

FIG.1

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HsAID	MDS...LLMNRKFLYQFKNVRWAKGRRETYLCYV...KRRDSATSFSLDFGYLRN...	
PmCDA1	MTDAEYVRIHEKLDIYTFKKQFFNNKKSVSRCYVLFELKRRGER..RACFWGYAVNKPQ	
PmCDA1-36	ssDNA binding-D Truncated SHRCYVLFELKRRGER..RACFWGYAVNKPQ	58
Catalytic domain		
HsAID	...KNGCHVELLFLRYISDWDLDPGRCYRVTWFTSWSPCYDCARHVADF....LRGNPYL	
PmCDA1	SGTERGIHAEIFSIRKVEEYLRDNPQGFTINWYSSWSPCADCAEKILEWYNQELRGNGH.	
PmCDA1-36	SGTERGIHAEIFSIRKVEEYLRDNPQGFTINWYSSWSPCADCAEKILEWYNQELRGNGH.	117
HsAID	SLRIFTARLYFCEDRKAEPGLRRLHRAGVQIAIMTFKDIFYCWNTFVENHERTFKAWEG	
PmCDA1	TLKIWACKLYYEKNAR.NQIGLWNLRDNGVGLNVMVSEHYQCCRKIFIQSSHNQLNENRW	
PmCDA1-36	TLKIEACKLYYEKNAR.NQIGLQNLRDNGVGLNV ssDNA binding-D Truncated	176
	Point Mutation Point Mutation	
HsAID	LHENSVRLSRQLRRILLPLYEVDDLRFRTLGL	
PmCDA1	L.EKTLKRAEKRRSELSIMIQQVKILH.TTKSPAV	
PmCDA1-36	ssDNA binding-D Truncated	208

FIG.2

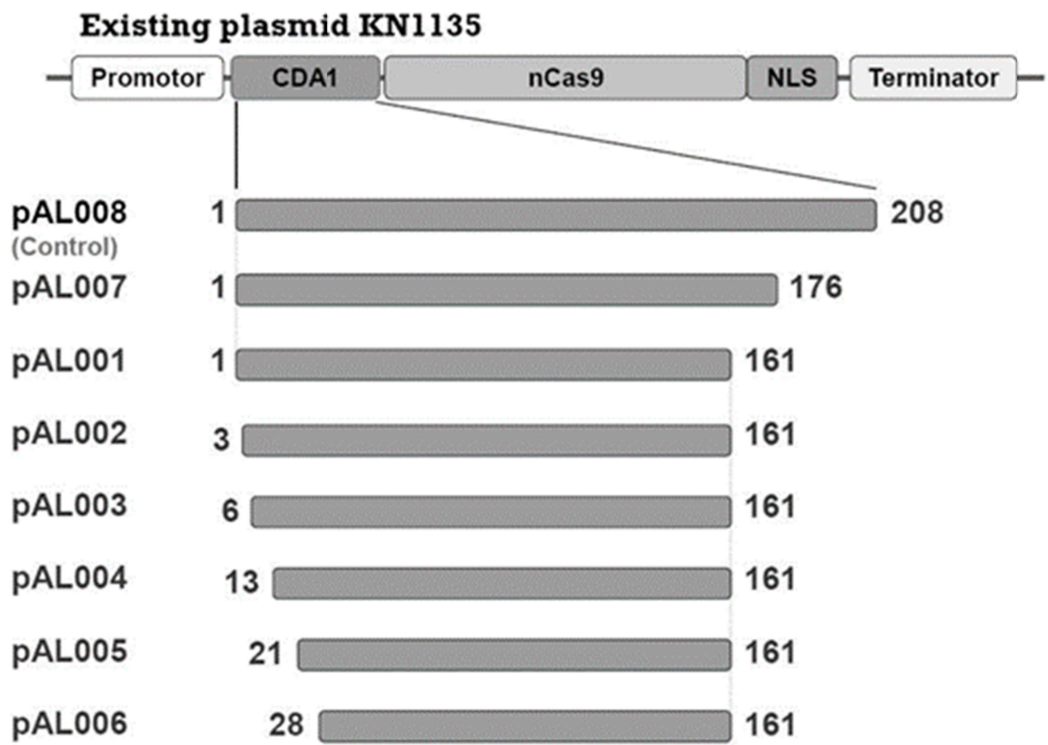


FIG.3

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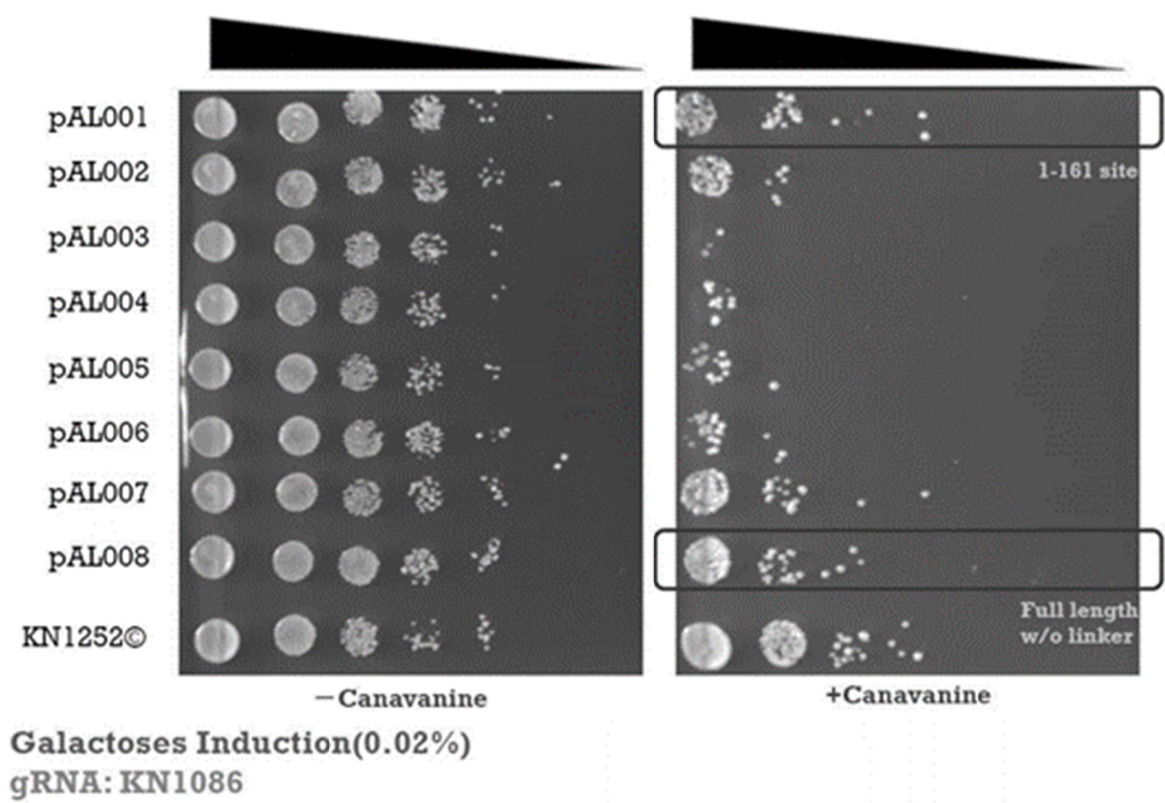


FIG.4

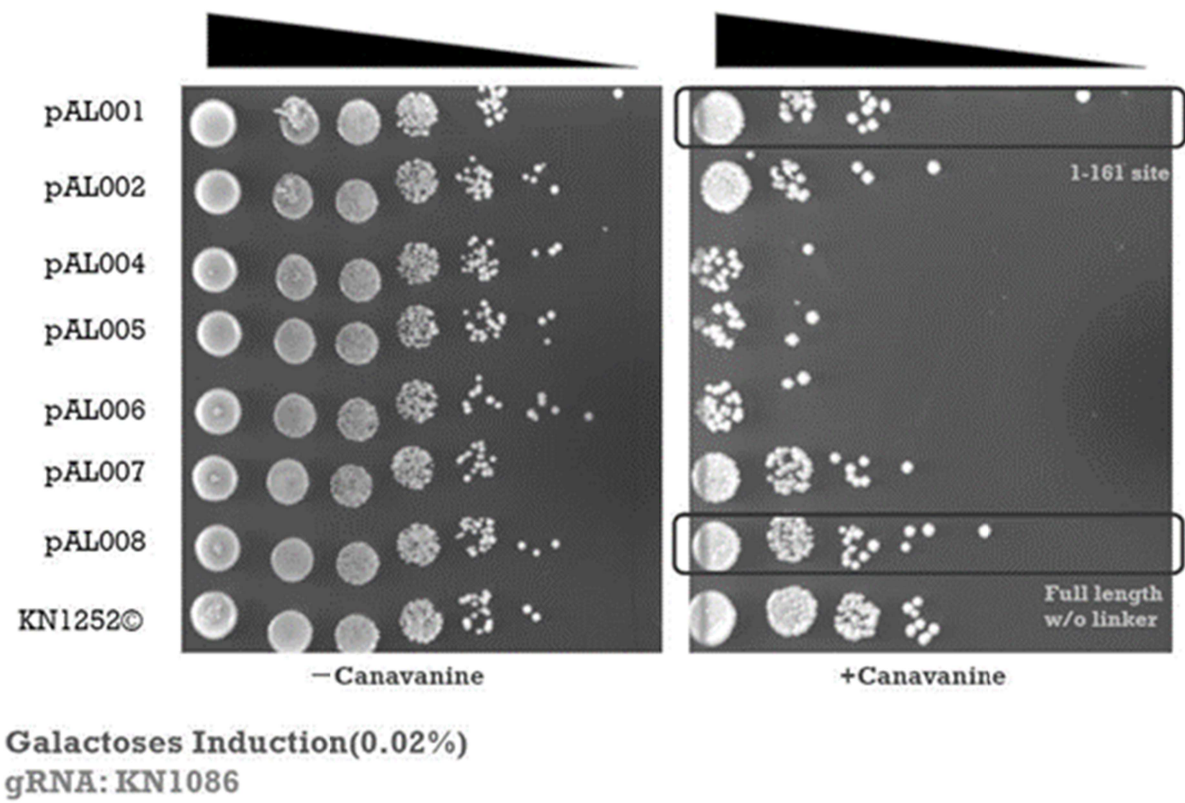


FIG.5

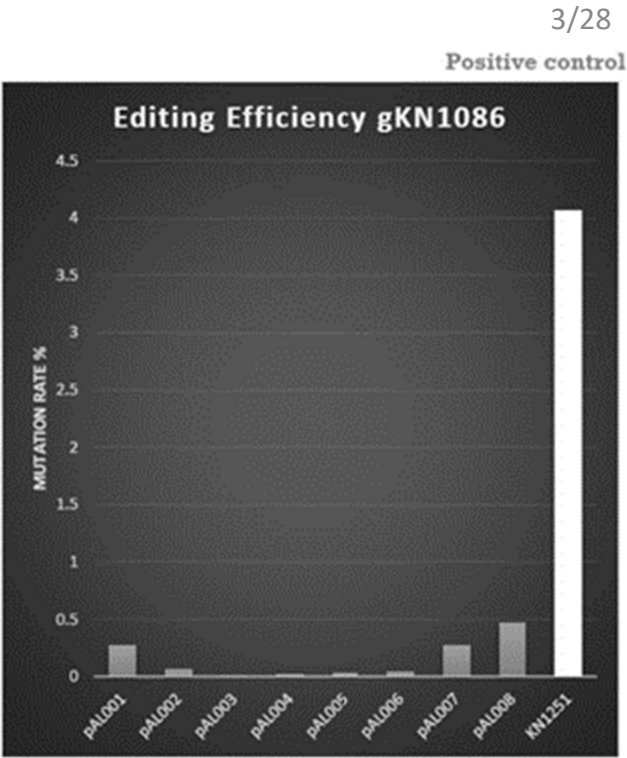


FIG.6

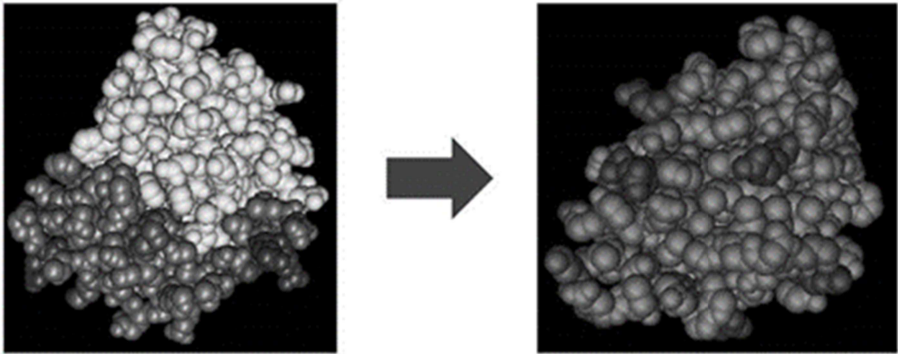
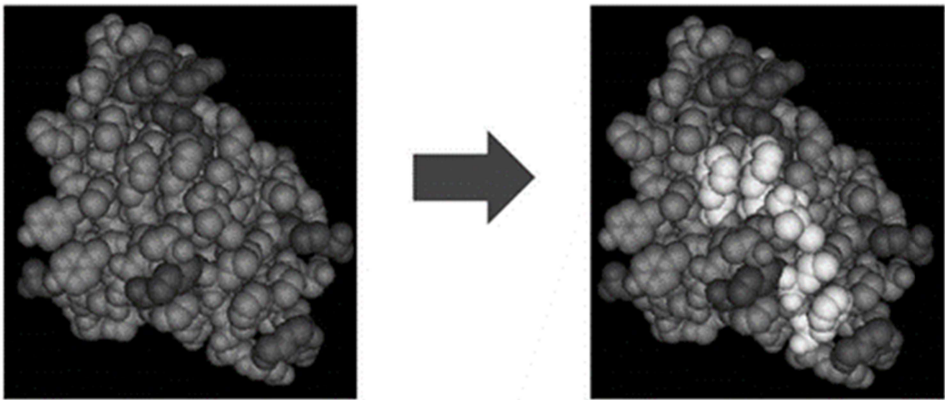


FIG.7



V150 to T150 Y128 to Q128
L126 to N126 W122 to E122
Y91 to K91

FIG.8

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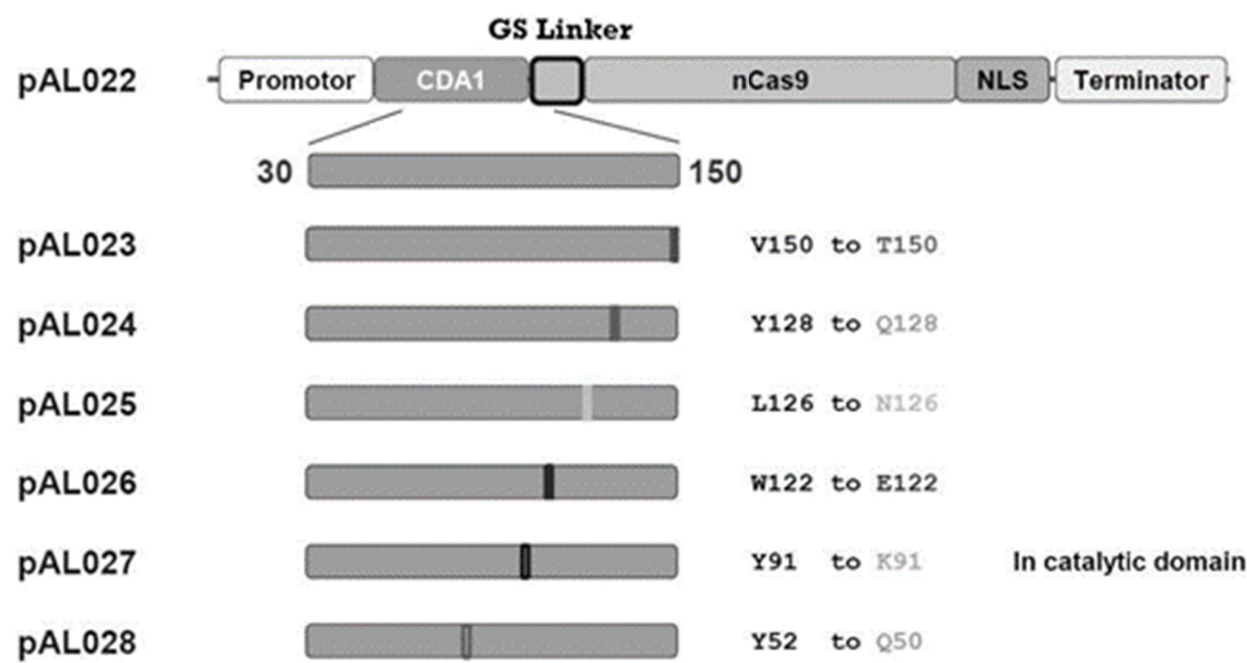
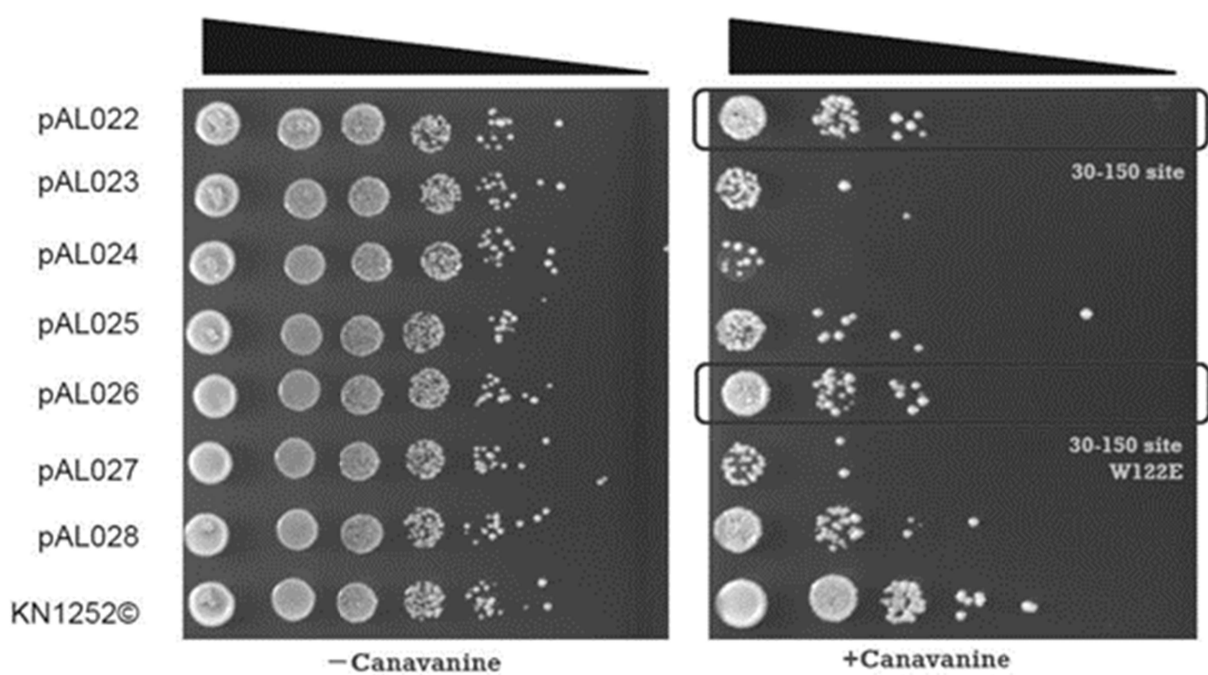


