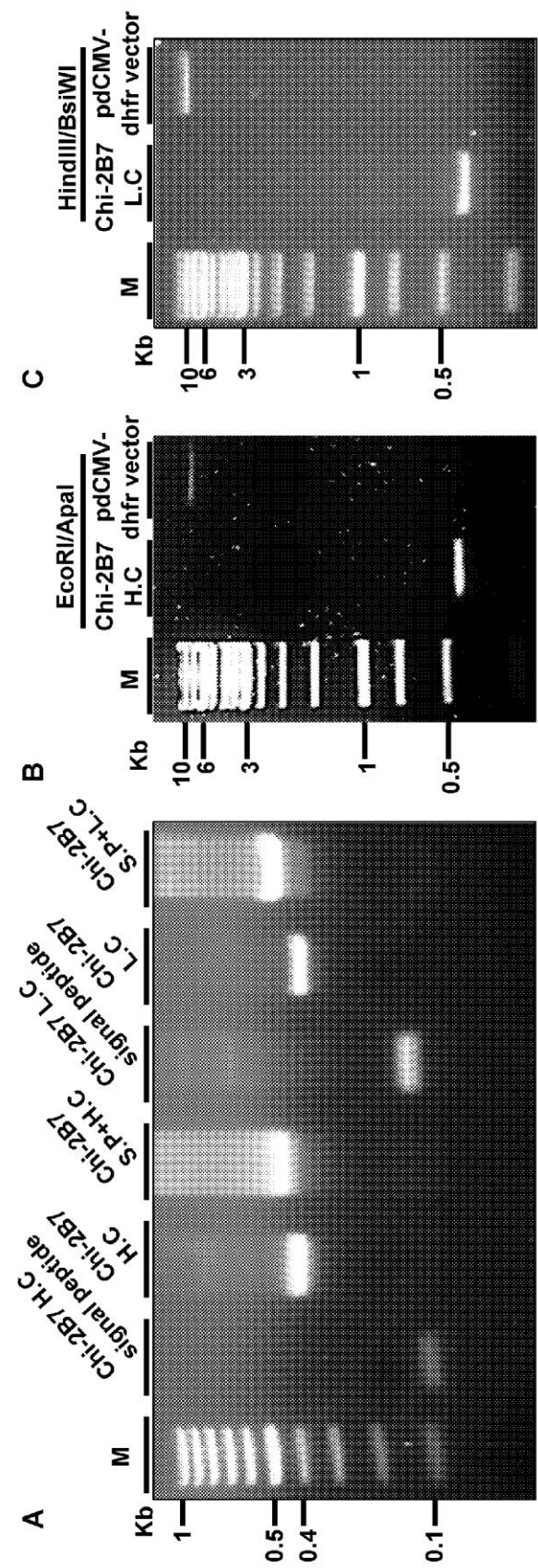
【Figure 5】



