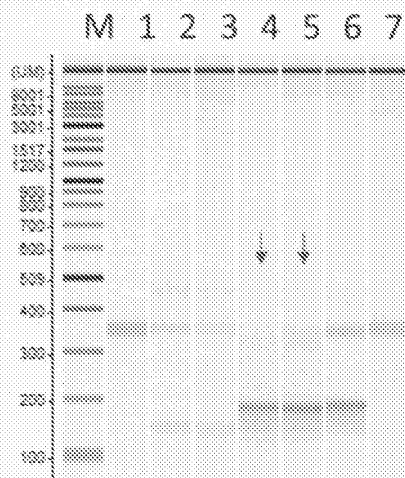
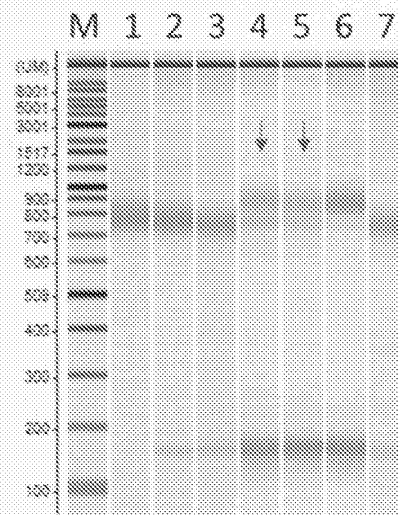


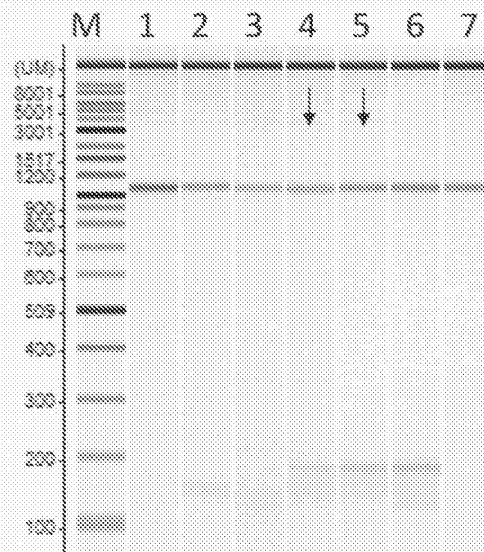
[図1]

	Cascade (hEMX1)	Cas3	ドナーDNA	二本鎖DNA断片 (60bp)
1	-	○	○	-
2	○	-	○	-
3	○	○	○	-
4	○	○	○	AAG + EMX1-標的配列
5	○	○	○	ATG + EMX1-標的配列
6	○	○	○	CCA + EMX1-標的配列
7	陰性対照		○	

直鎖状一本鎖DNA
(1kb lssDNA)環状一本鎖DNA
(M13 ssDNA)

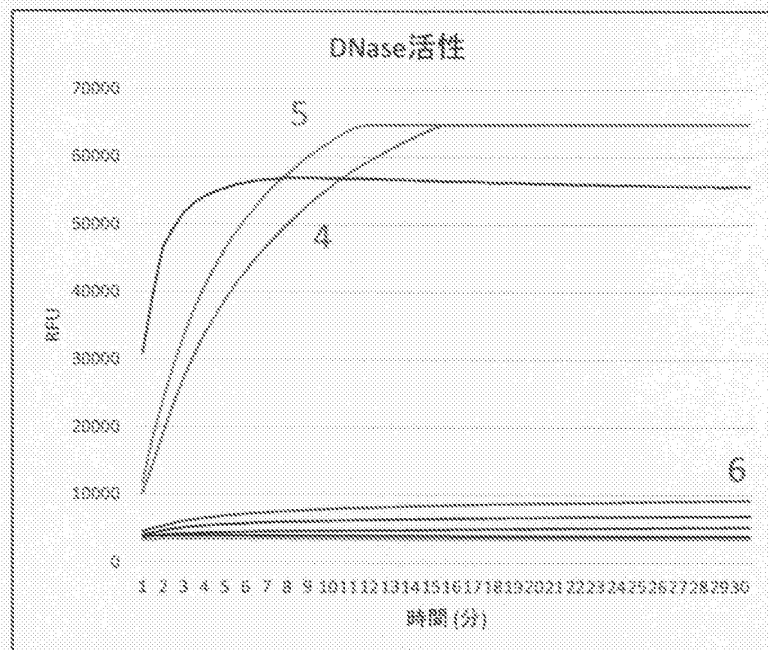
[図2]

	Cascade (hEMX1)	Cas3	二本鎖DNA断片 (60bp)
1	-	○	-
2	○	-	-
3	○	○	-
4	○	○	AAG + EMX1-標的配列
5	○	○	ATG + EMX1-標的配列
6	○	○	CCA + EMX1-標的配列
7	陰性対照		

二本鎖DNA
(pBlueScript)