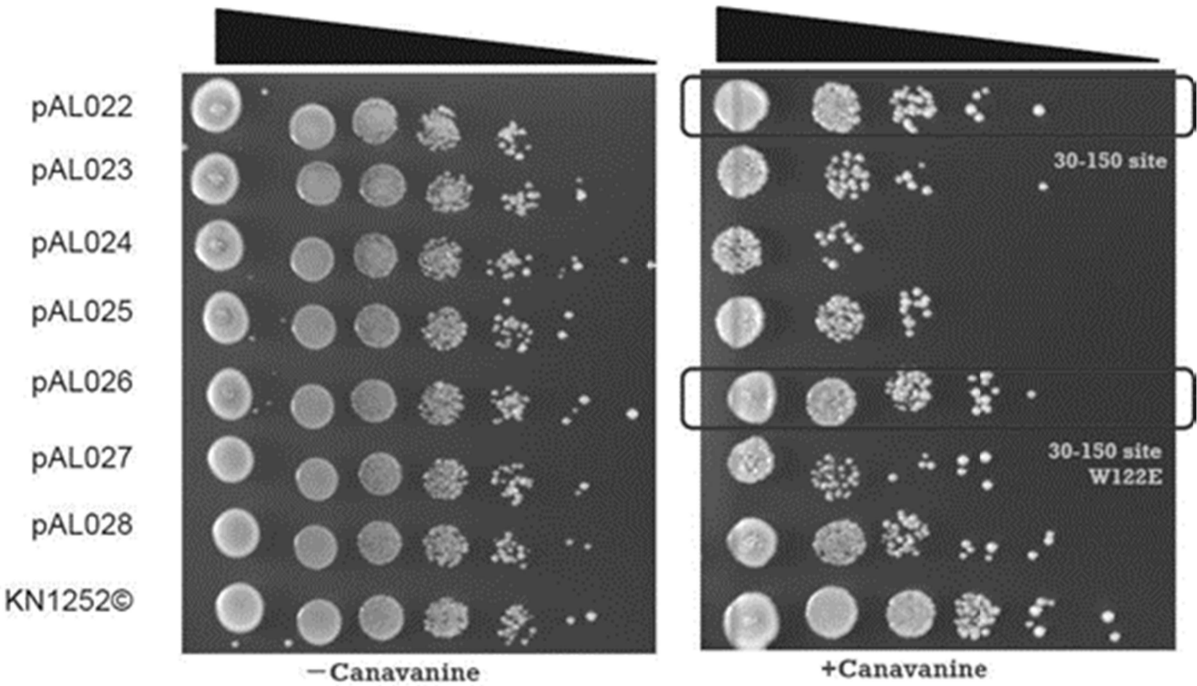
FIG.9



Galactoses Induction(0.02%)
gRNA: KN1086

FIG.10

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Galactoses Induction(0.02%)
gRNA: KN1150

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FIG.11

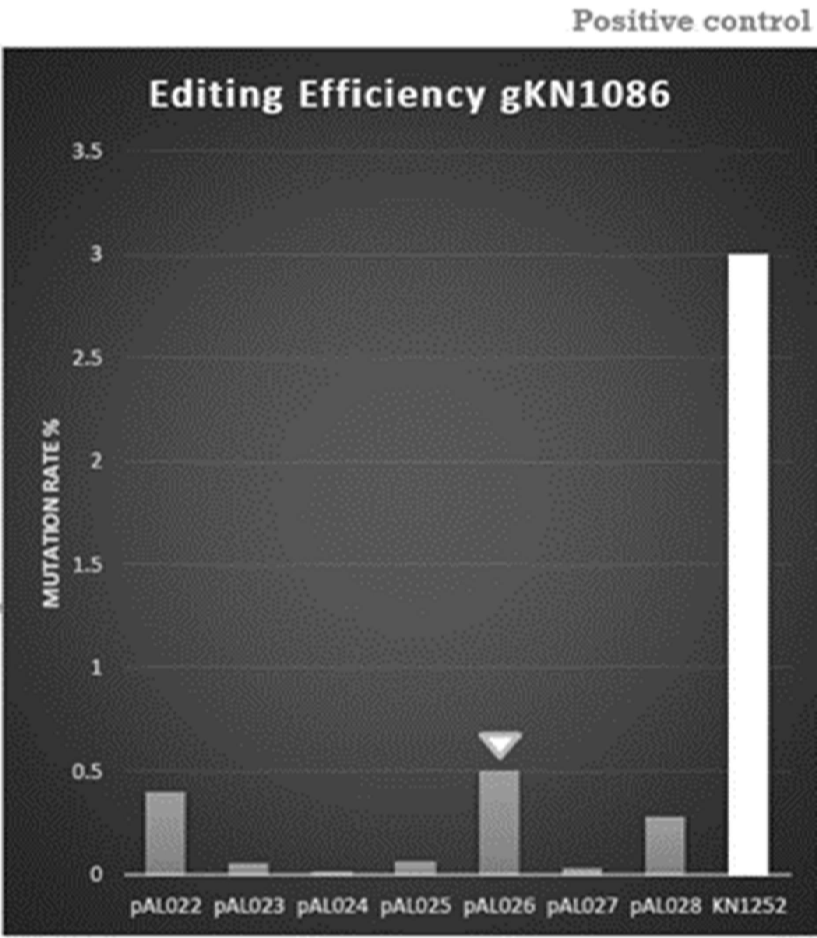


FIG.12

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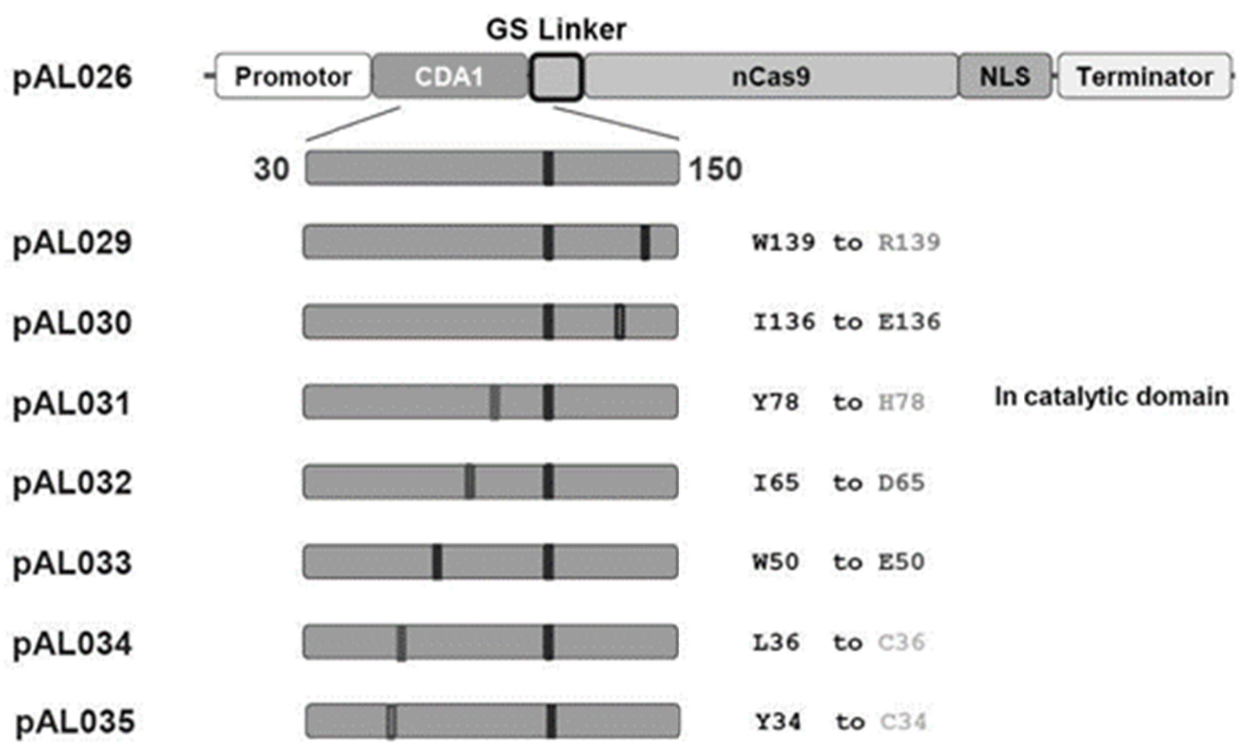


FIG.13

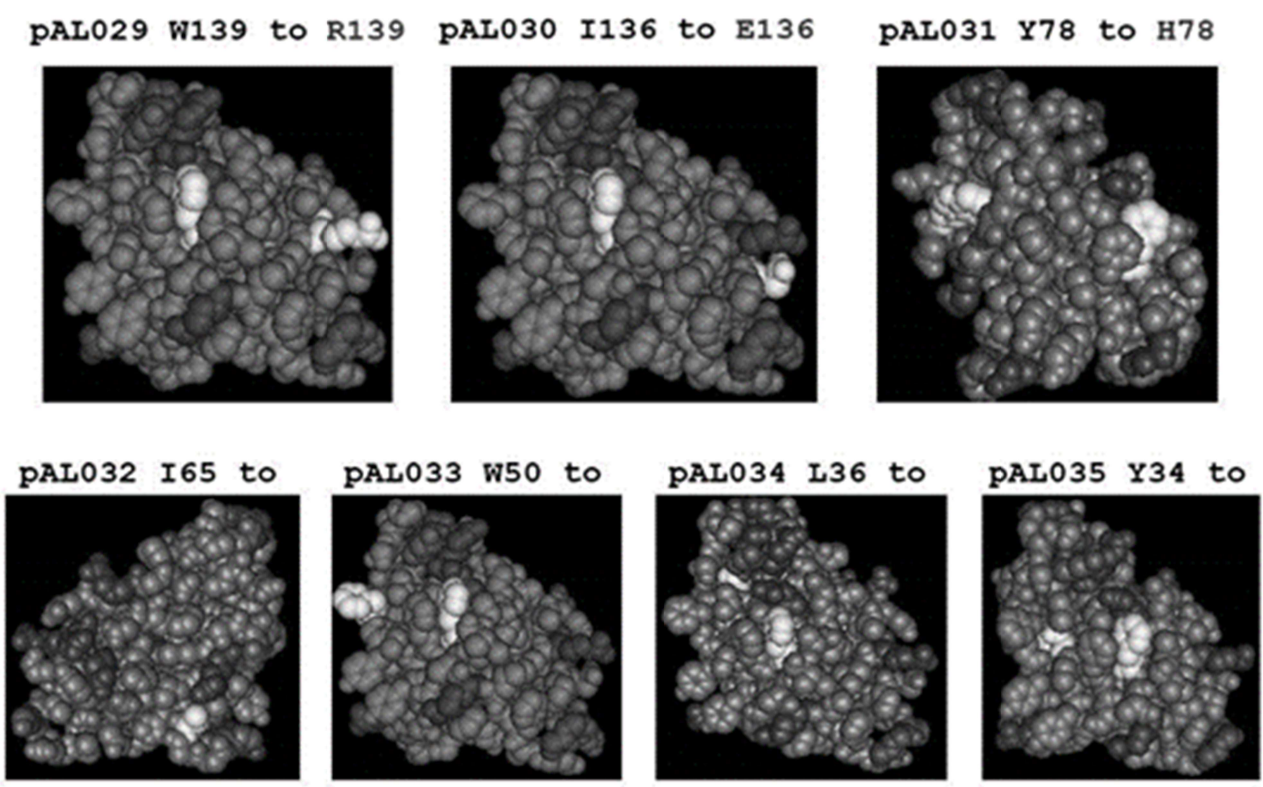
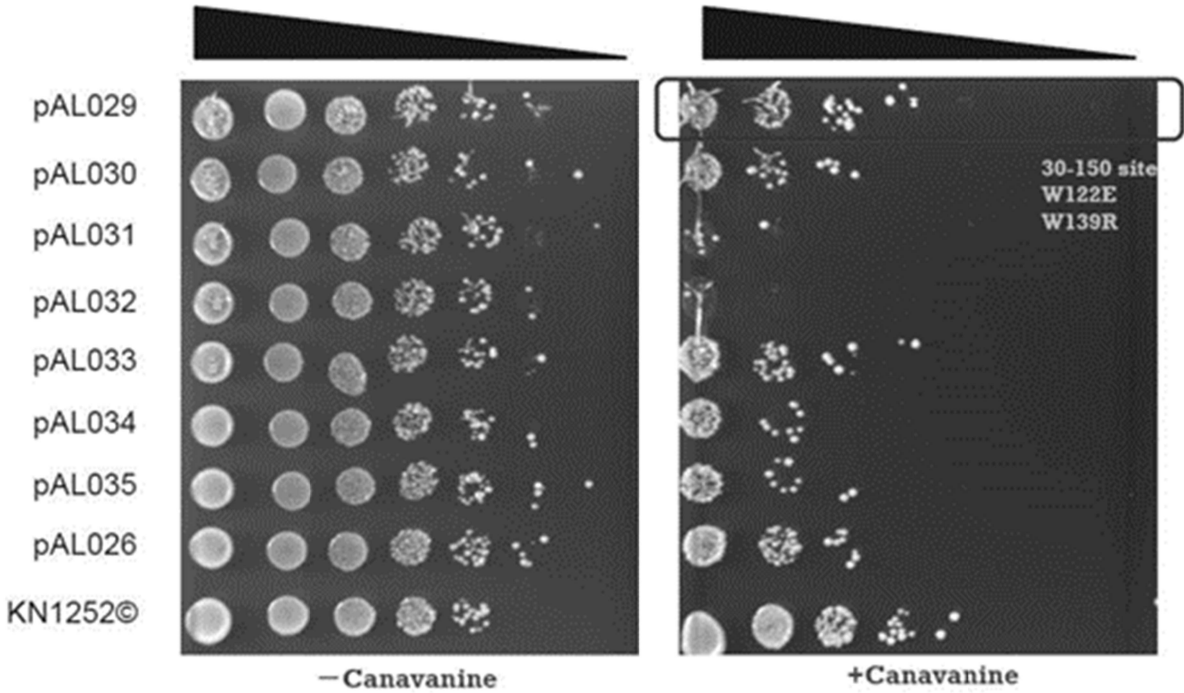


