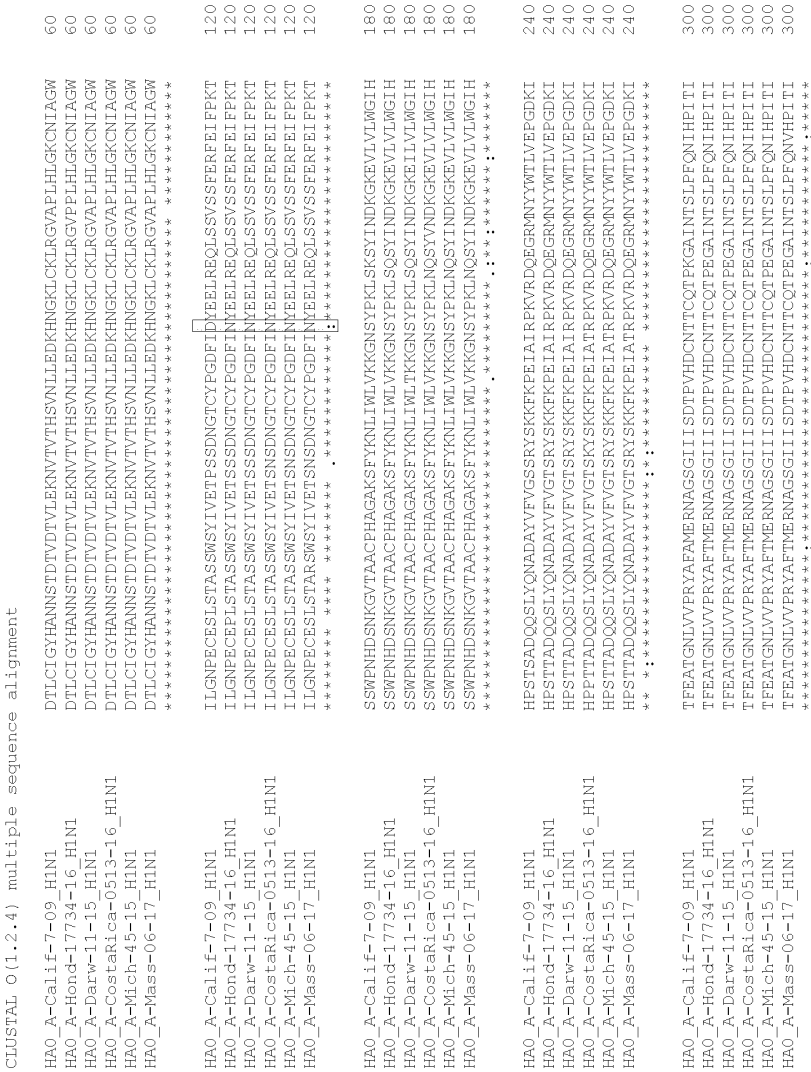


Figure 1



Continuation of Fig 1

HA0_A-Calif-7-09_H1N1	GKCPKYVKSTKRLATGRLRNVPISIQSRGLFGAIAAGFTIEGGWTGMVDGWGYGHQNEQSGG	360
HA0_A-Hond-17734-16_H1N1	GKCPKYVKSTKRLATGRLRNVPISIQSRGLFGAIAAGFTIEGGWTGMVDGWGYGHQNEQSGG	360
HA0_A-Darw-11-15_H1N1	GKCPKYVKSTKRLATGRLRNVPISIQSRGLFGAIAAGFTIEGGWTGMVDGWGYGHQNEQSGG	360
HA0_A-CostaRica-0513-16_H1N1	GKCPKYVKSTKRLATGRLRNVPISIQSRGLFGAIAAGFTIEGGWTGMVDGWGYGHQNEQSGG	360
HA0_A-Mich-45-15_H1N1	GKCPKYVKSTKRLATGRLRNVPISIQSRGLFGAIAAGFTIEGGWTGMVDGWGYGHQNEQSGG	360
HA0_A-Mass-06-17_H1N1	*****	360
HA0_A-Calif-7-09_H1N1	YAADLKSTONALDKITRKNSVIERKNTQFTAVGKEFNHLEKRIENLNKKYVDDGFLDIWT	420
HA0_A-Hond-17734-16_H1N1	YAADLKSTONALDKITRKNSVIERKNTQFTAVGKEFNHLEKRIENLNKKYVDDGFLDIWT	420
HA0_A-Darw-11-15_H1N1	YAADLKSTONALDKITRKNSVIERKNTQFTAVGKEFNHLEKRIENLNKKYVDDGFLDIWT	420
HA0_A-CostaRica-0513-16_H1N1	YAADLKSTONALDKITRKNSVIERKNTQFTAVGKEFNHLEKRIENLNKKYVDDGFLDIWT	420
HA0_A-Mich-45-15_H1N1	YAADLKSTONALDKITRKNSVIERKNTQFTAVGKEFNHLEKRIENLNKKYVDDGFLDIWT	420
HA0_A-Mass-06-17_H1N1	****	420
HA0_A-Calif-7-09_H1N1	YNAELLVLENERLTLDYHDSNVNLYEKVRSQLNNAKEIGNGCFEYHKCDNTCMESYK	480
HA0_A-Hond-17734-16_H1N1	YNAELLVLENERLTLDYHDSNVNLYEKVRSQLNNAKEIGNGCFEYHKCDNTCMESYK	480
HA0_A-Darw-11-15_H1N1	YNAELLVLENERLTLDYHDSNVNLYEKVRSQLNNAKEIGNGCFEYHKCDNTCMESYK	480
HA0_A-CostaRica-0513-16_H1N1	YNAELLVLENERLTLDYHDSNVNLYEKVRSQLNNAKEIGNGCFEYHKCDNTCMESYK	480
HA0_A-Mich-45-15_H1N1	YNAELLVLENERLTLDYHDSNVNLYEKVRSQLNNAKEIGNGCFEYHKCDNTCMESYK	480
HA0_A-Mass-06-17_H1N1	*****	480
HA0_A-Calif-7-09_H1N1	NGTYDPKYSEEAKEINREKIDGKLESTRIYQILAIYSTVASSLVVLSLGAISFWMCSN	540
HA0_A-Hond-17734-16_H1N1	NGTYDPKYSEEAKEINREKIDGKLESTRIYQILAIYSTVASSLVVLSLGAISFWMCSN	540
HA0_A-Darw-11-15_H1N1	NGTYDPKYSEEAKEINREKIDGKLESTRIYQILAIYSTVASSLVVLSLGAISFWMCSN	540
HA0_A-CostaRica-0513-16_H1N1	NGTYDPKYSEEAKEINREKIDGKLESTRIYQILAIYSTVASSLVVLSLGAISFWMCSN	540
HA0_A-Mich-45-15_H1N1	NGTYDPKYSEEAKEINREKIDGKLESTRIYQILAIYSTVASSLVVLSLGAISFWMCSN	540
HA0_A-Mass-06-17_H1N1	*****	540
HA0_A-Calif-7-09_H1N1	GSQQCRIC1 549	
HA0_A-Hond-17734-16_H1N1	GSQQCRIC1 549	
HA0_A-Darw-11-15_H1N1	GSQQCRIC1 549	
HA0_A-CostaRica-0513-16_H1N1	GSQQCRIC1 549	
HA0_A-Mich-45-15_H1N1	GSQQCRIC1 549	
HA0_A-Mass-06-17_H1N1	*****	