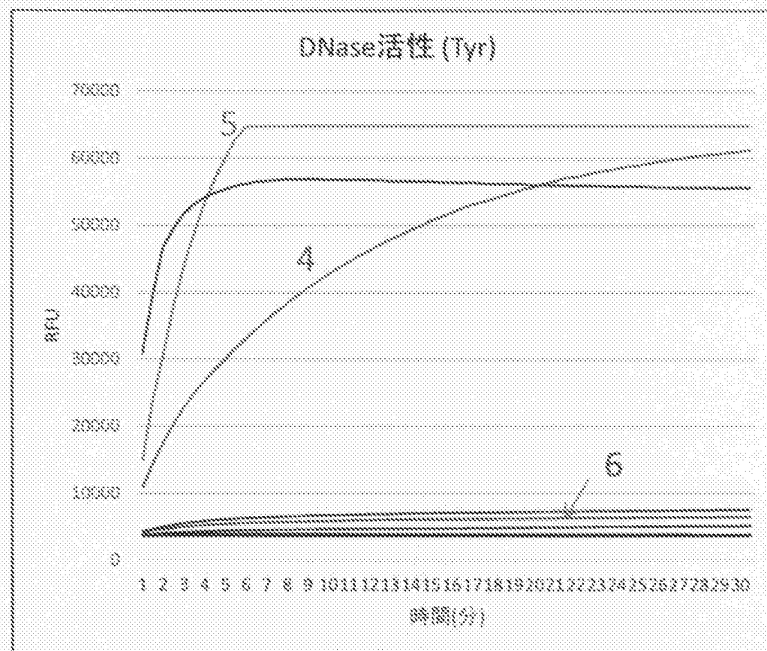
[圖3]

	Cascade (hEMX1)	Cas3	二本鎖DNA断片 (50bp)
1	-	○	-
2	○	-	-
3	○	○	-
4	○	○	AAG + 標的配列
5	○	○	ATG + 標的配列
6	○	○	CCA + 標的配列
7	陽性对照 (DNaseI)		
8	陰性对照		



[圖4]

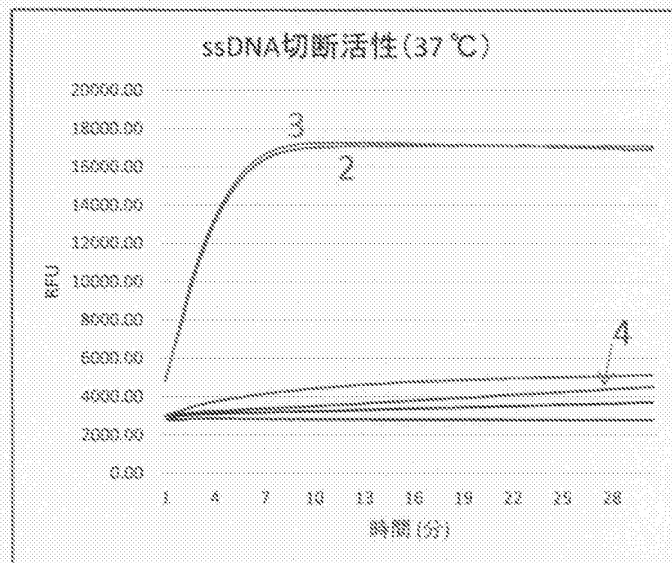
	Cascade (mTyr)	Cas3	二本鎖DNA断片 (60bp)
1	-	○	-
2	○	-	-
3	○	○	-
4	○	○	AAG + 標的配列
5	○	○	ATG + 標的配列
6	○	○	CCA + 標的配列
7	陽性对照 (DNaseI)		
8	陰性对照		



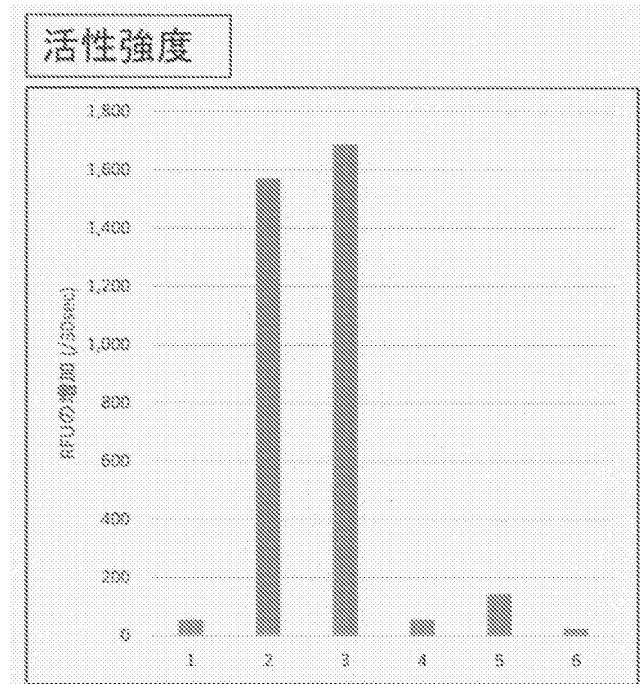
[図5A]

	Cascade (hEMX1)	Cas3	二本鎖DNA断片 (60bp)
1	○	○	-
2	○	○	AAG + 標的配列
3	○	○	ATG + 標的配列
4	○	○	CCA + 標的配列
5	DNaseI		
6	陰性対照		

測定結果



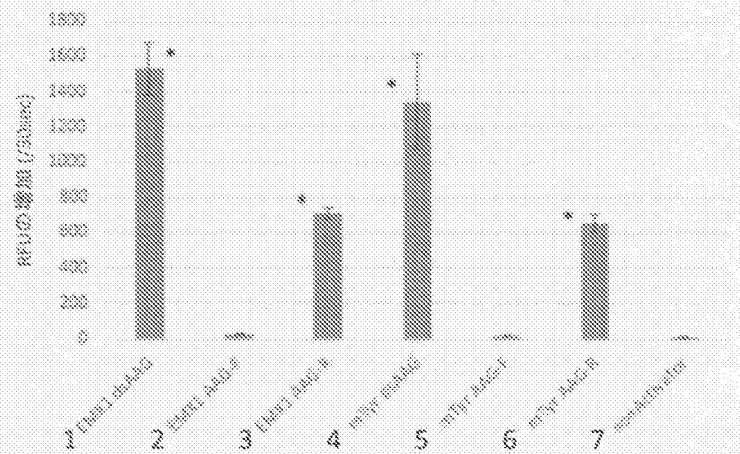
【図5B】



[図6]