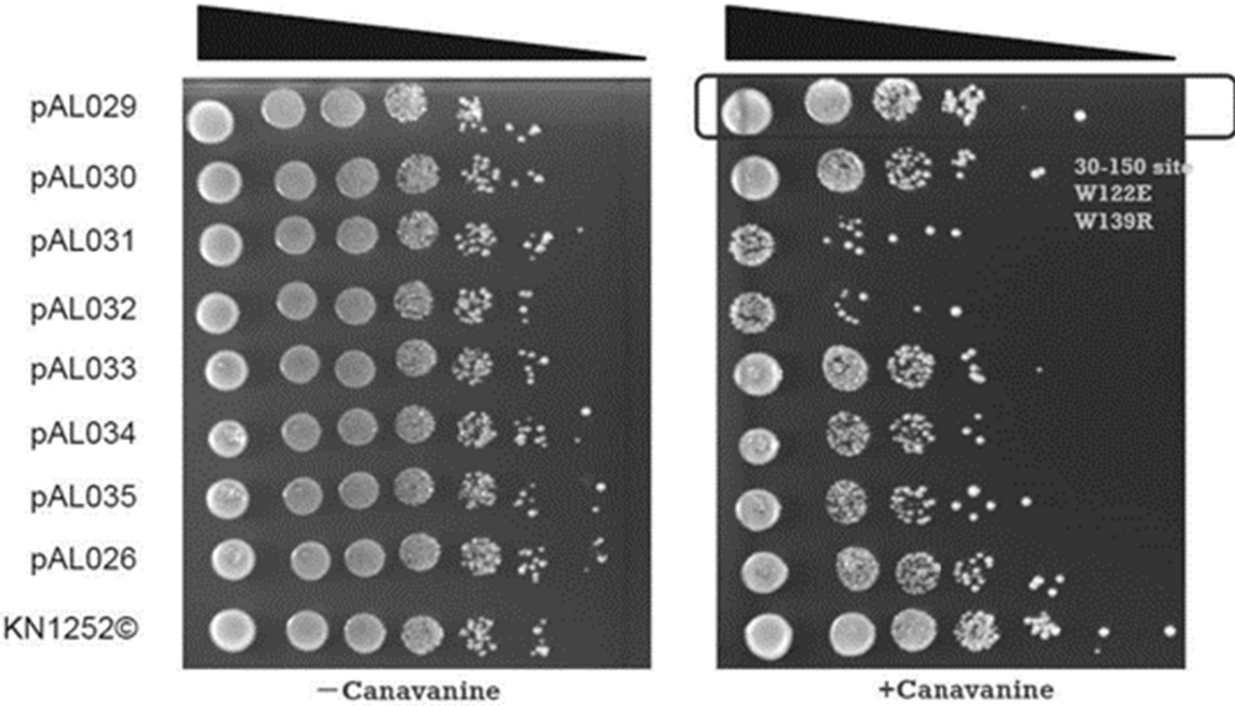
FIG.14

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Galactoses Induction(0.02%)
gRNA: KN1086

FIG.15



Galactoses Induction(0.02%)
gRNA: KN1150

FIG.16

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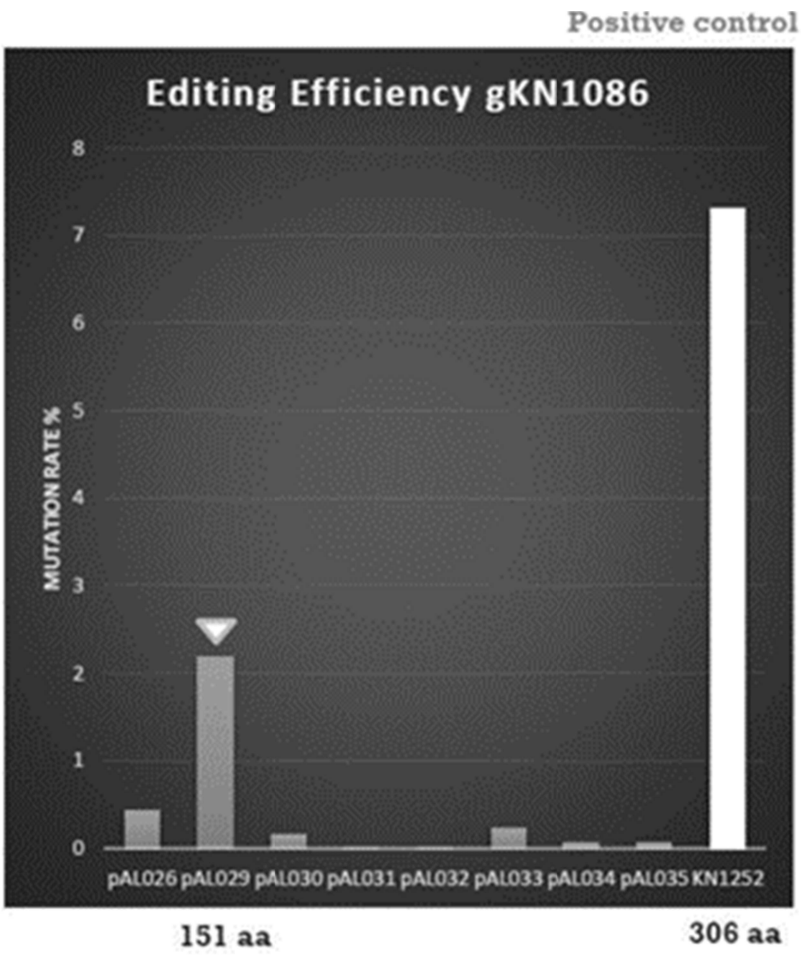


FIG.17

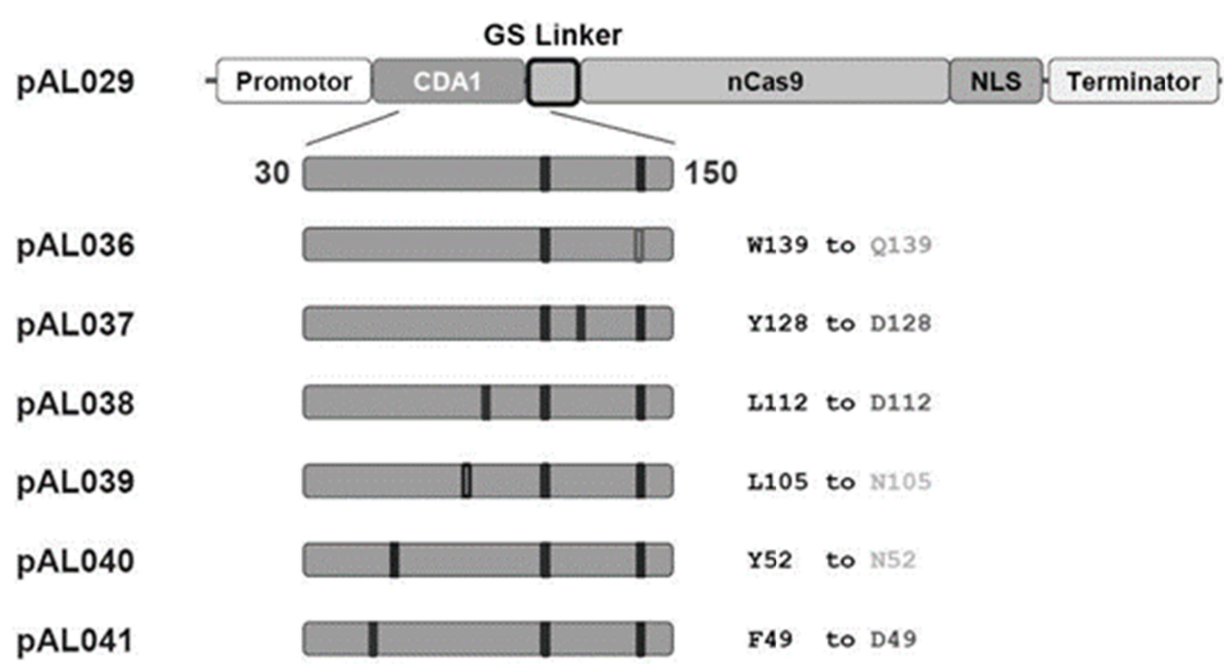
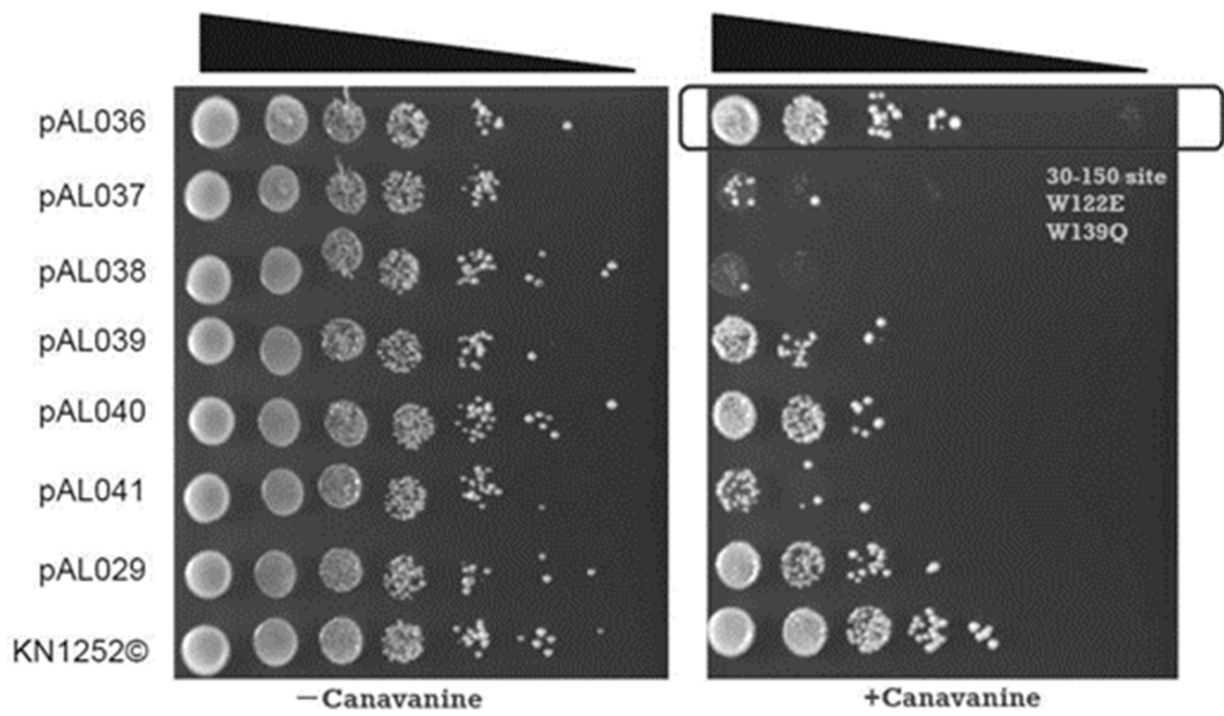


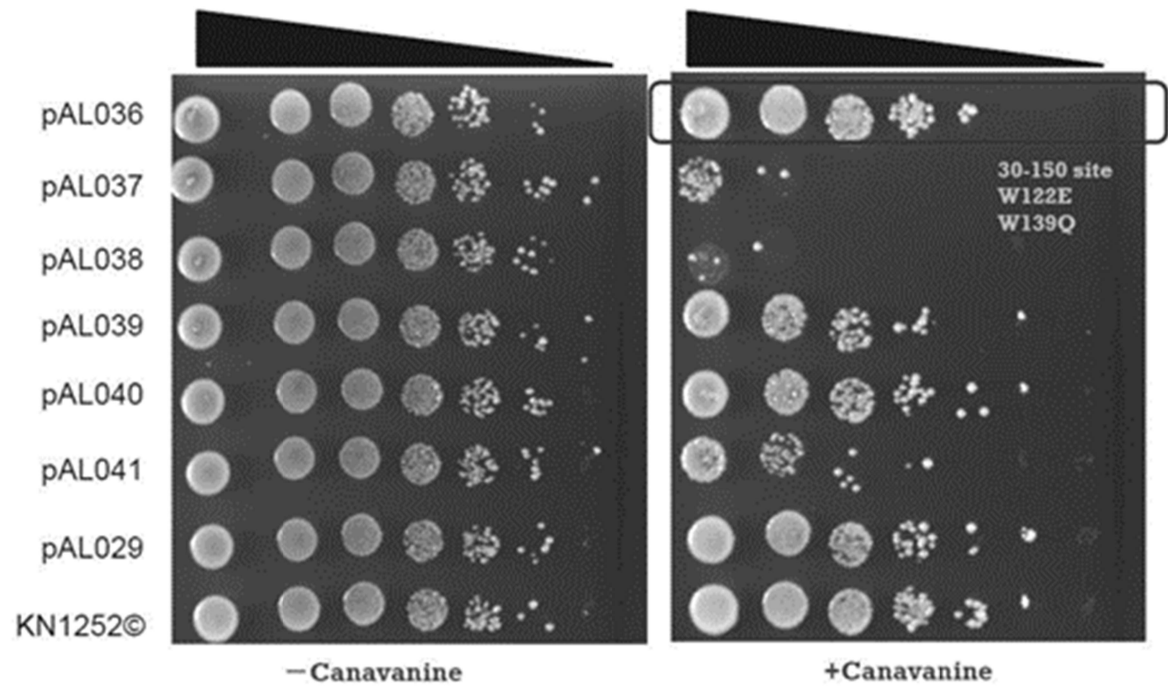
FIG.18

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Galactoses Induction(0.02%)
gRNA: KN1086

FIG.19



Galactoses Induction(0.02%)
gRNA: KN1150

FIG.20

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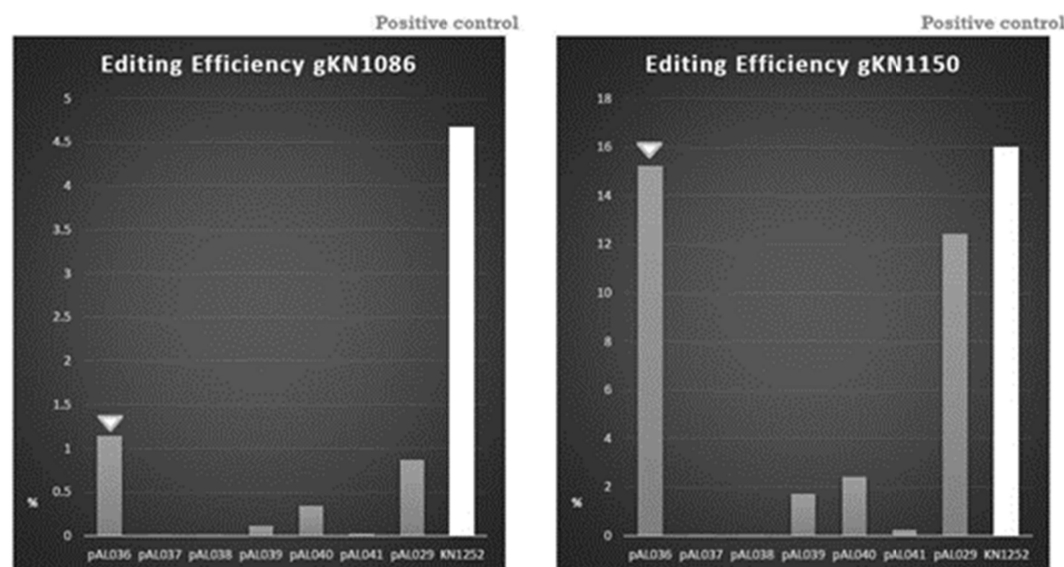