Figure 2C

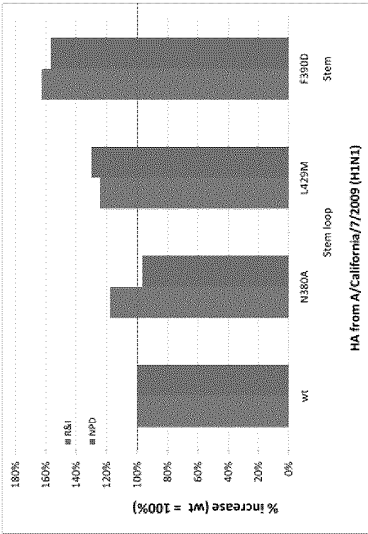


Figure 2A

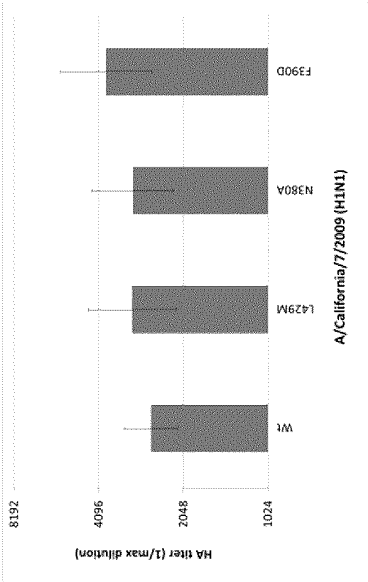


Figure 2B

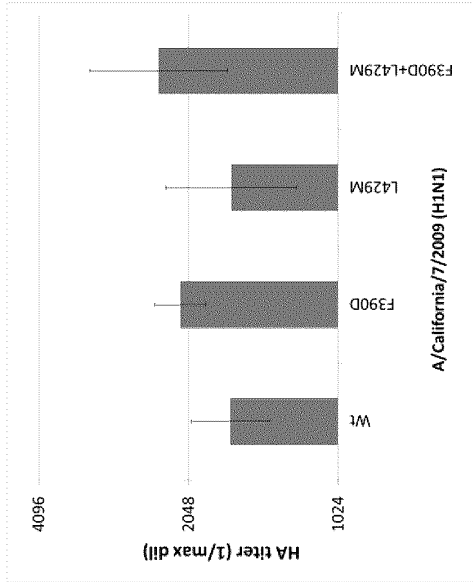


Figure 3B

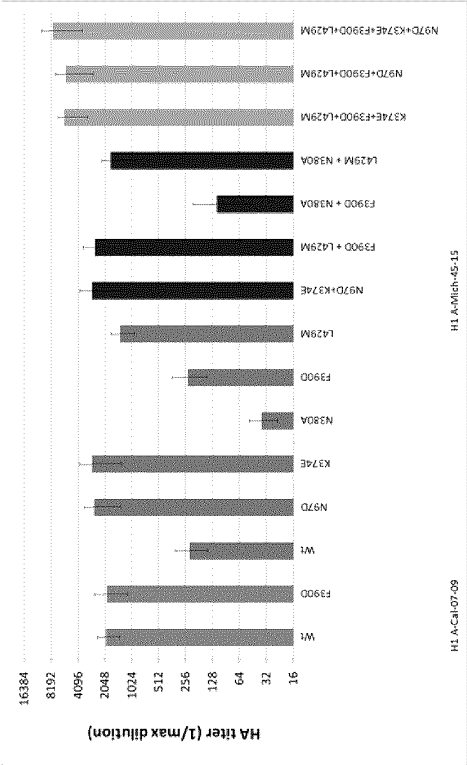


Figure 3A

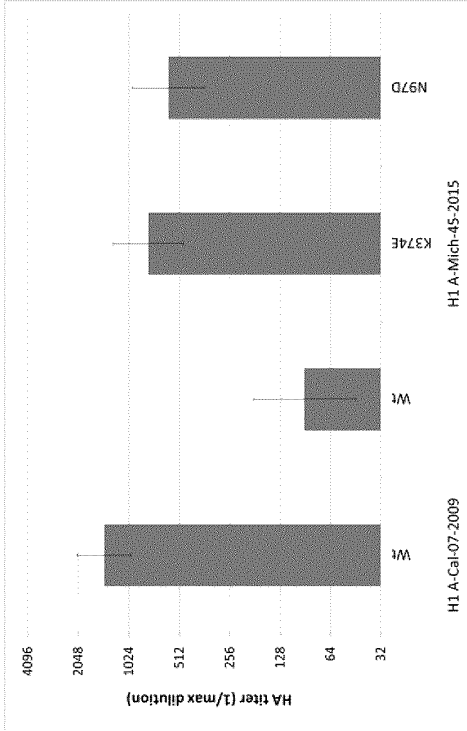


Figure 4B

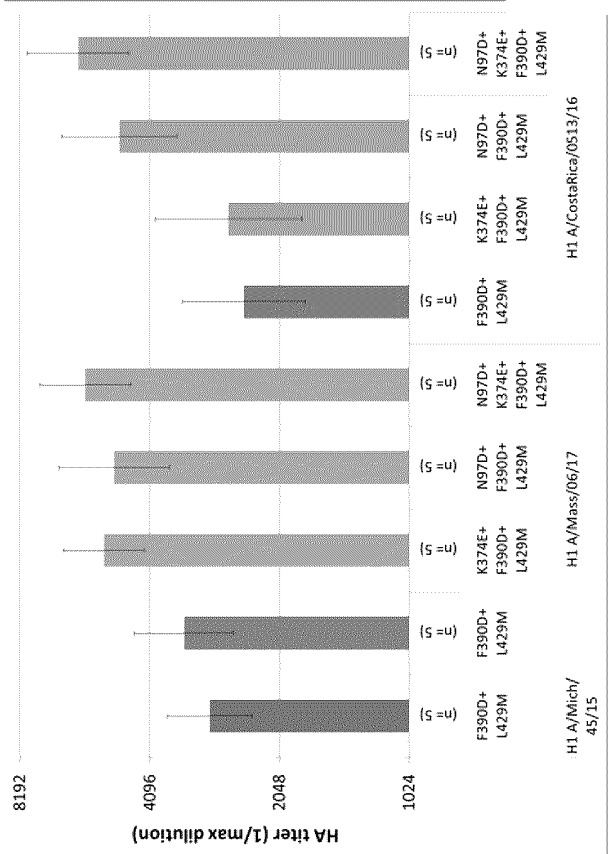


Figure 4A

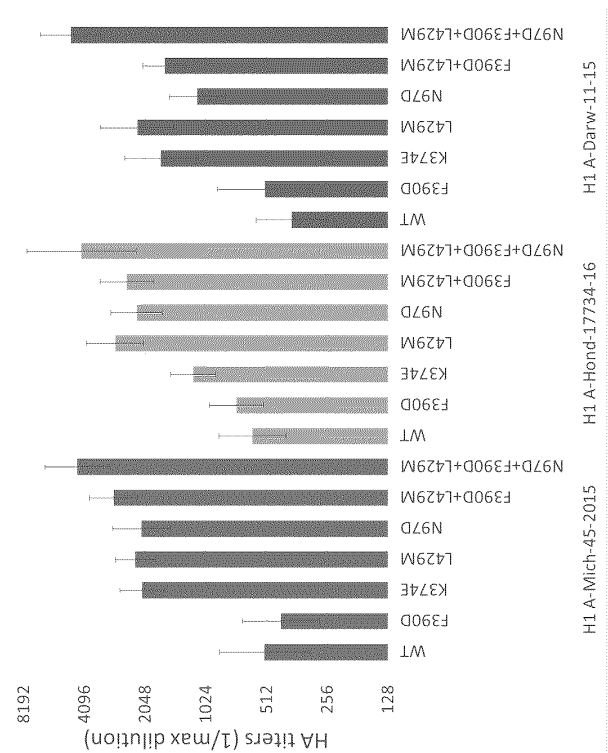


Figure 4C

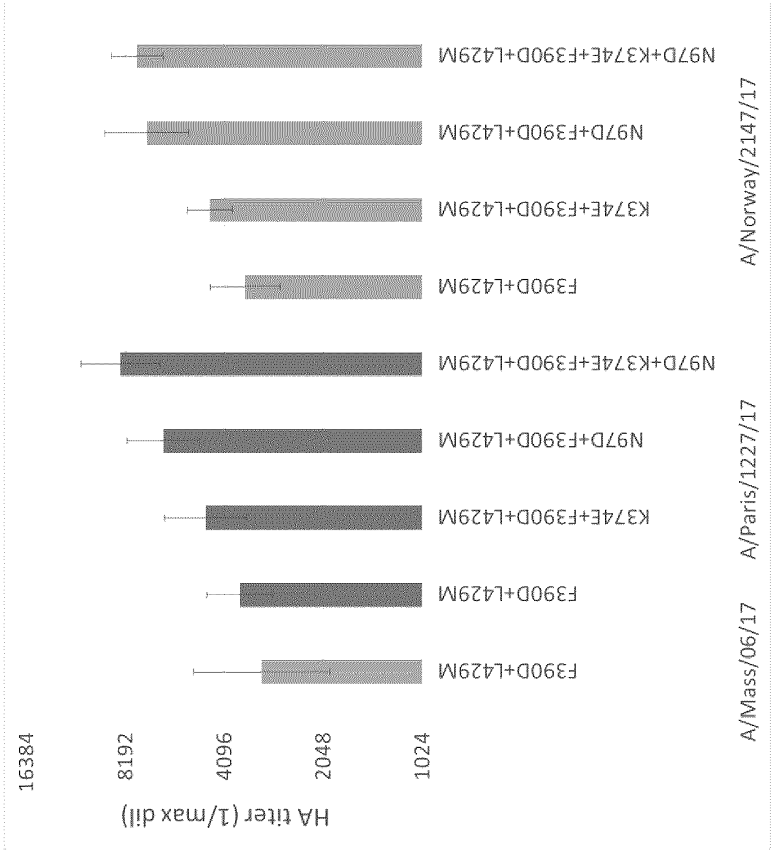


Figure 5

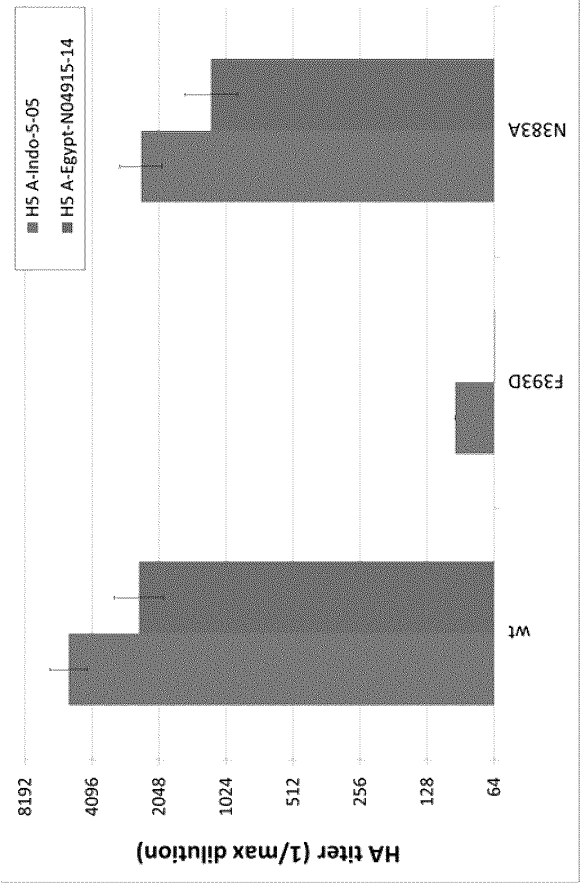


Figure 6B: Schematic representation of vector 2980

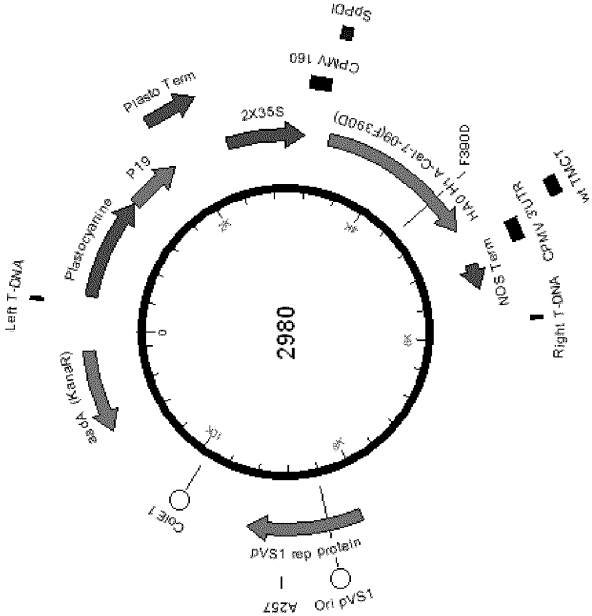


Figure 6A: Schematic representation of vector 1314

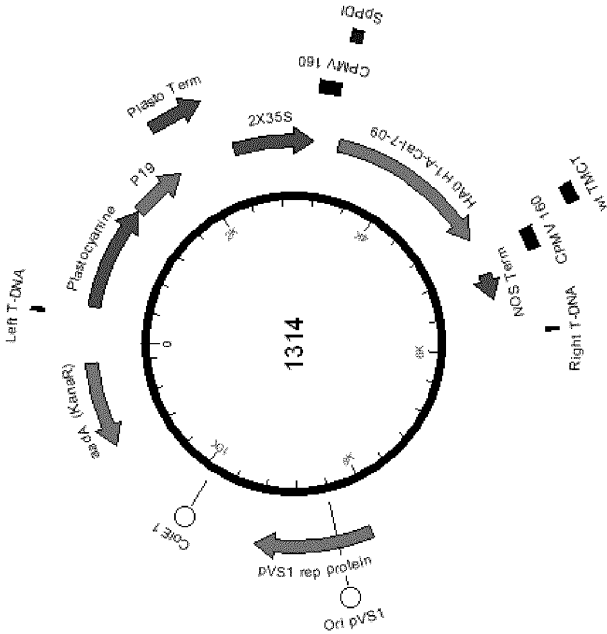


