

pTwist Amp High Copy (2221 bp)

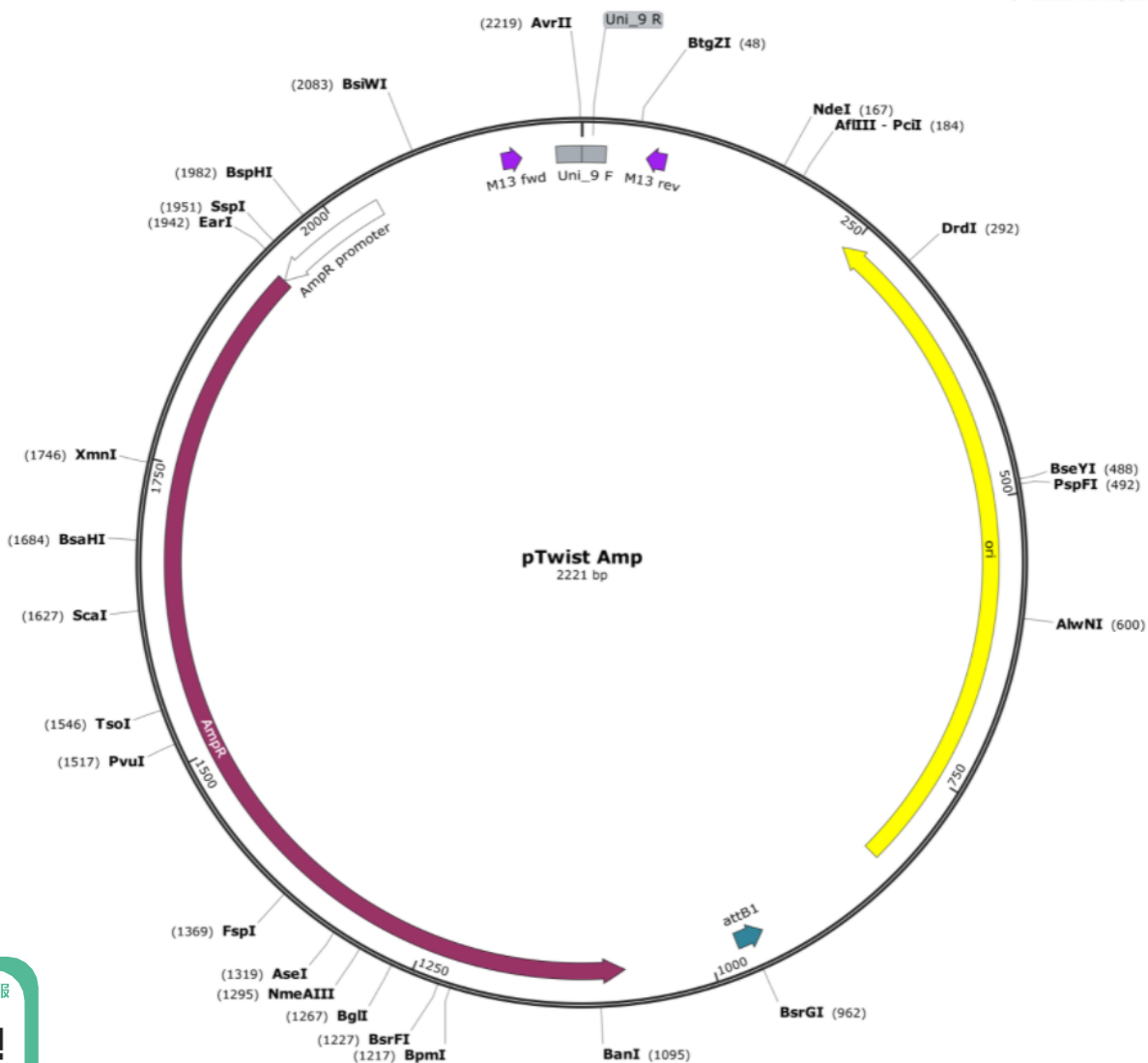
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High Copy cloning vector with pMB1 origin of replication. Twist Forward and Reverse primers flank the insertion site for easy product amplification. M13 forward and reverse priming sites are present for insert sequencing.

INSERTION POINTS

Name	Supported sequence length	Resistance	Copy #
pTwist Amp	0.3-5.0 kbp	Ampicillin	High



pTwist Amp Medium Copy (2161 bp)

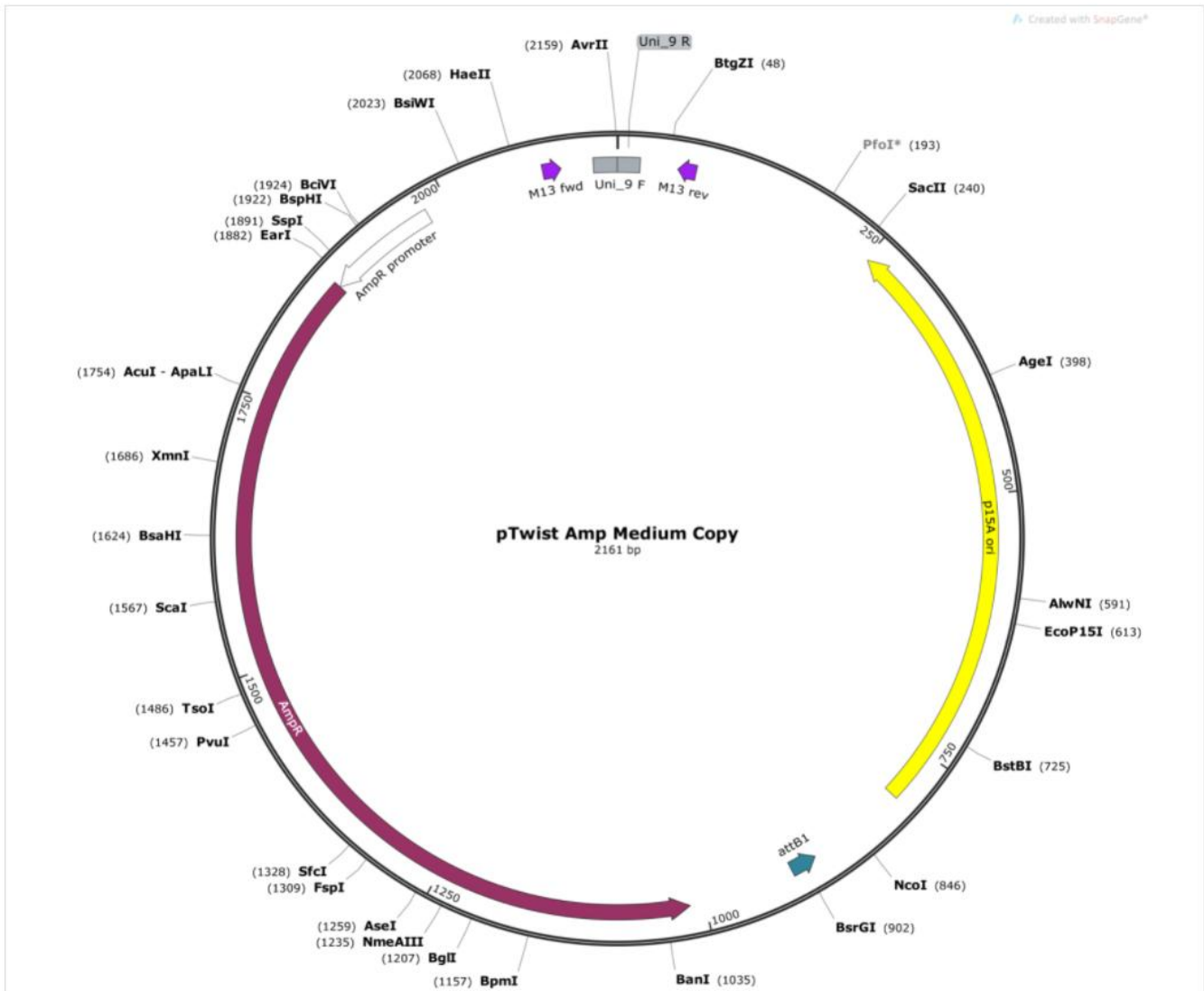
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Medium Copy cloning vector with p15A origin of replication. Twist Forward and Reverse primers flank the insertion site for easy product amplification. M13 forward and reverse priming sites are present for insert sequencing.

INSERTION POINTS

Name	Supported sequence length	Resistance	Copy #
pTwist Amp MC	0.3-5.0 kbp	Ampicillin	Medium



pTwist Chlor High Copy (2013 bp)

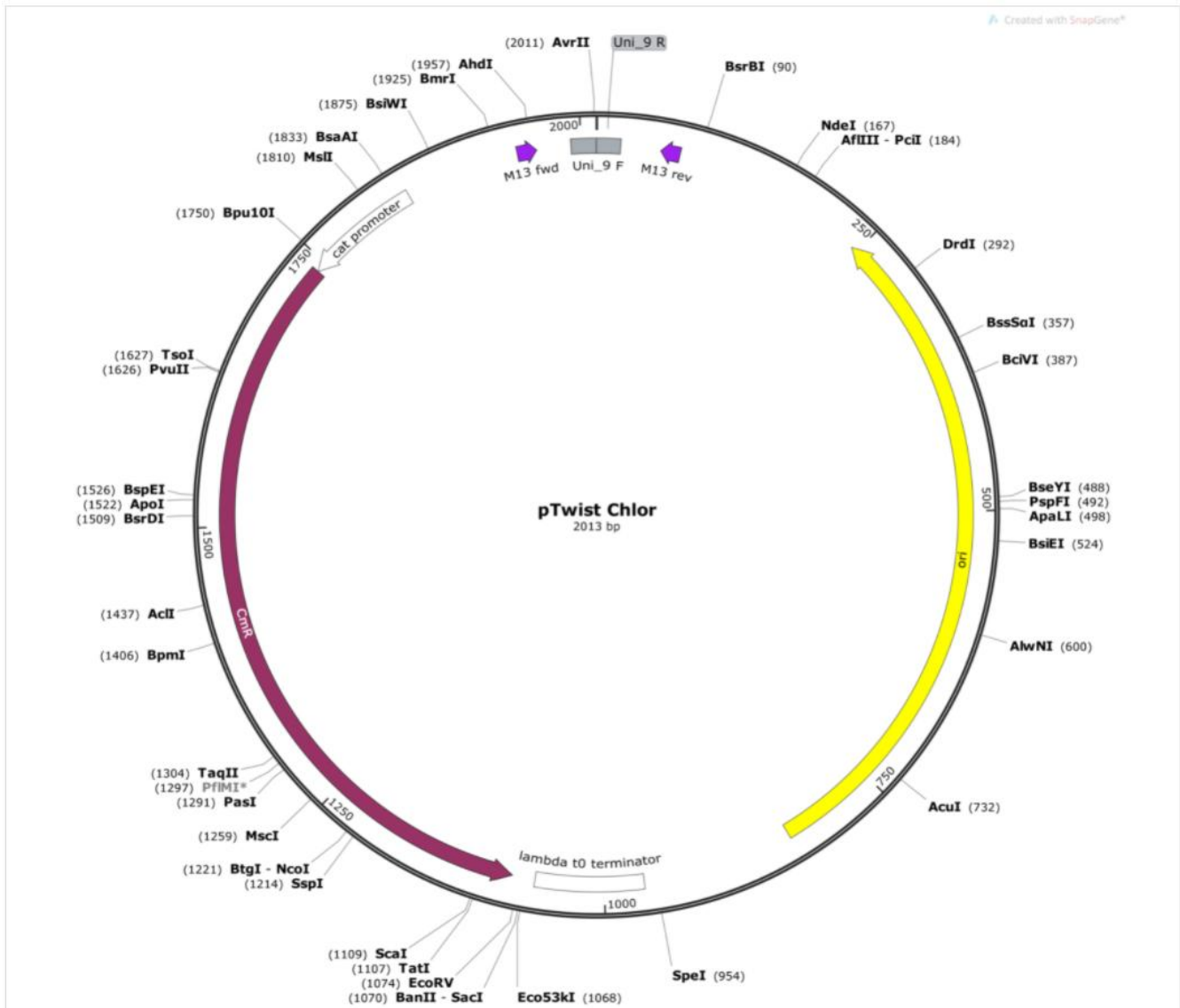
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High Copy cloning vector with pMB1 origin of replication. Twist Forward and Reverse primers flank the insertion site for easy product amplification. M13 forward and reverse priming sites are present for insert sequencing.

INSERTION POINTS

Name	Supported sequence length	Resistance	Copy #
pTwist Chlor	0.3-5.0 kbp	Chloramphenicol	High



pTwist Chlor Medium Copy (1953 bp)

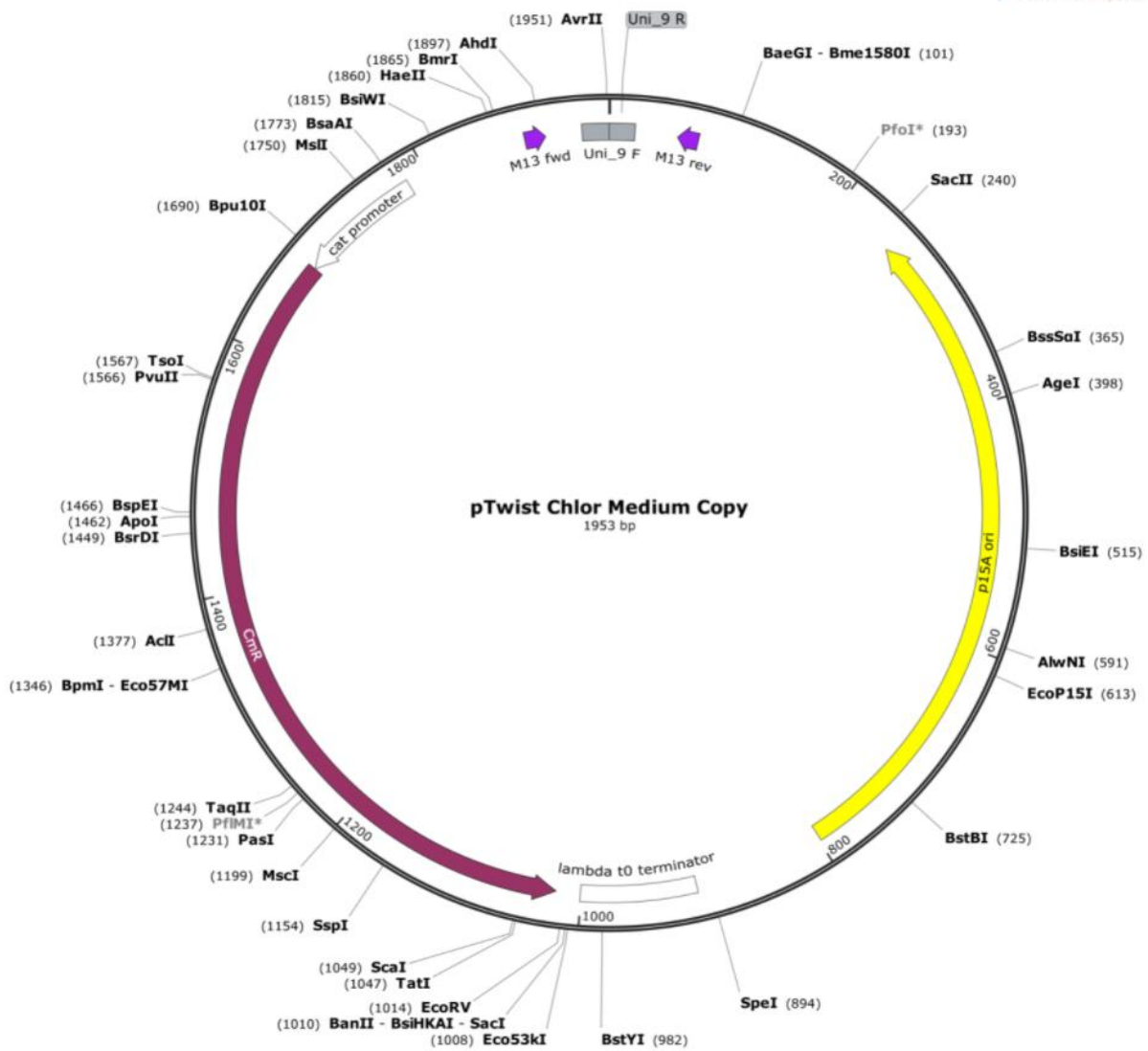
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Medium Copy cloning vector with p15A origin of replication. Twist Forward and Reverse primers flank the insertion site for easy product amplification. M13 forward and reverse priming sites are present for insert sequencing.

INSERTION POINTS

Name	Supported sequence length	Resistance	Copy #
pTwist Chlor MC	0.3-5.0 kbp	Chloramphenicol	Medium



pTwist ENTR (2415 bp)

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pTwist ENTR enables rapid cloning of one or more genes into virtually any protein expression system utilizing the Gateway™ cloning system. Once you have an entry clone, you can recombine your gene of interest into a variety of expression vectors adapted for

INSERTION POINTS

Name	Supported sequence length	Resistance	Copy #
pTwist ENTR	0.3-5.0 kbp	Kanamycin	High



pTwist ENTR Kozak (2421 bp)

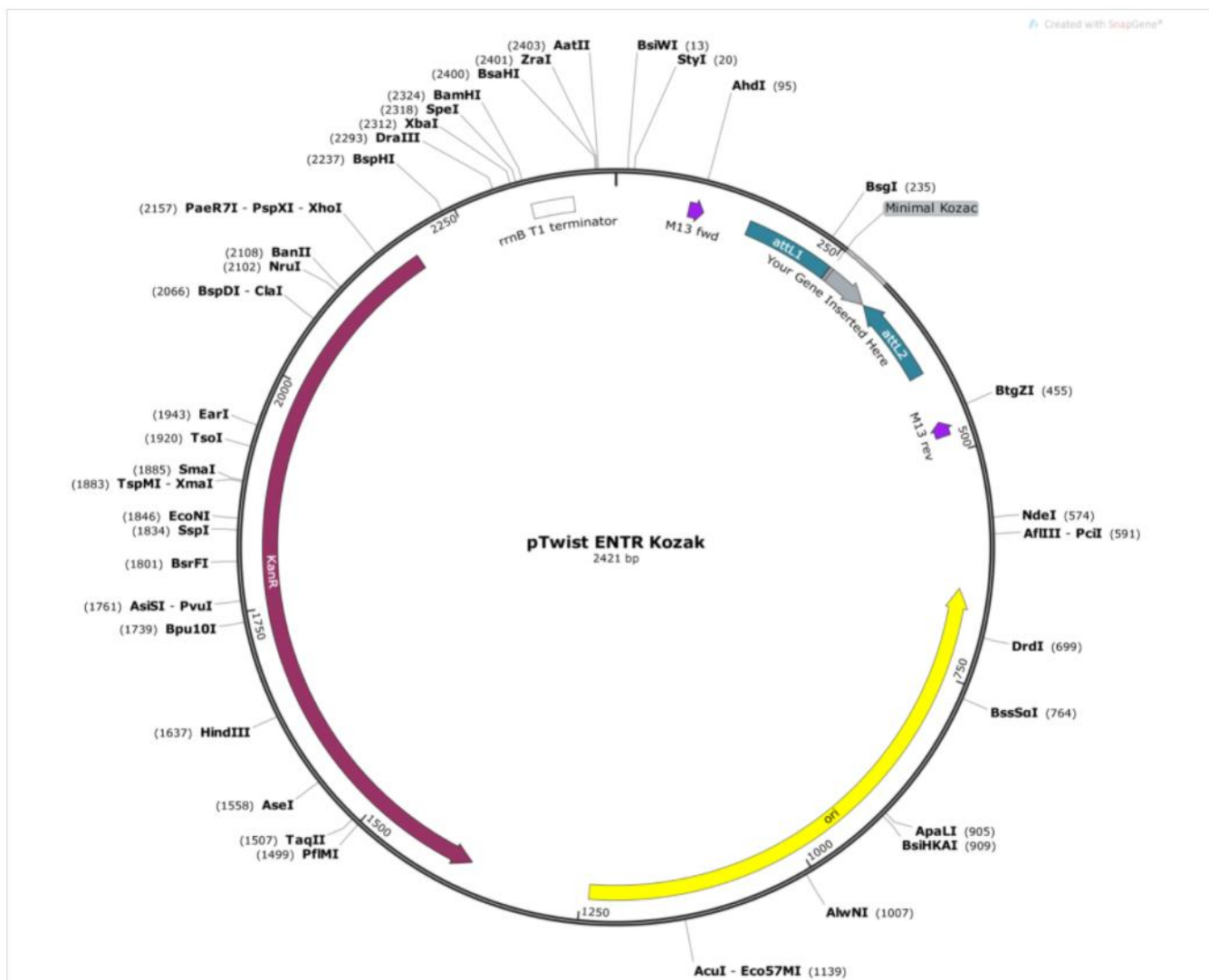
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pTwist ENTR Kozak enables rapid cloning of genes into virtually any protein expression vector utilizing the Gateway™ cloning system. pTwist ENTR Kozak is for enhanced mammalian expression. The cloning site is designed in the appropriate reading frame to