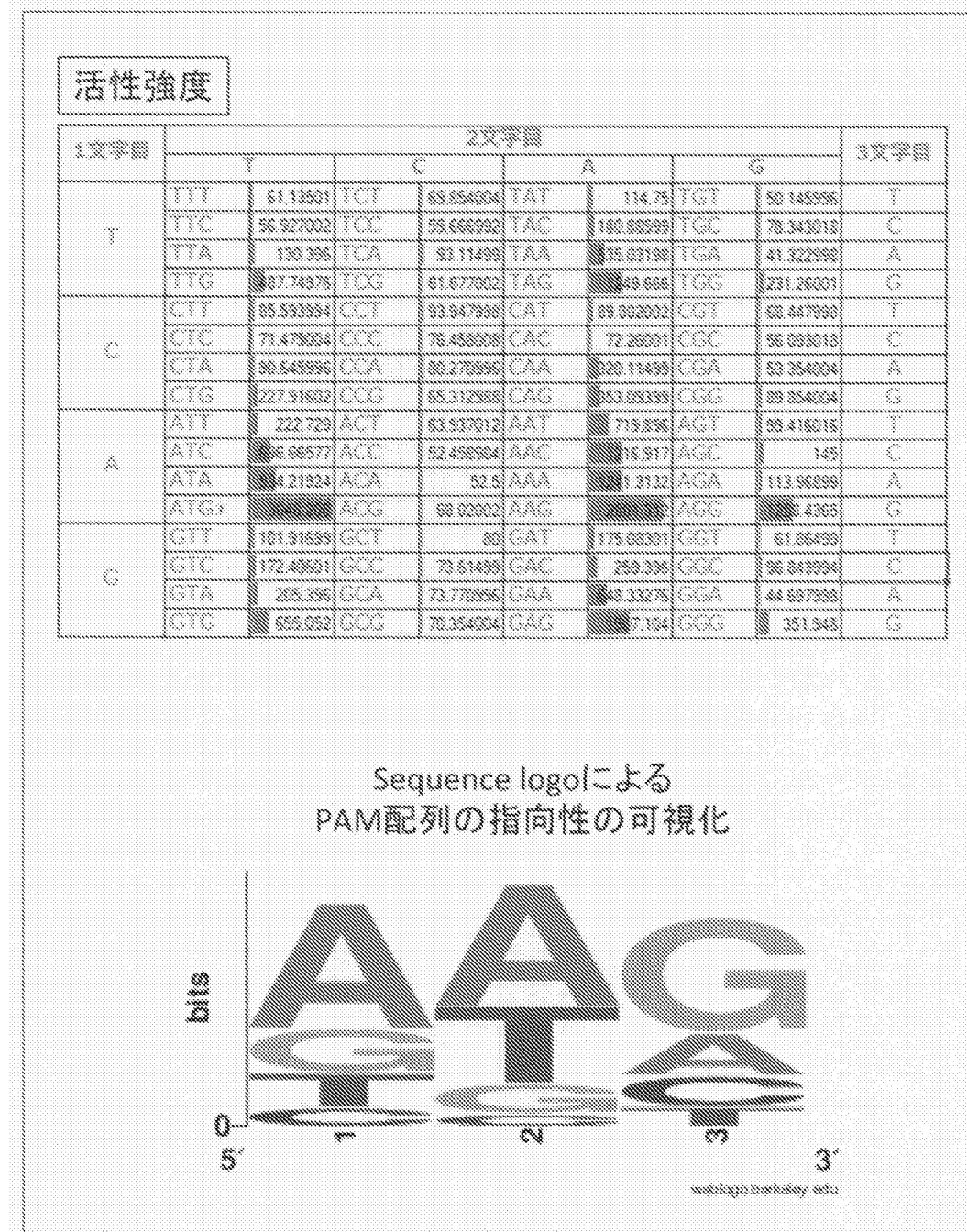
	Cascade	Cas3	二本鎖DNA断片 (60bp)	一本鎖DNA断片 (60base)
1	○(hEMX1)	○	AAG + 標的配列	-
2	○(hEMX1)	○	-	AAG + 標的配列 (非標的鎖)
3	○(hEMX1)	○	-	AAG + 標的配列 (標的鎖)
4	○(mTyr)	○	AAG + 標的配列	-
5	○(mTyr)	○	-	AAG + 標的配列 (非標的鎖)
6	○(mTyr)	○	-	AAG + 標的配列 (標的鎖)
7	○(hEMX1)	○	-	-