Figure 6D: Schematic representation of vector 2995

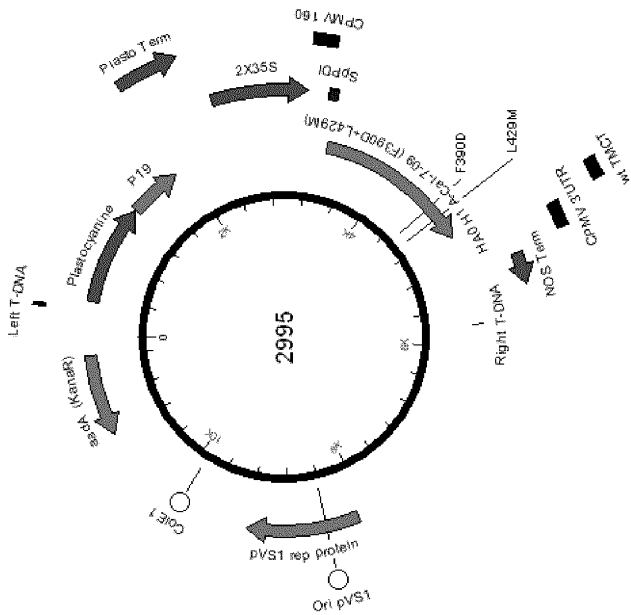


Figure 6C: Schematic representation of vector 2962

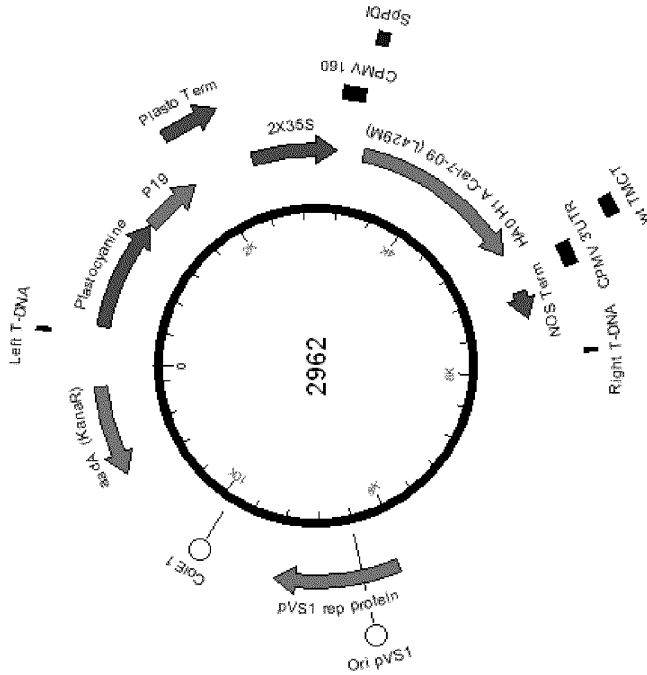


Figure 6F: Schematic representation of vector 3774

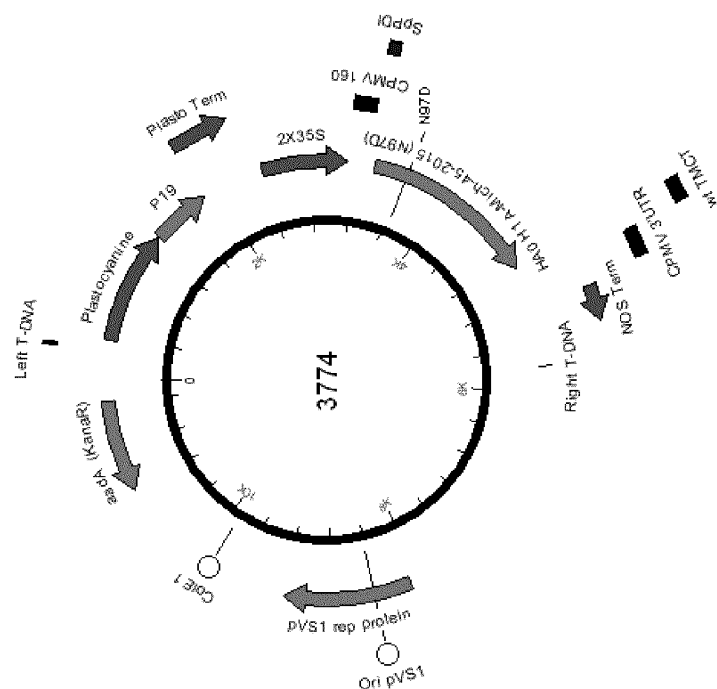


Figure 6E: Schematic representation of vector 3640

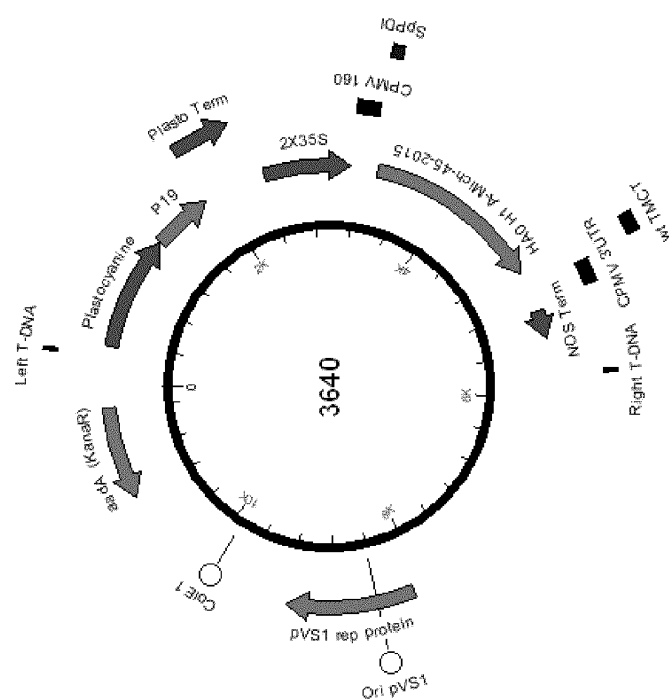


Figure 6H: Schematic representation of vector 3641

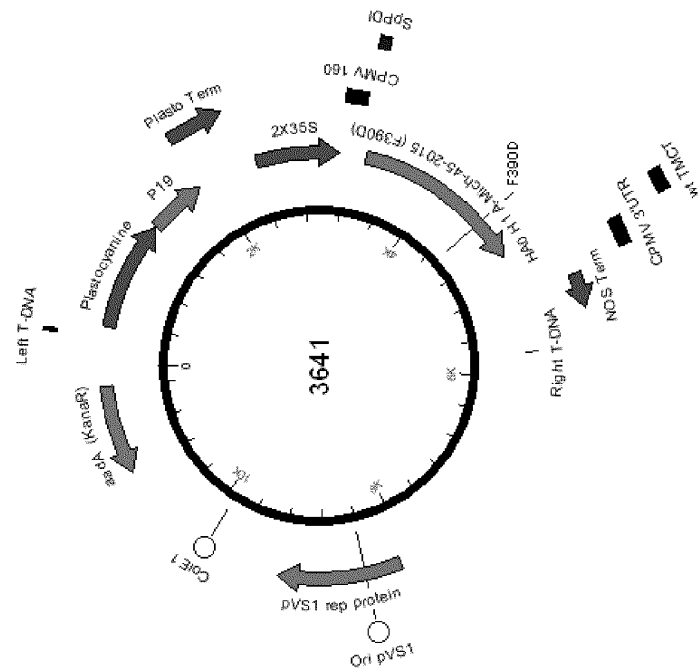


Figure 6G: Schematic representation of vector 3771

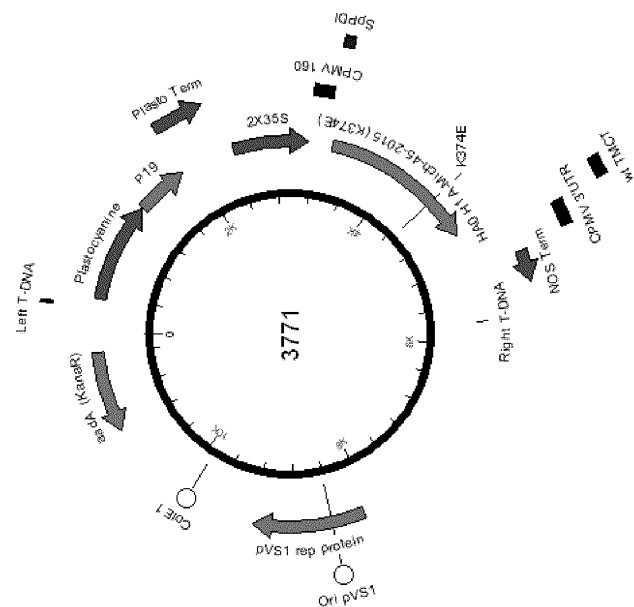


Figure 6J: Schematic representation of vector 3880

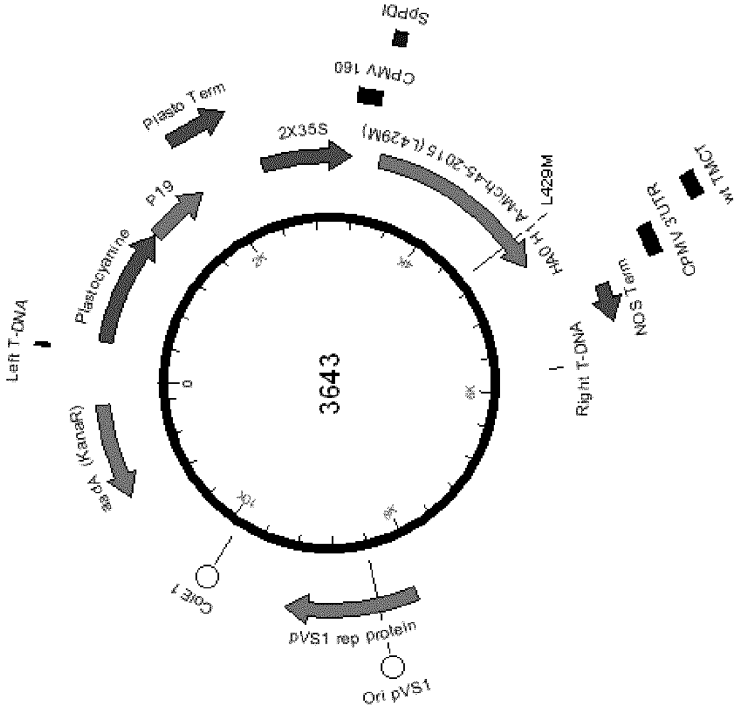