INSERTION POINTS

Name	Supported sequence length	Resistance	Copy #
pTwist ENTR Kozak	0.3-5.0 kbp	Kanamycin	High



pTwist Kan High Copy v2 (Updated)

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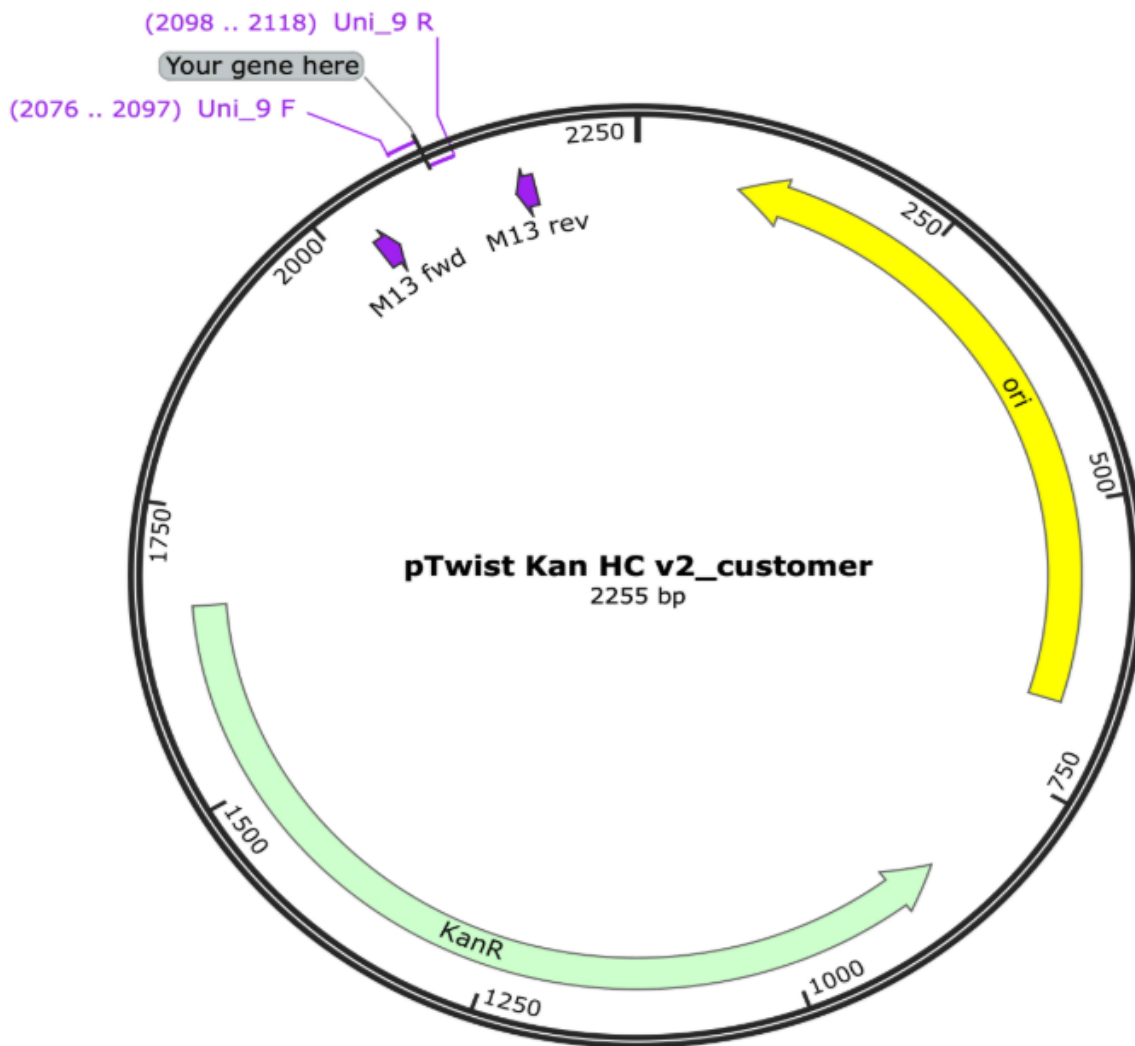
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(2255 bp)

Updated version of Twist's High Copy cloning vector with pMB1 origin of replication and Kanamycin resistance marker. Twist Forward and Reverse primers flank the insertion site for easy product amplification. M13 forward and reverse priming sites are present for

INSERTION POINTS

Name	Supported sequence length	Resistance	Copy #
pTwist Kan HC v2	0.3-5.0 kbp	Kanamycin	High



pTwist Kan Medium Copy (2105 bp)

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Medium Copy cloning vector with p15A origin of replication. Twist Forward and Reverse primers flank the insertion site for easy product amplification. M13 forward and reverse priming sites are present for insert sequencing.

INSERTION POINTS

Name	Supported sequence length	Resistance	Copy #
pTwist Kan MC	0.3-5.0 kbp	Kanamycin	Medium



pUC19 (2686 bp)

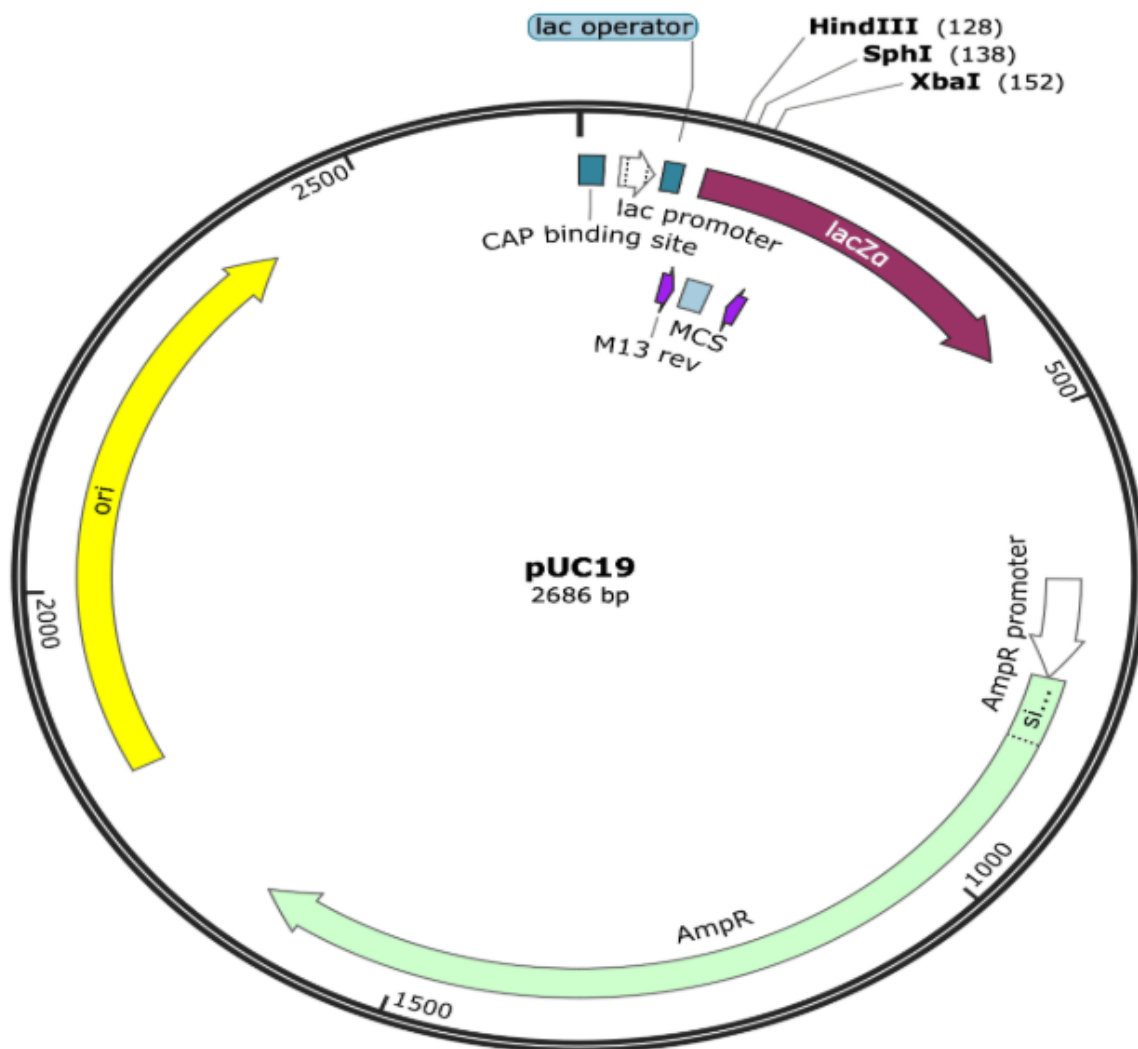
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pUC19 is a commonly used high-copy cloning vector with Ampicillin resistance developed by Joachim Messing, et al. in University of California. It contains the LacZ gene and multiple cloning sites. Insertion sites: HindIII_SphI - LacZ is inactivated. The insertion site

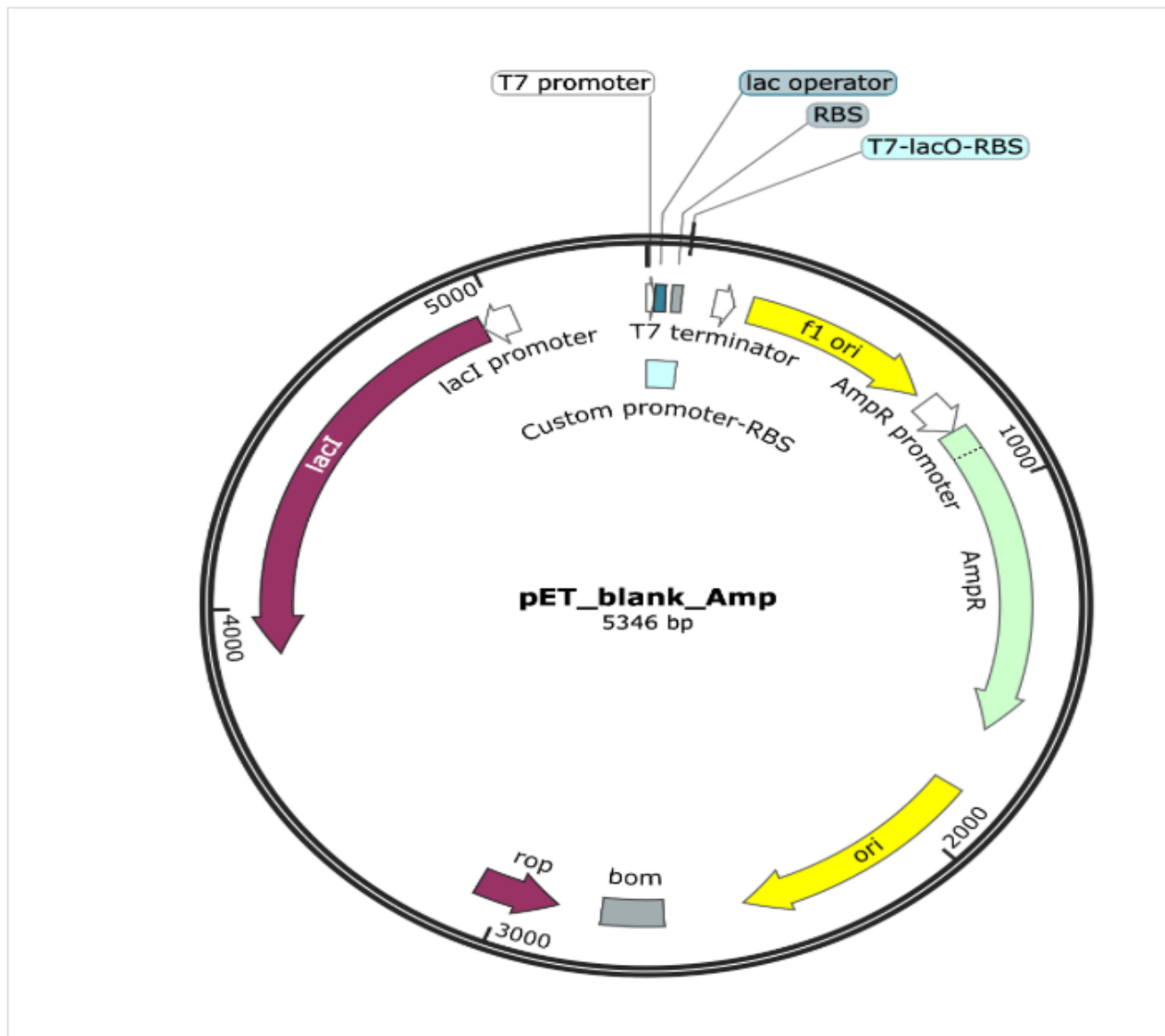
INSERTION POINTS

Name	Supported sequence length	Resistance	Copy #
HindIII_XbaI	0.3-5.0 kbp	Ampicillin	High
HindIII_SphI	0.3-5.0 kbp	Ampicillin	High

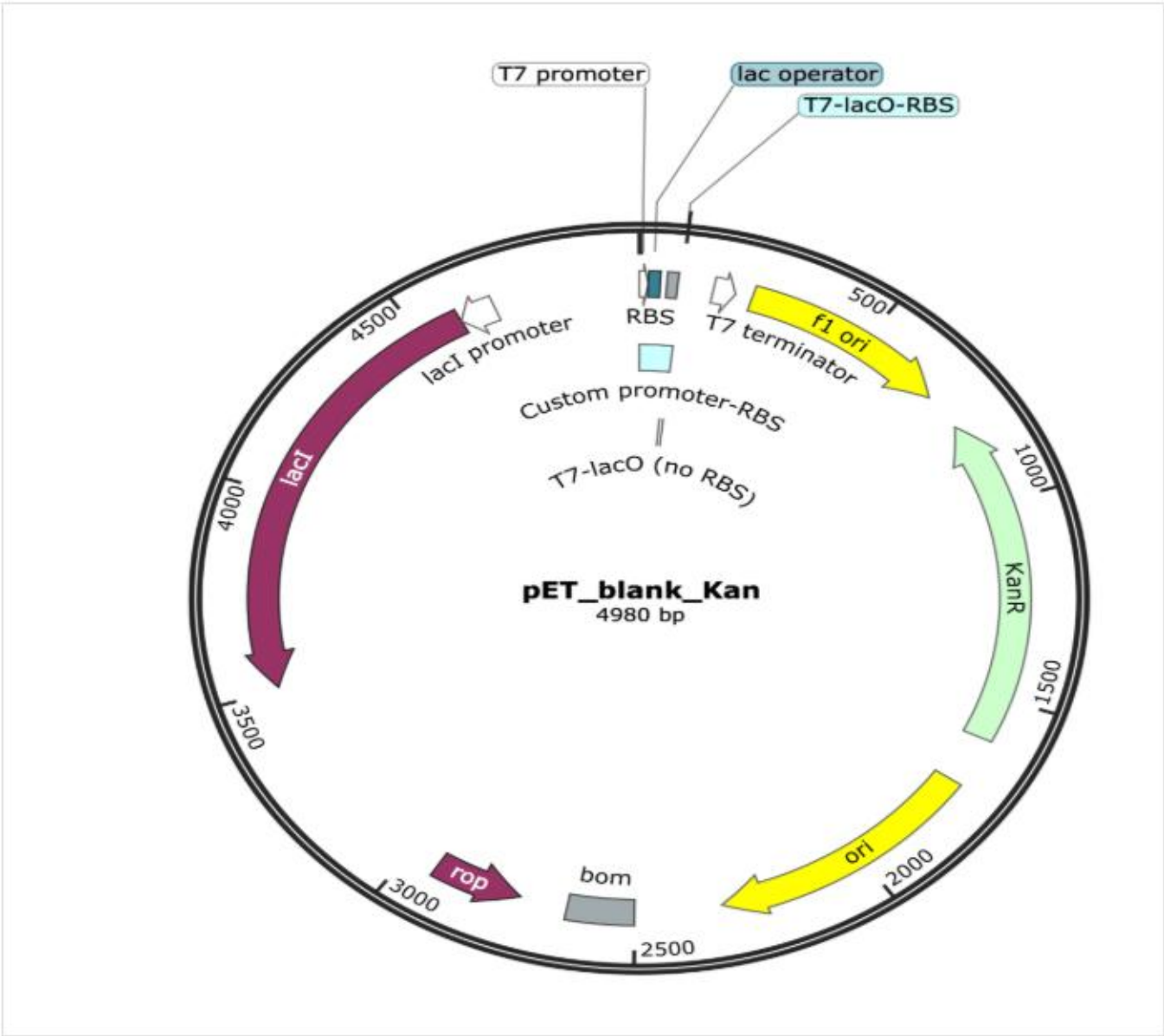


Expression Vector (E. coli)

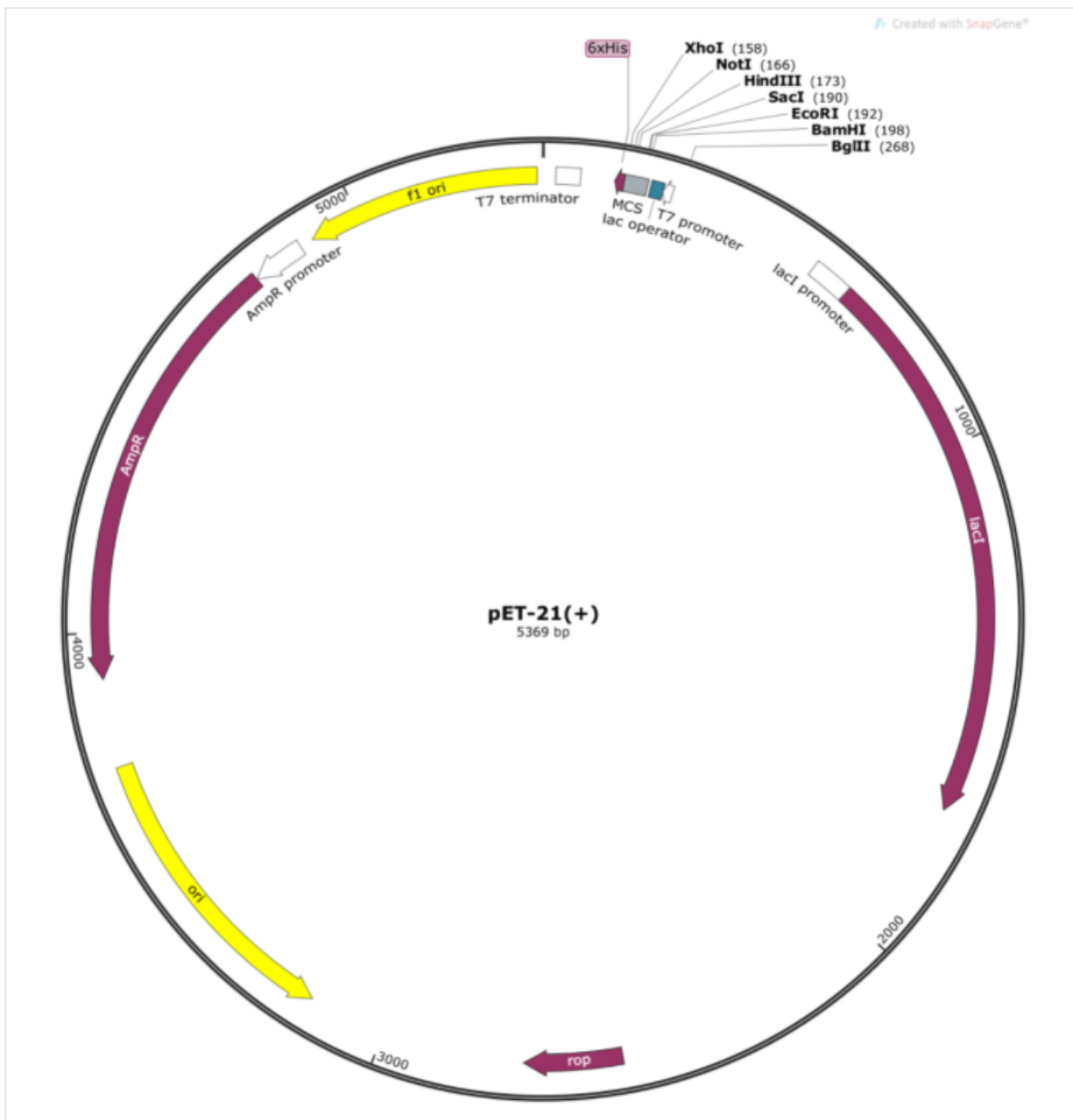
pET blank (AMP)			
Size	Promoter	Copy Number	Insertion Points
5,346 bp	T7	Medium	T7-lacO-RBS T7-lacO (no RBS) Custom promoter-RBS