FIG.21

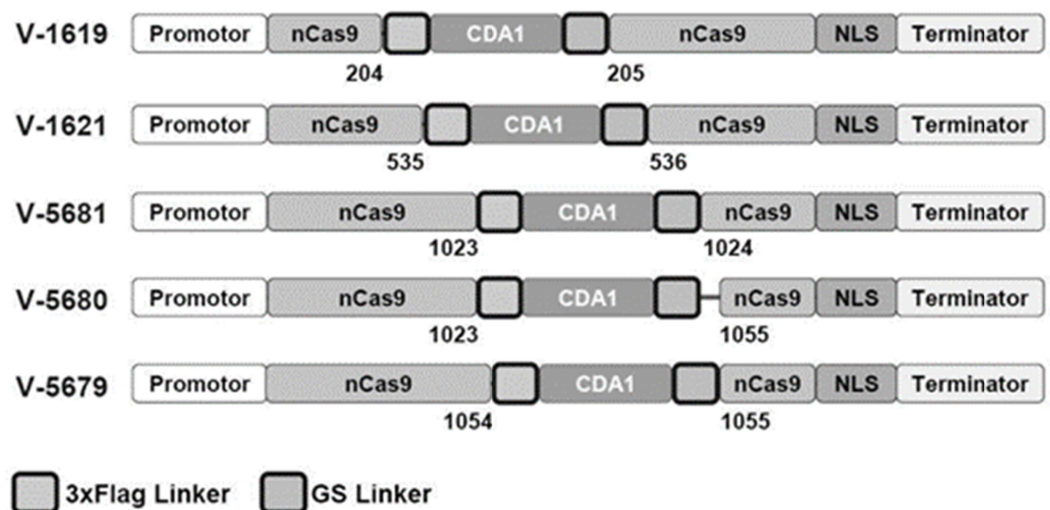


FIG.22

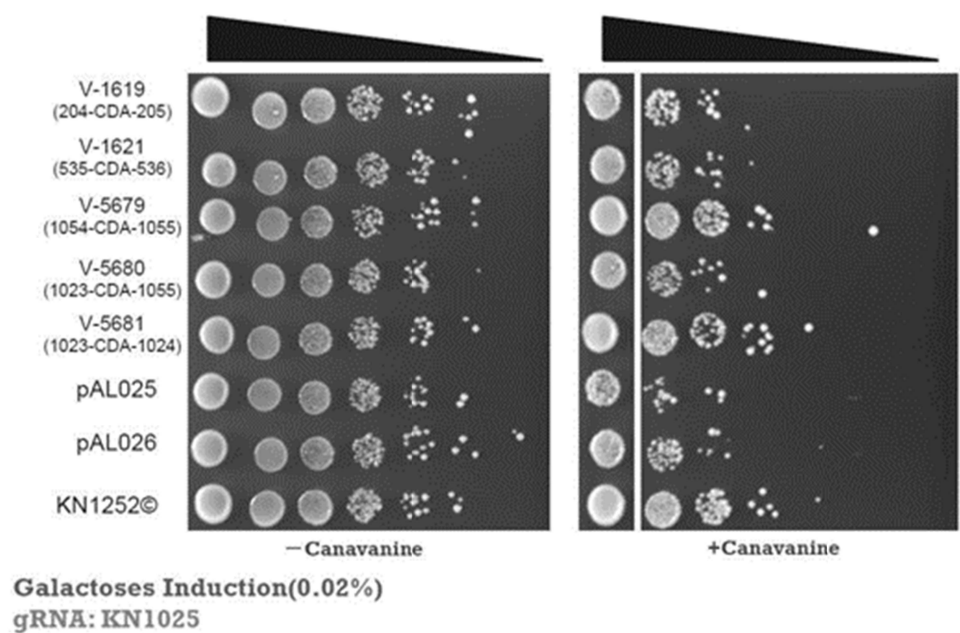
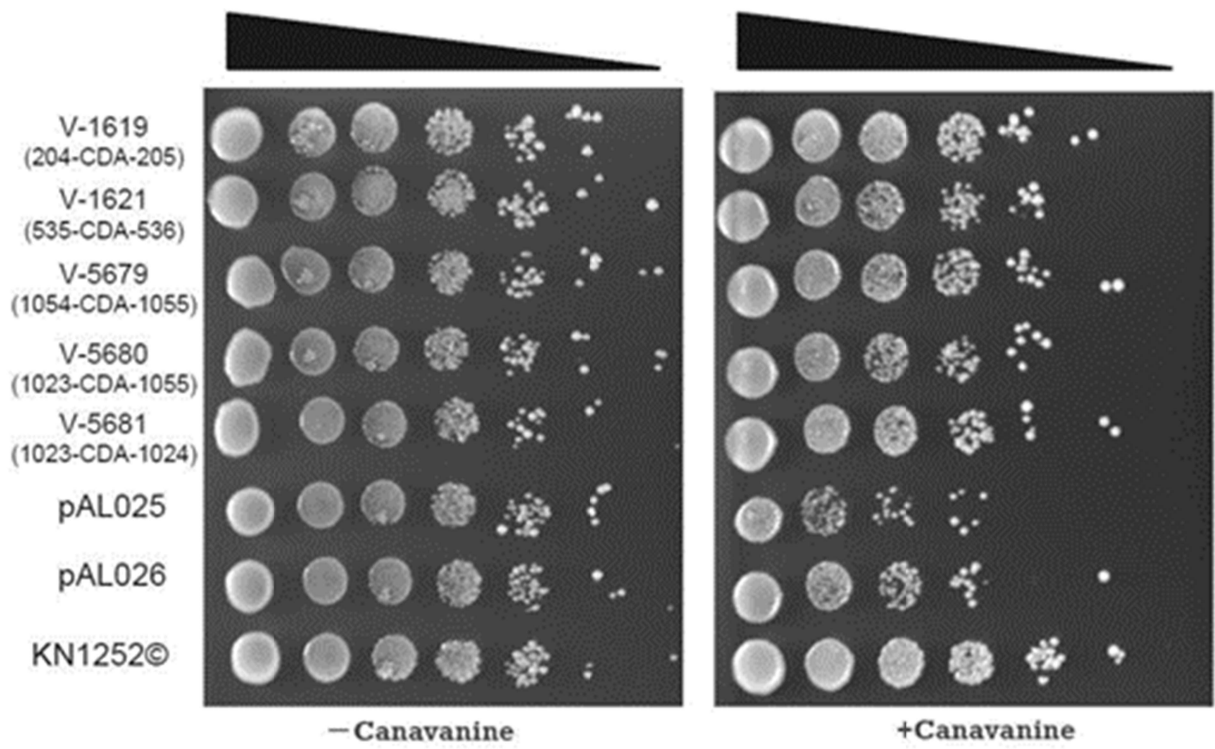


FIG.23

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Galactoses Induction(0.02%)
gRNA: KN1149

FIG.24

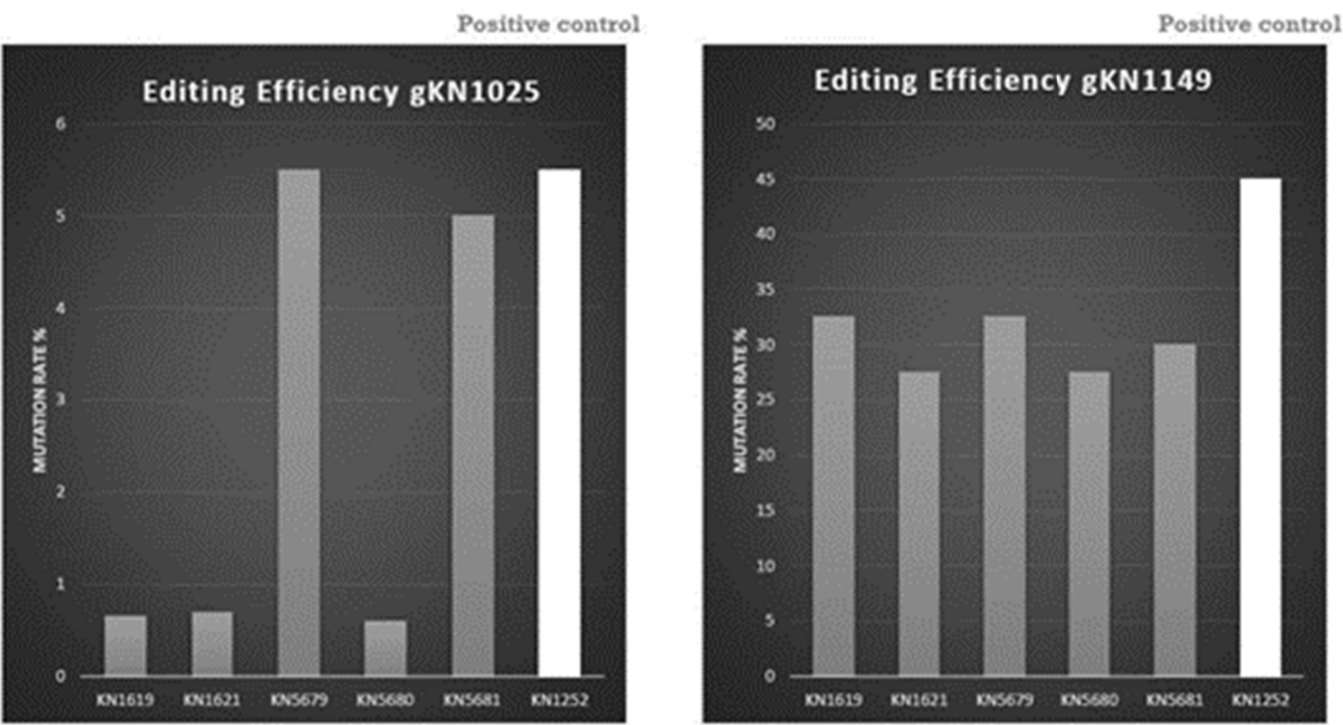


FIG.25

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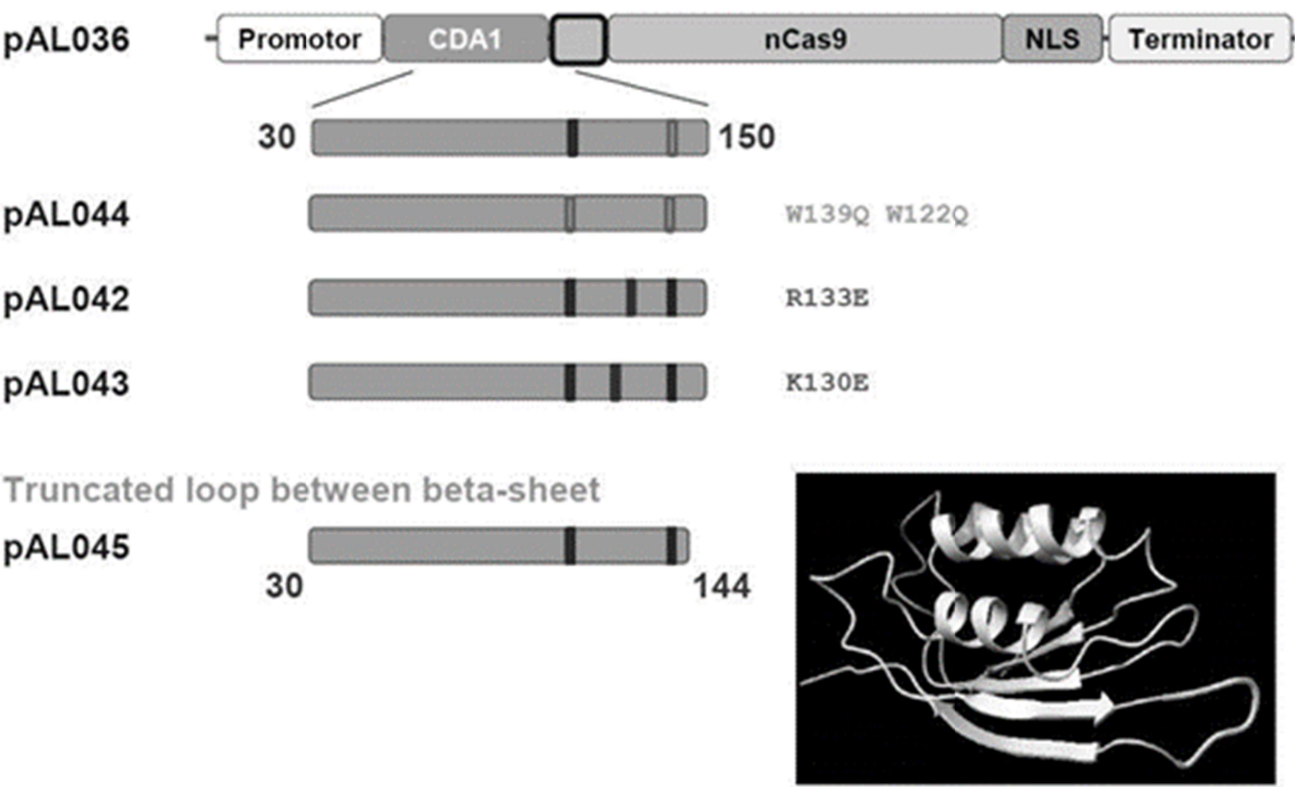


FIG.26

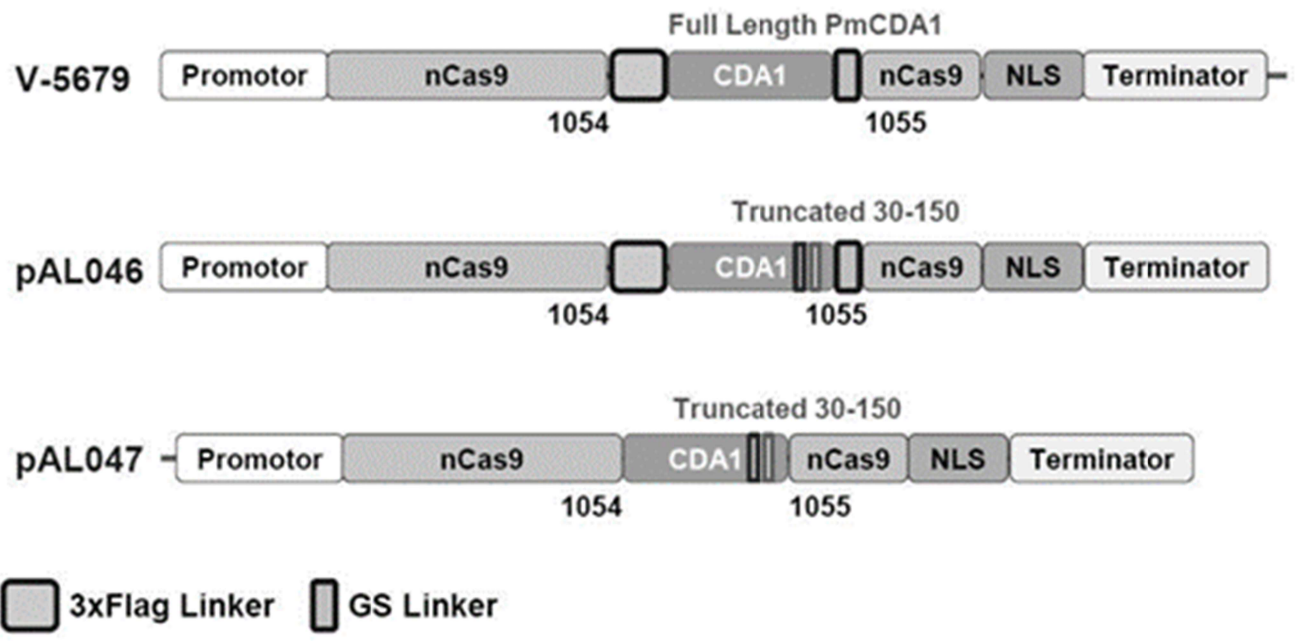
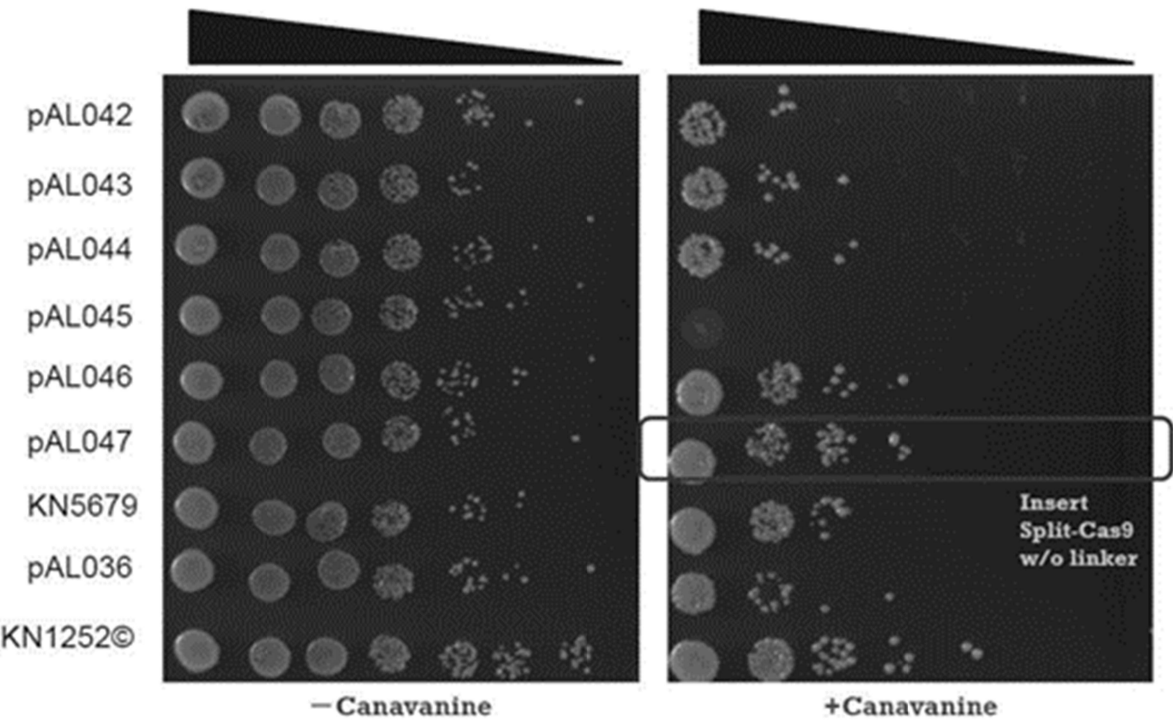


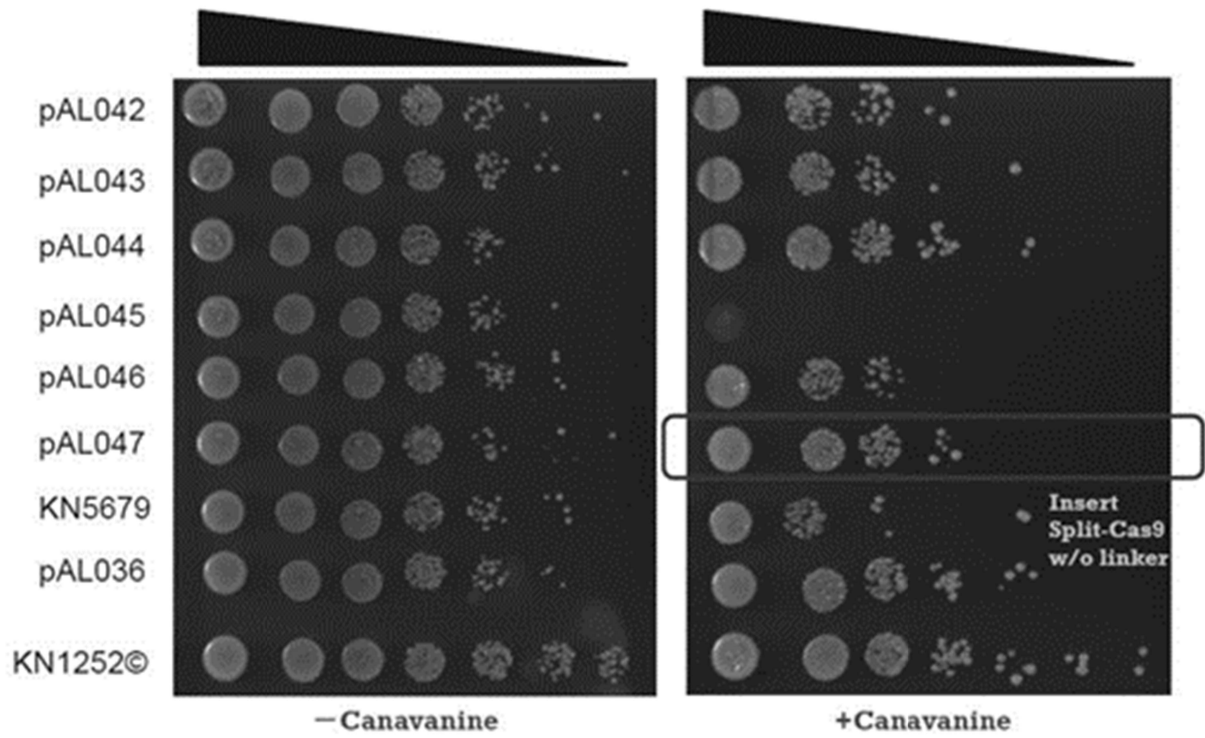
FIG.27

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Galactoses Induction(0.02%)
gRNA: KN1025