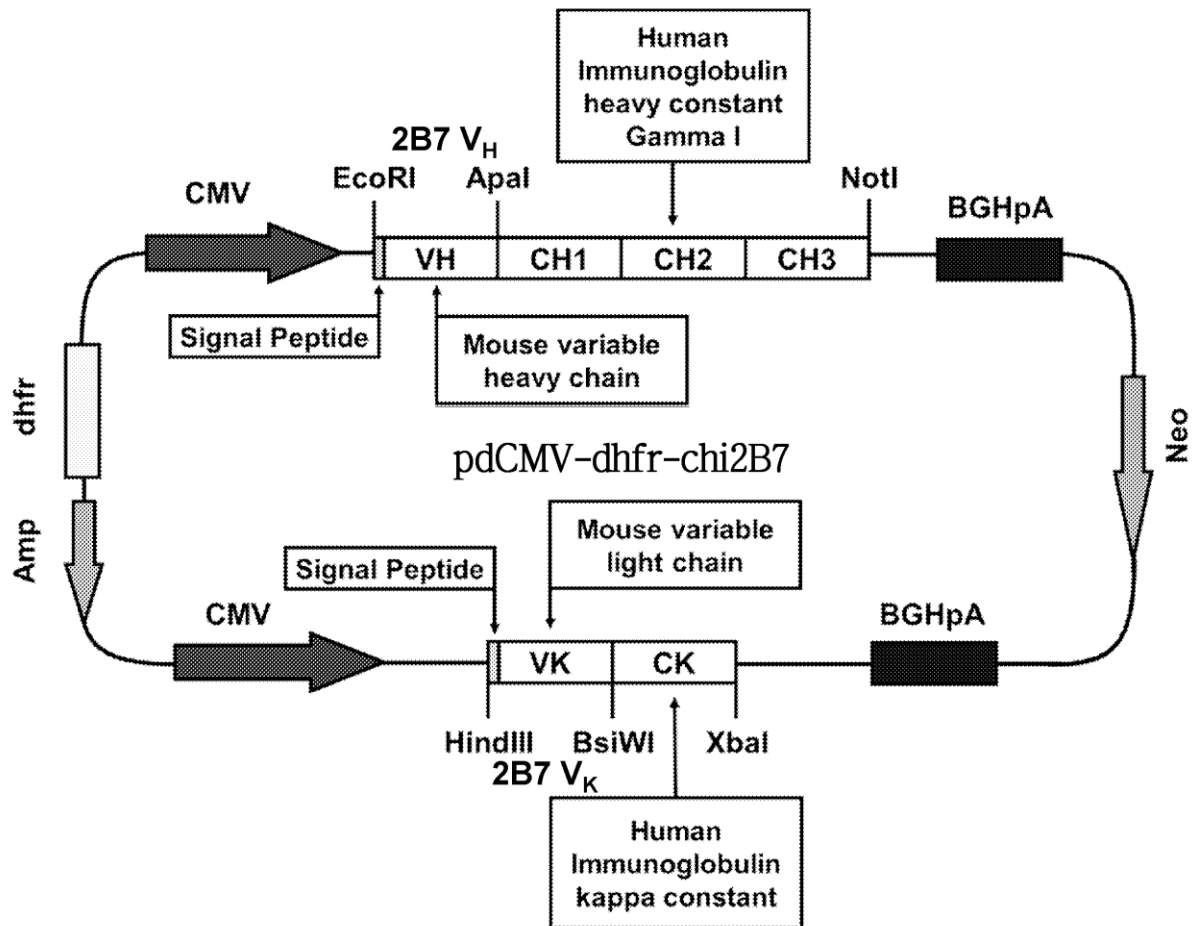
【Figure 6】



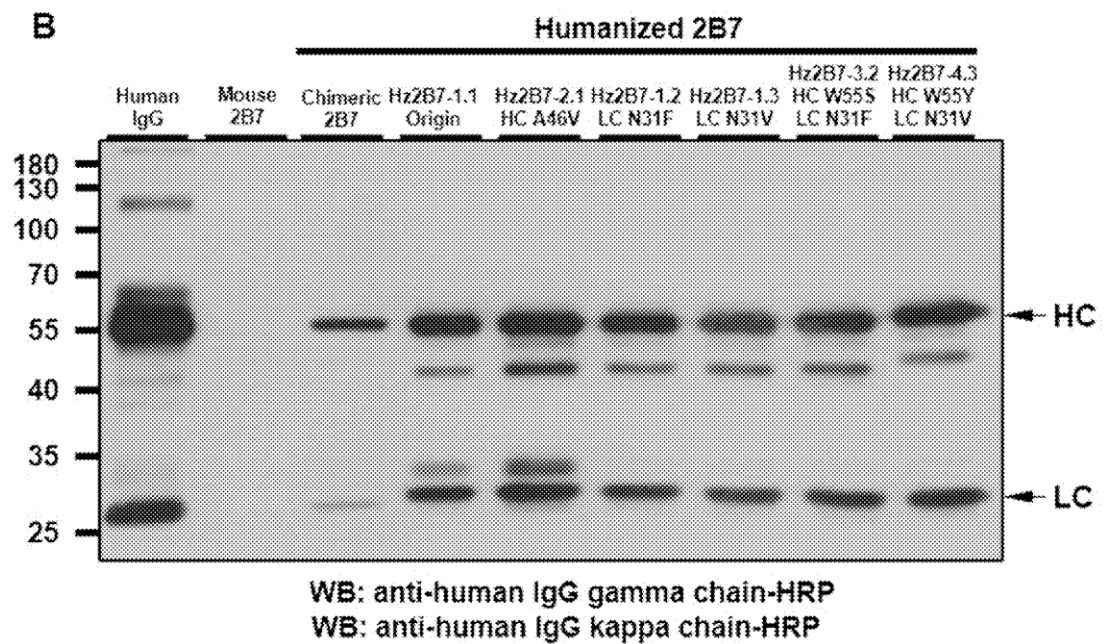