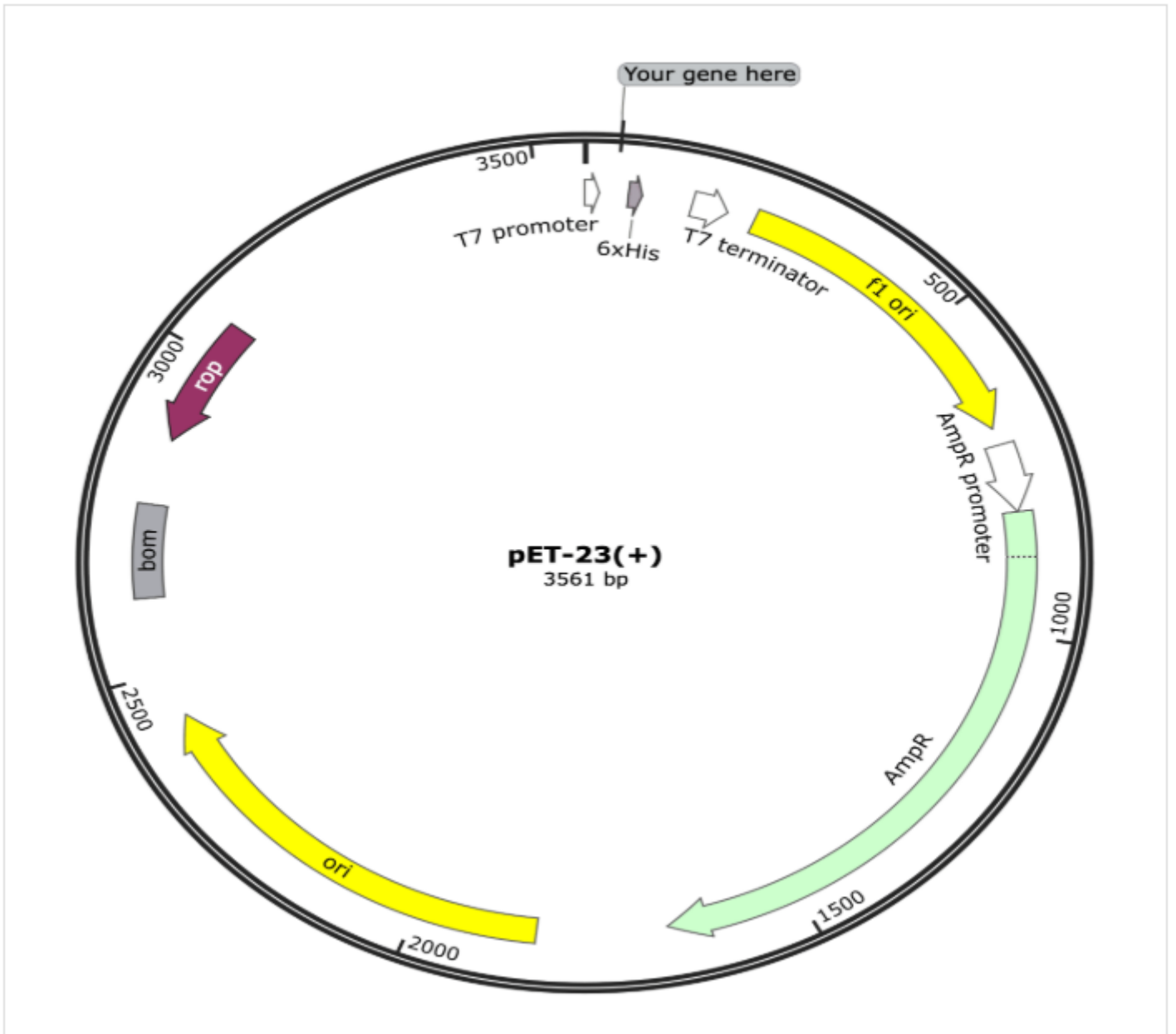
pET blank (KAN)			
Size	Promoter	Copy Number	Insertion Points
4,980 bp	T7	Medium	T7-lacO (no RBS) Custom promoter-RBS T7-lacO-RBS



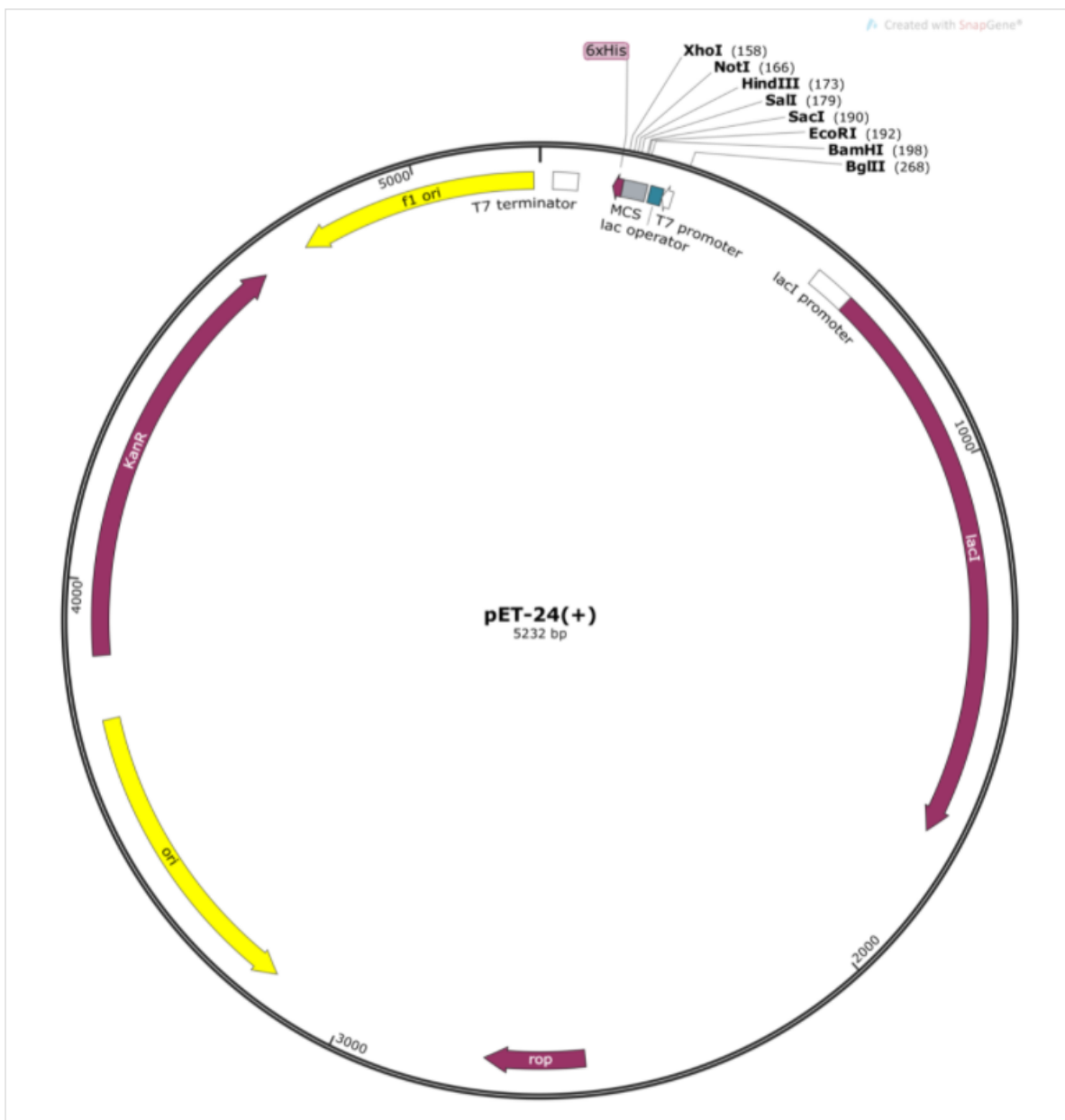
pET-21(+)			
Size	Promoter	Copy Number	Insertion Points
5,369 bp	T7	Medium	BglIII_XhoI BamHI_HindIII EcoRI_NotI SacI_HindIII BamHI_XhoI



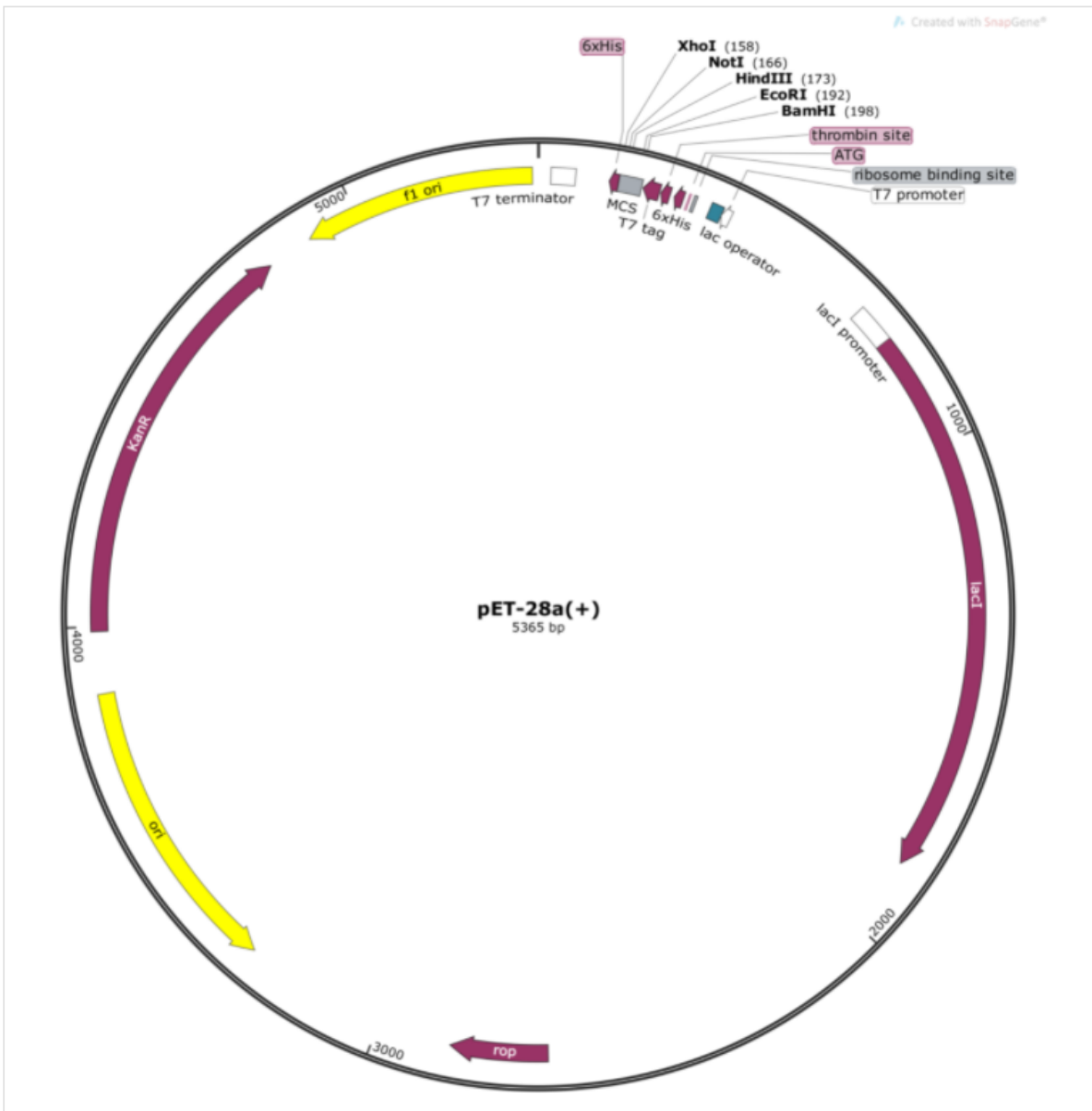
pET-23(+)			
Size	Promoter	Copy Number	Insertion Points
3,561 bp	T7	Medium	pET-23(+)_default



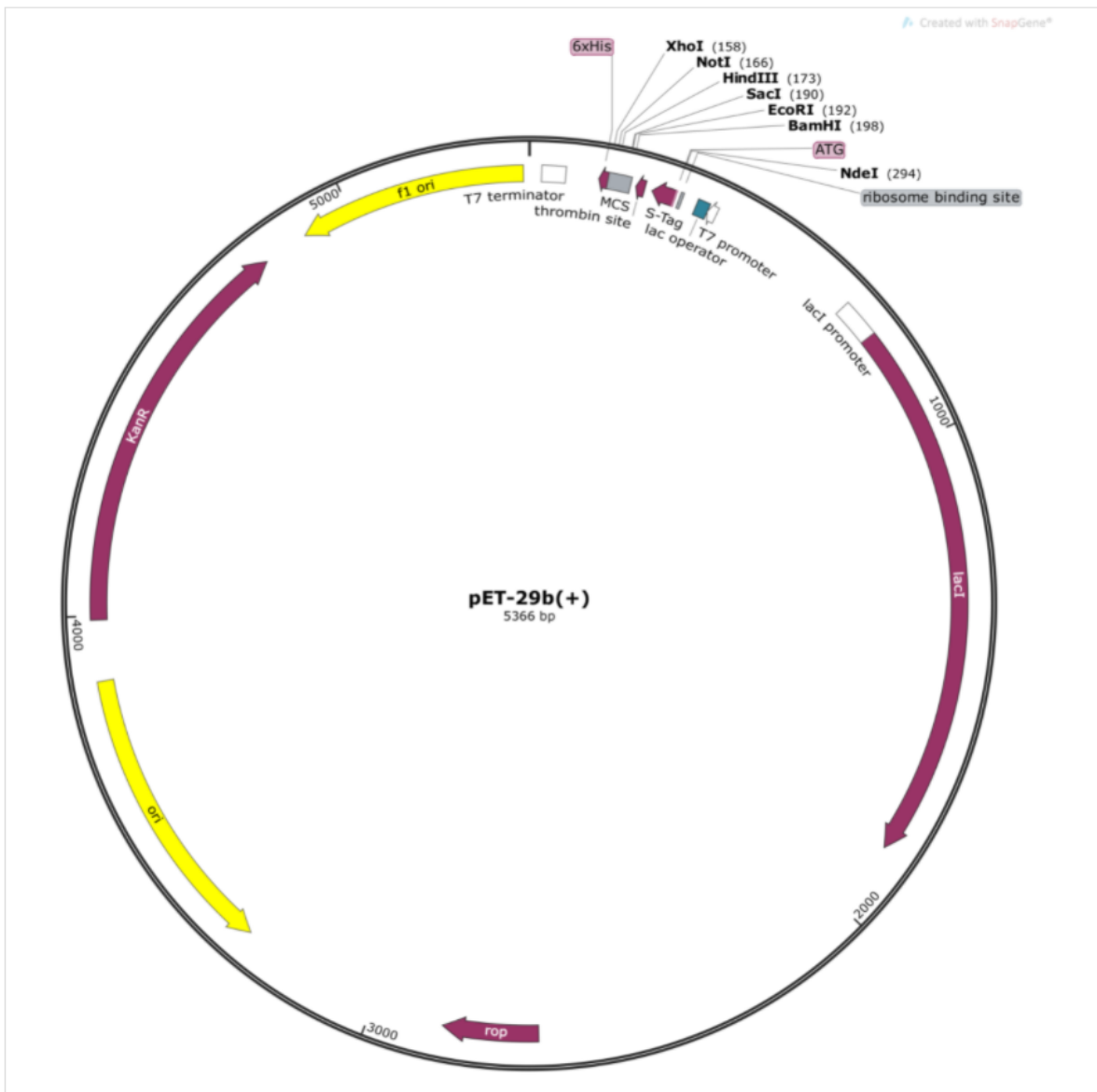
pET-24(+)			
Size	Promoter	Copy Number	Insertion Points
5,232 bp	T7	Medium	BamHI_XhoI EcoRI_NotI SacI_HindIII BglII_XhoI BamHI_HindIII



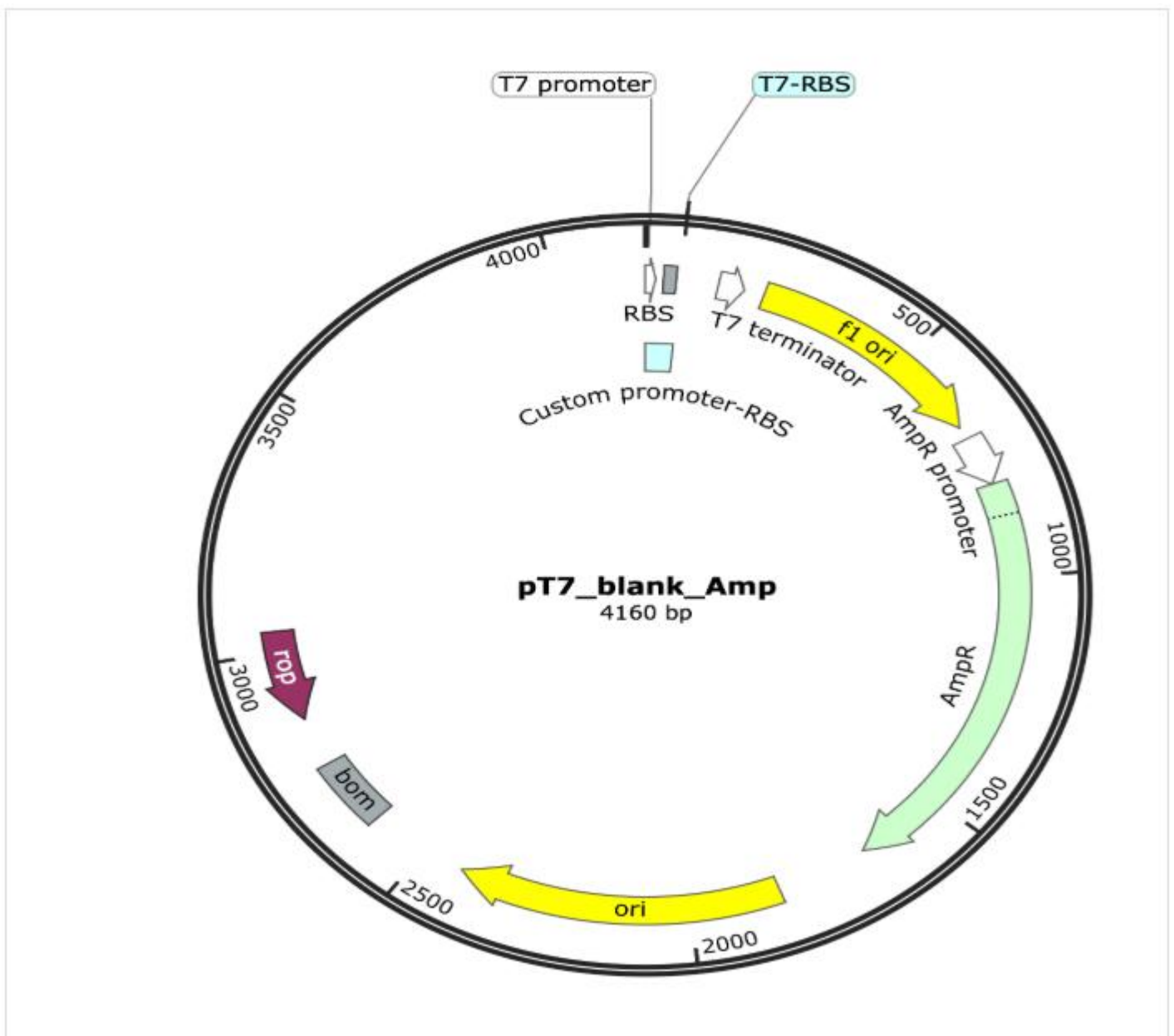
pET-28a(+)			
Size	Promoter	Copy Number	Insertion Points
5,365 bp	T7	Medium	NdeI_XhoI BamHI_HindIII EcoRI_NotI SacI_HindIII BamHI_XhoI NcoI_XhoI_no_HIS_no_thrombin