FIG.28



Galactoses Induction(0.02%)
gRNA: KN1150

FIG.29

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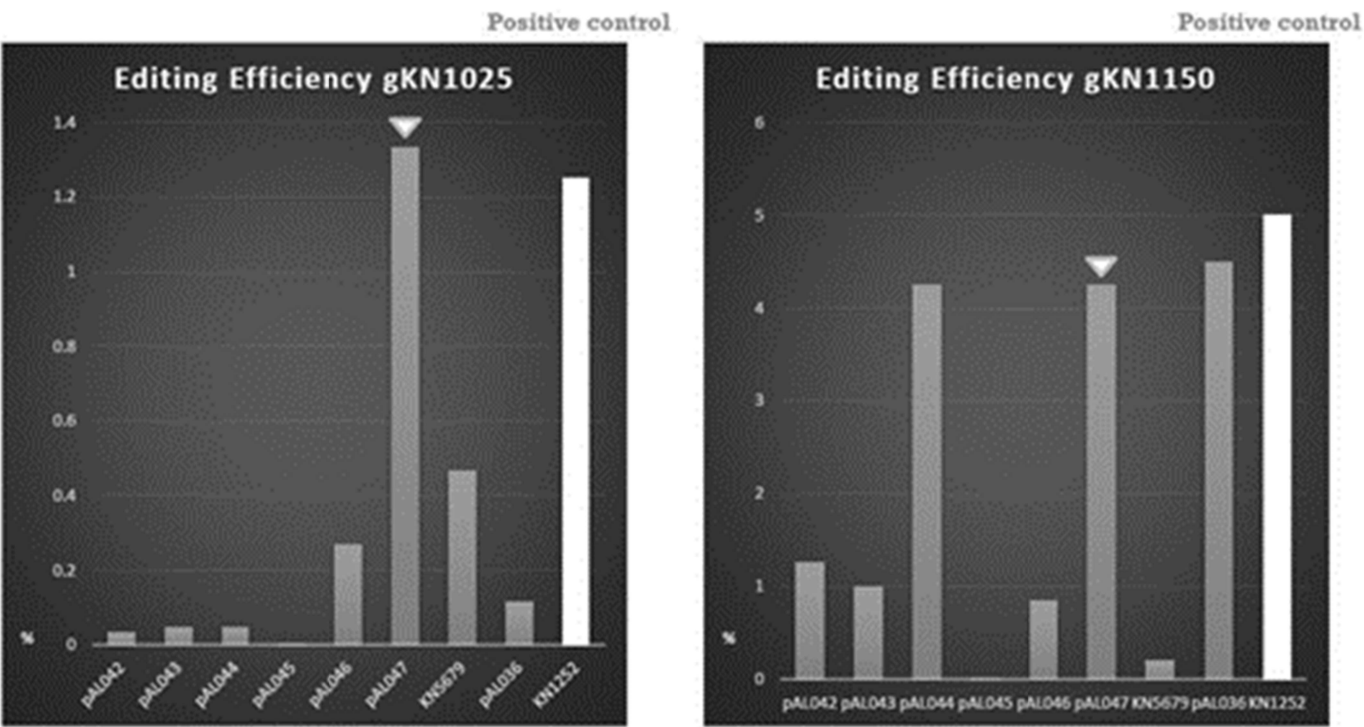
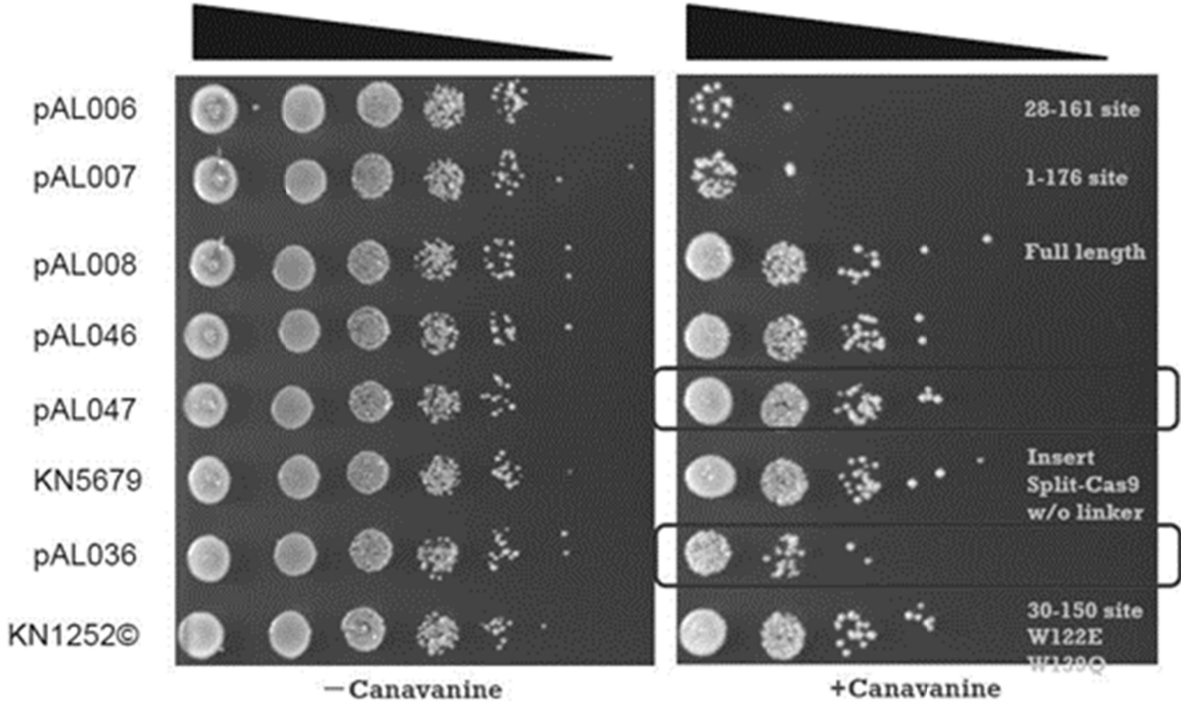


FIG.30



Galactoses Induction(0.02%)
gRNA: KN1025

FIG.31

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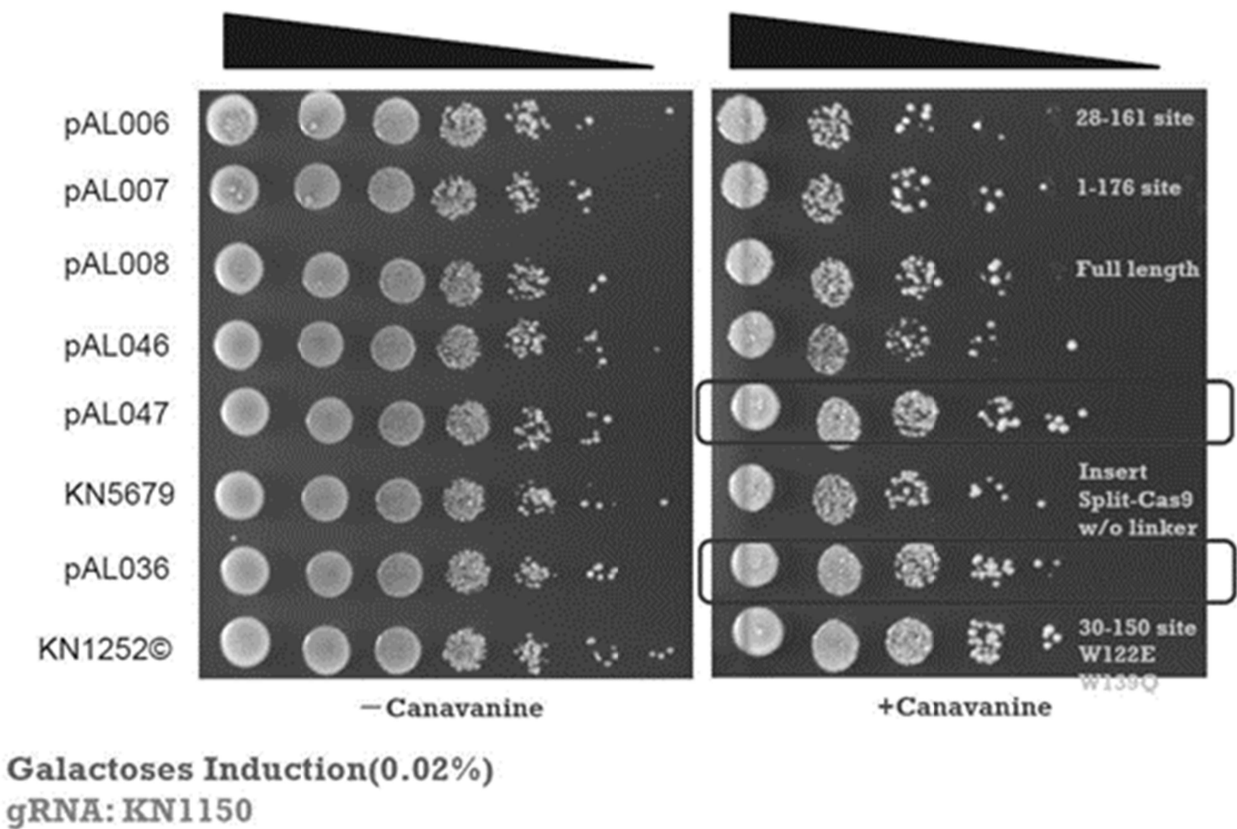


FIG.32

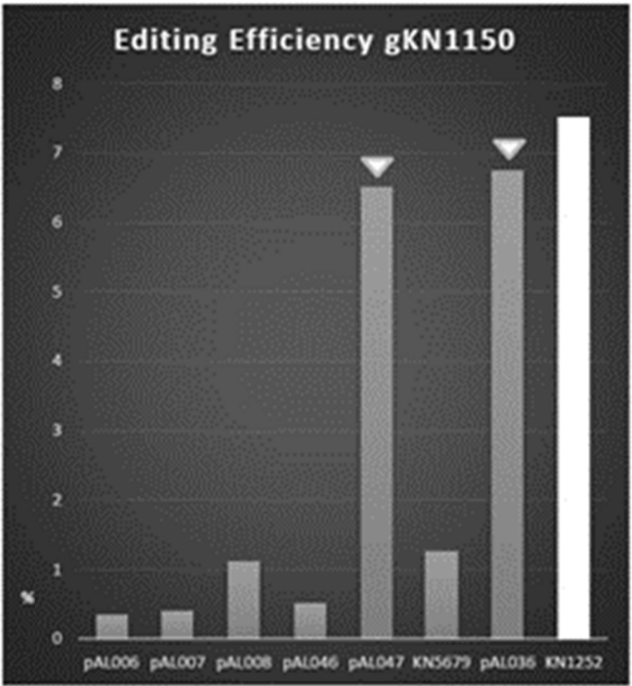
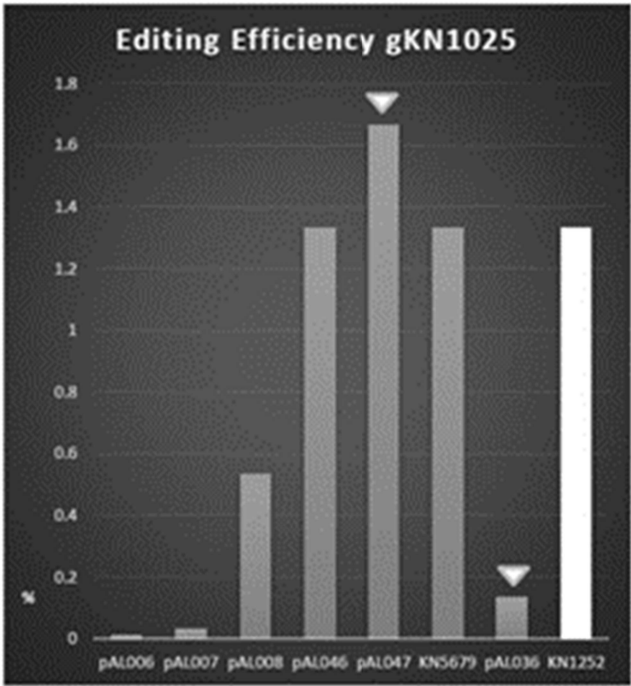


FIG.33

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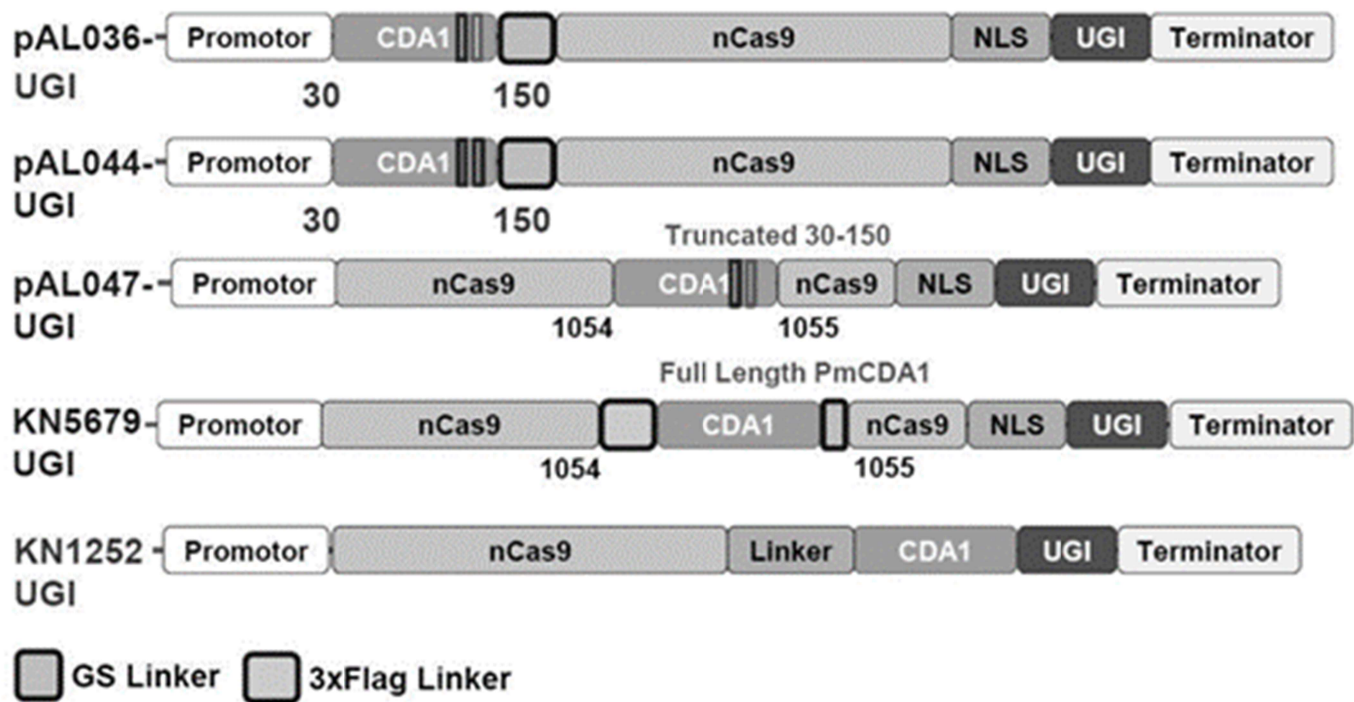