活性強度

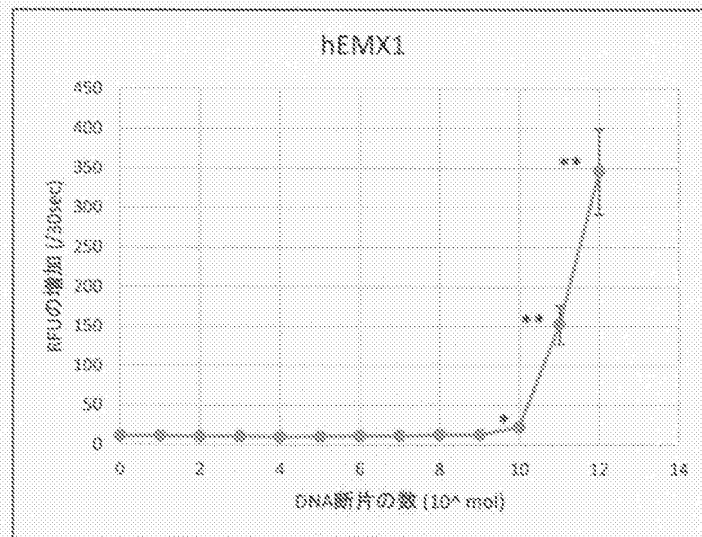
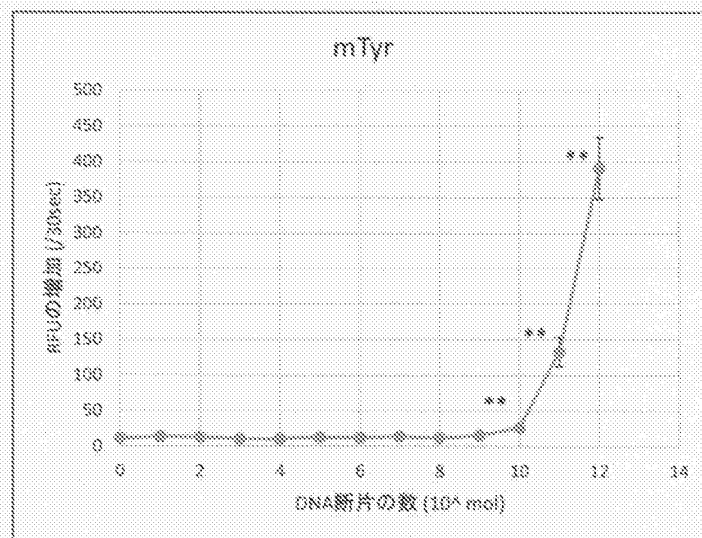


*: p<0.01

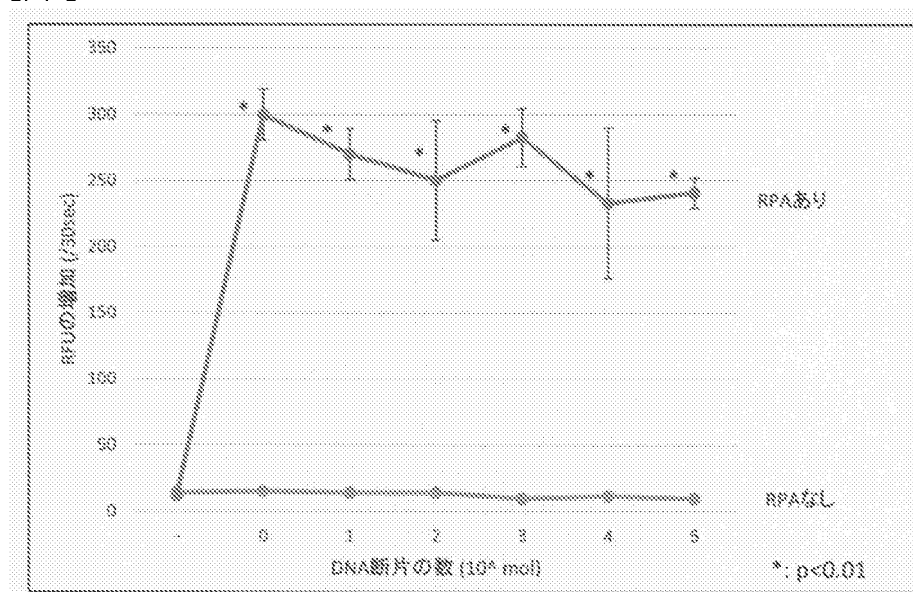
[図7]