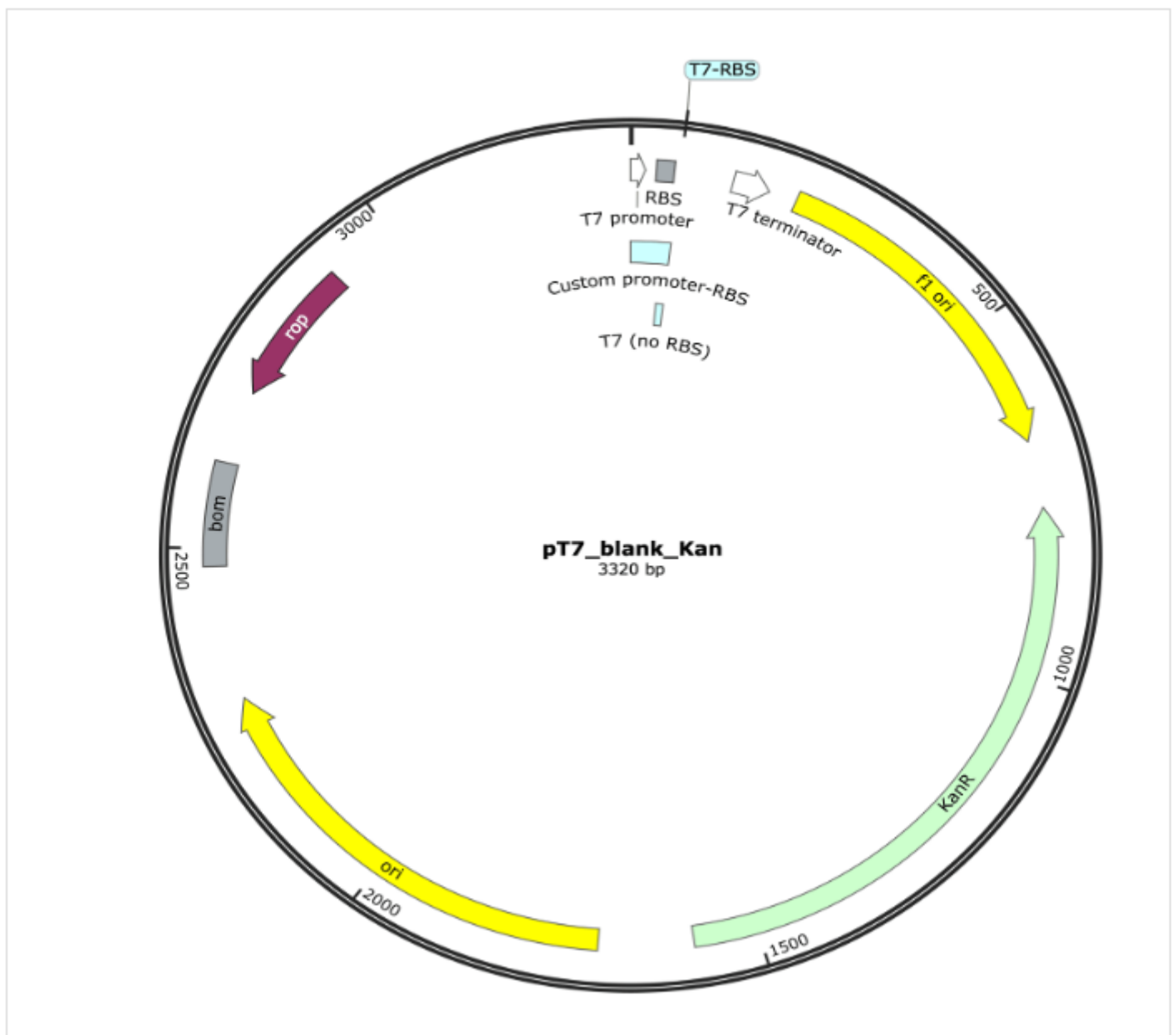
pET-29b(+)			
Size	Promoter	Copy Number	Insertion Points
5,366 bp	T7	Medium	NdeI_XhoI BamHI_HindIII EcoRI_NotI SacI_HindIII BamHI_XhoI



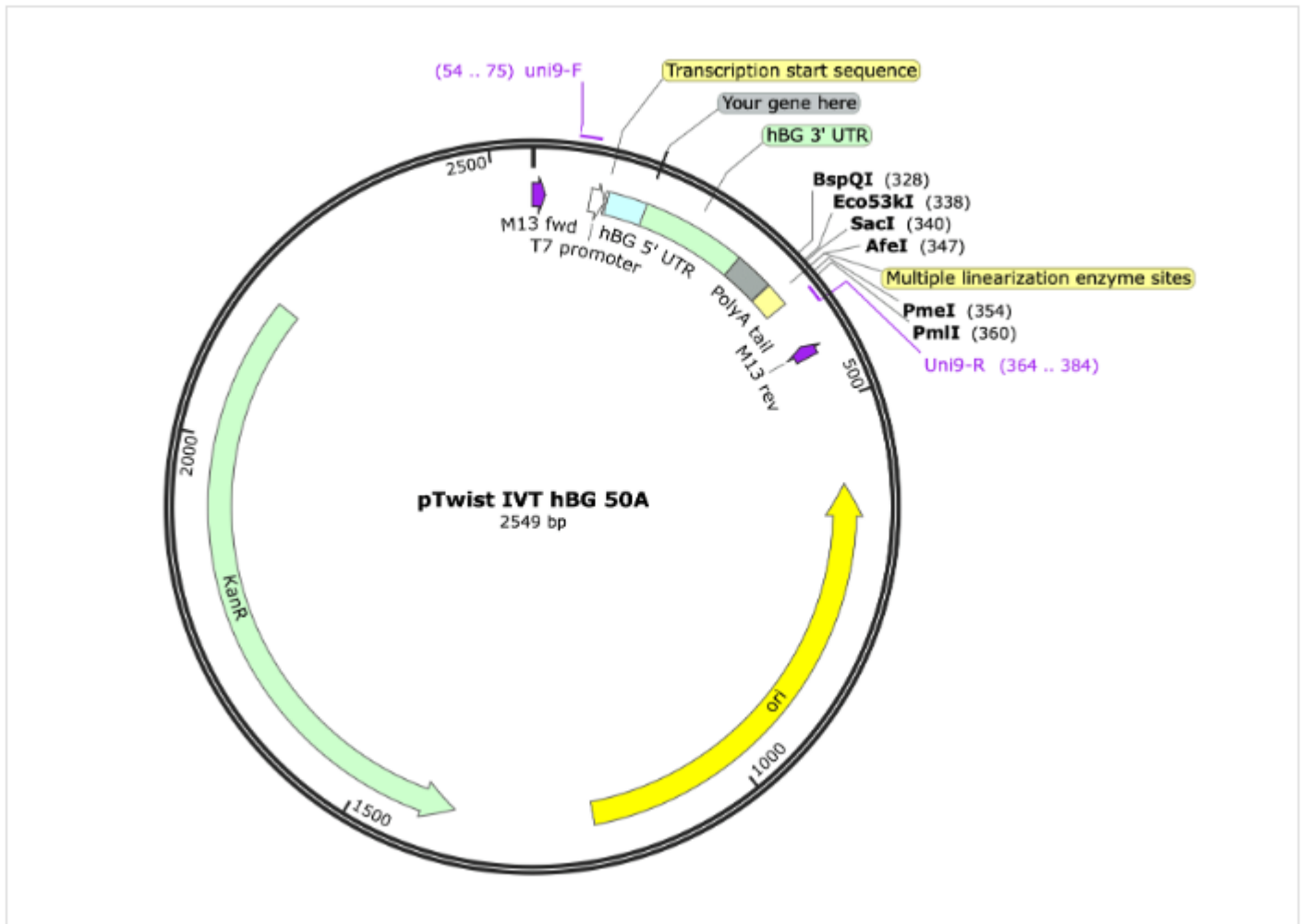
pT7 blank (AMP)			
Size	Promoter	Copy Number	Insertion Points
4,160 bp	T7	Medium	T7-RBS T7 (no RBS) Custom promoter-RBS



pT7 blank (KAN)			
Size	Promoter	Copy Number	Insertion Points
3,320 bp	T7	Medium	T7 (no RBS) Custom promoter-RBS T7-RBS

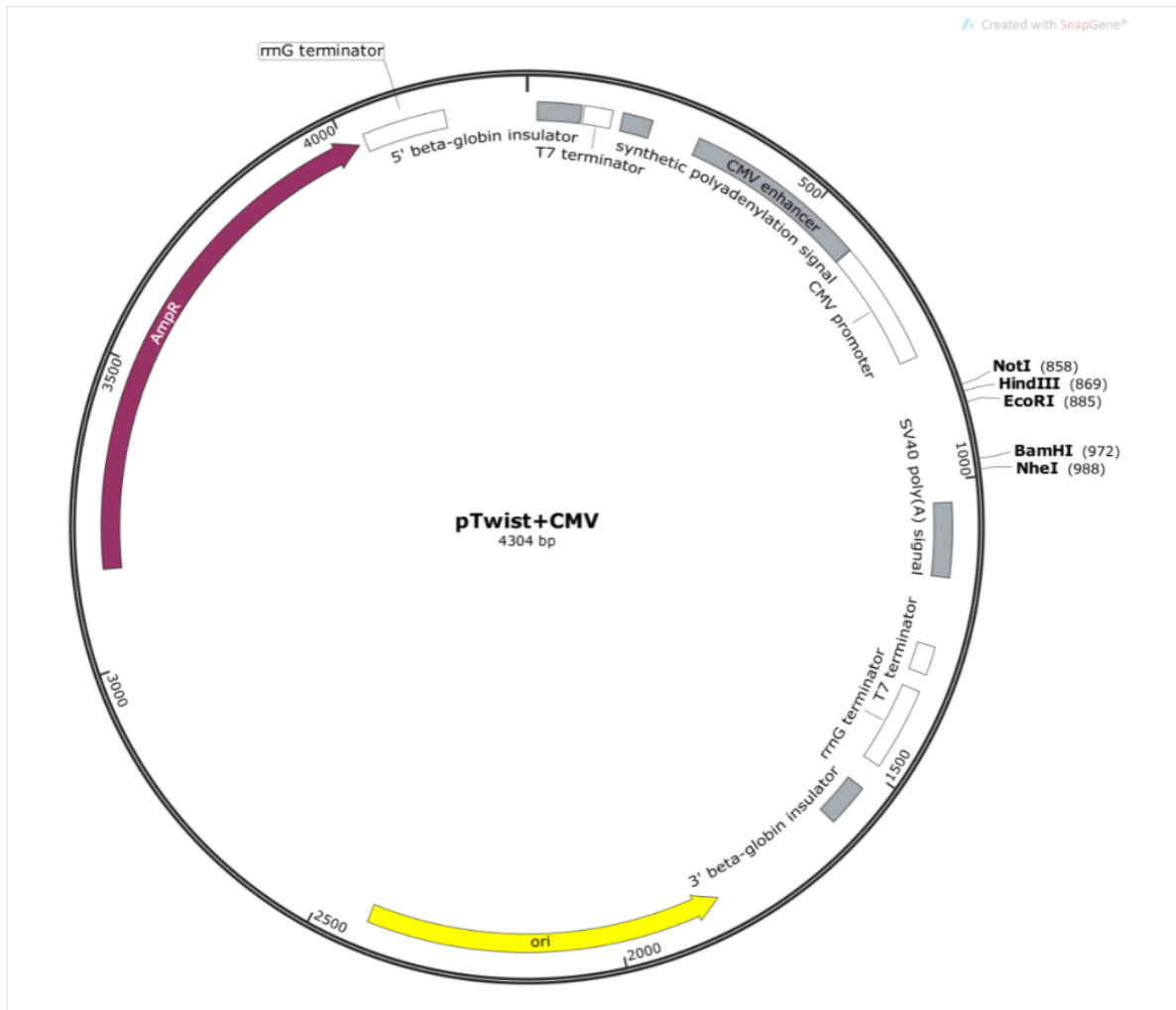


pTwist IVT hBG 50A			
Size	Promoter	Copy Number	Insertion Points
2,549 bp	T7	High	Default

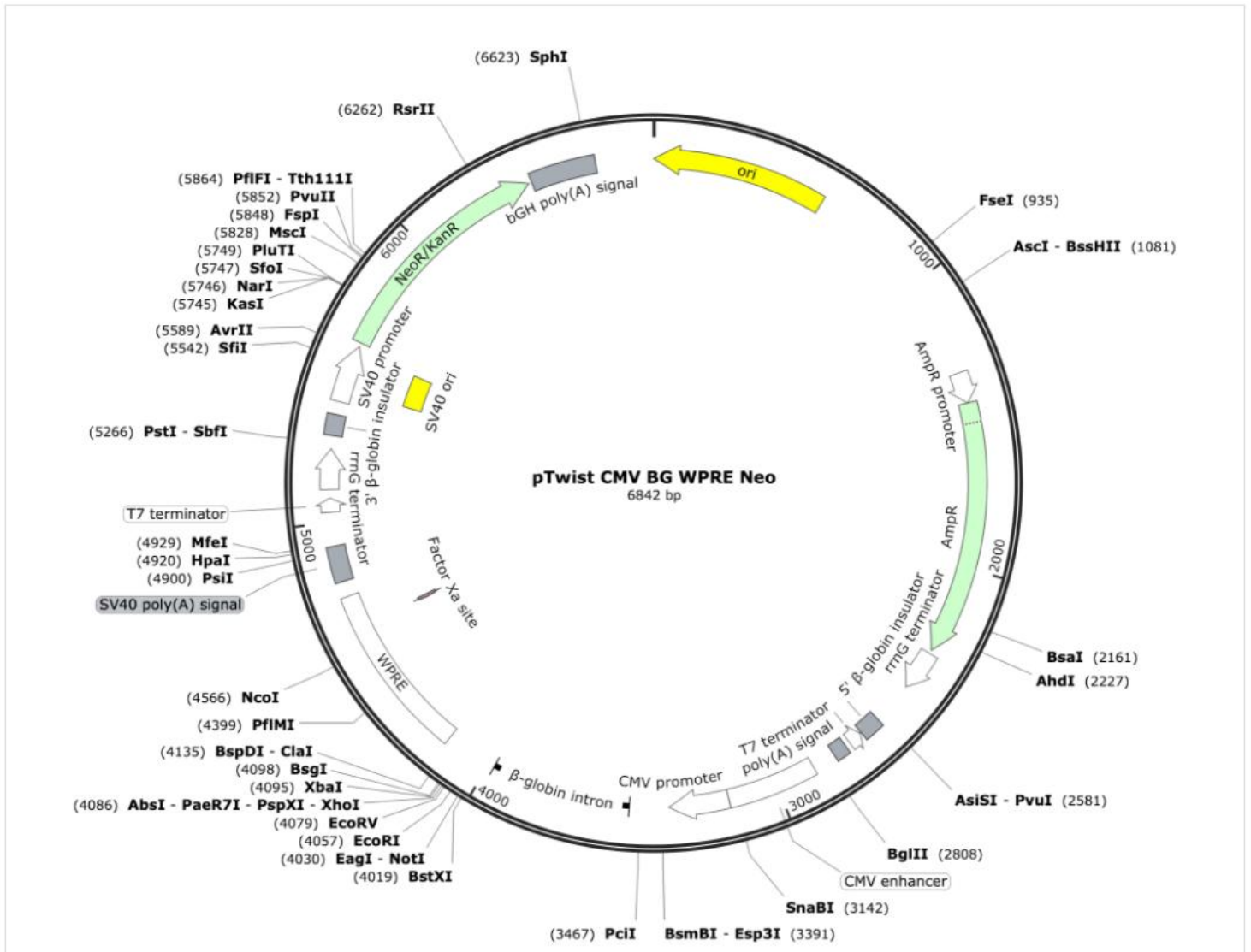


Expression Vector (Mammalian)

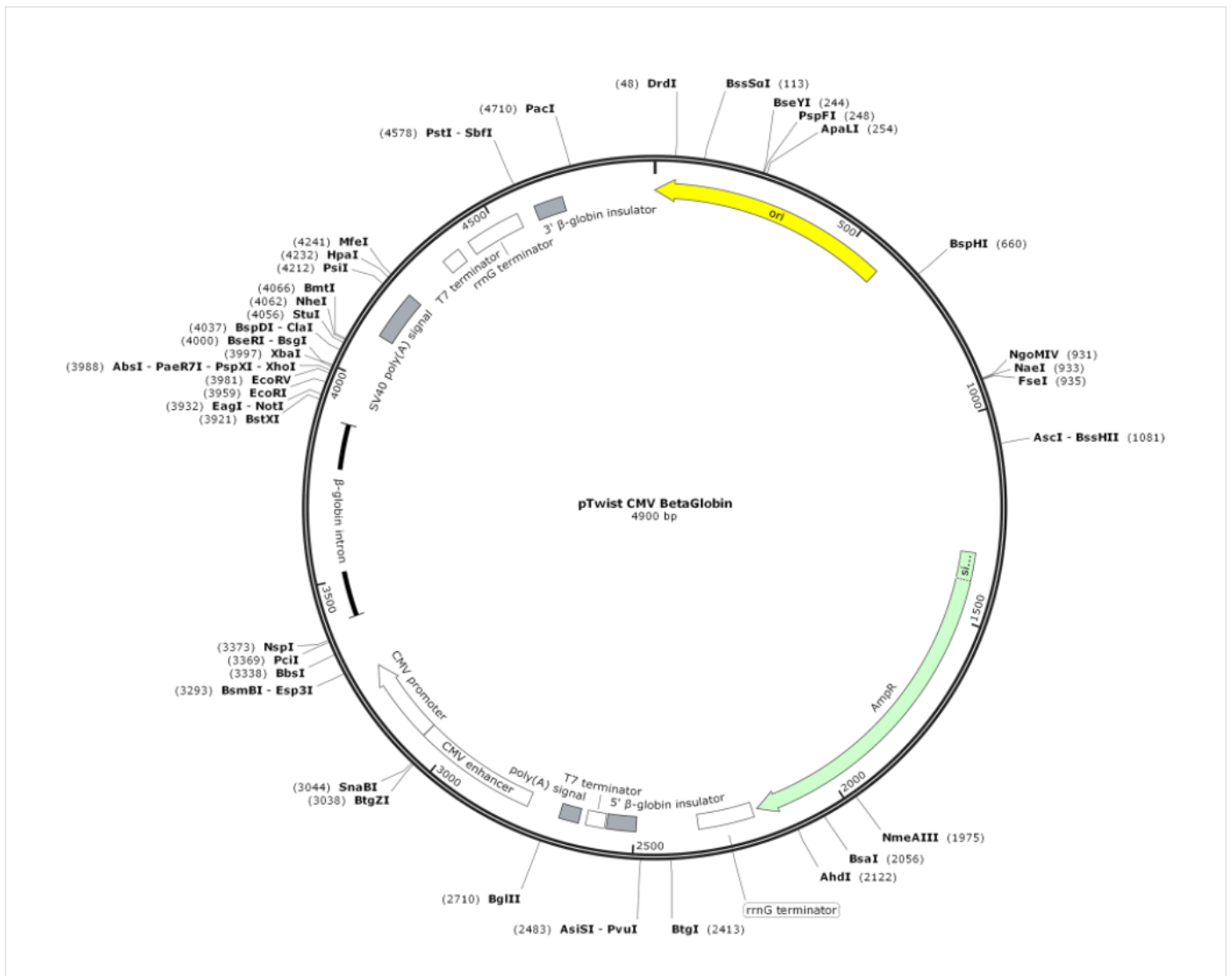
pTwist CMV			
Size	Promoter	Copy Number	Insertion Points
4,304 bp	CMV	High	HindIII_BamHI NotI_BamHI NotI_NheI HindIII_NheI EcoRI_BamHI EcoRI_NheI