Figure 6I: Schematic representation of vector 3643

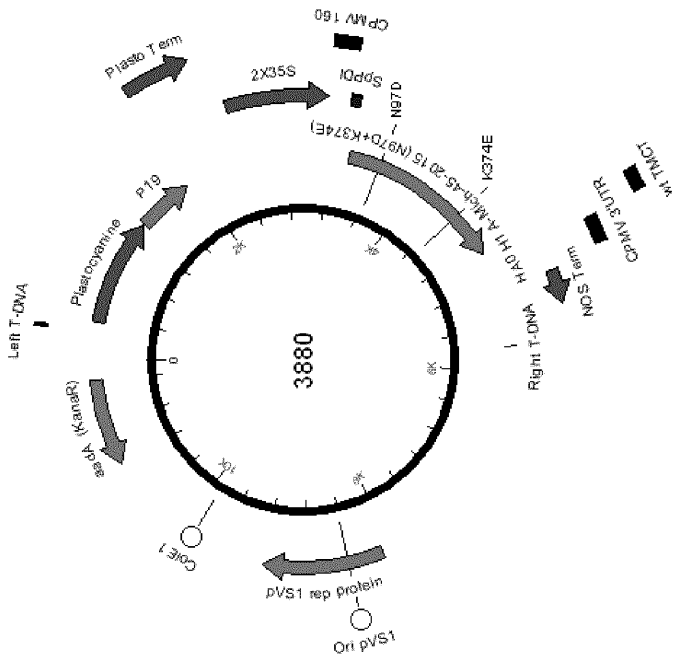


Figure 6L: Schematic representation of vector 3879

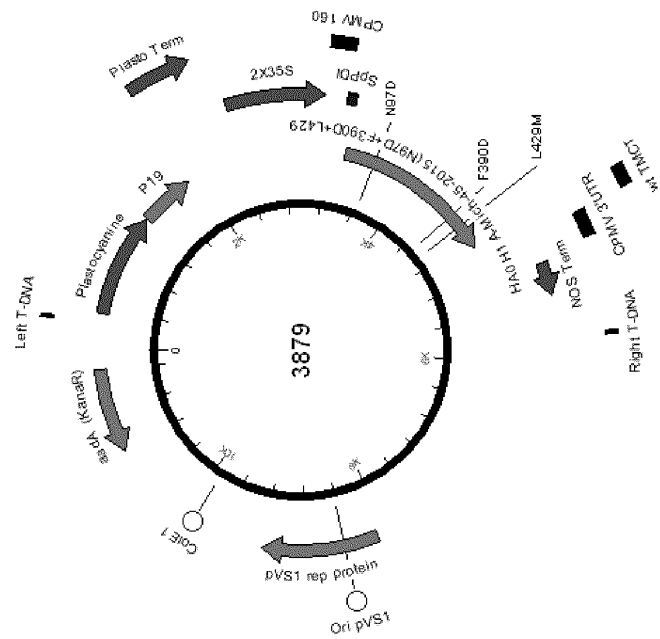


Figure 6K: Schematic representation of vector 3703

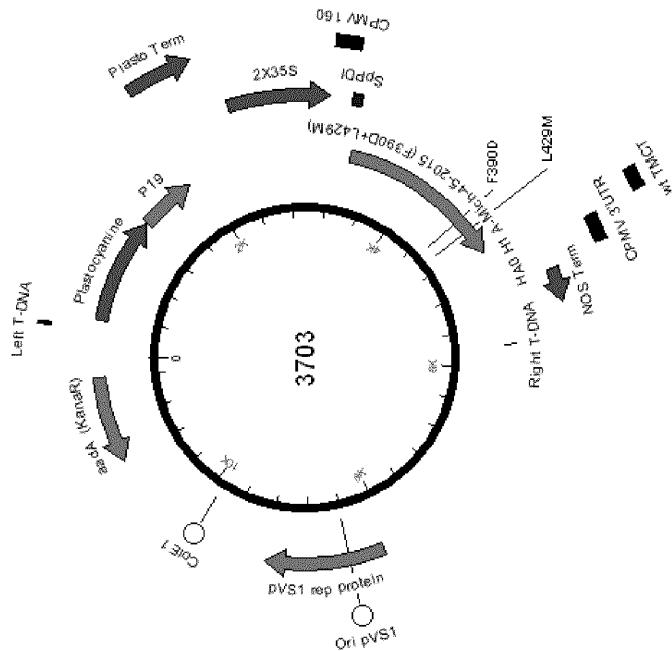


Figure 6N: Schematic representation of vector 3881

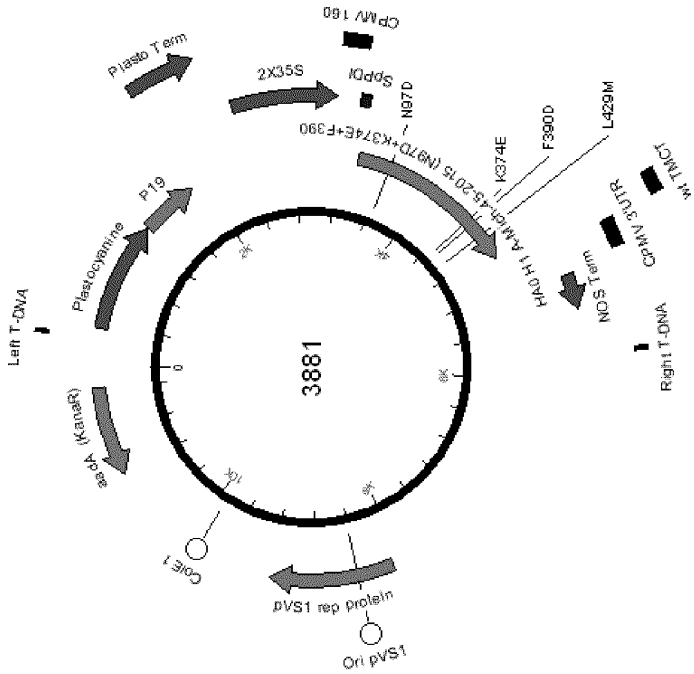


Figure 6M: Schematic representation of vector 3878

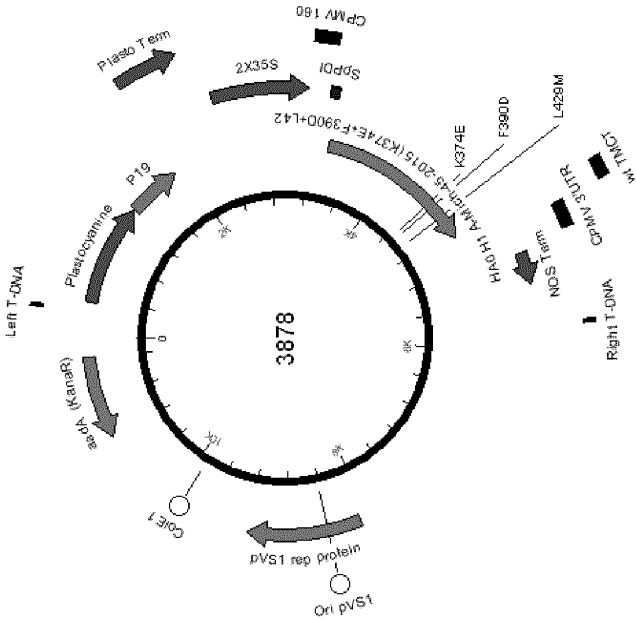


Figure 6P: Schematic representation of vector 4093

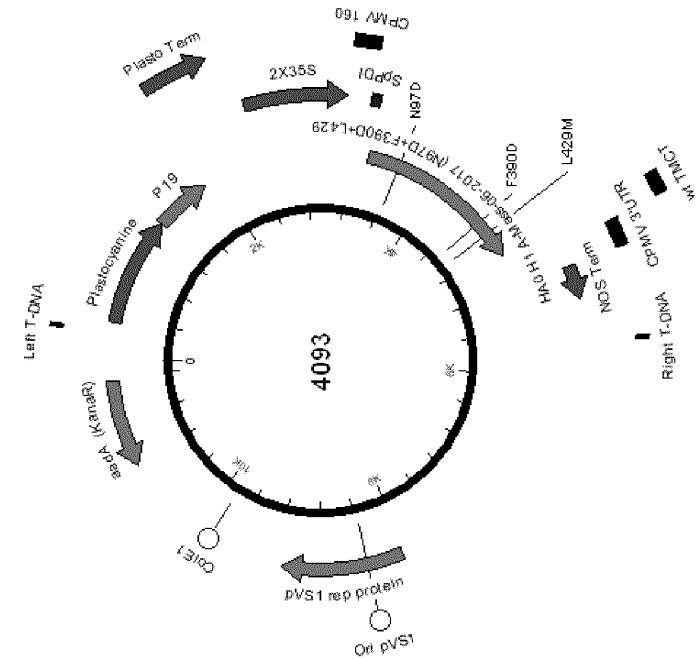


Figure 6O: Schematic representation of vector 4091

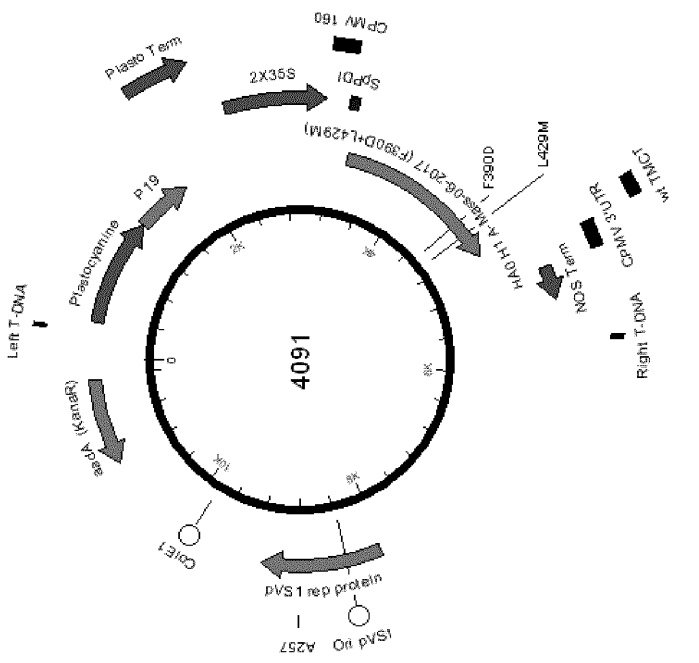