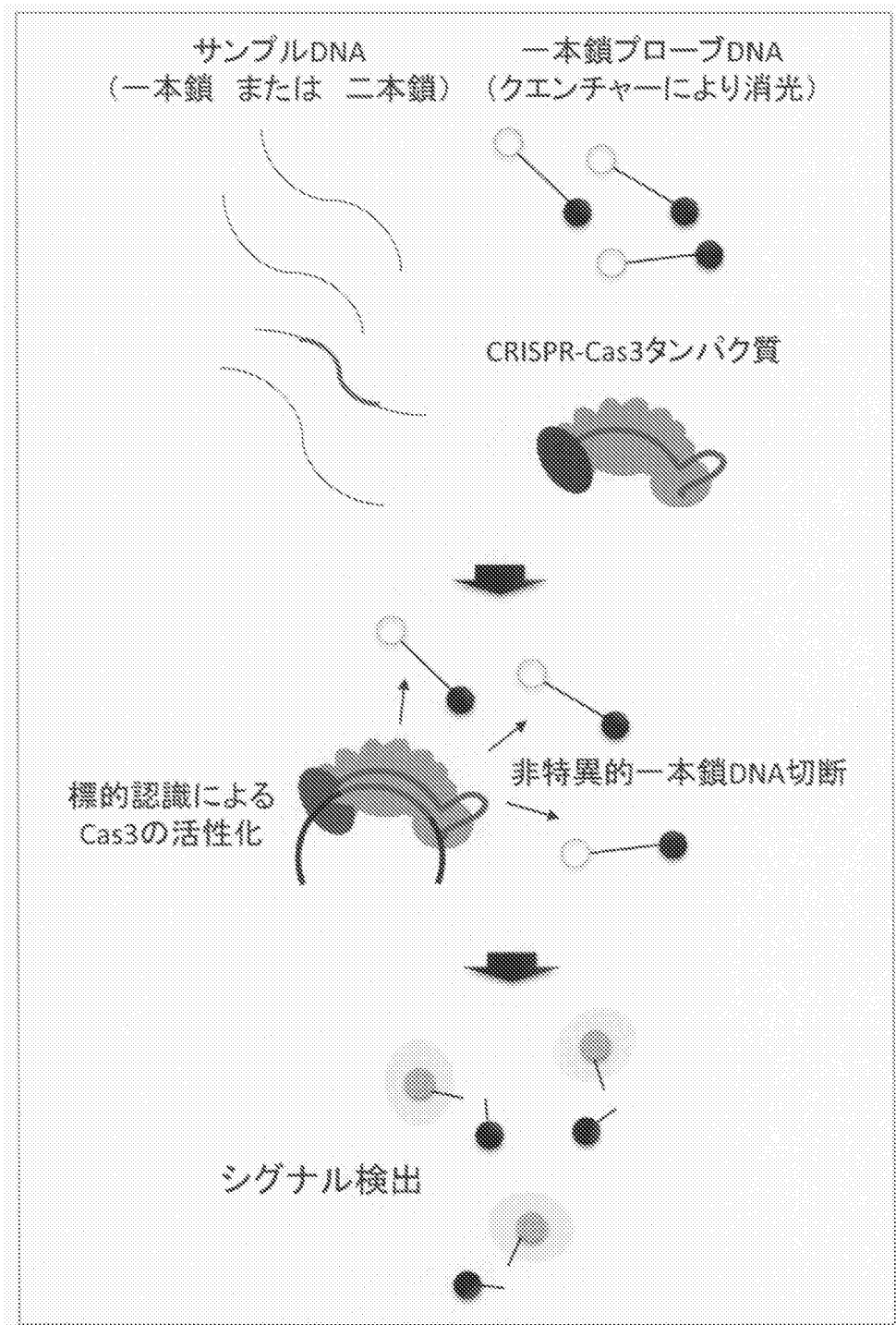
[図8]