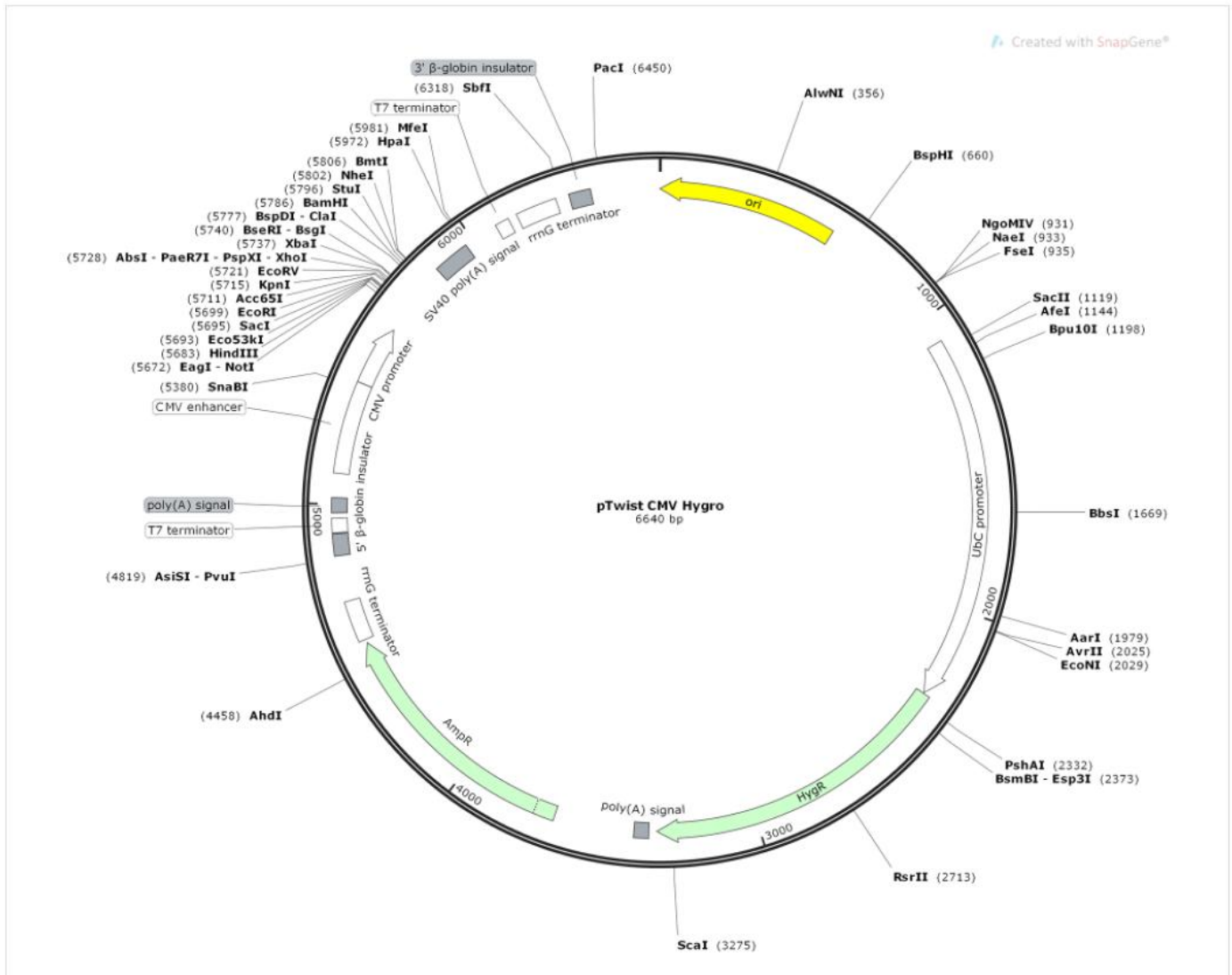
pTwist CMV BetaGlobin WPRE Neo			
Size	Promoter	Copy Number	Insertion Points
6,842 bp	CMV	High	NotI_XbaI NotI_ClaI EcoRI_ClaI XhoI_ClaI EcoRI_XbaI XhoI_XbaI



pTwist CMV BetaGlobin			
Size	Promoter	Copy Number	Insertion Points
4,900 bp	CMV	High	EcoRI_NheI NotI_NheI NotI_XbaI EcoRI_XbaI XhoI_XbaI XhoI_NheI



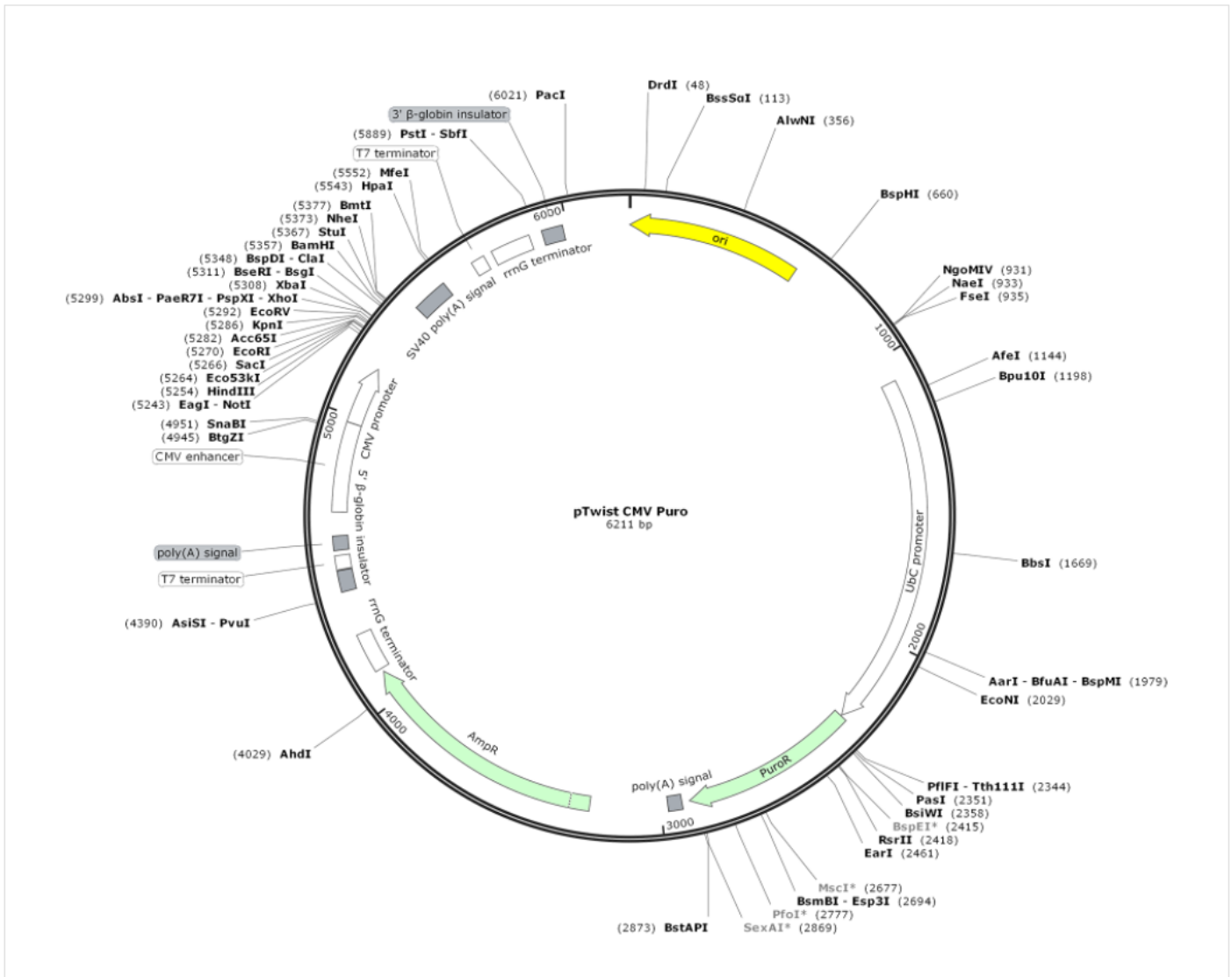
pTwist CMV Hygro			
Size	Promoter	Copy Number	Insertion Points
6,640 bp	CMV, Ubc	High	NotI_XbaI NotI_NheI NotI_BamHI HindIII_BamHI HindIII_NheI EcoRI_BamHI EcoRI_NheI



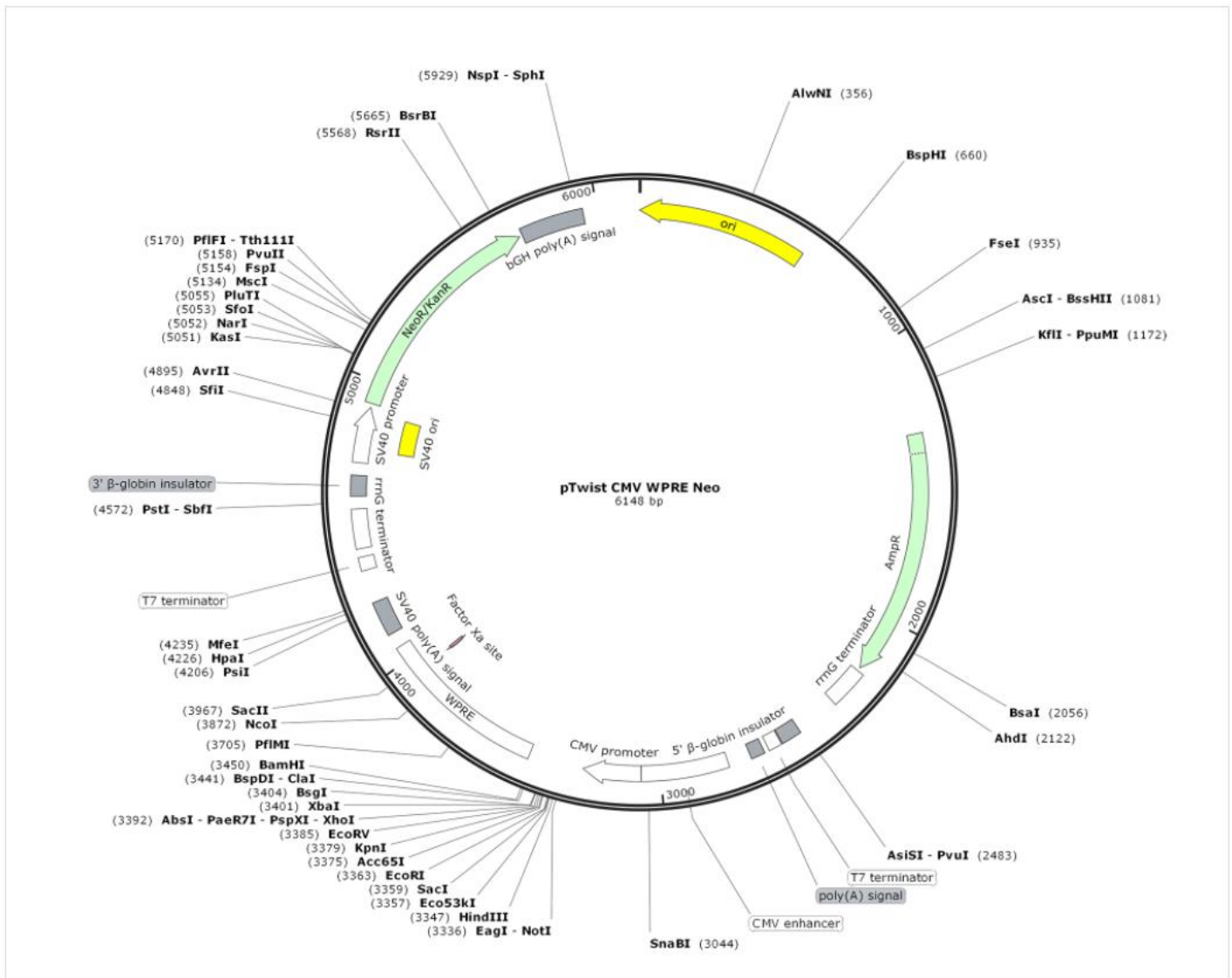
pTwist CMV OriP			
Size	Promoter	Copy Number	Insertion Points
5,043 bp	CMV	High	HindIII_BamHI NotI_BamHI EcoRI_BamHI NotI_NheI HindIII_NheI EcoRI_NheI



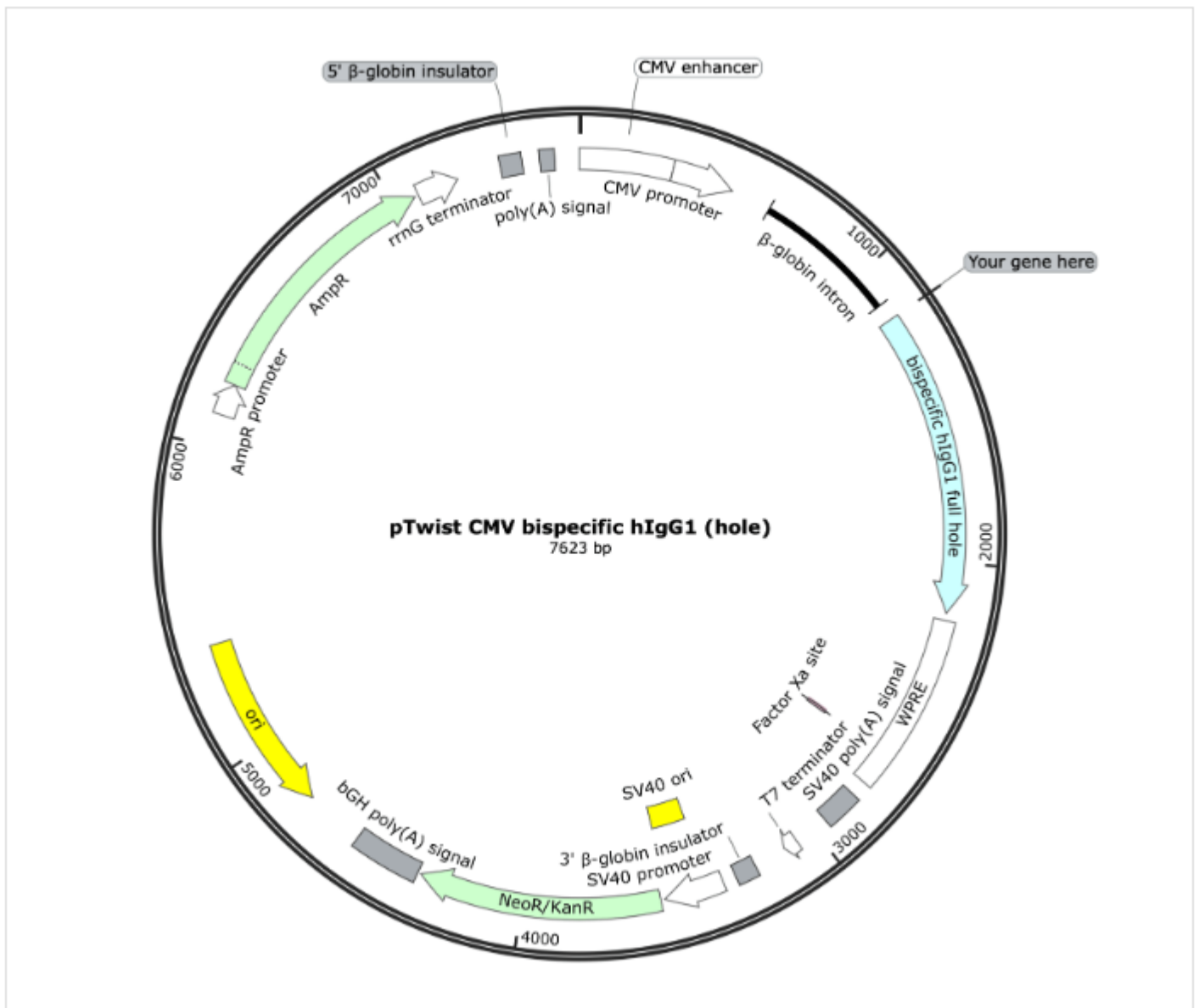
pTwist CMV Puro			
Size	Promoter	Copy Number	Insertion Points
6,211 bp	CMV, UbC	High	NotI_NheI NotI_BamHI HindIII_BamHI HindIII_NheI EcoRI_BamHI EcoRI_NheI



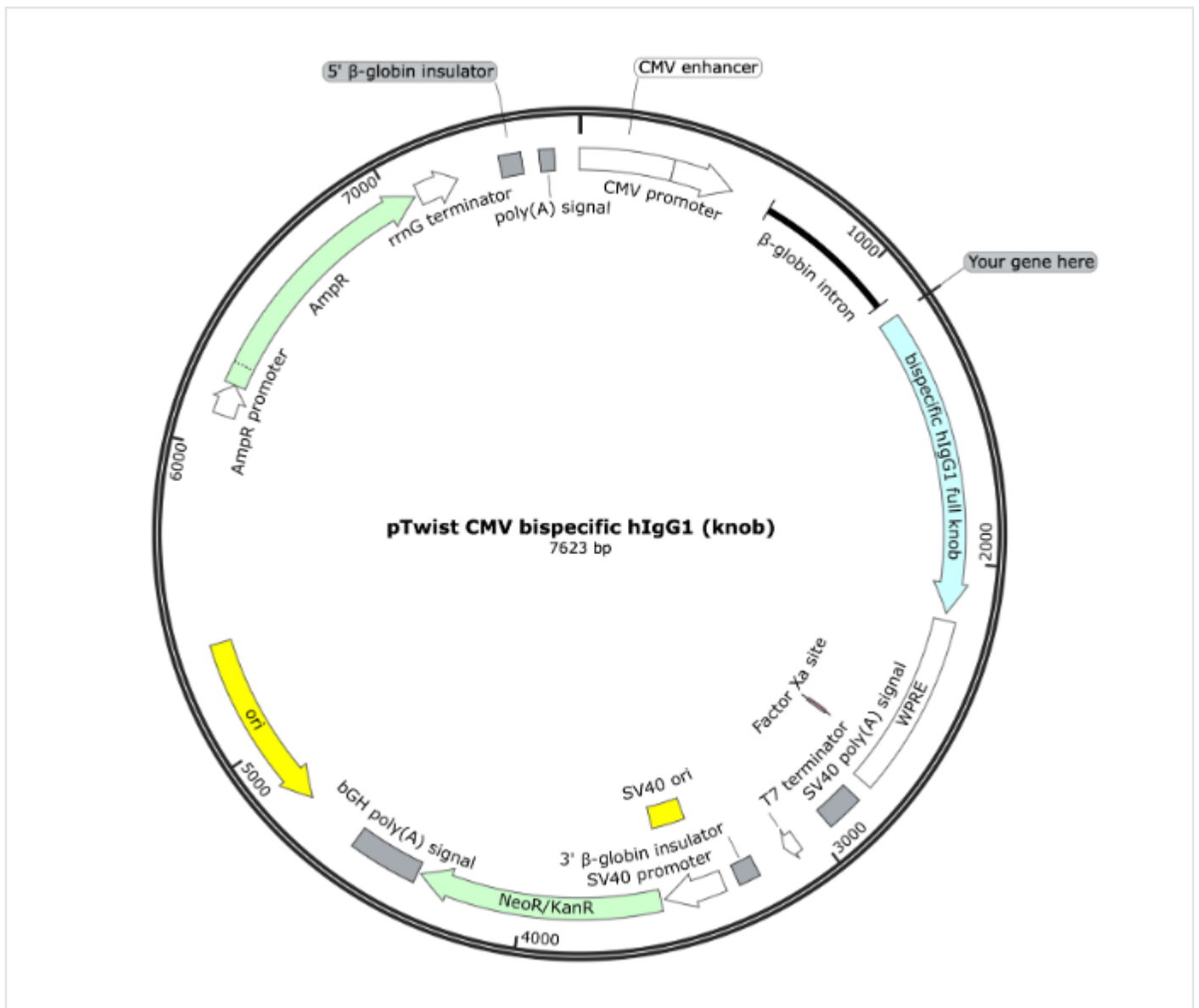
pTwist CMV WPRE Neo			
Size	Promoter	Copy Number	Insertion Points
6,148 bp	CMV	High	NotI_XbaI EcoRI_BamHI NotI_BamHI HindIII_BamHI