FIG.34

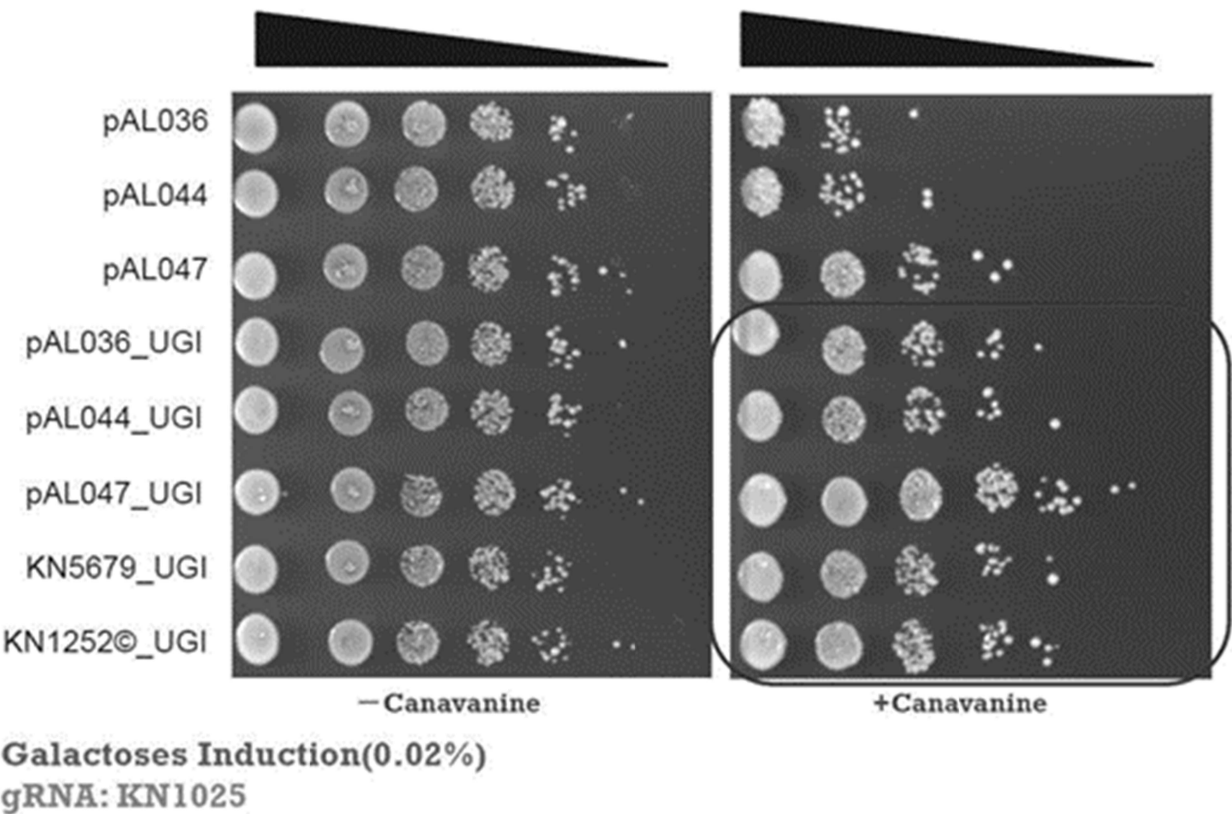


FIG.35

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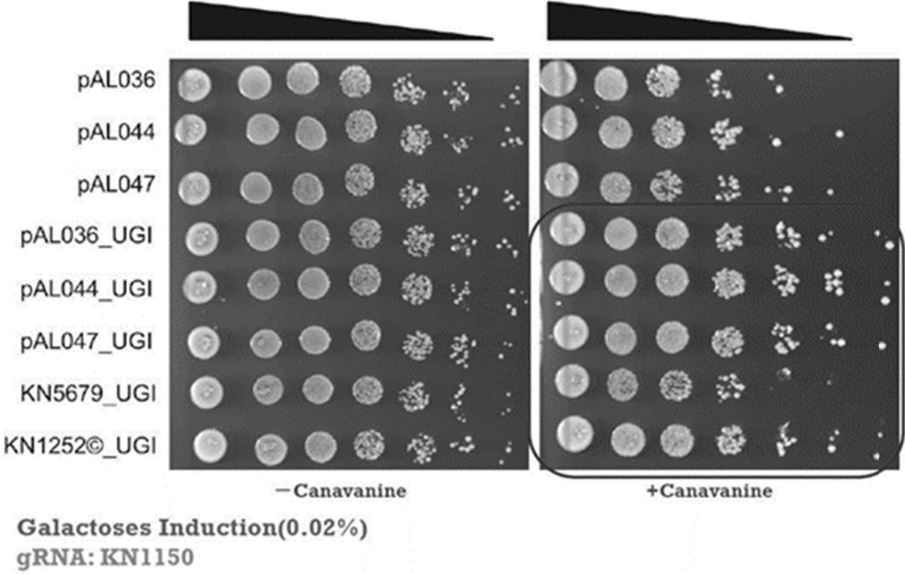


FIG.36

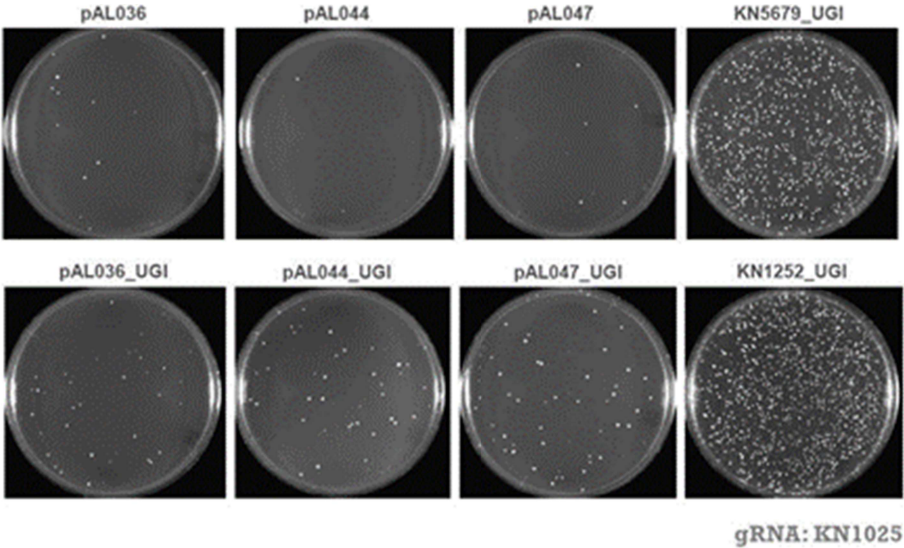


FIG.37

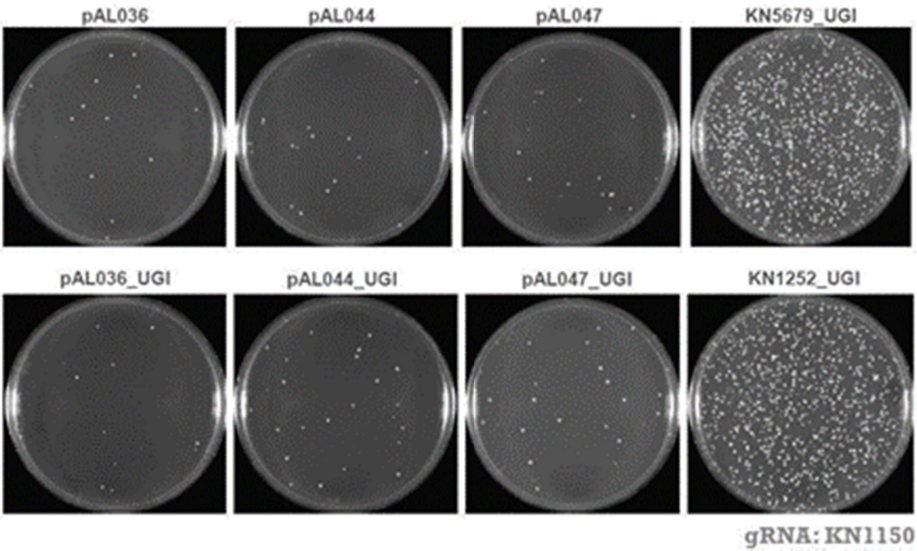


FIG.38

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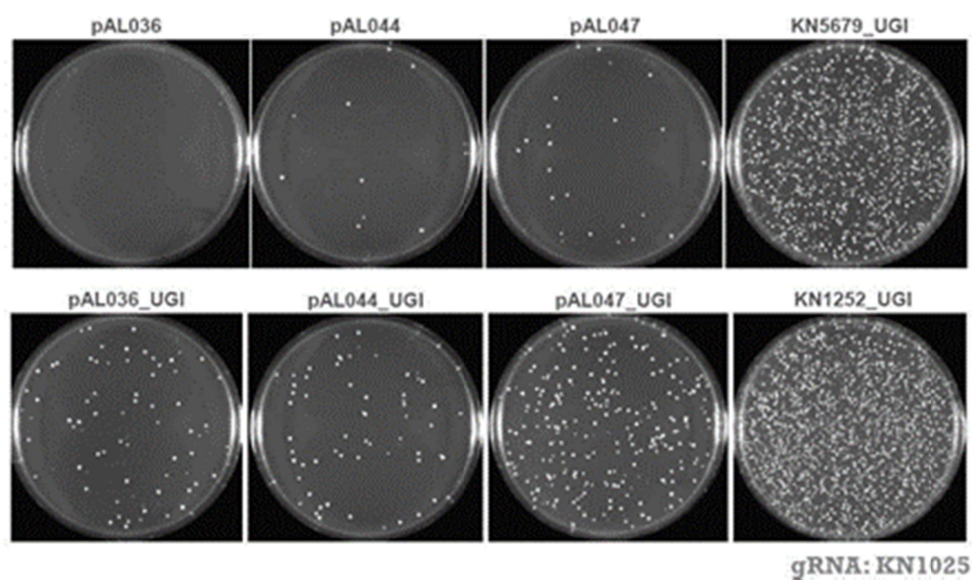


FIG.39

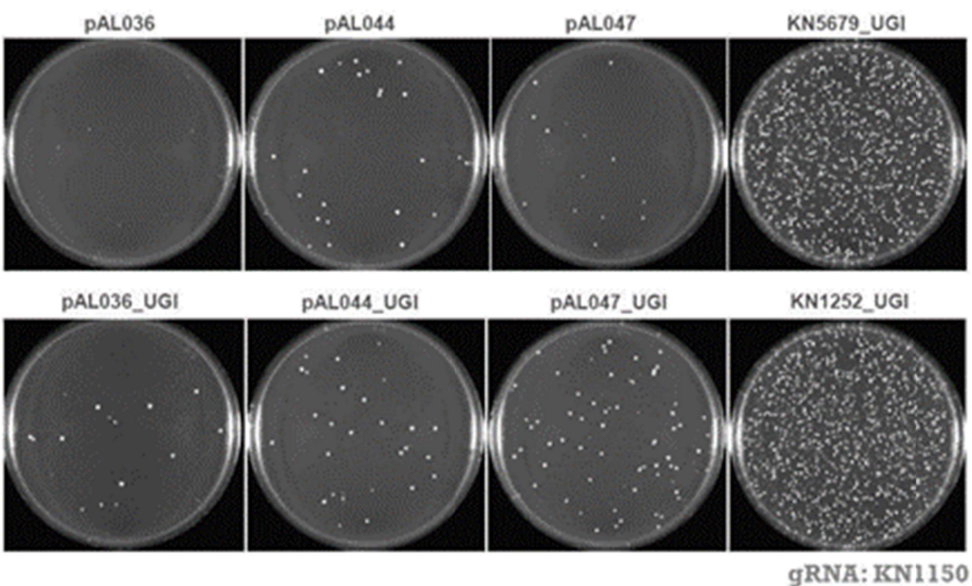


FIG.40

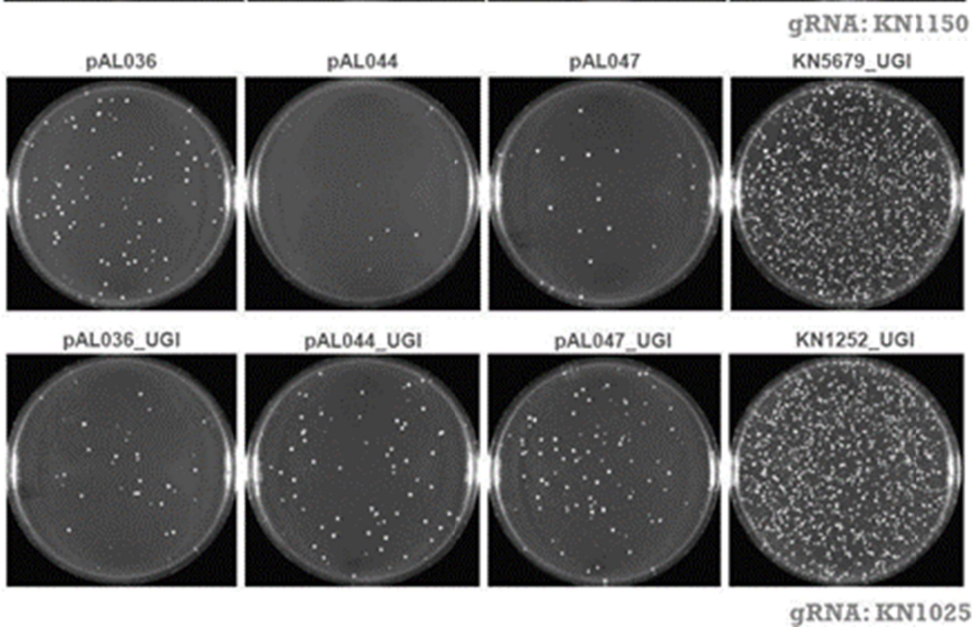


FIG.41

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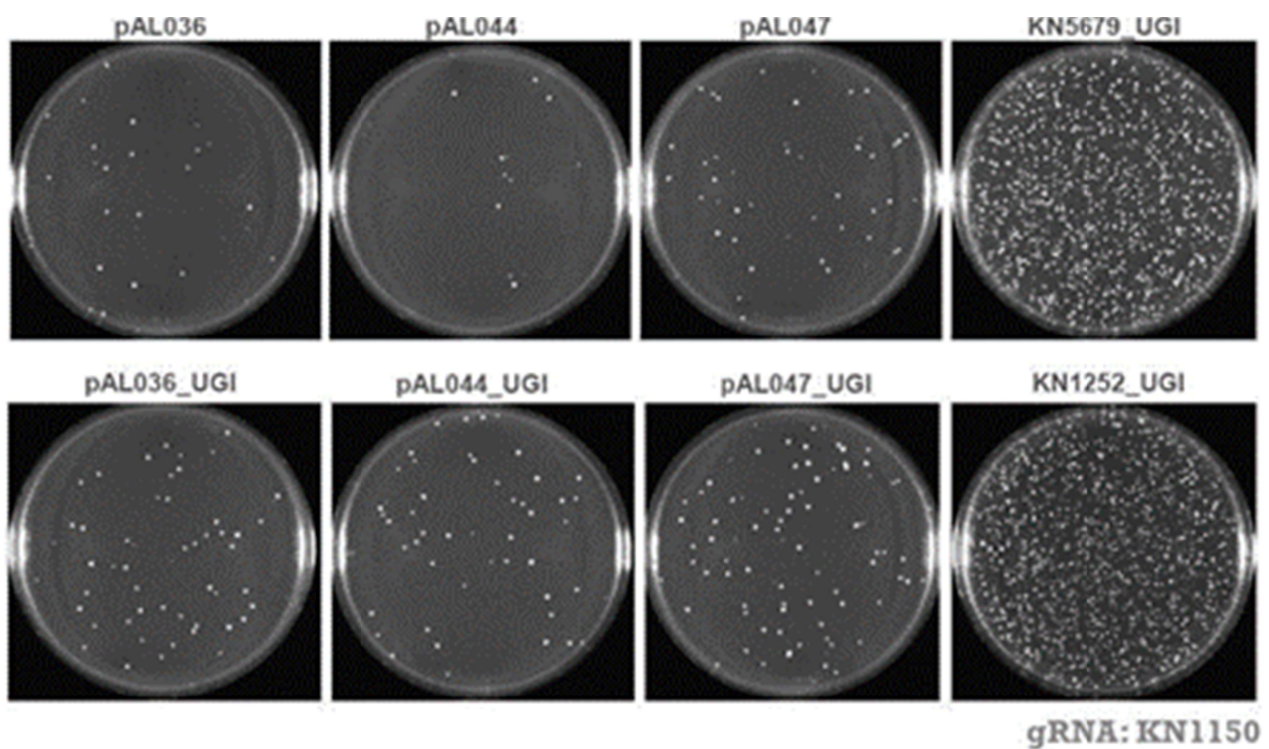