*: $p < 0.05$, **: $p < 0.01$ **: $p < 0.01$

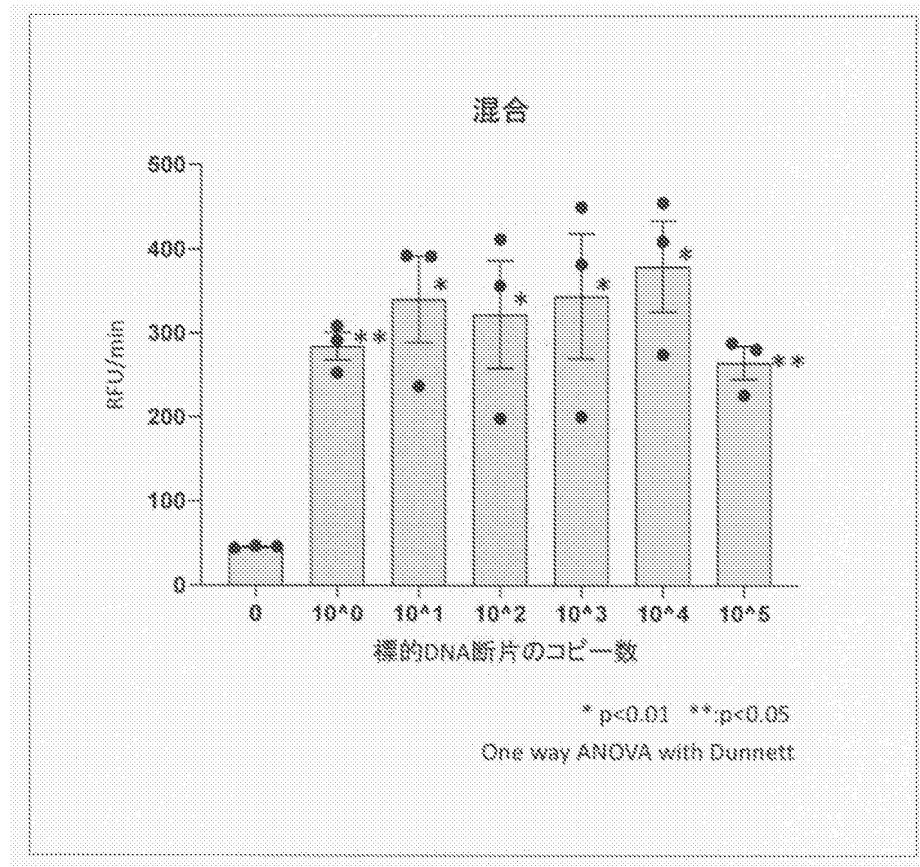
【図9】



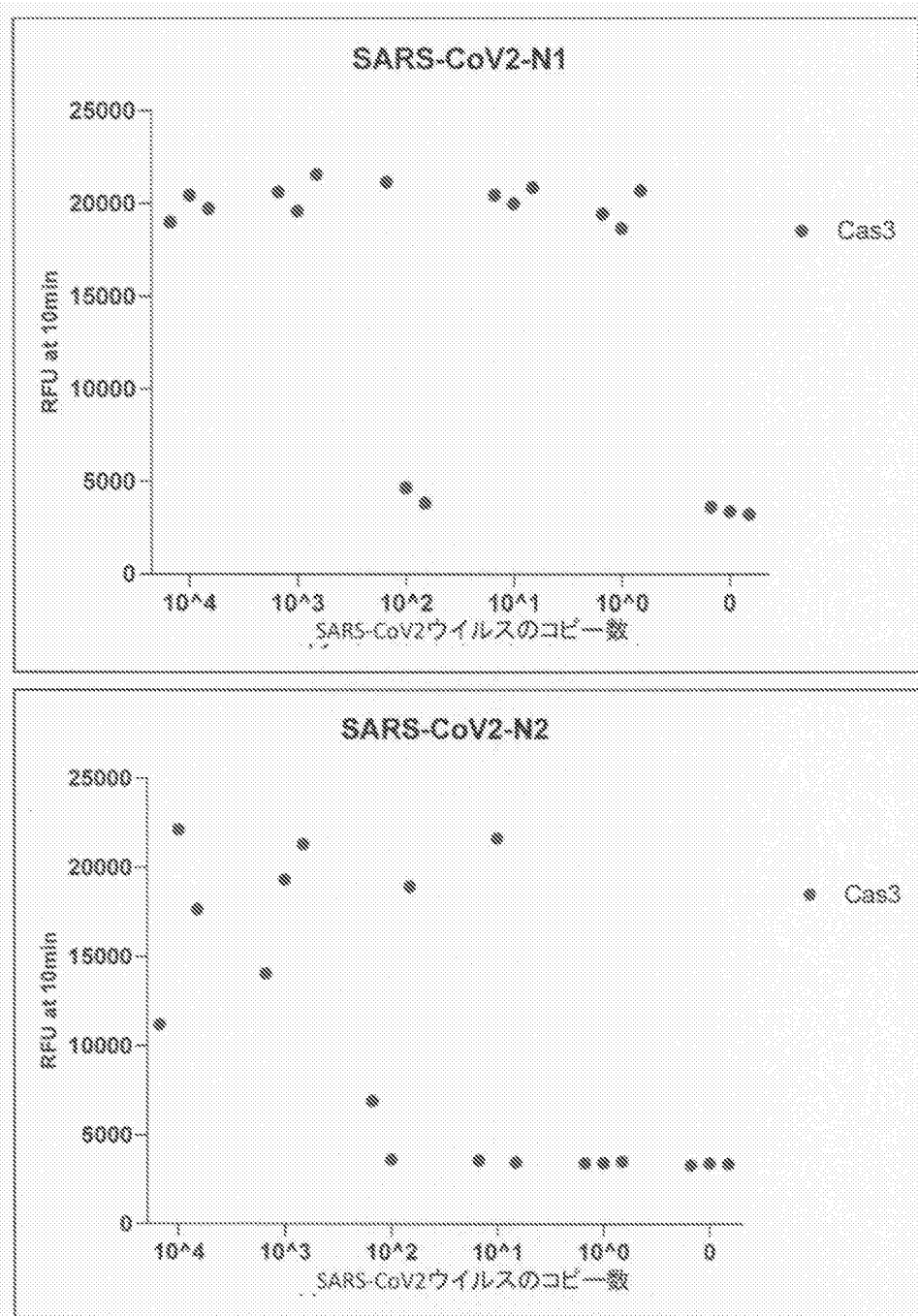
[図10]



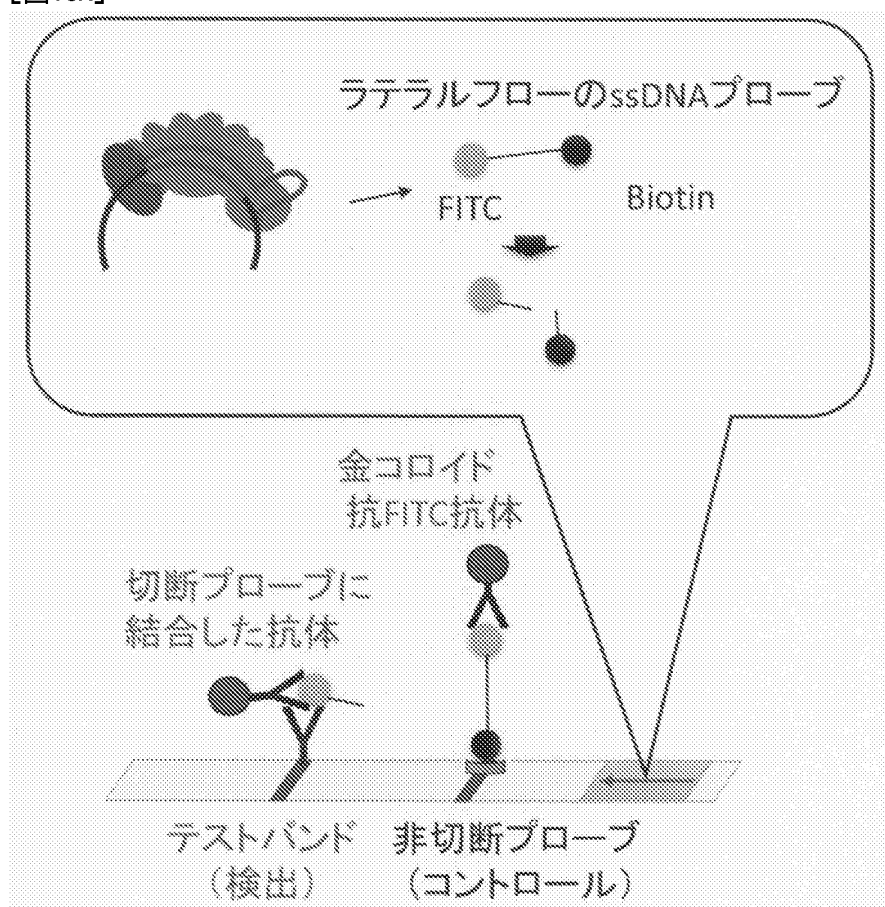
[図11]