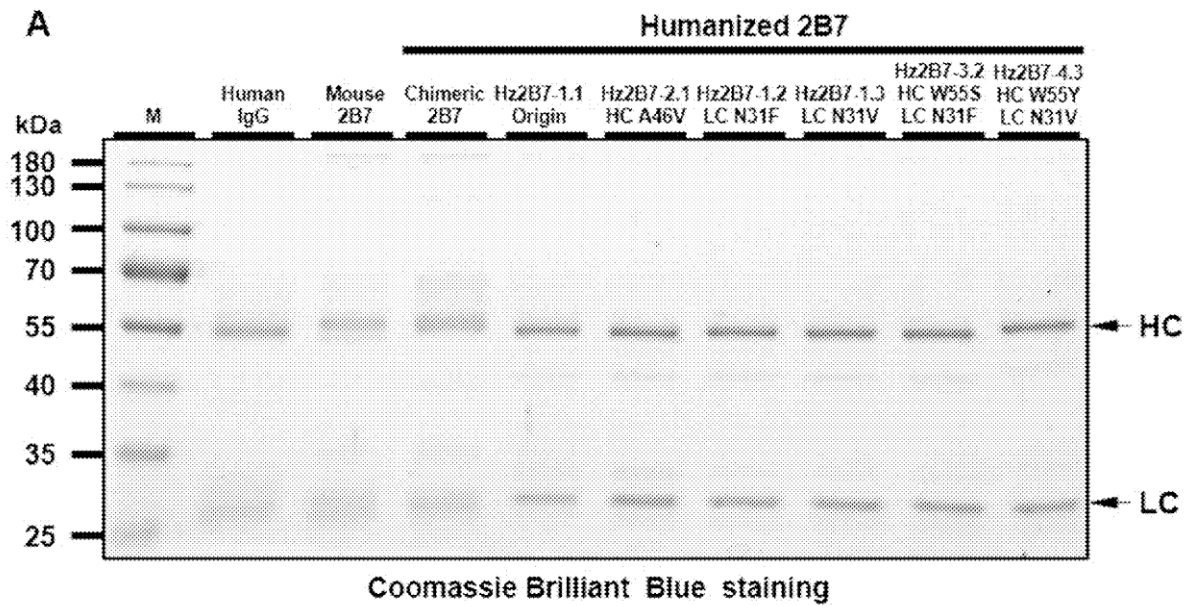
【Figure 7】