Figure 6R: Schematic representation of vector 4094

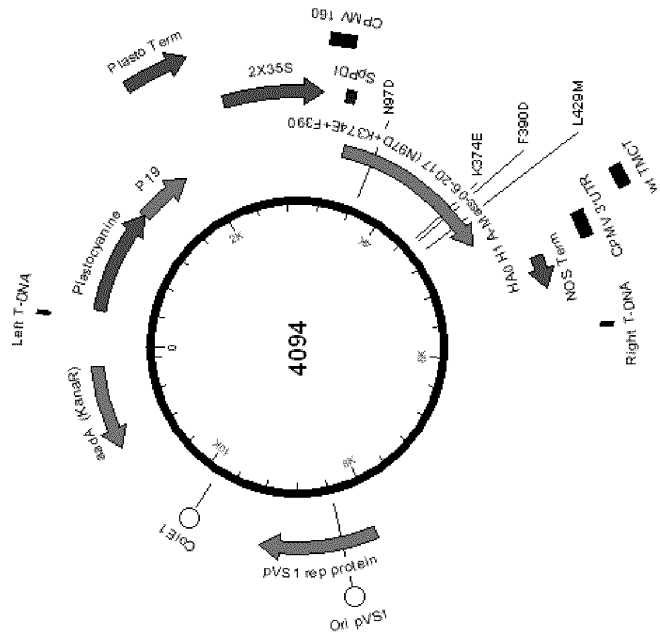


Figure 6Q: Schematic representation of vector 4092

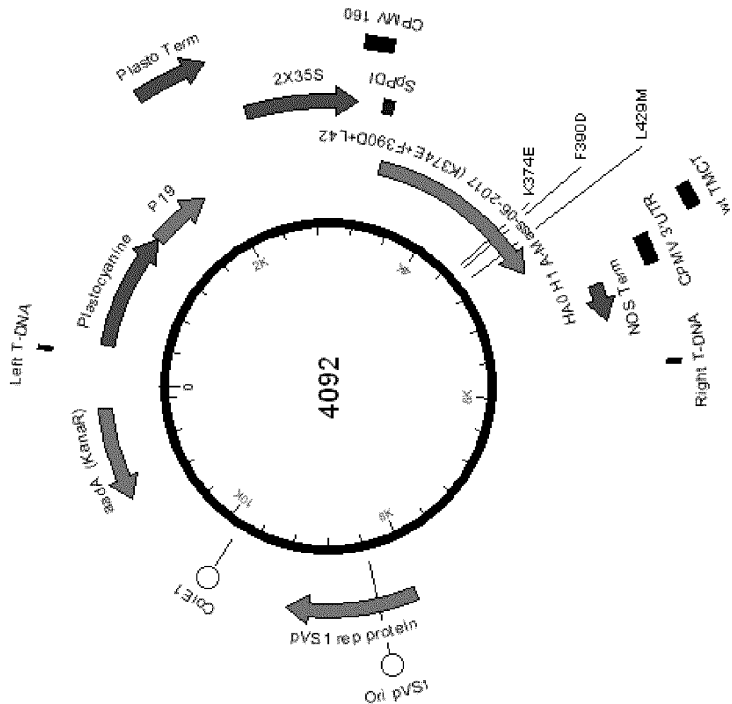


Figure 6T: Schematic representation of vector 4717

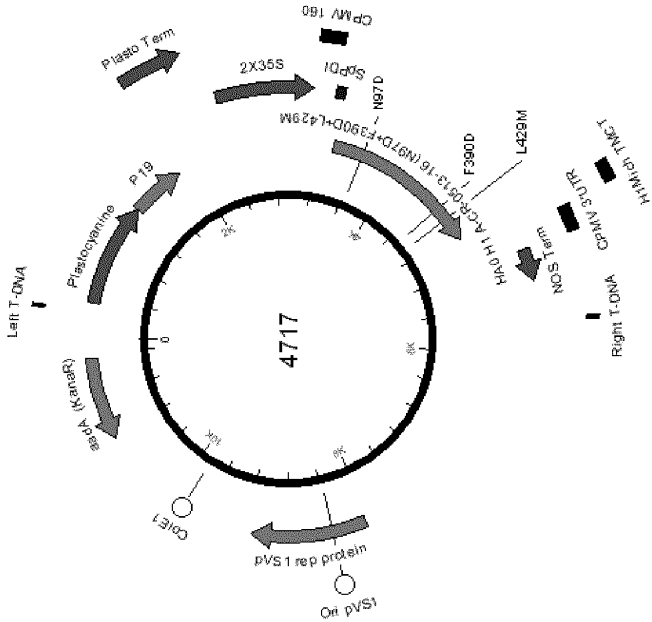


Figure 6S: Schematic representation of vector 4715

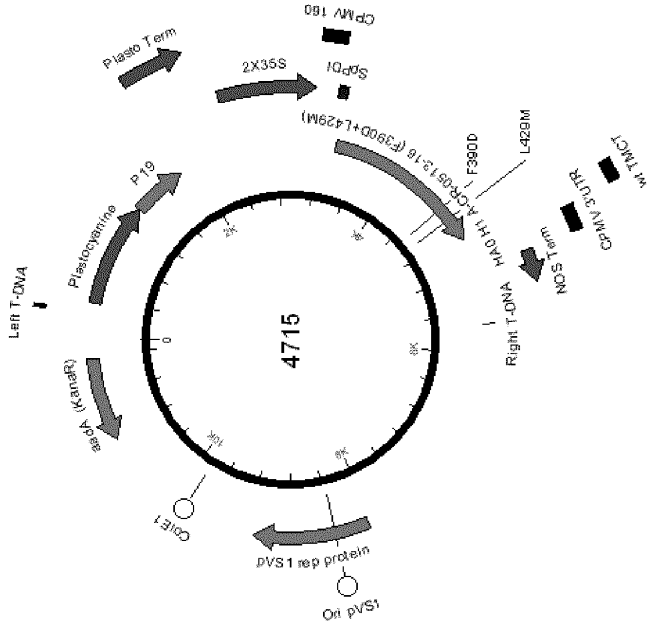


Figure 6V: Schematic representation of vector 4718

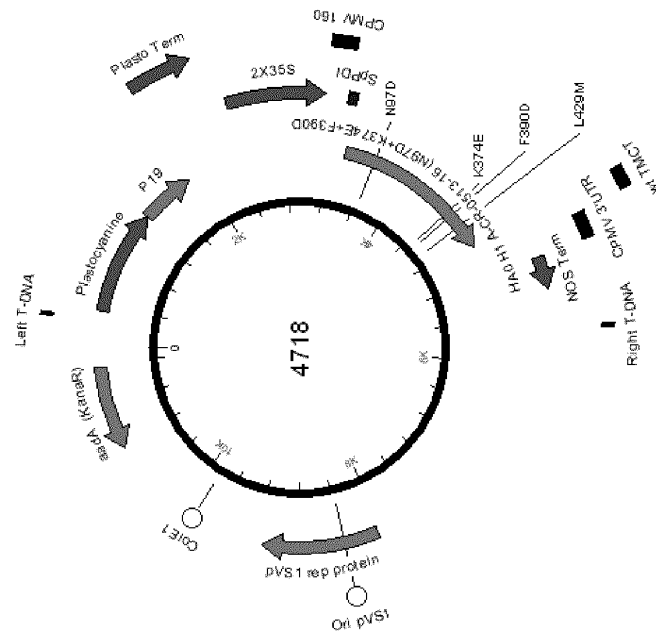


Figure 6U: Schematic representation of vector 4716

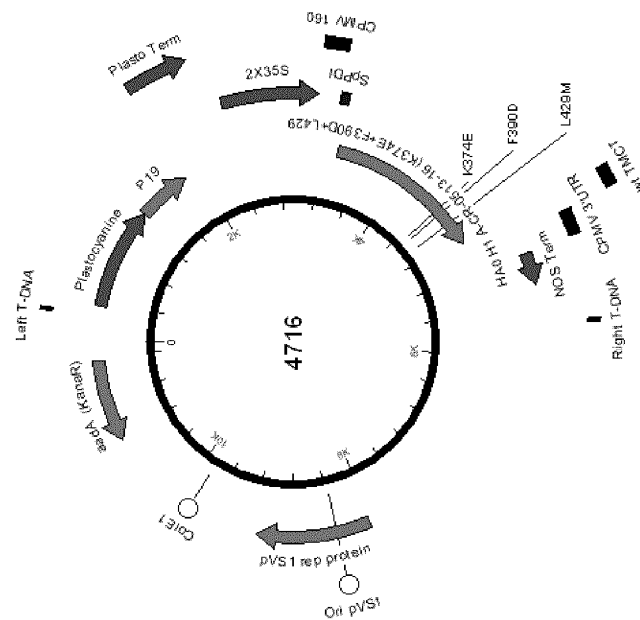


Figure 6X: Schematic representation of vector 3950

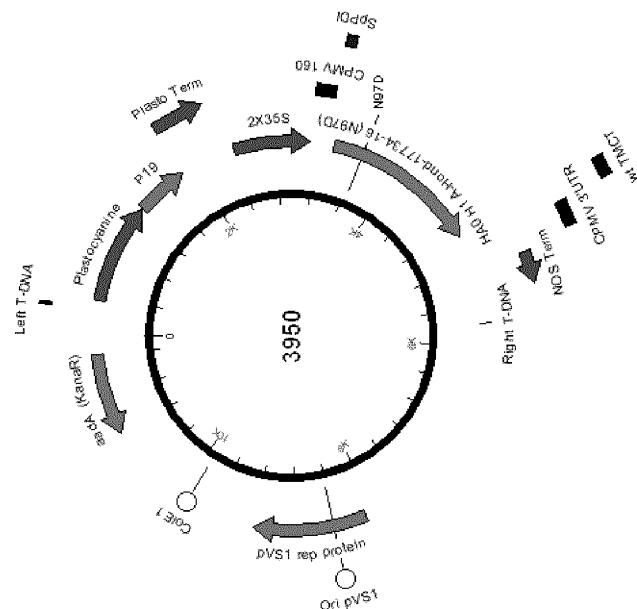


Figure 6W: Schematic representation of vector 3944