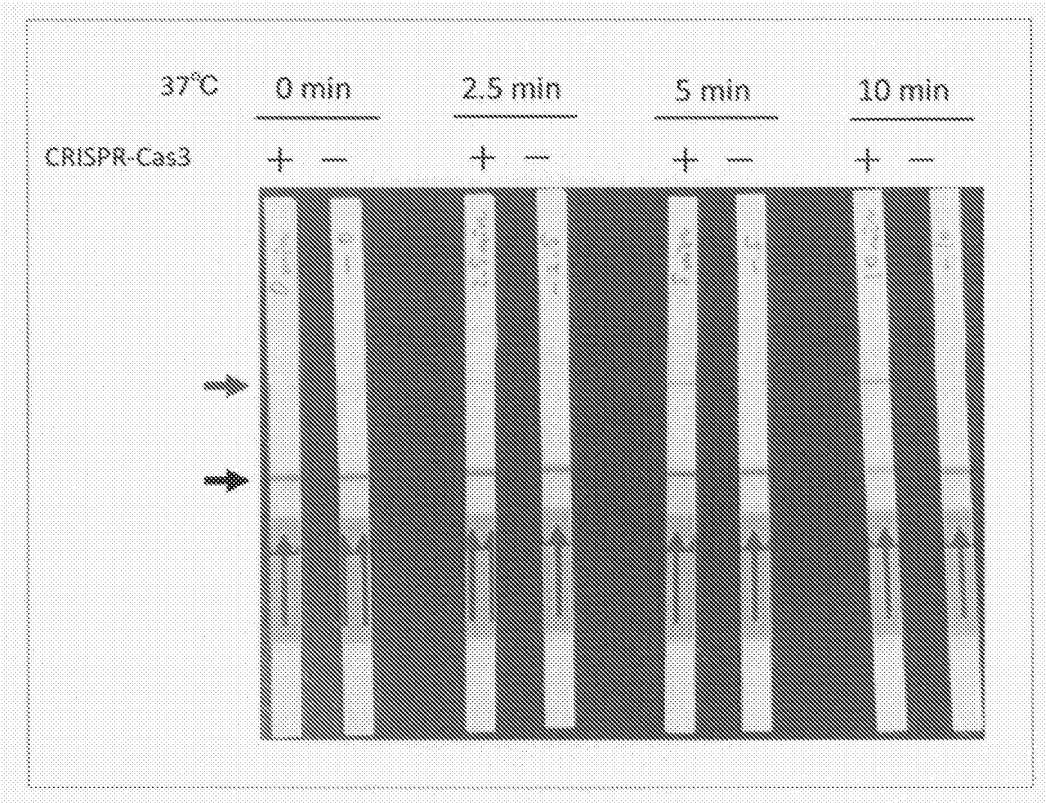
[図12]



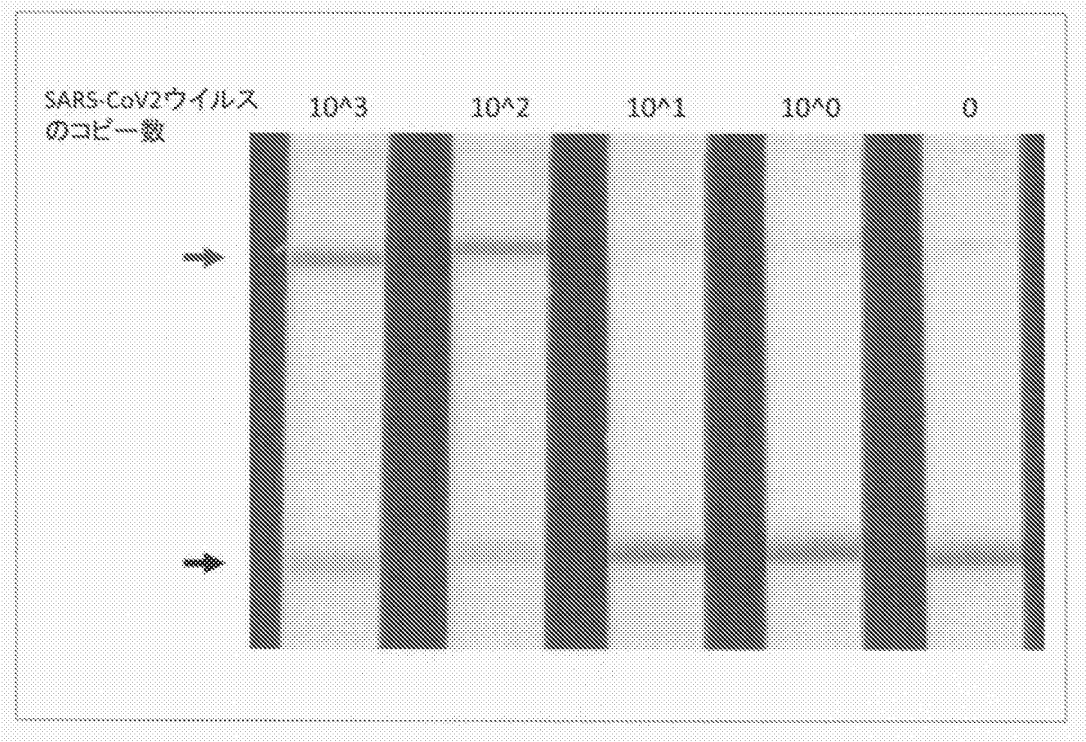
[図13A]