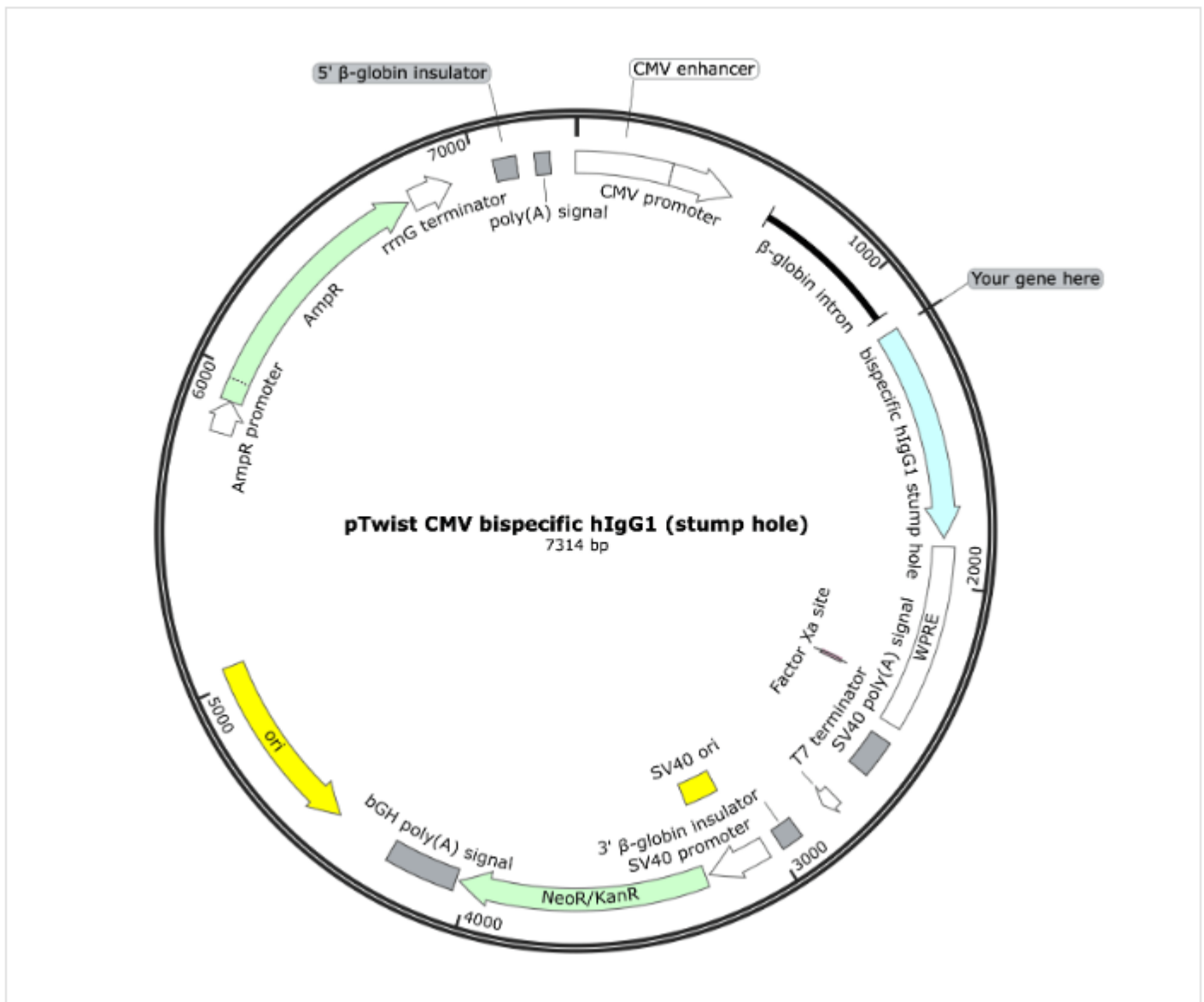
pTwist CMV bispecific hIgG1 (hole)			
Size	Promoter	Copy Number	Insertion Points
7,623 bp	CMV	High	bispecific hIgG1 full hole



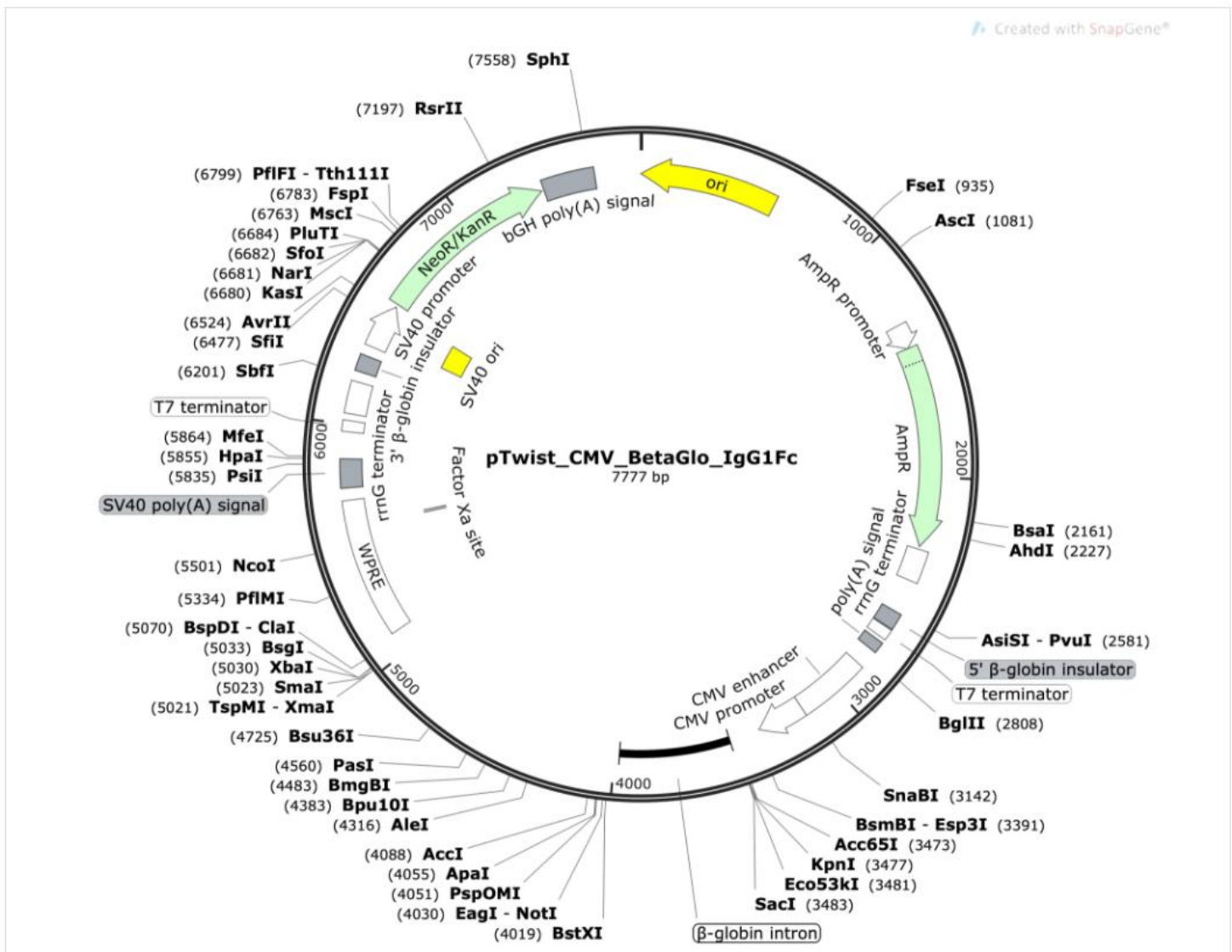
pTwist CMV bispecific hIgG1 (knob)			
Size	Promoter	Copy Number	Insertion Points
7,623 bp	CMV	High	bispecific hIgG1 full knob



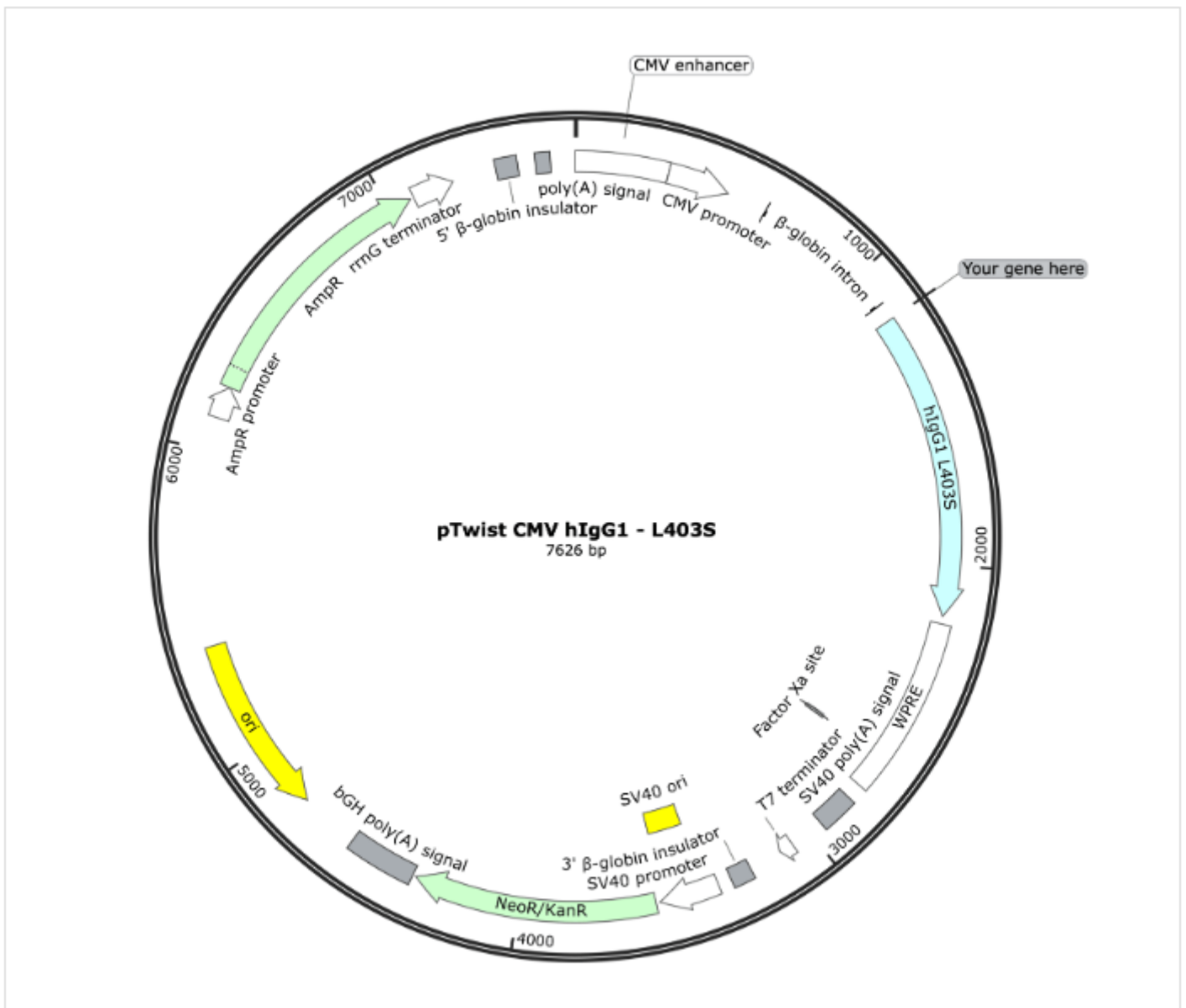
pTwist CMV bispecific hIgG1 (stump hole)			
Size	Promoter	Copy Number	Insertion Points
7,314 bp	CMV	High	bispecific hIgG1 stump hole



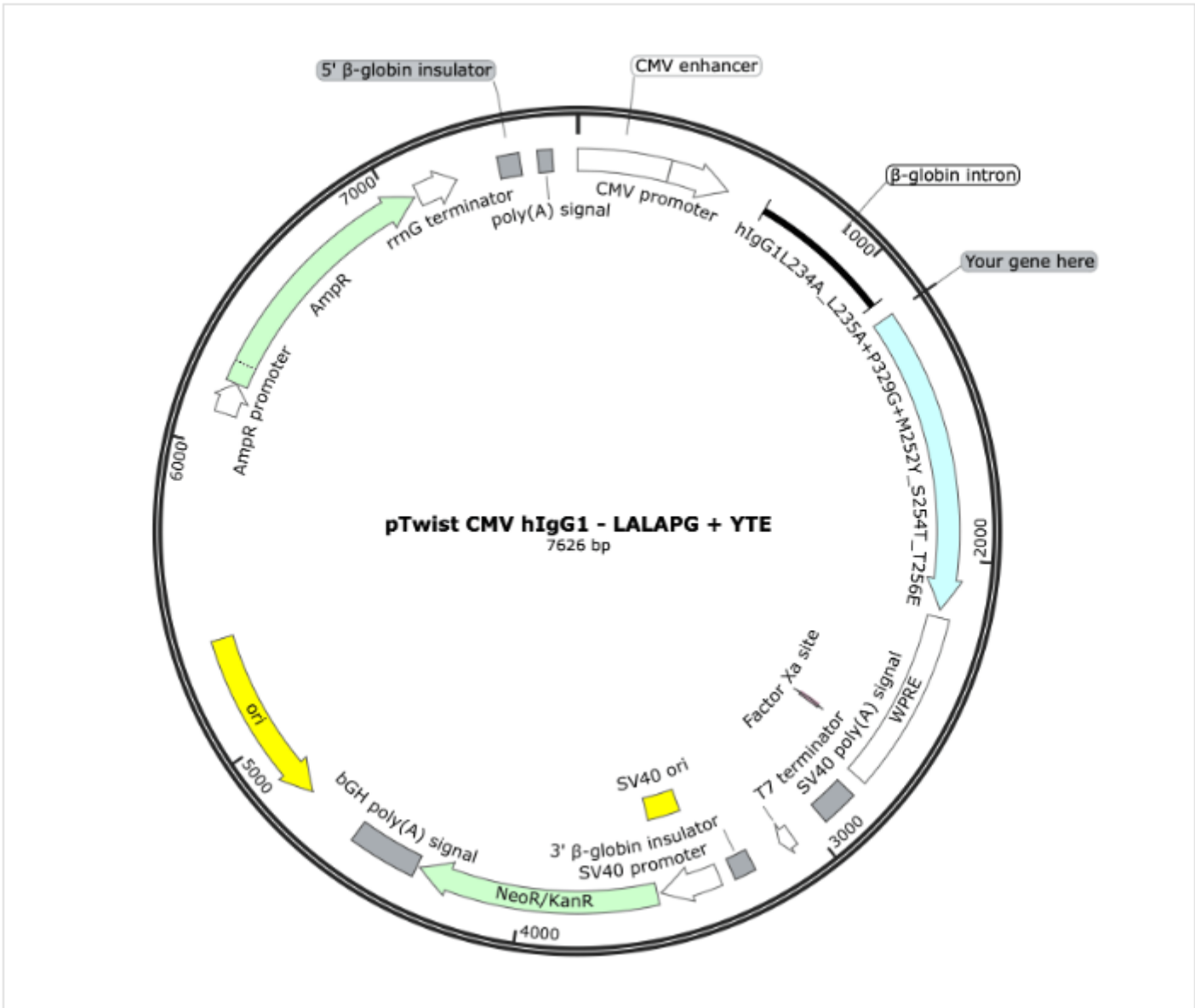
pTwist CMV hlgG1			
Size	Promoter	Copy Number	Insertion Points
7,777 bp	CMV	High	HulgG1Fc_TAG



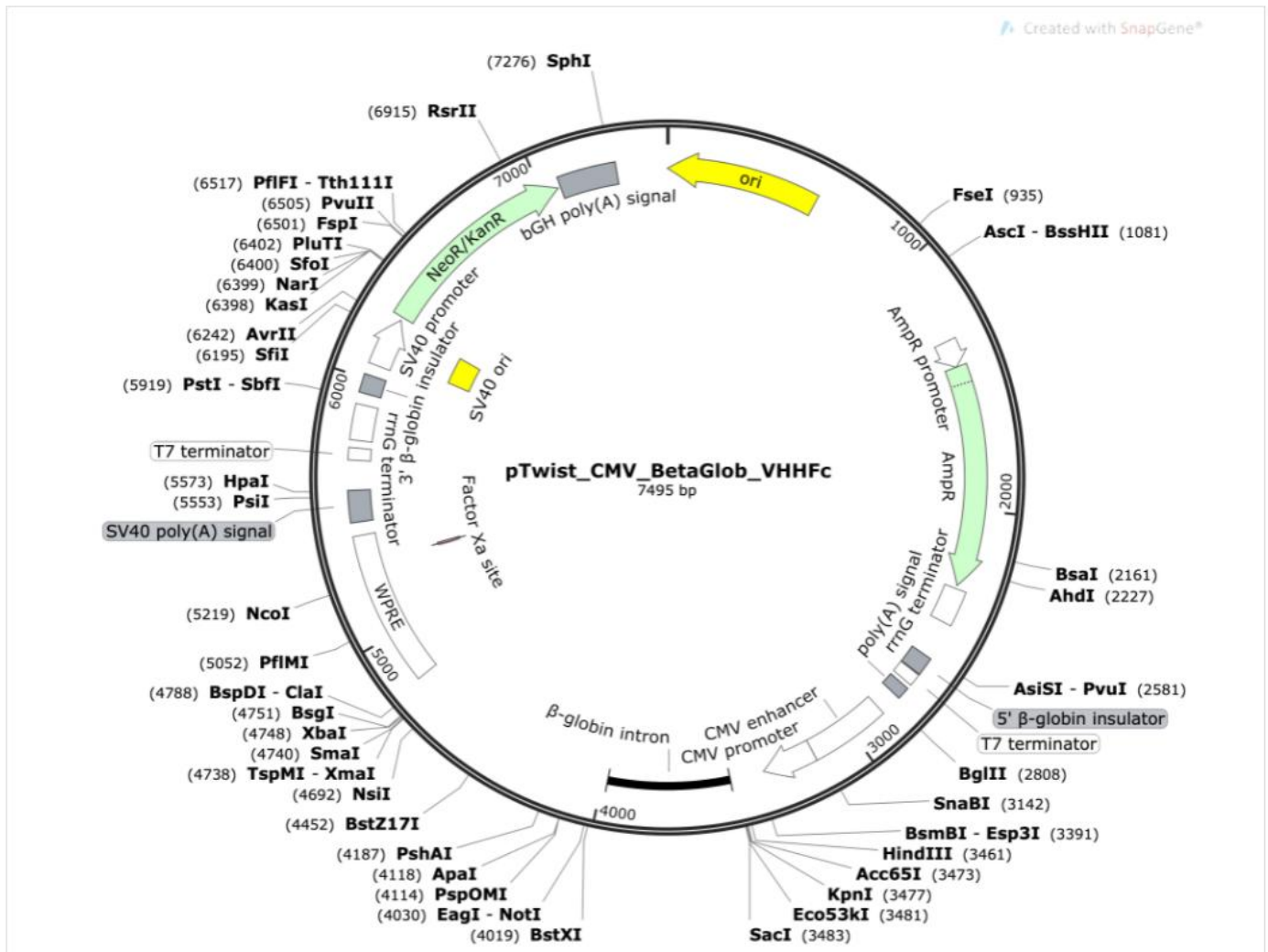
pTwist CMV hIgG1 - L403S			
Size	Promoter	Copy Number	Insertion Points
7,626 bp	CMV	High	hIgG1 L403S