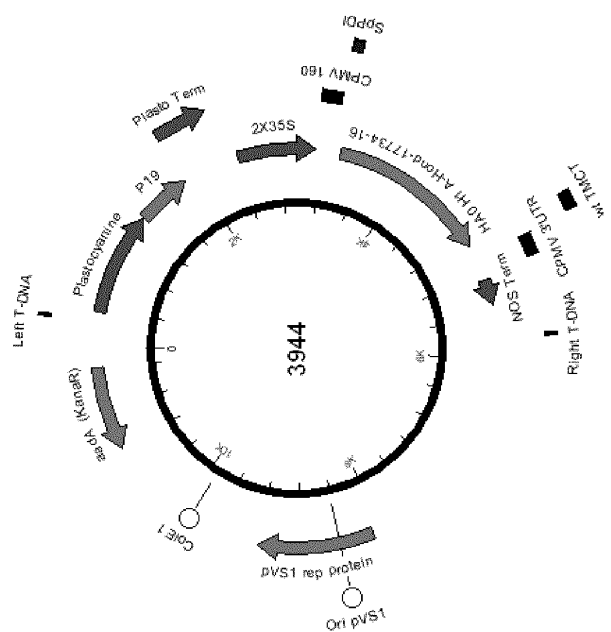


Figure 6Z: Schematic representation of vector 3945

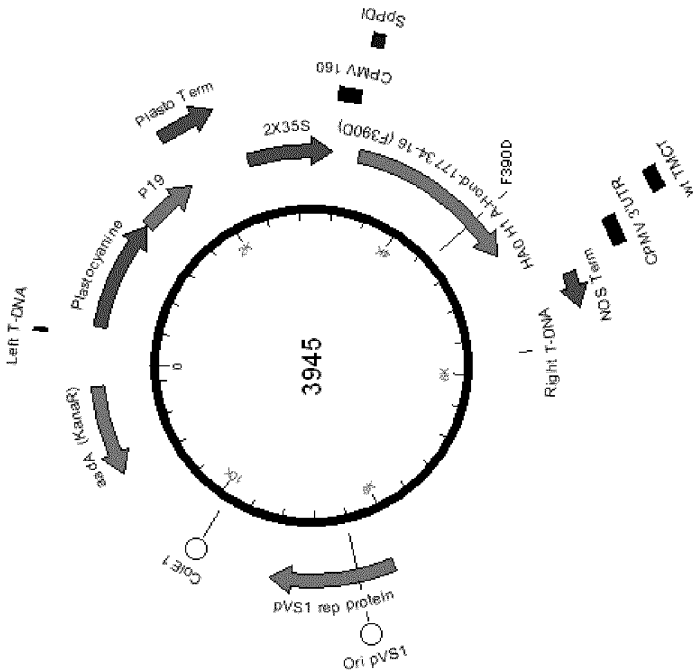


Figure 6Y: Schematic representation of vector 3948

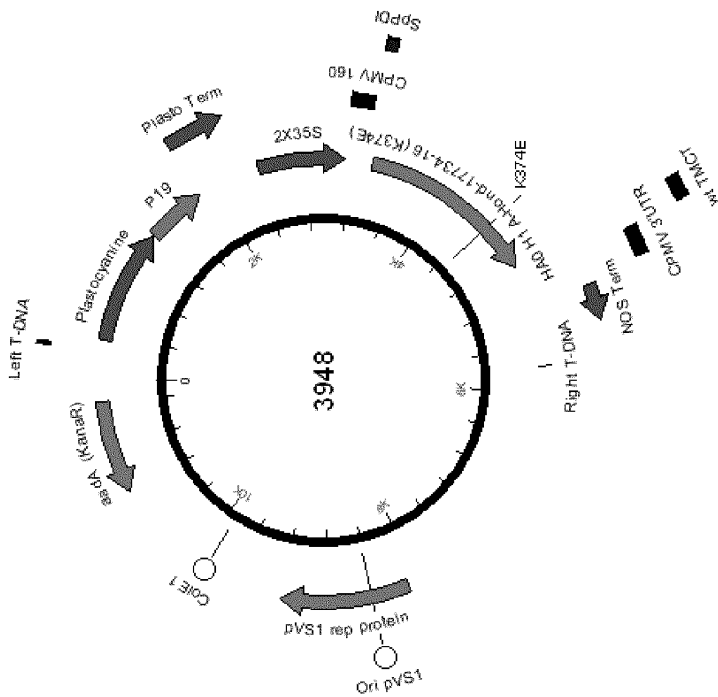


Figure 6DD: Schematic representation of vector 3984

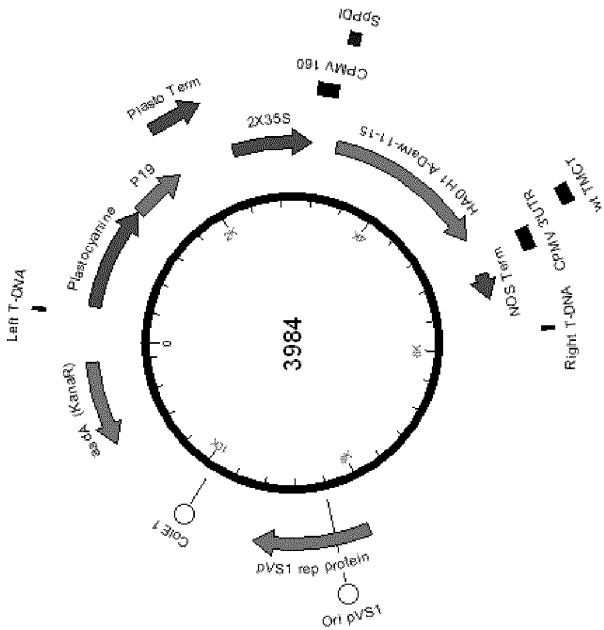


Figure 6CC: Schematic representation of vector 3951

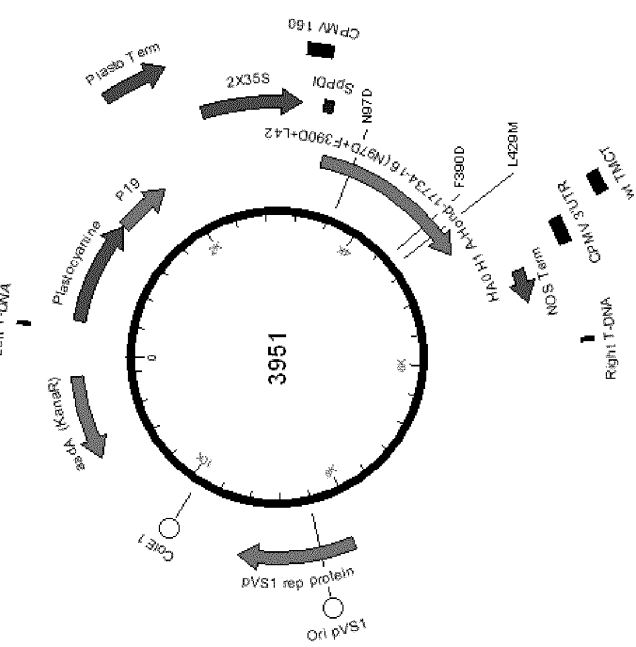


Figure 6FF: Schematic representation of vector 3988

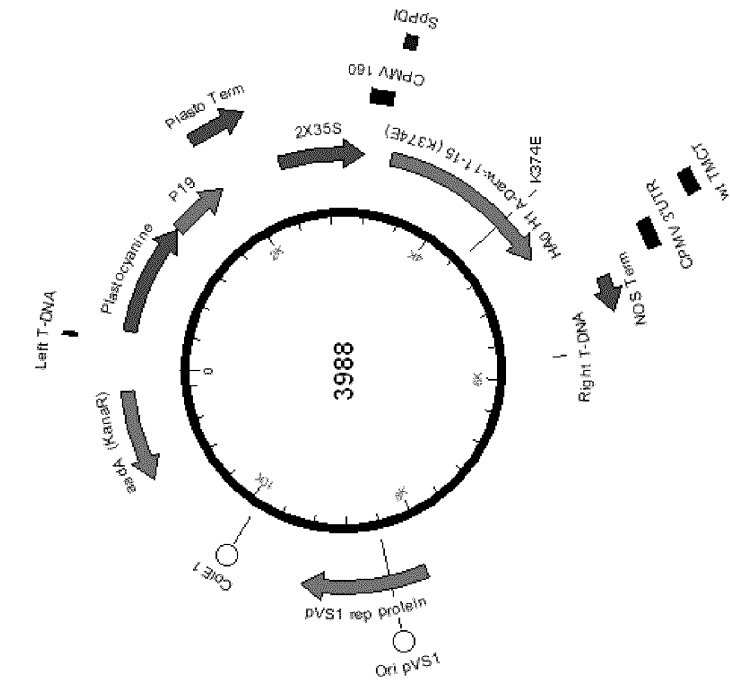


Figure 6EE: Schematic representation of vector 3990

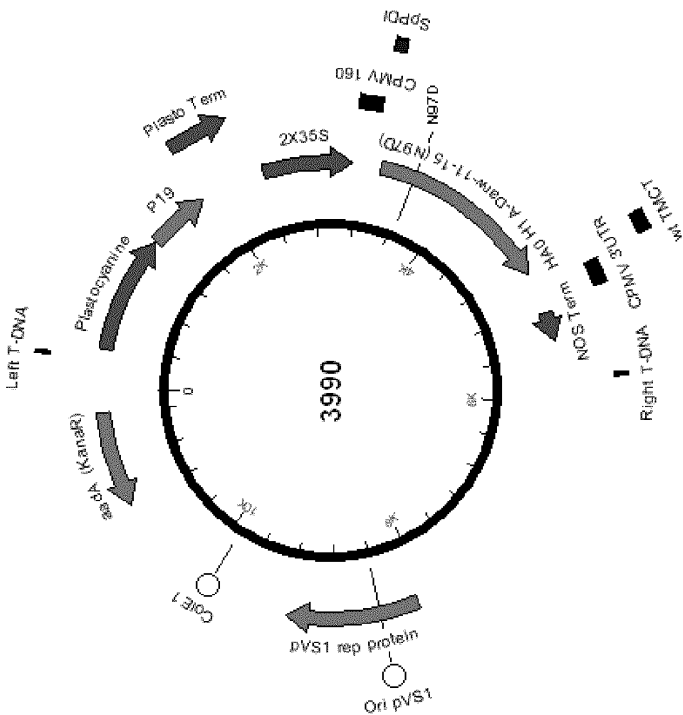


Figure 6 HH: Schematic representation of vector 3989