FIG.42

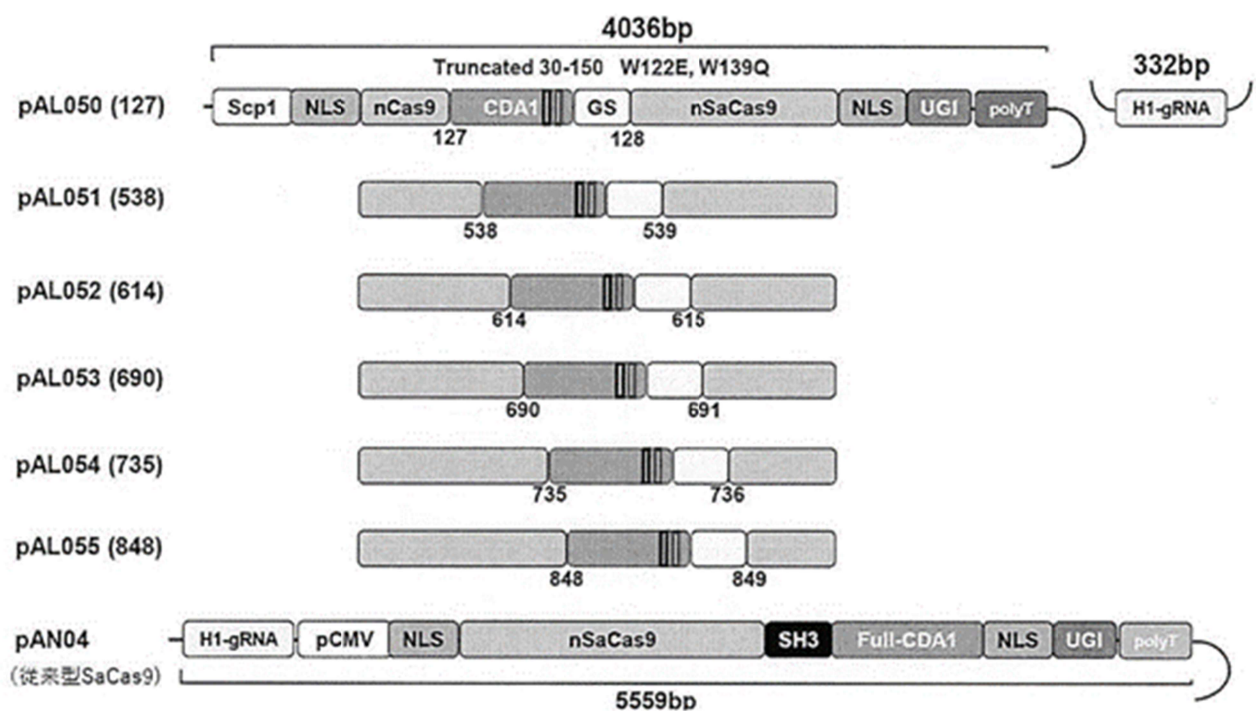


FIG.43

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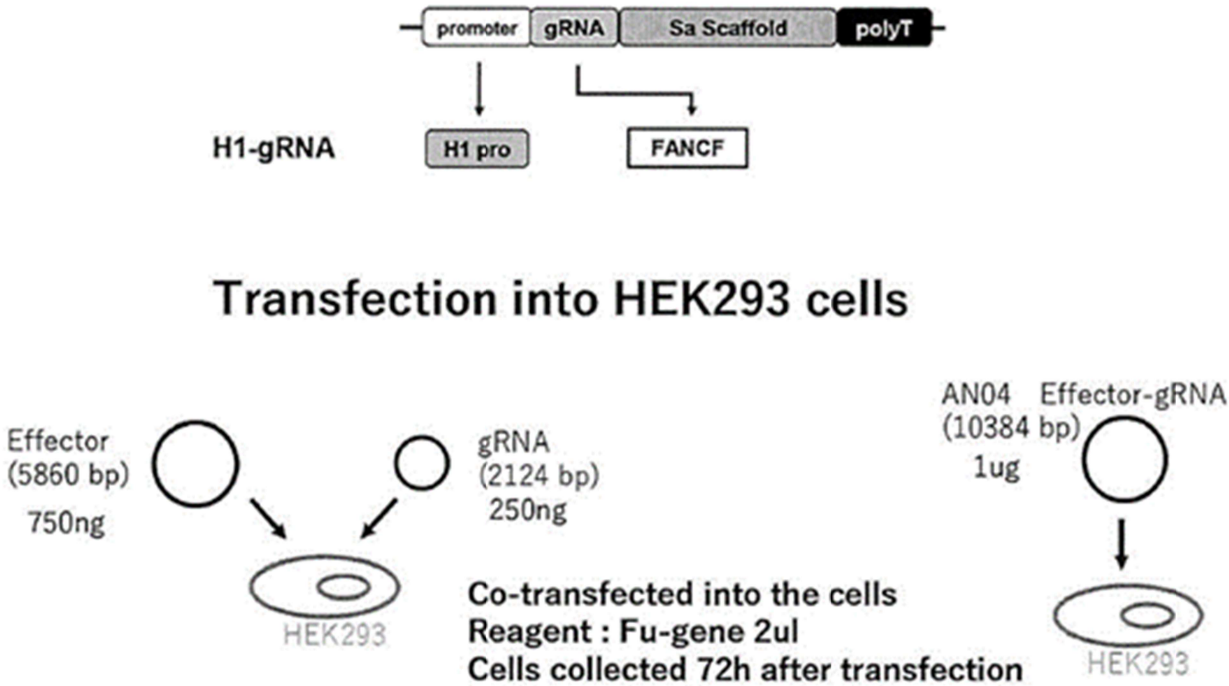


FIG.44

PAM: GAGAGT

GATGTTCCAATCAGTACGCA	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117
24 well	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
Reference	G	A	T	G	T	T	C	C	A	A	T	C	A	G	T	A	C
50_H1								>T 0.57				>T 0.5					
51_H1							>T 1.97	>T 2.82				>T 3.28					>T 1.29
52_H1							>T 18.23	>T 14.94				>T 19.00					>T 0.90
								>A 1.49				>G 4.27					
								>A 1.27				>A 1.27					
53_H1							>T 19.42	>T				>T 17.86					
							>G 4.27	13.97				>G 7.41					
							>A 0.67	>G 1.28				>A 1.92					>T 1.71
							>Del 0.65	>A 1.93				>Del 0.52					
54_H1							>T 31.96	>T 24.40				>T 26.10					
							>G 5.3	>G 2.31				>G 9.56					>T 0.49
							>A 2.37	>A 2.70				>A 2.44					
							1.12										
55_H1																	
AN04_Unsortin							>T 30.66	>T 29.15				>T 27.37					
g							>G 4.02					>G 2.43					
NC							>A 0.52					>A 0.53					

>5% >10% >20%

FIG.45

PAM: GAGAGT

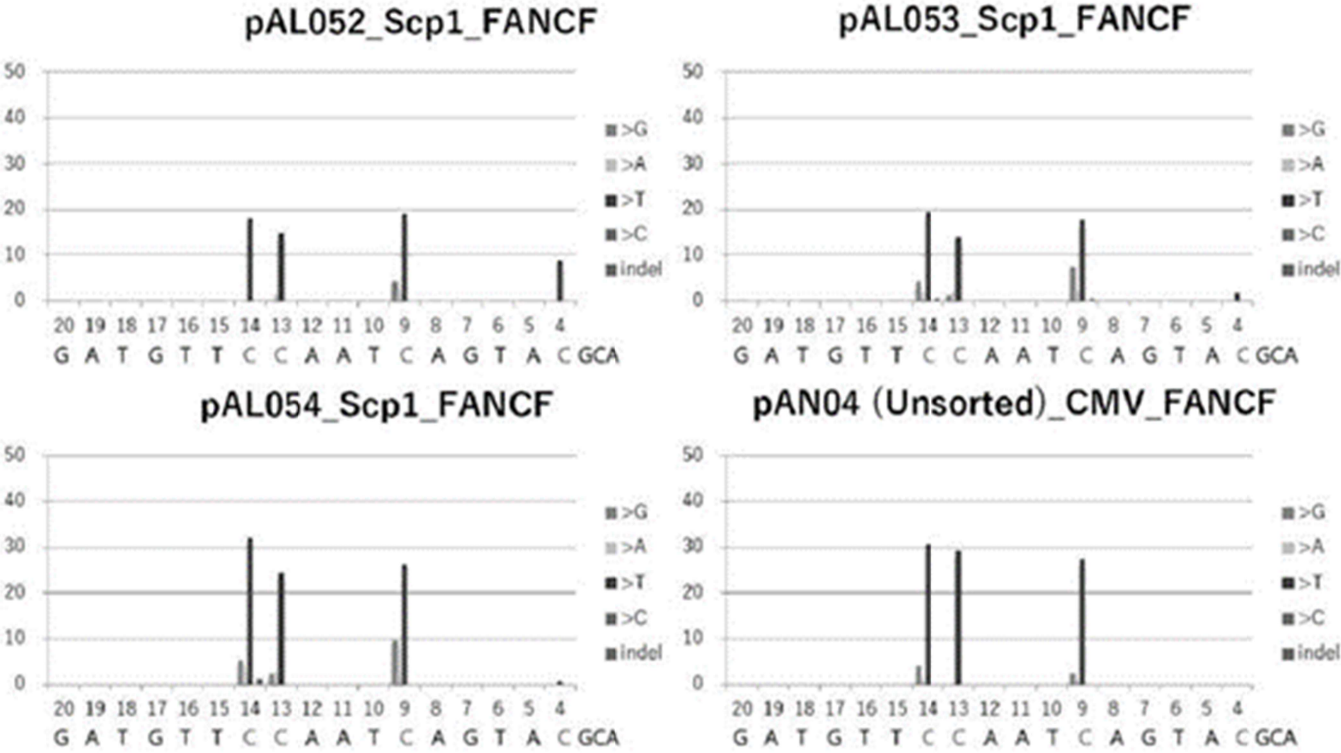


FIG.46

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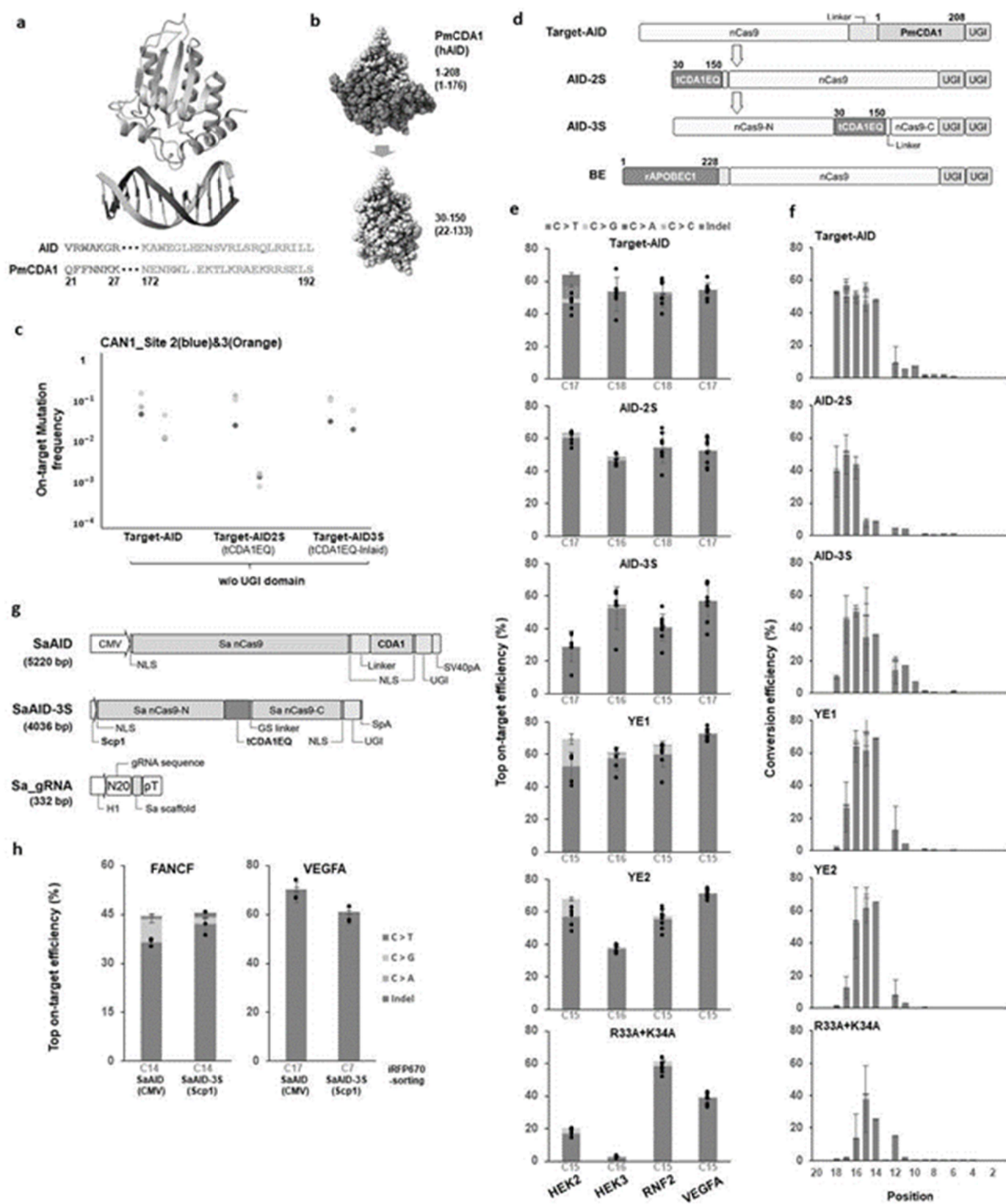


FIG.47

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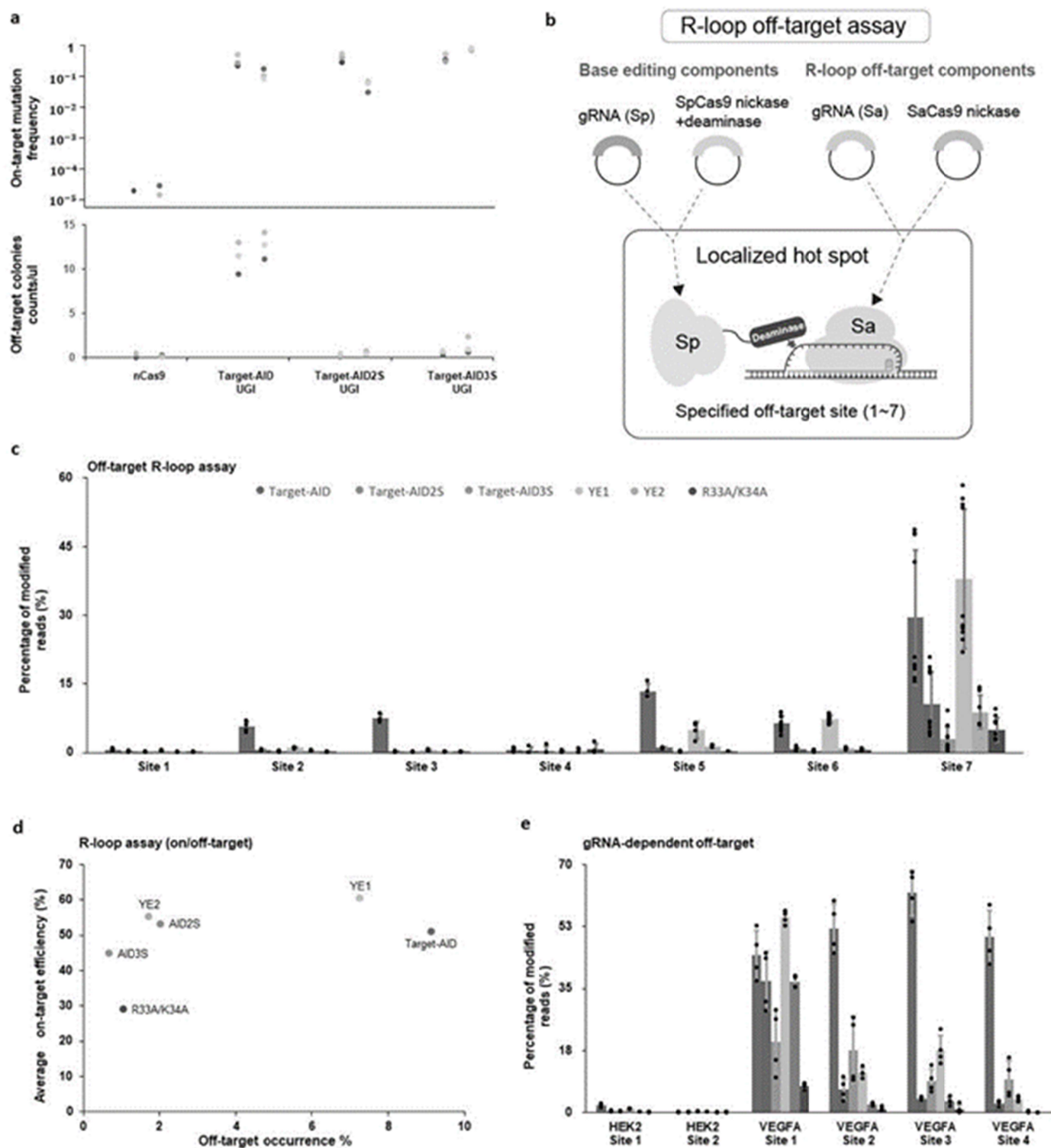