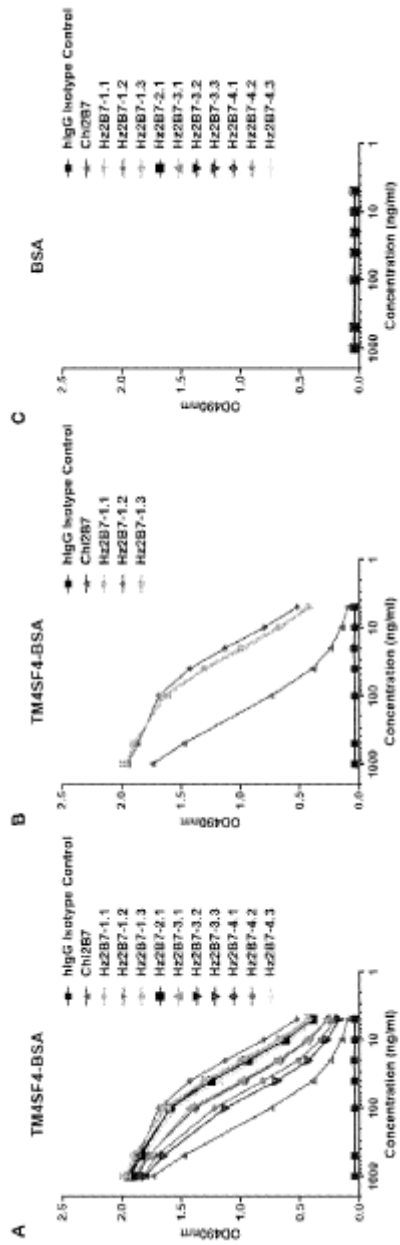
【Figure 8】



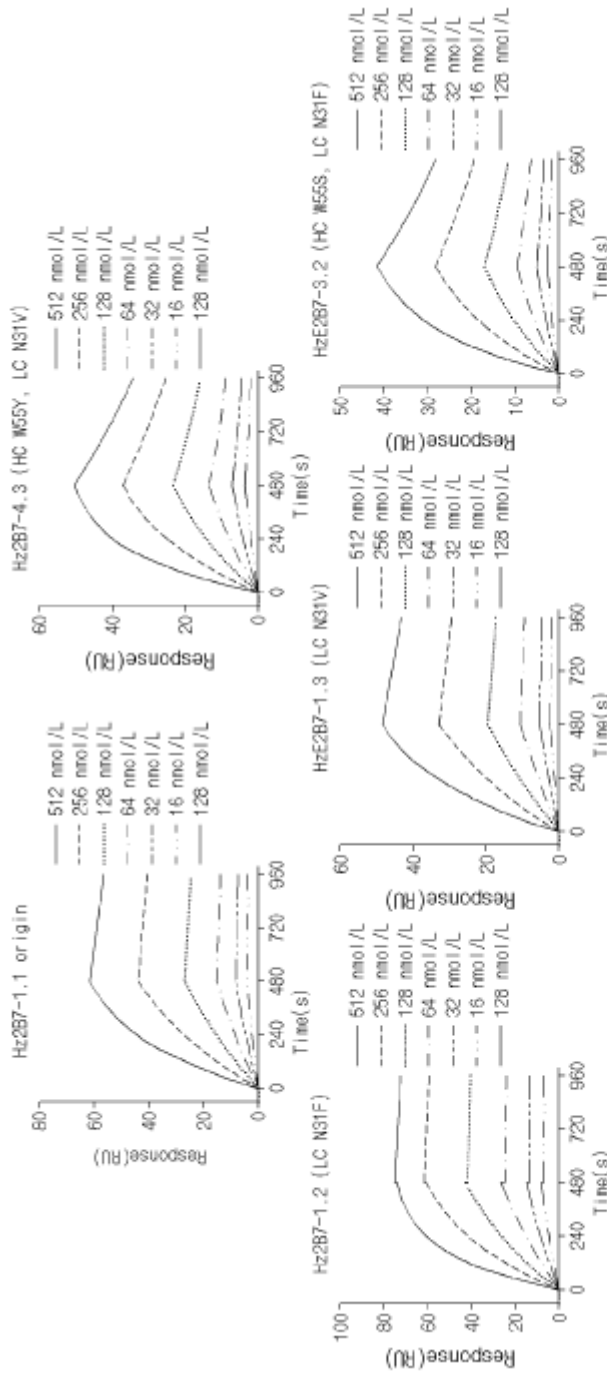
【Figure 9】



【Figure 10】



【Figure 11】



amb	Hz2B7-1.1 origin	Hz2B7-1.2 LC N31F	Hz2B7-4.3 HC W55Y LC N31V	Hz2B7-1.3 LC N31V	Hz2B7-3.2 HC W55S LC N31F
k_{on} (1/Ms) ^{1,2}	7.523E+03	1.259E+04	9.585E+03	6.469E+03	7.080E+03