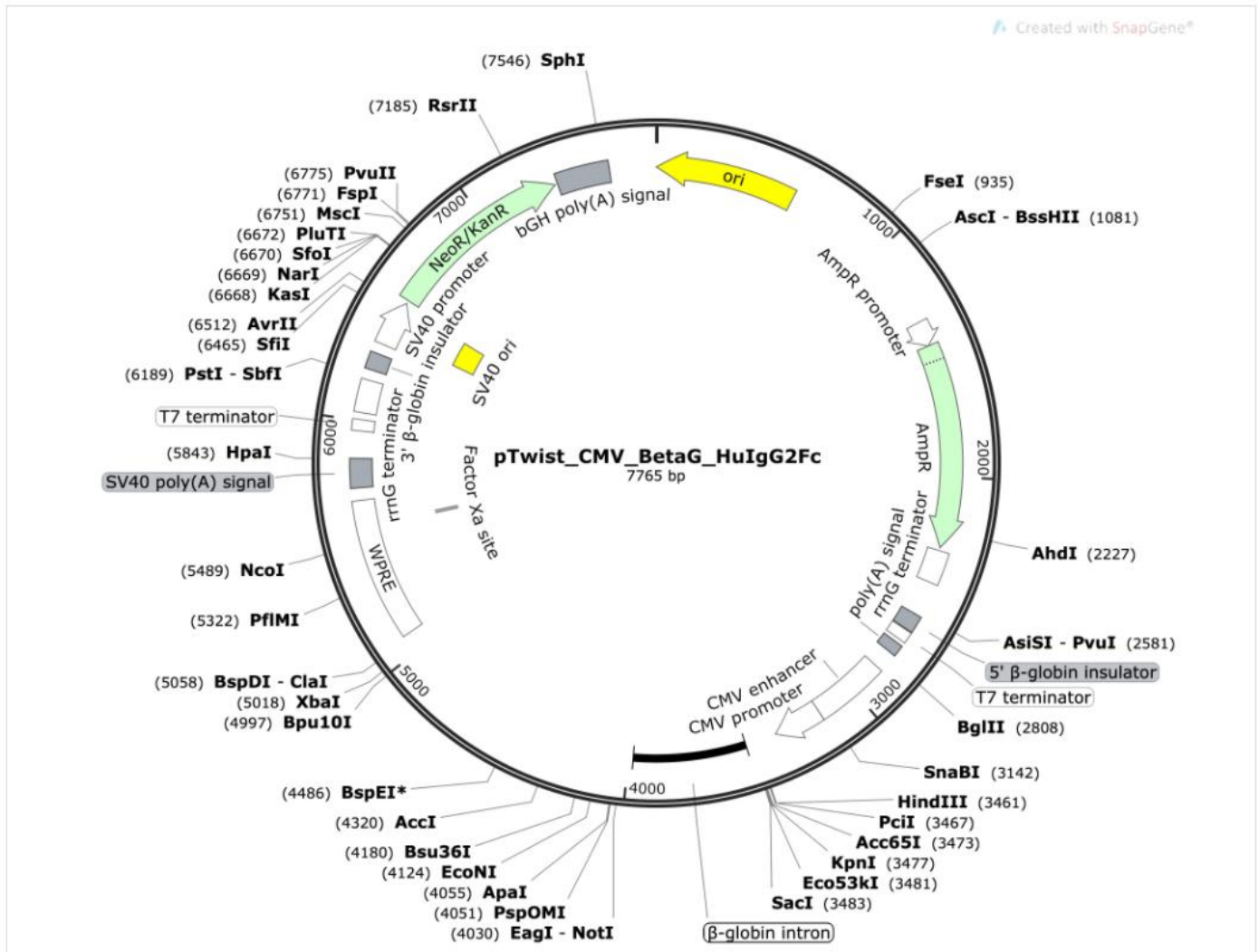
pTwist CMV hIgG1 - LALAPG + YTE			
Size	Promoter	Copy Number	Insertion Points
7,626 bp	CMV	High	hIgG1L234A_L235A+P329G+M252Y_S254T_T256E



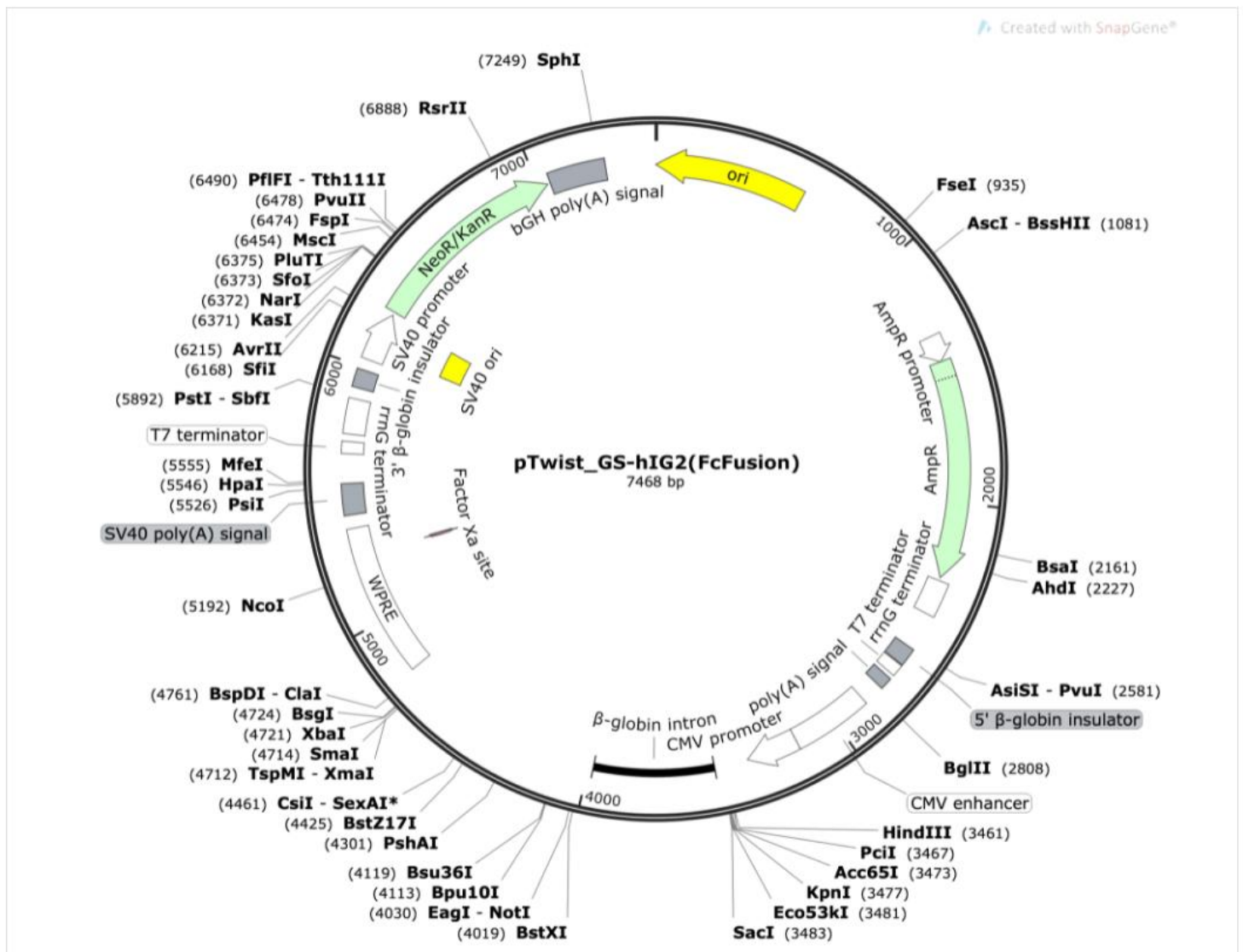
pTwist CMV hlgG1-Fc			
Size	Promoter	Copy Number	Insertion Points
7,495 bp	CMV	High	VHhFc_TAG



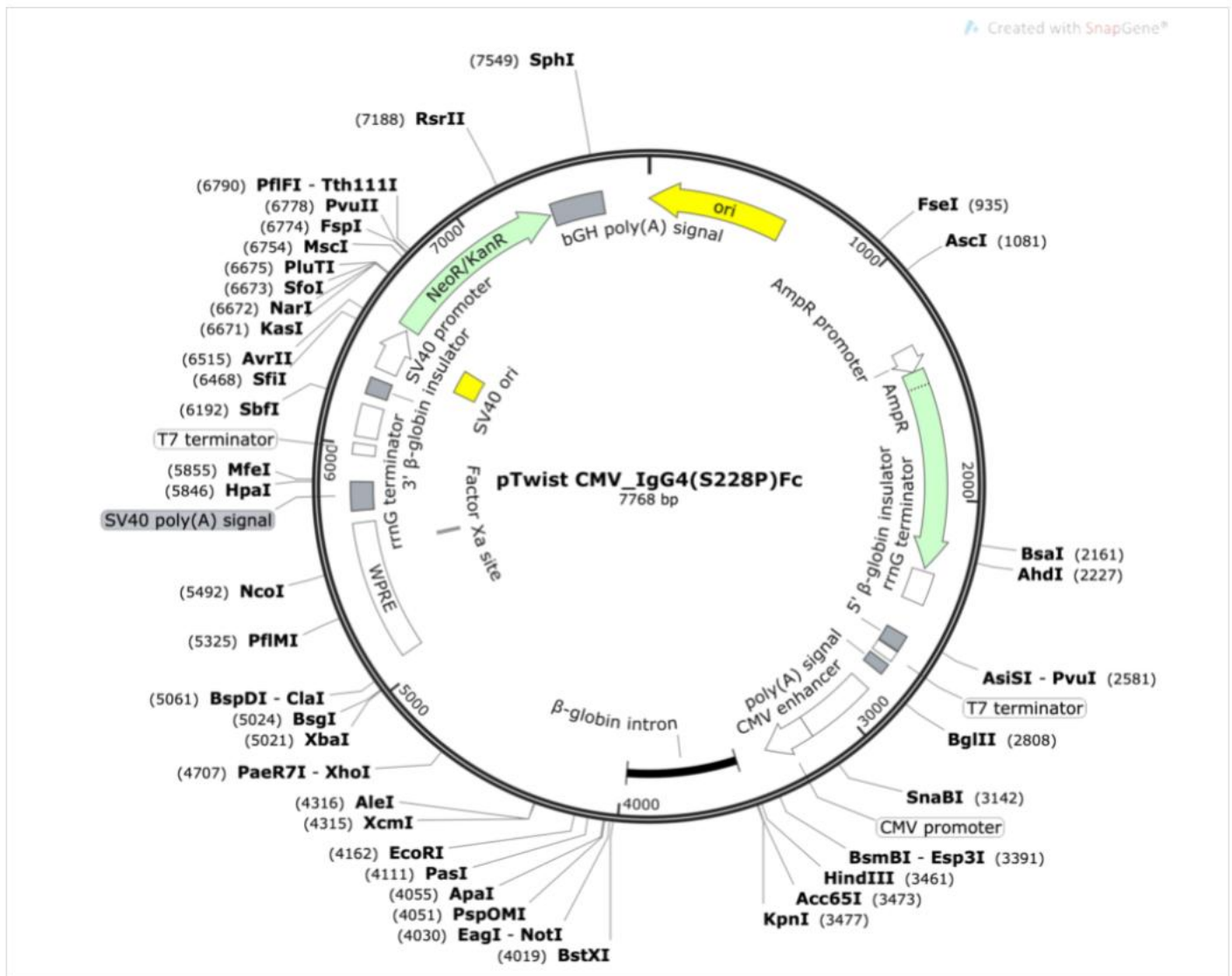
pTwist CMV hlgG2			
Size	Promoter	Copy Number	Insertion Points
7,765 bp	CMV	High	HulgG2Fc_TAG



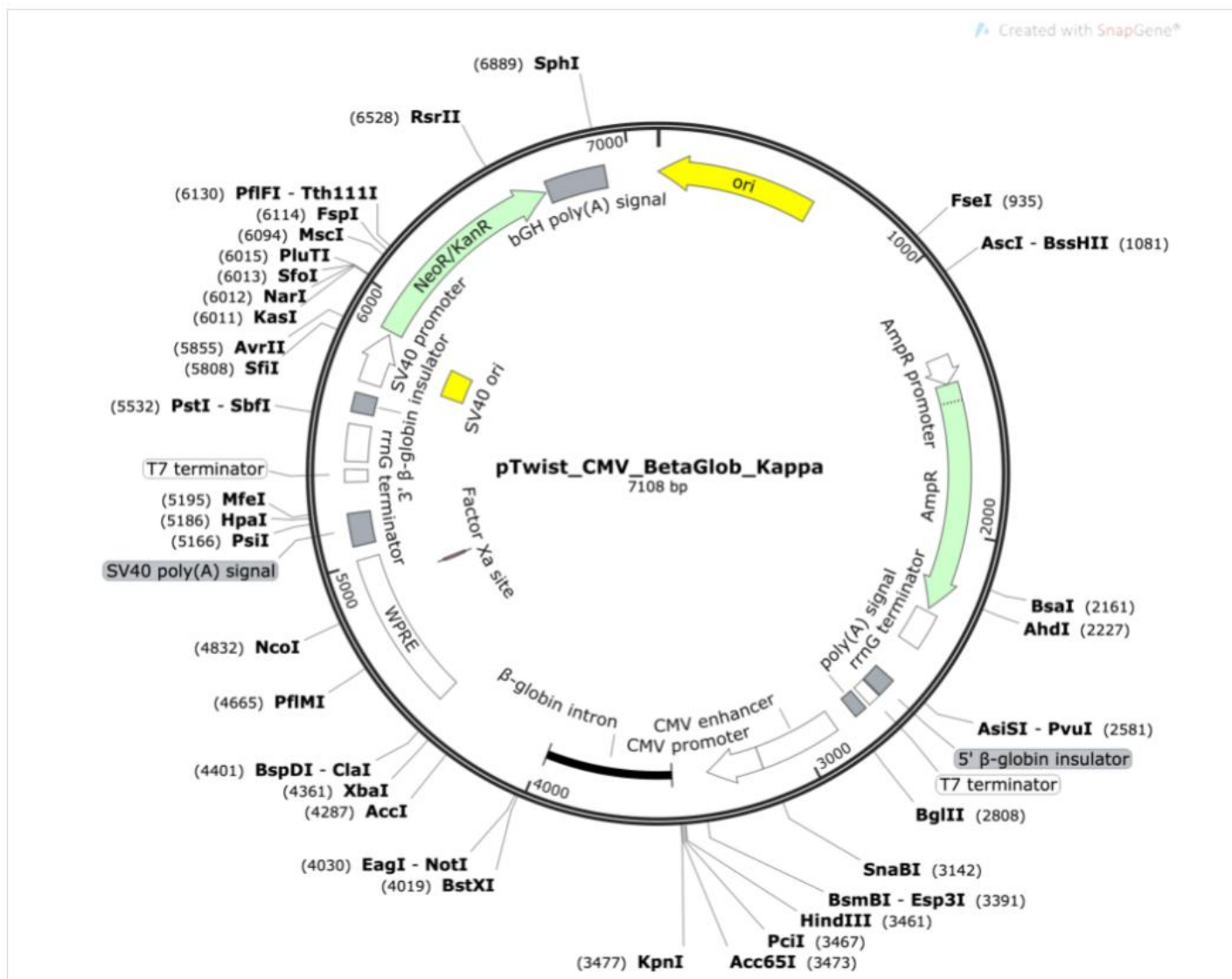
pTwist CMV hlgG2-Fc			
Size	Promoter	Copy Number	Insertion Points
7,468 bp	CMV	High	NotI_GS-hlgG2-FcFusionTA



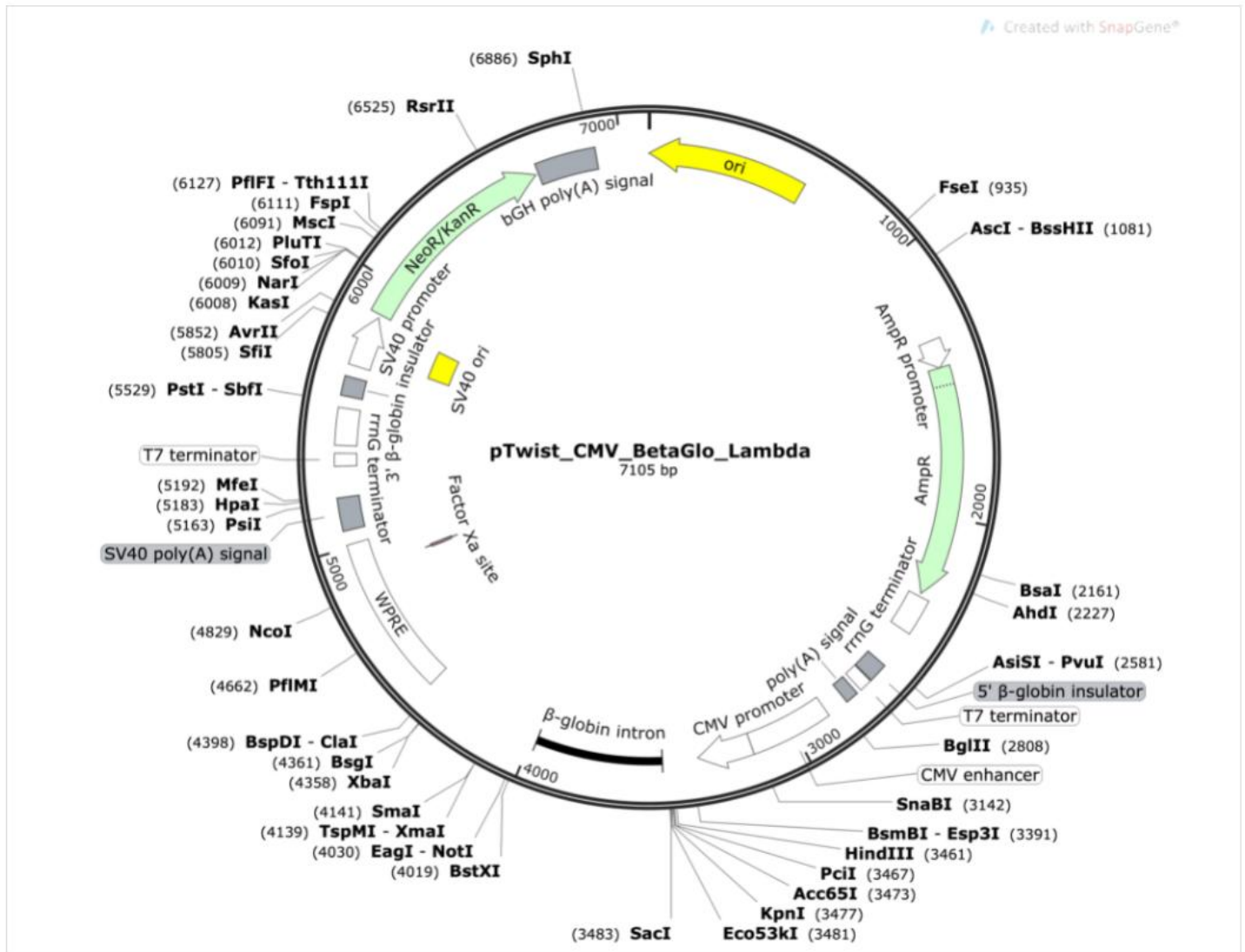
pTwist CMV hlgG4 S228P			
Size	Promoter	Copy Number	Insertion Points
7,768 bp	CMV	High	HulgG4_TAG