FIG.48

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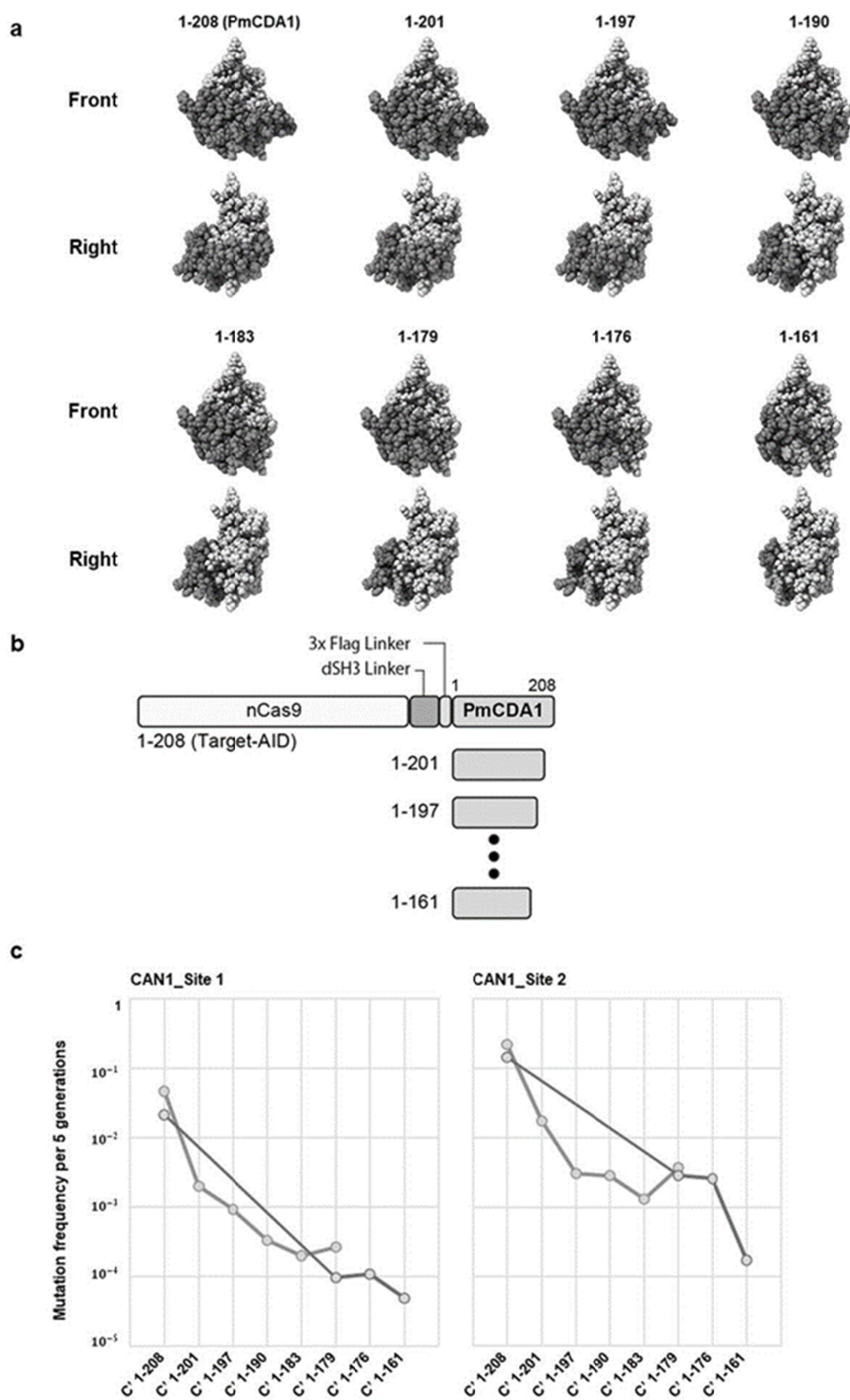


FIG.49

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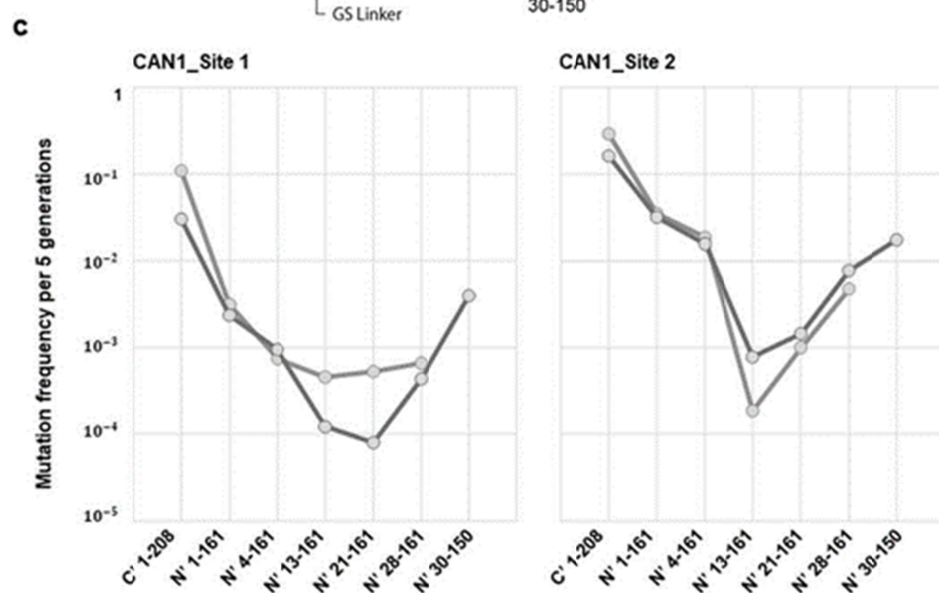
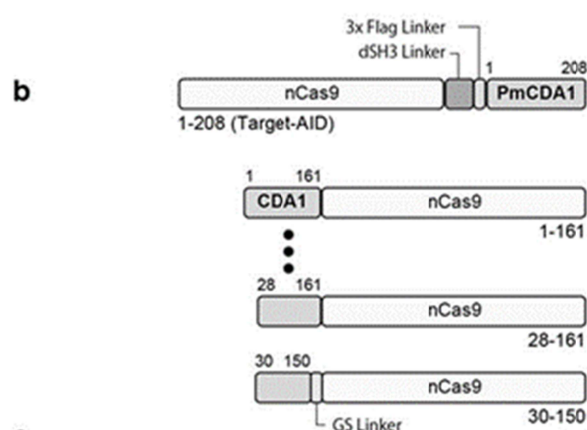
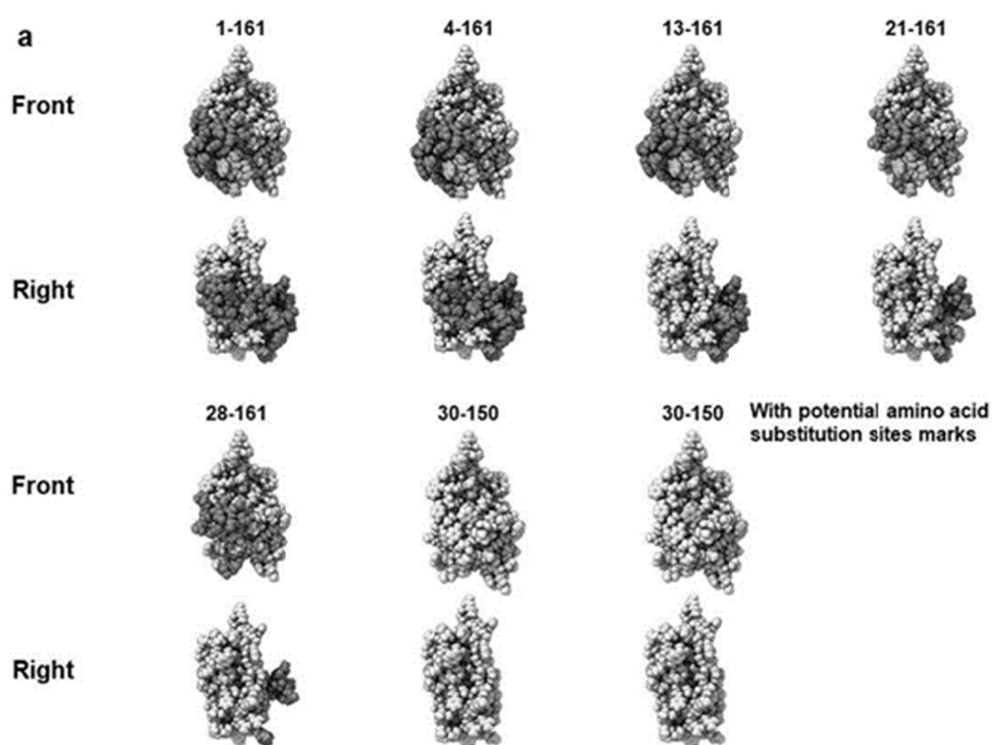


FIG.50

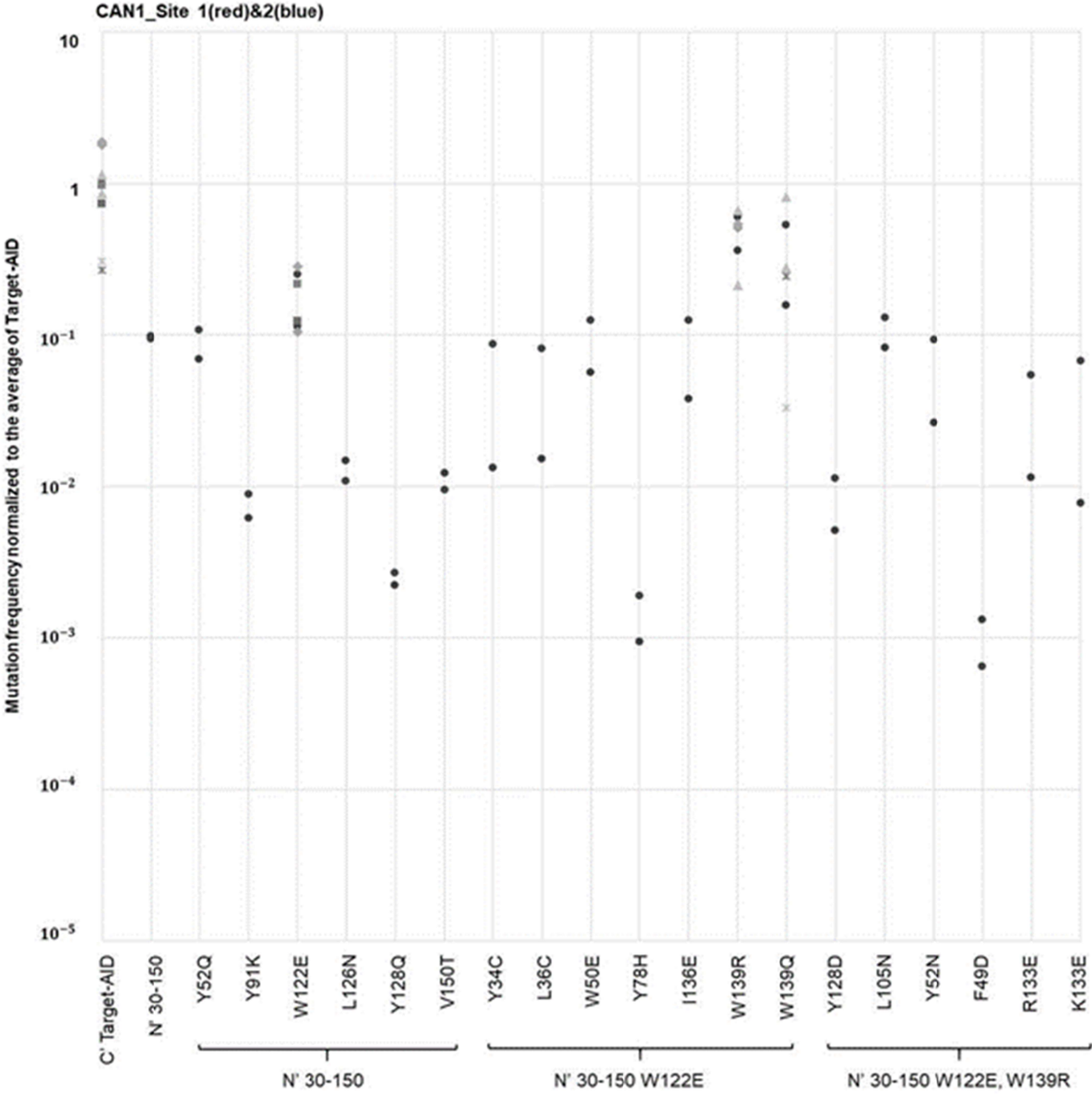
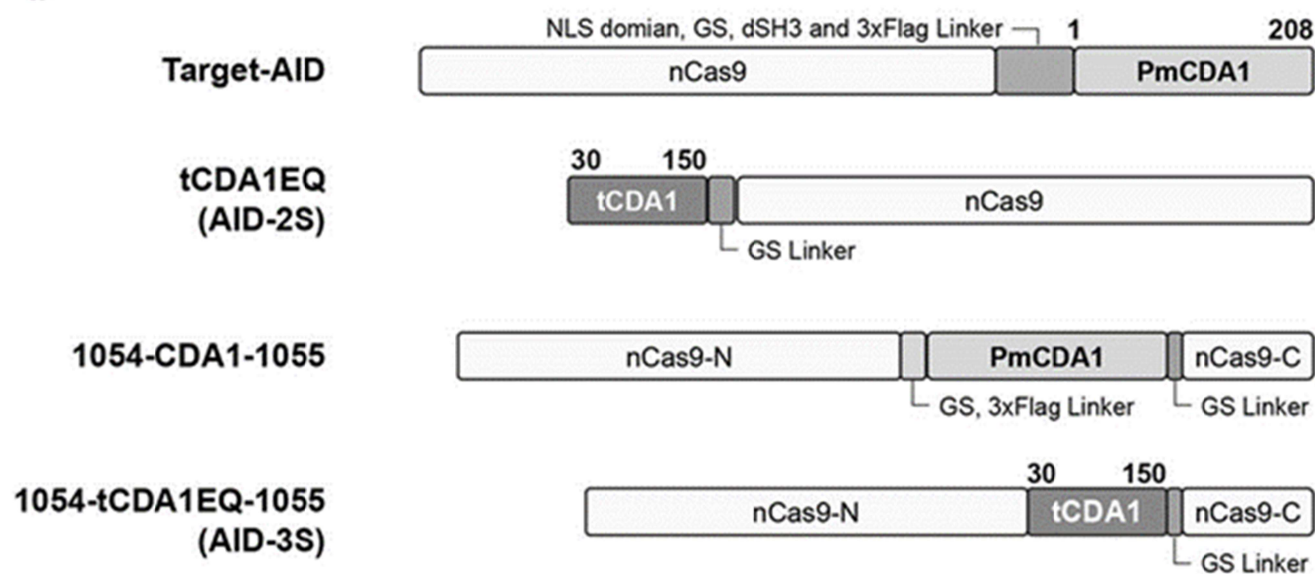


FIG.51

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a



b

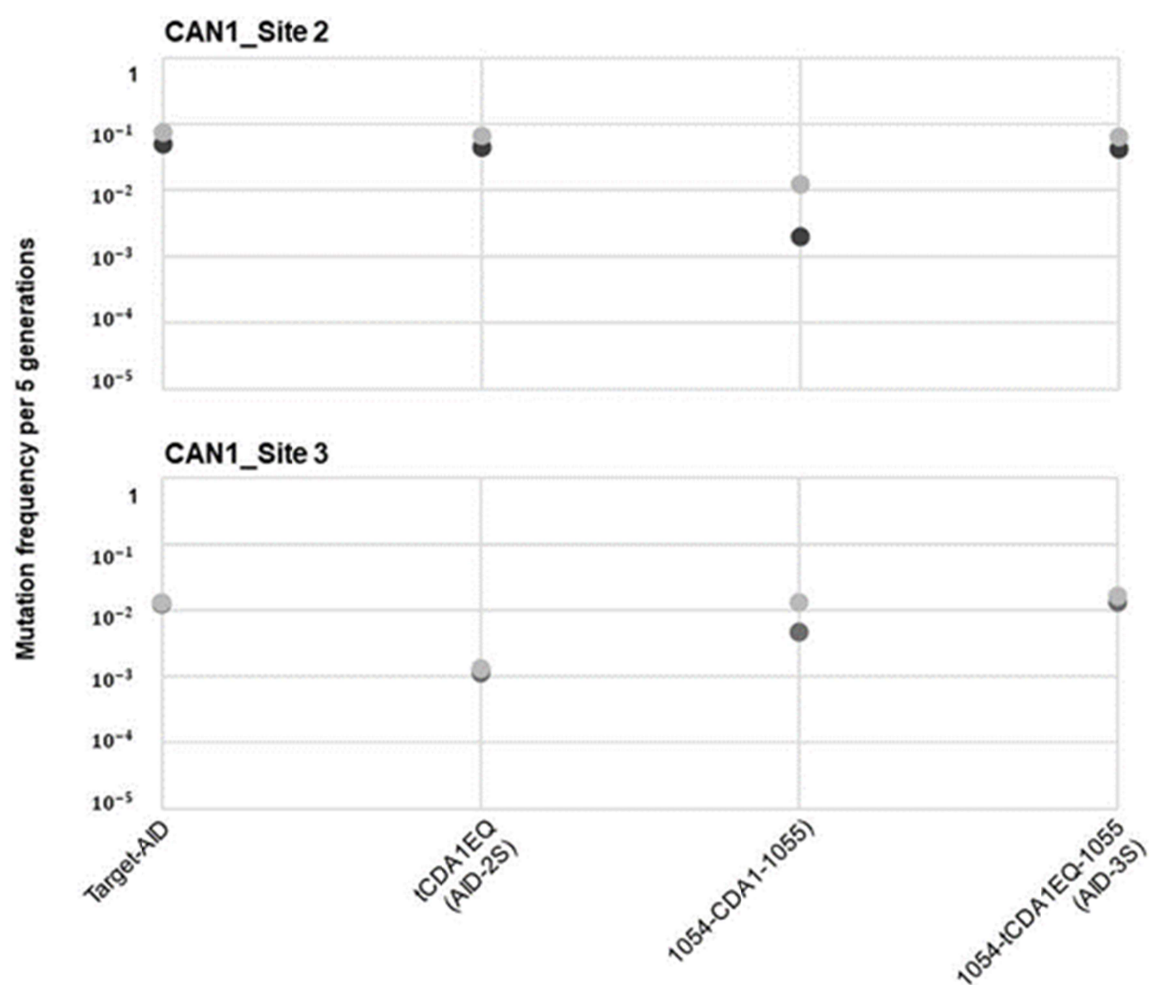


FIG.52

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