k_{off} (1/s)	1.837E-04	7.590E-05	7.827E-04	2.232E-04	7.921E-04
K_D (M)	2.442E-08	6.030E-09	8.165E-08	3.542E-08	1.119E-07
Rmax (RU)	76.30	81.32	63.53	65.36	58.37
χ^2 (RU ²)	0.252	1.78	0.352	0.114	0.115
U-value	2	12	1	1	1

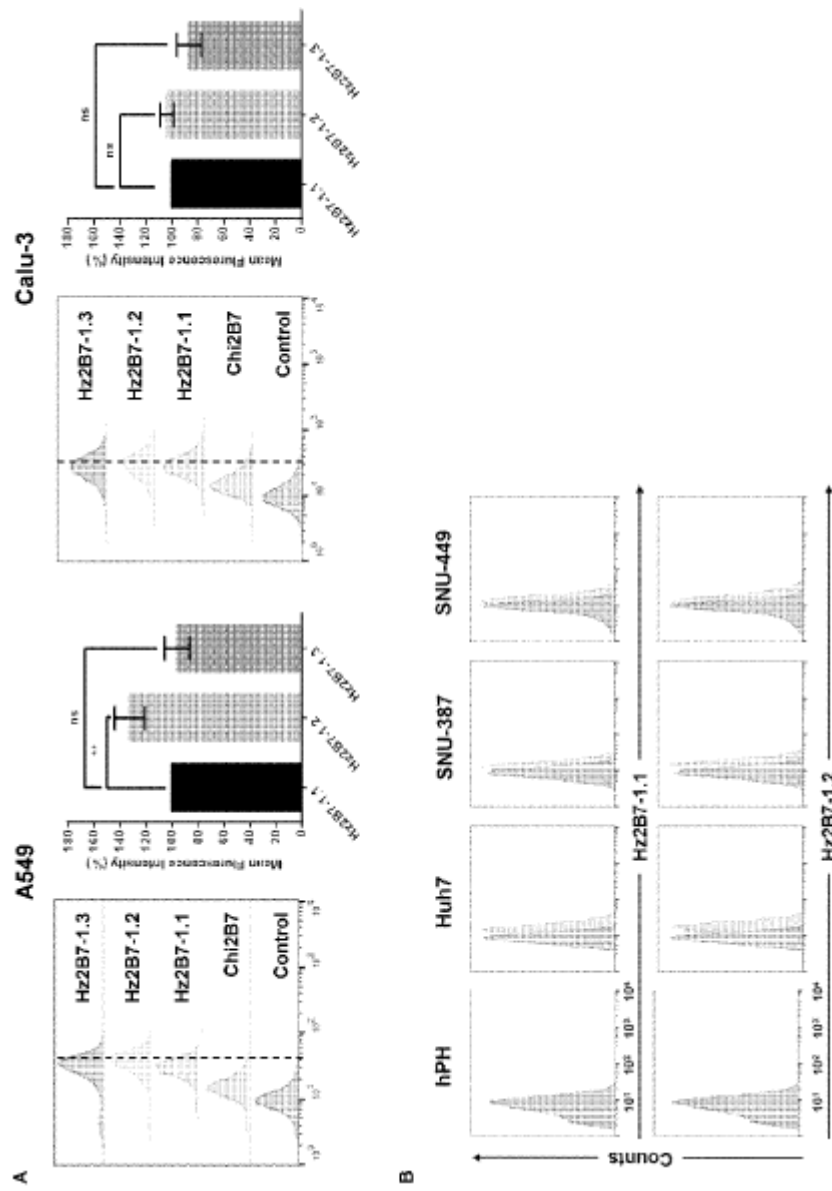
¹Sensor Chip: Biotin-TMSF4(126-140) peptide captured SA sensor