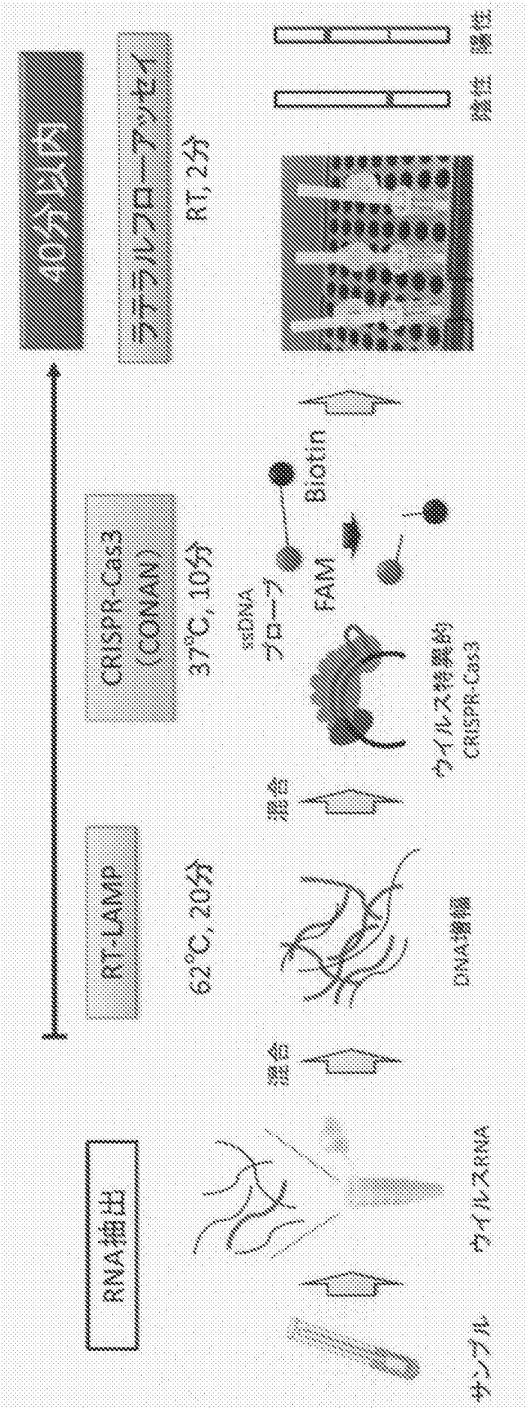
[図13B]



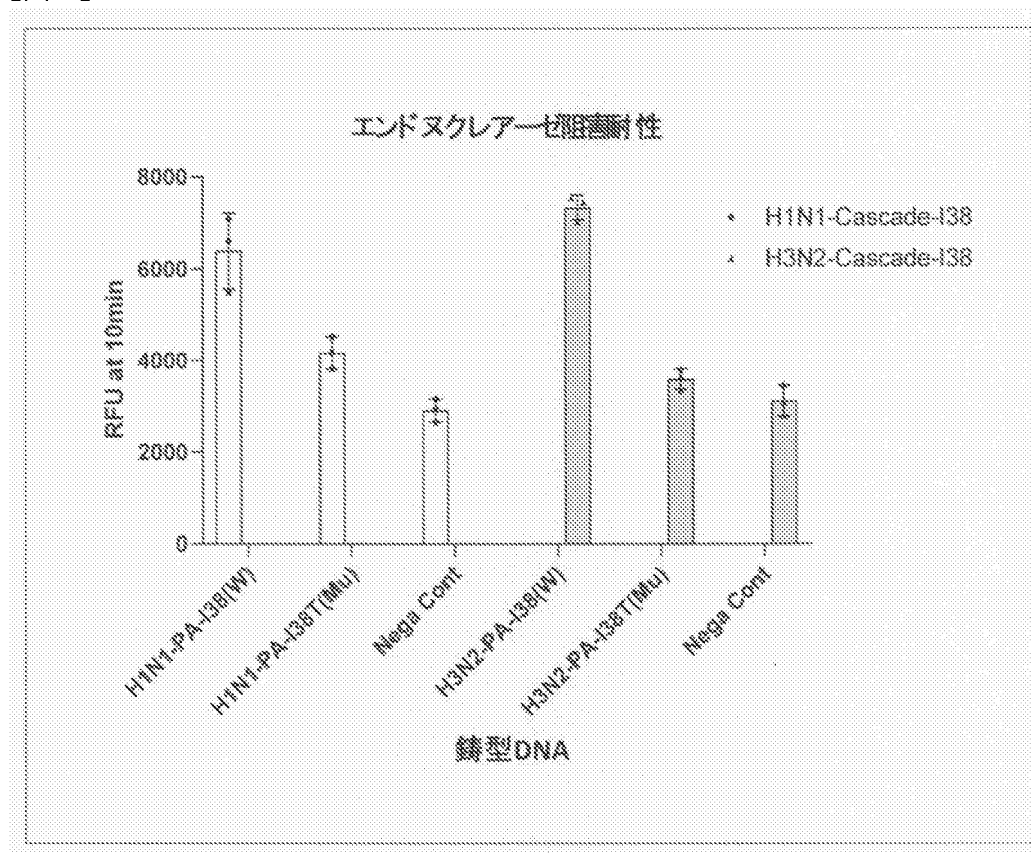
[図14]



[図15]



[図16]



[図17]