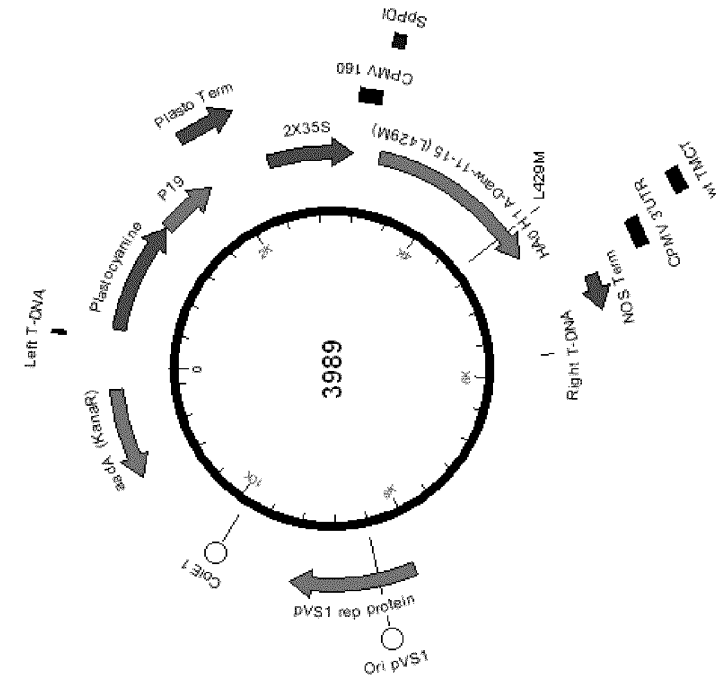


Figure 6 GG: Schematic representation of vector 3985

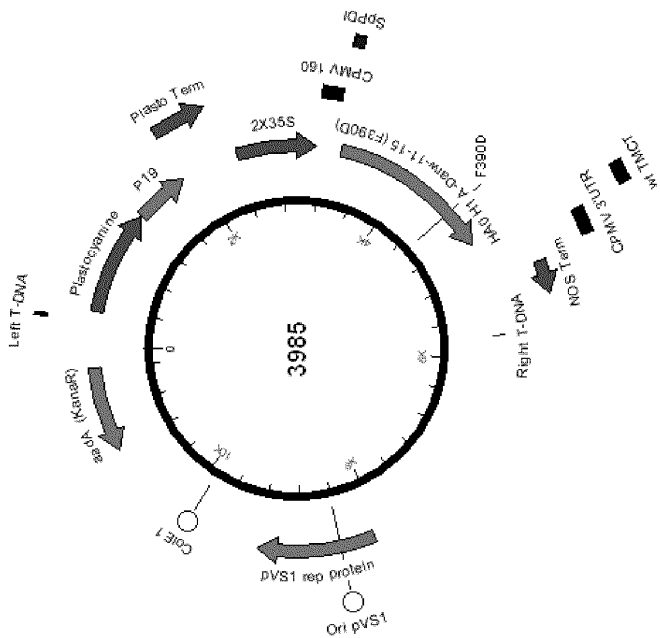


Figure 6LL: Schematic representation of vector 3704

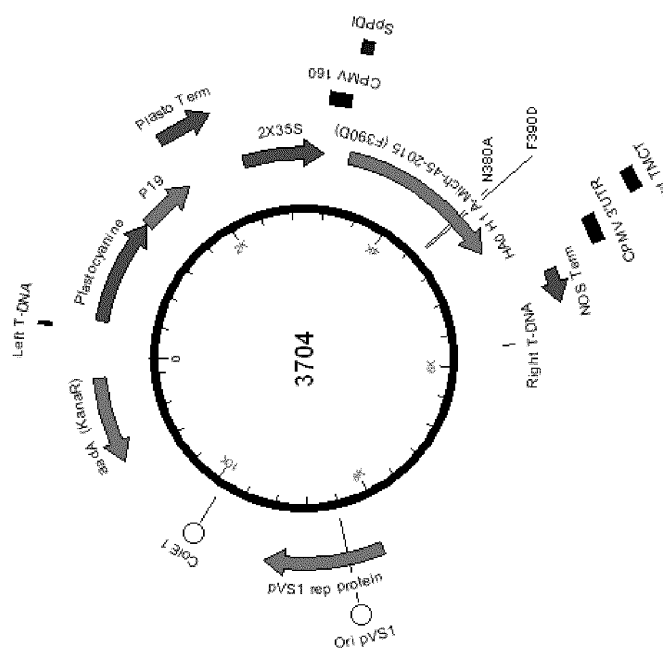


Figure 6KK: Schematic representation of vector 3644

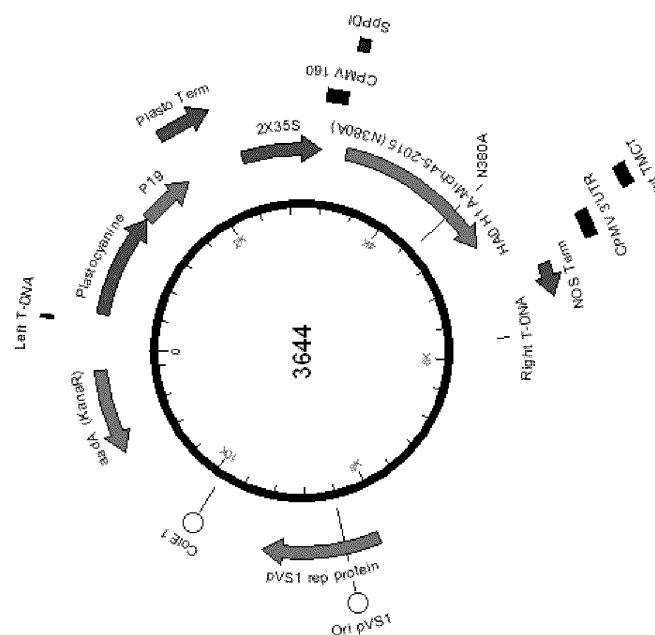


Figure 6PP: Schematic representation of vector 4768

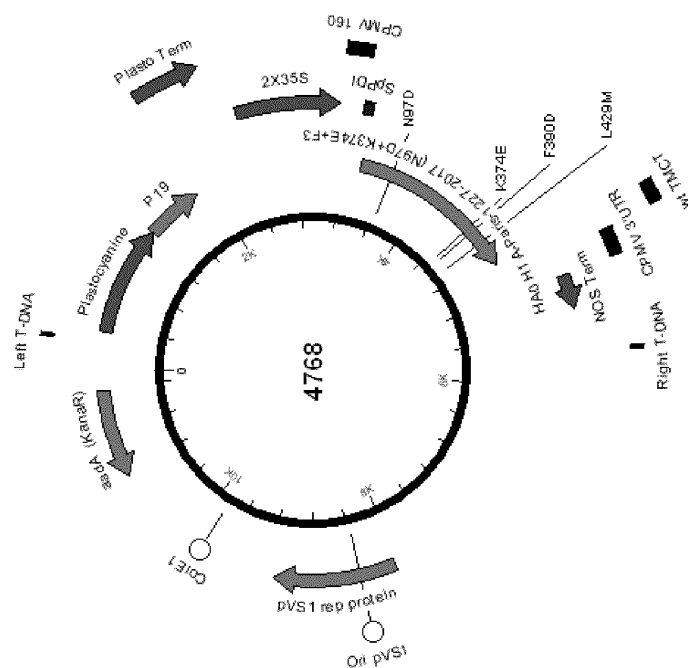


Figure 600: Schematic representation of vector 4767

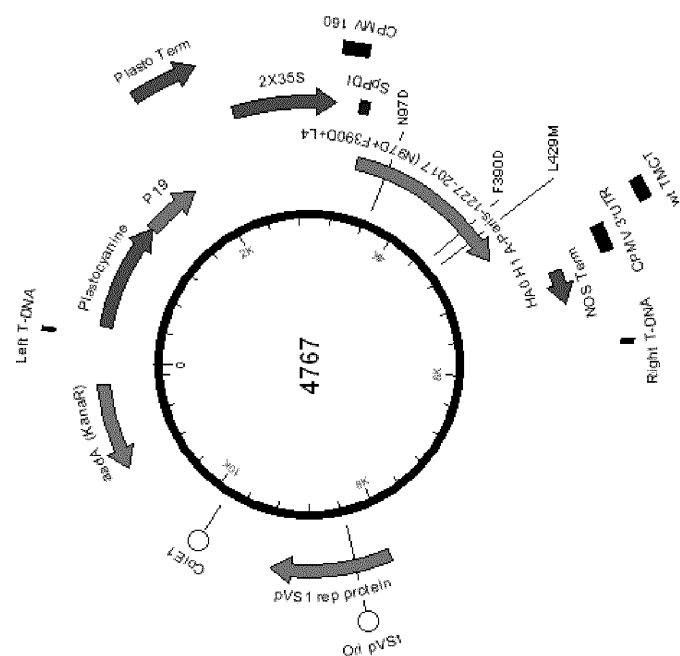


Figure 6RR: Schematic representation of vector 4776

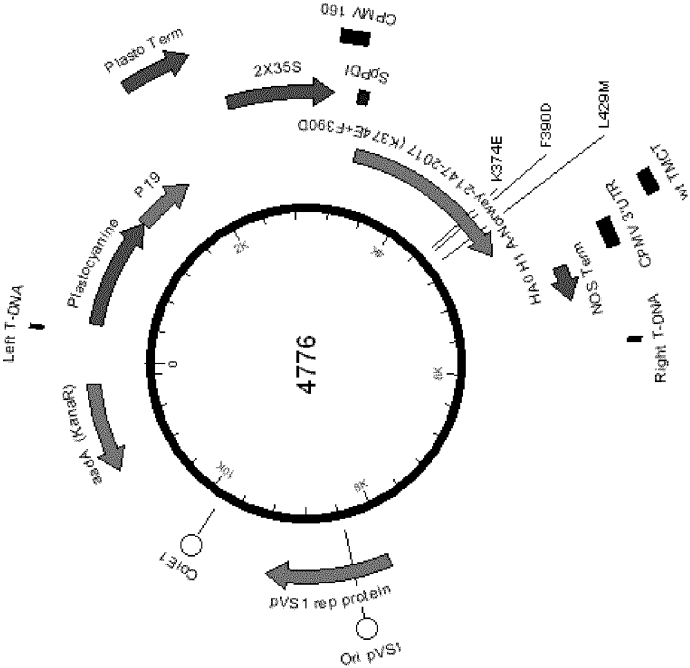


Figure 6QQ: Schematic representation of vector 4775