² k_{on}/k_{off} model: 1:1 binding mass transfer.

³ $\chi^2 < 10\%$ of Rmax is significant for the experimental data

⁴The U-value: an estimate of the uniqueness of the calculated values for rate constants and Rmax. If the U-value is below about 15 the parameter values are not significantly correlated.

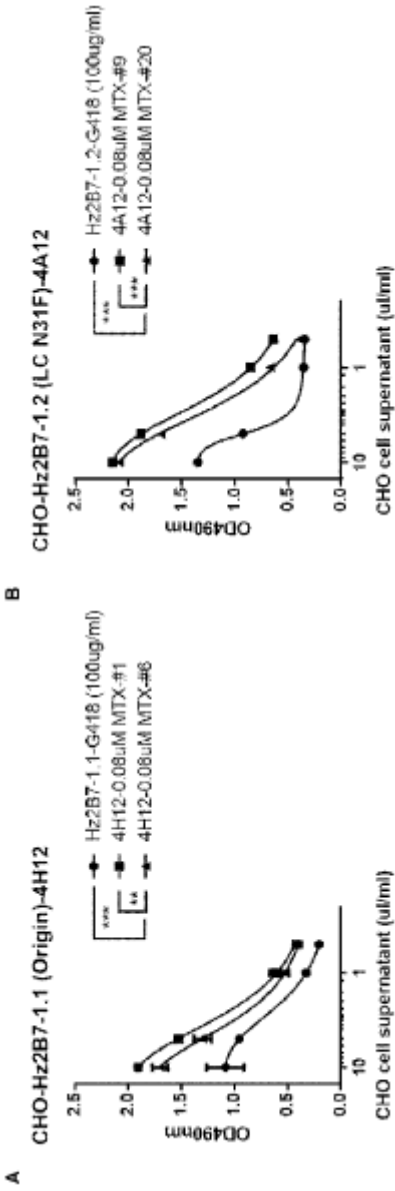
【Figure 12】



【Figure 13】

H2B7-1.1 (origin)	Clone No.	PC	NC	1A6	3A12	3H10	3H12	4A12	4B12	4D7	4H12		
	OD 490nm	2.7	0.05	0.99	2.72	0.99	2.79	2.76	2.74	1.23	2.73		
H2B7-1.2 (LC N31F)	Clone No.	PC	NC	3C3	4A9	4A12	4B9	4C7	4H12	5B12	6G10	7A8	7E3
	OD 490nm	2.7	0.05	0.25	2.75	2.81	2.77	2.83	2.79	0.62	1.7	1.78	0.12

【Figure 14】



【Figure 15】

CHO-DG44			0.08μM MTX resistant clone							
Hz2B7 stable cell line			G418 (100μg/ml)							
Hz2B7-1.1 (origin)	4H12	Clone No.	2.8μg	#1	#2	#3	#4	#5	#6	#7
		Antibody Productivity (μg/10 ⁶ cells/24hr)		10.8μg	6.1μg	5.1μg	5.5μg	4μg	6.4μg	3.4μg
Hz2B7-1.2 (LC N31F)	4A12	Clone No.	2.5μg	#4	#5	#8	#9	#12	#20	
		Antibody Productivity (μg/10 ⁶ cells/24hr)		4.8μg	4.2μg	3.8μg	14.2μg	2.2μg	7.9μg	

【Figure 16】