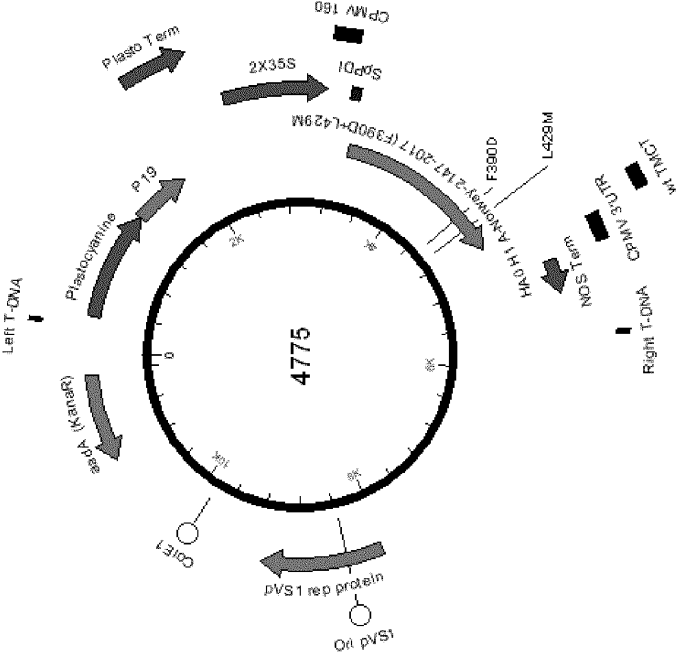


Figure 6TT: Schematic representation of vector 4778

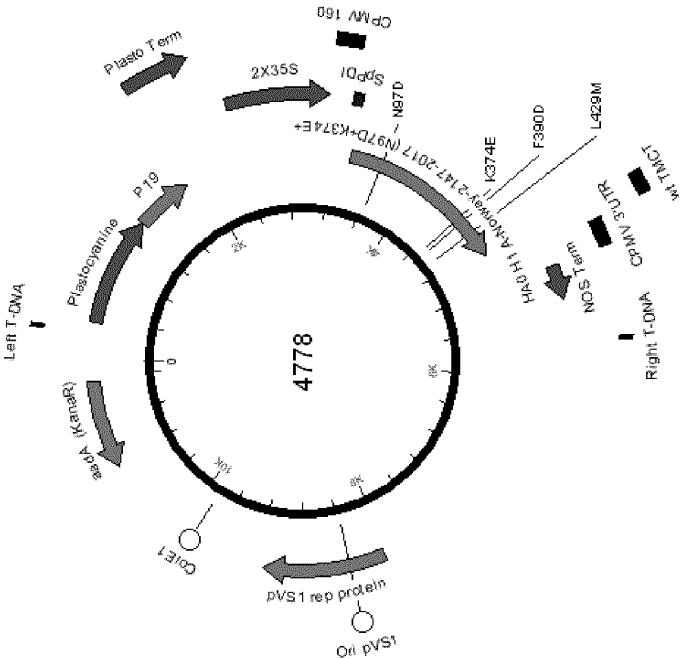


Figure 6SS: Schematic representation of vector 4777

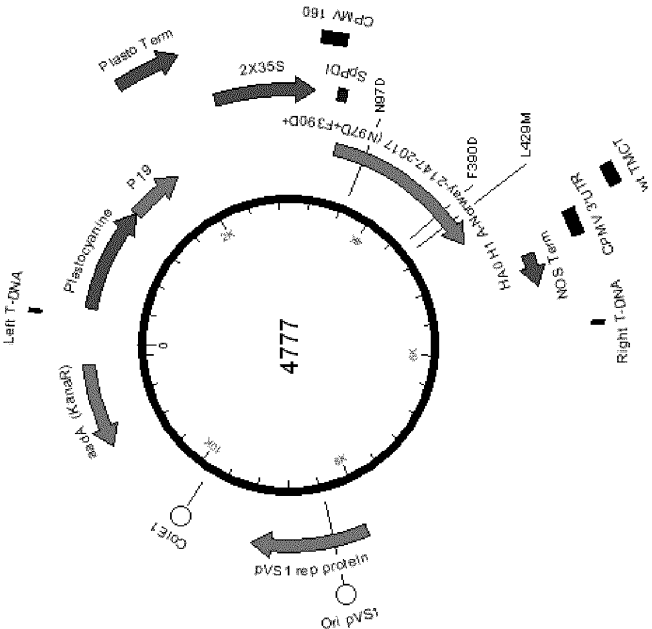


Figure 7B: Schematic representation of vector 3680

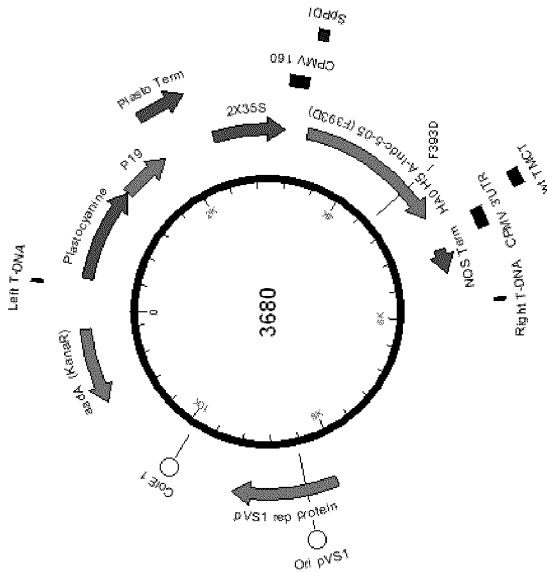


Figure 7A: Schematic representation of vector 2295

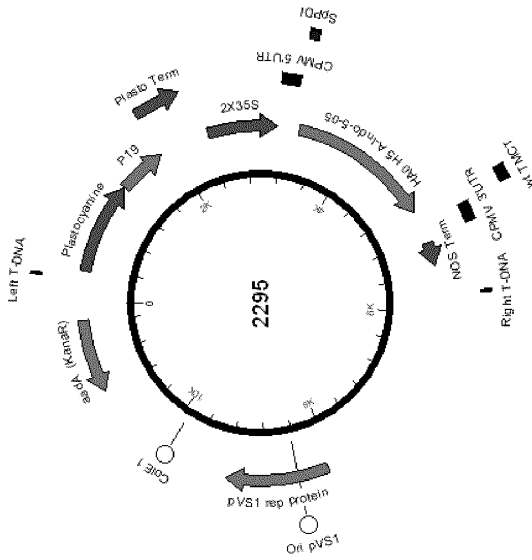


Figure 7D: Schematic representation of vector 3690

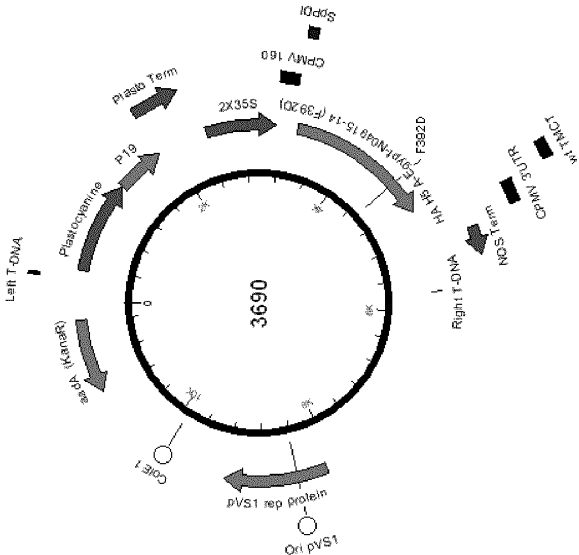


Figure 7C: Schematic representation of vector 3645

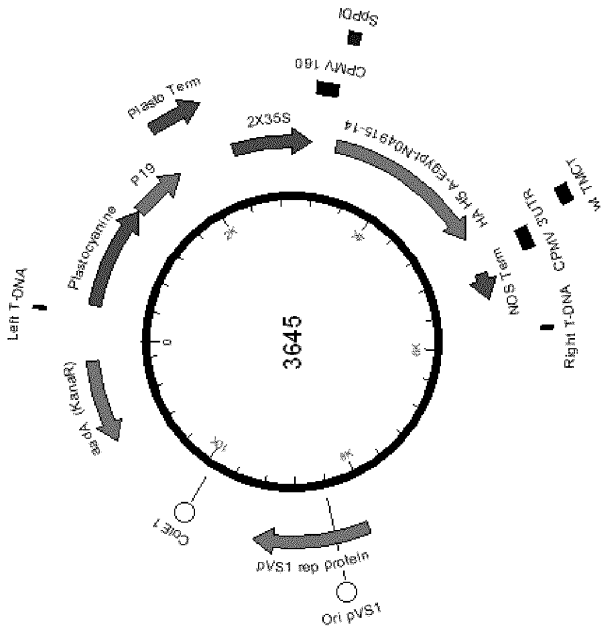


Figure 8: Schematic representation of vector 1190