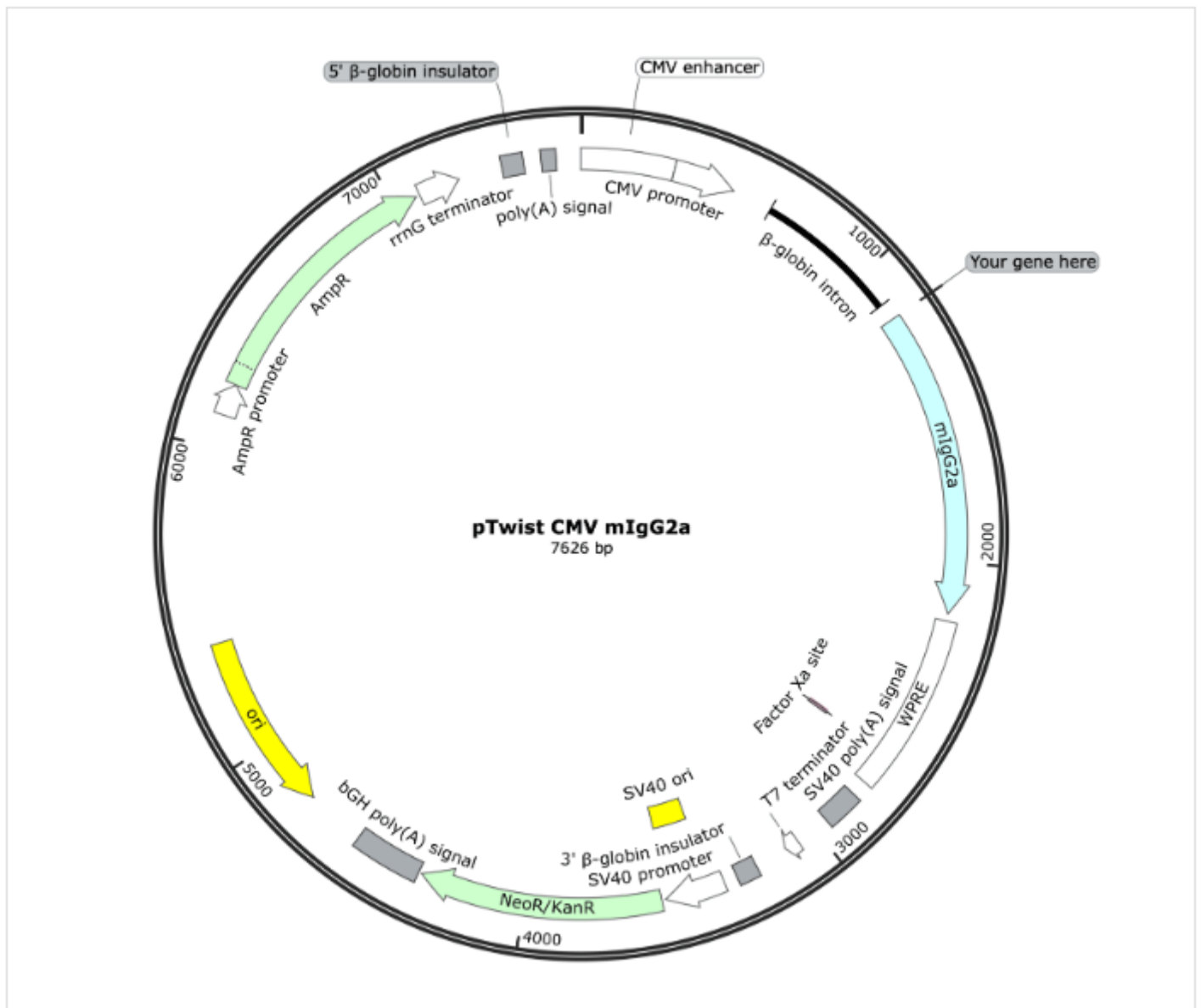
pTwist CMV hlgK			
Size	Promoter	Copy Number	Insertion Points
7,108 bp	CMV	High	Kappa_TAG



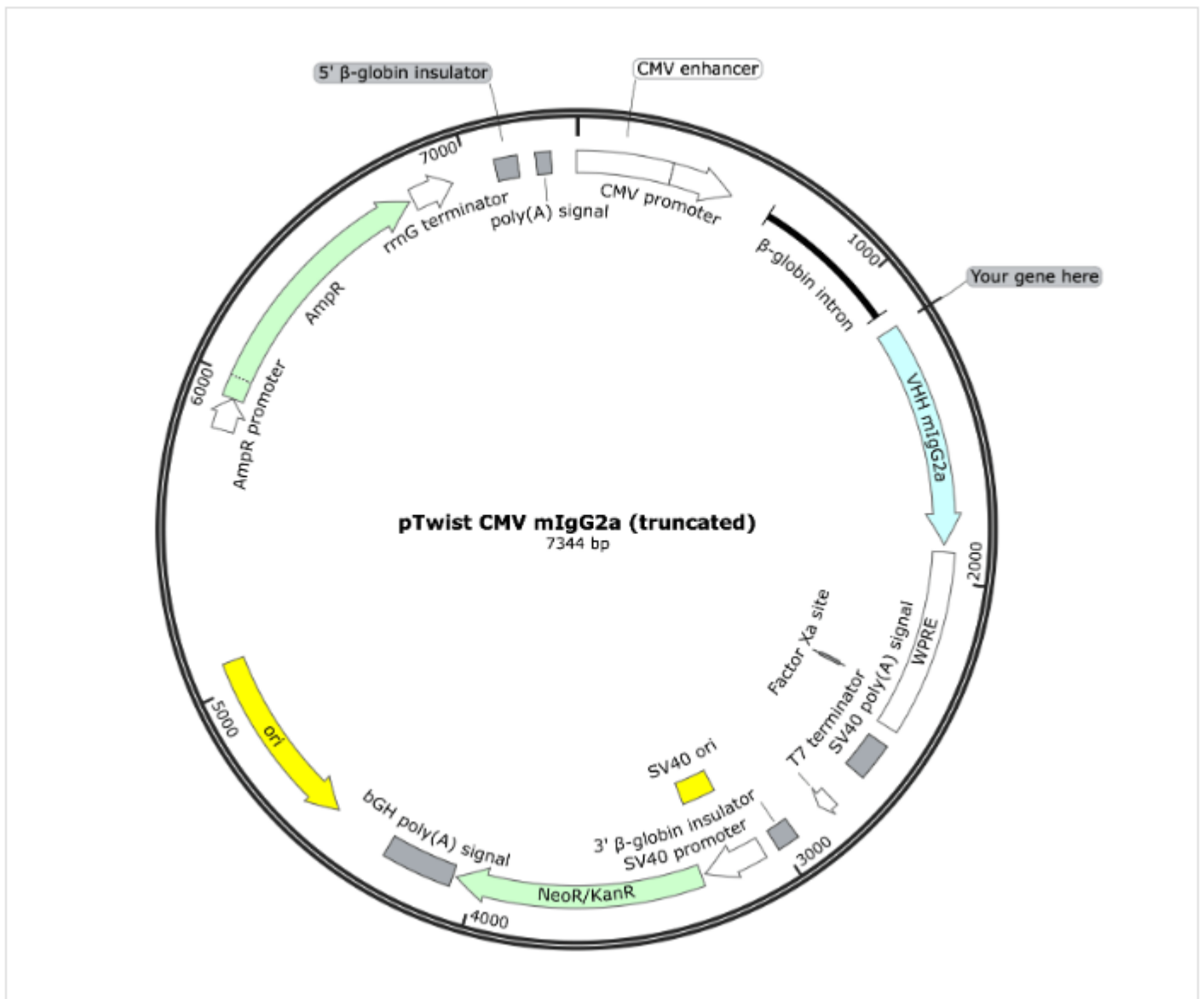
pTwist CMV hlgL2			
Size	Promoter	Copy Number	Insertion Points
7,105 bp	CMV	High	Lambda_TAG



pTwist CMV mIgG2a			
Size	Promoter	Copy Number	Insertion Points
7,626 bp	CMV	High	mIgG2a



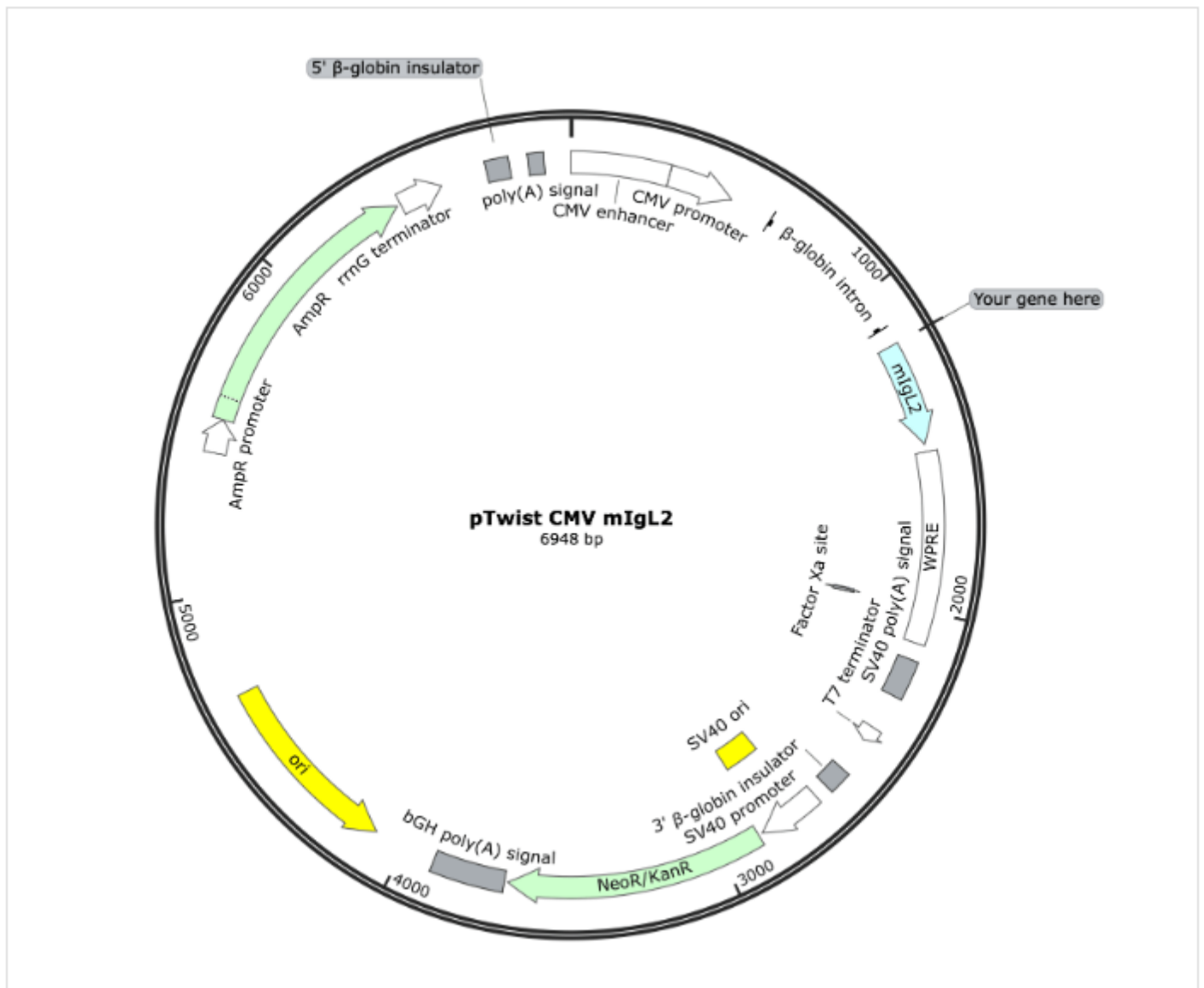
pTwist CMV mIgG2a (truncated)			
Size	Promoter	Copy Number	Insertion Points
7,344 bp	CMV	High	VHH mIgG2a



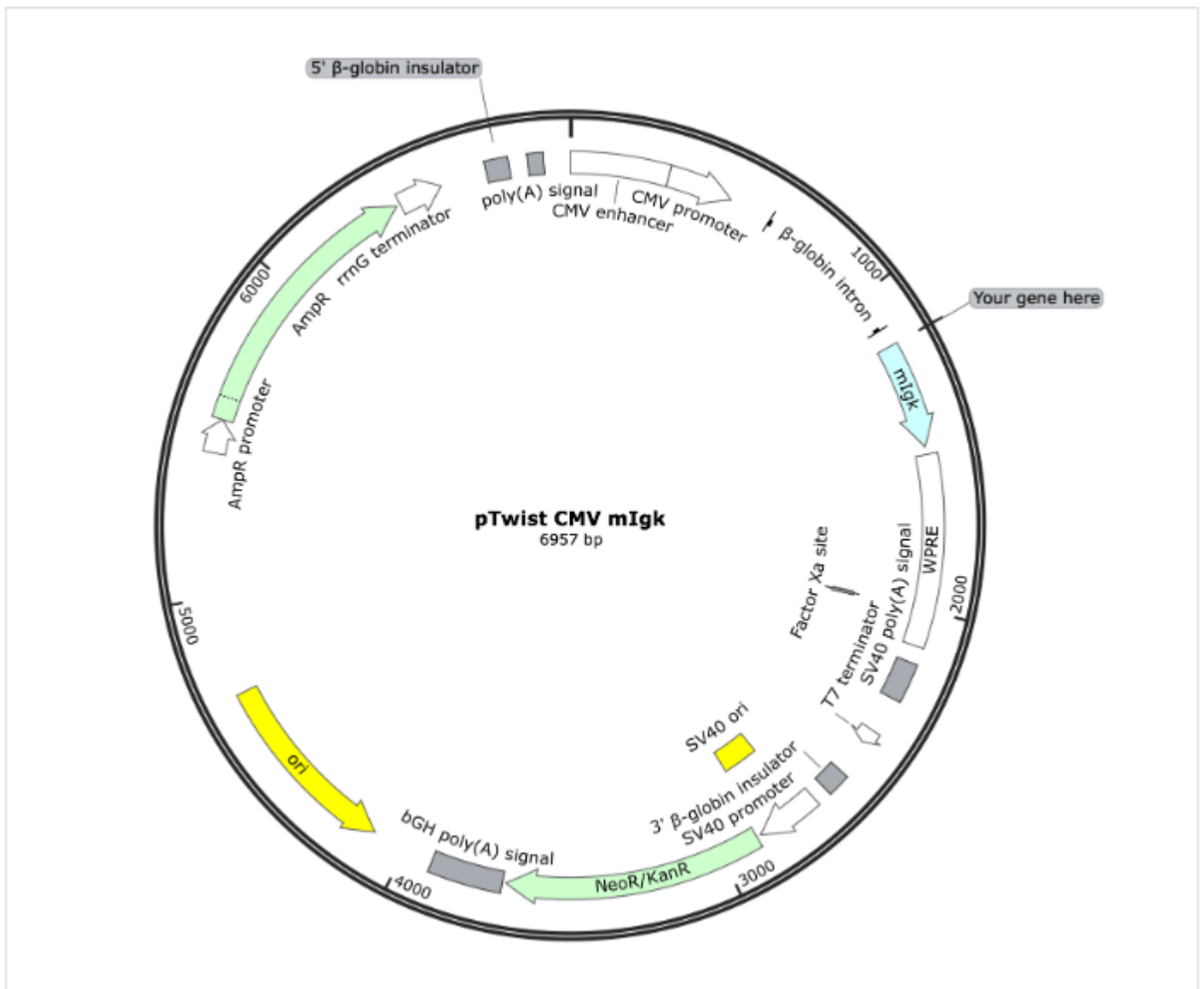
pTwist CMV mIgL1			
Size	Promoter	Copy Number	Insertion Points
6,951 bp	CMV	High	mIgL1



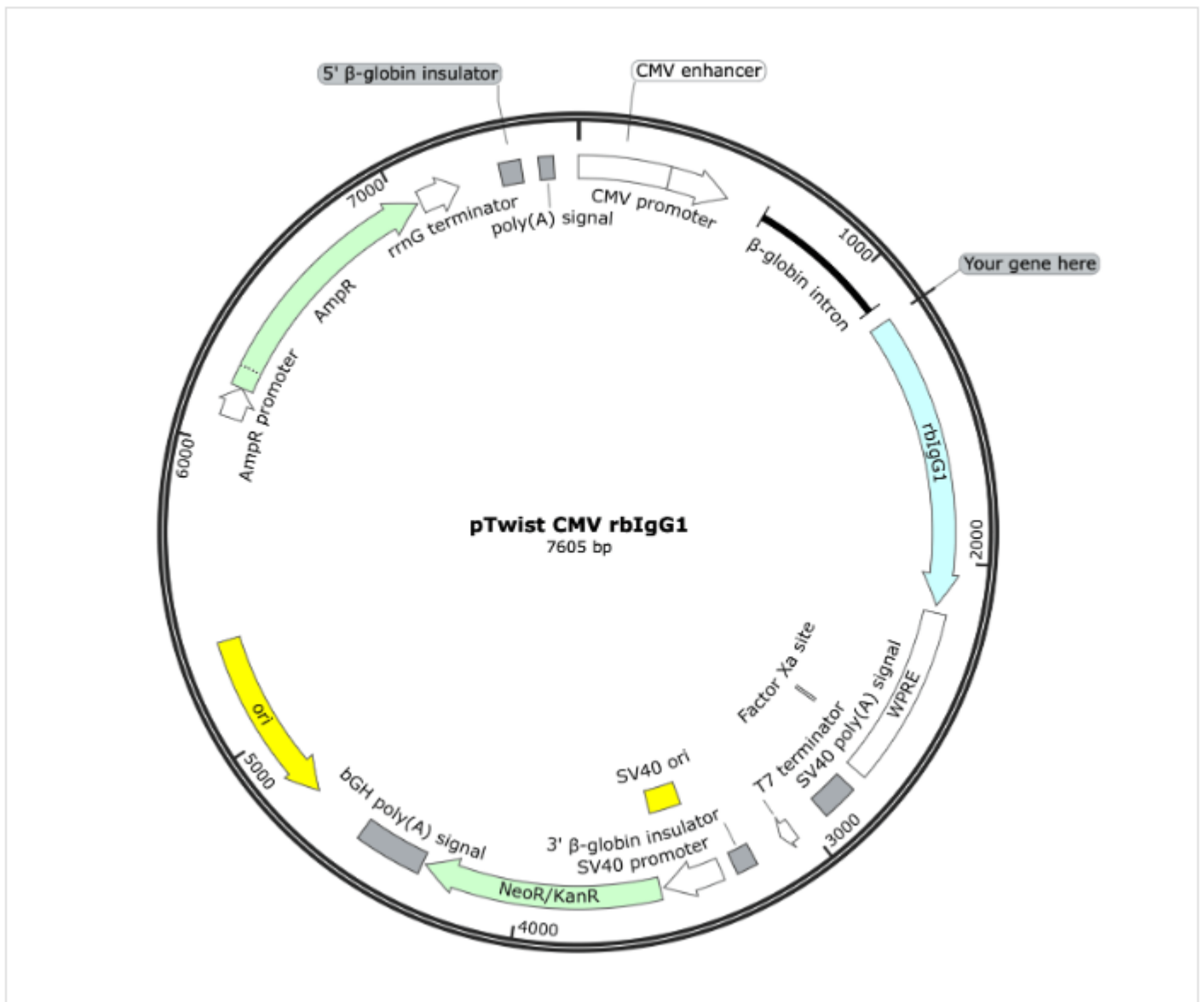
pTwist CMV mIgL2			
Size	Promoter	Copy Number	Insertion Points
6,948 bp	CMV	High	mIgL2



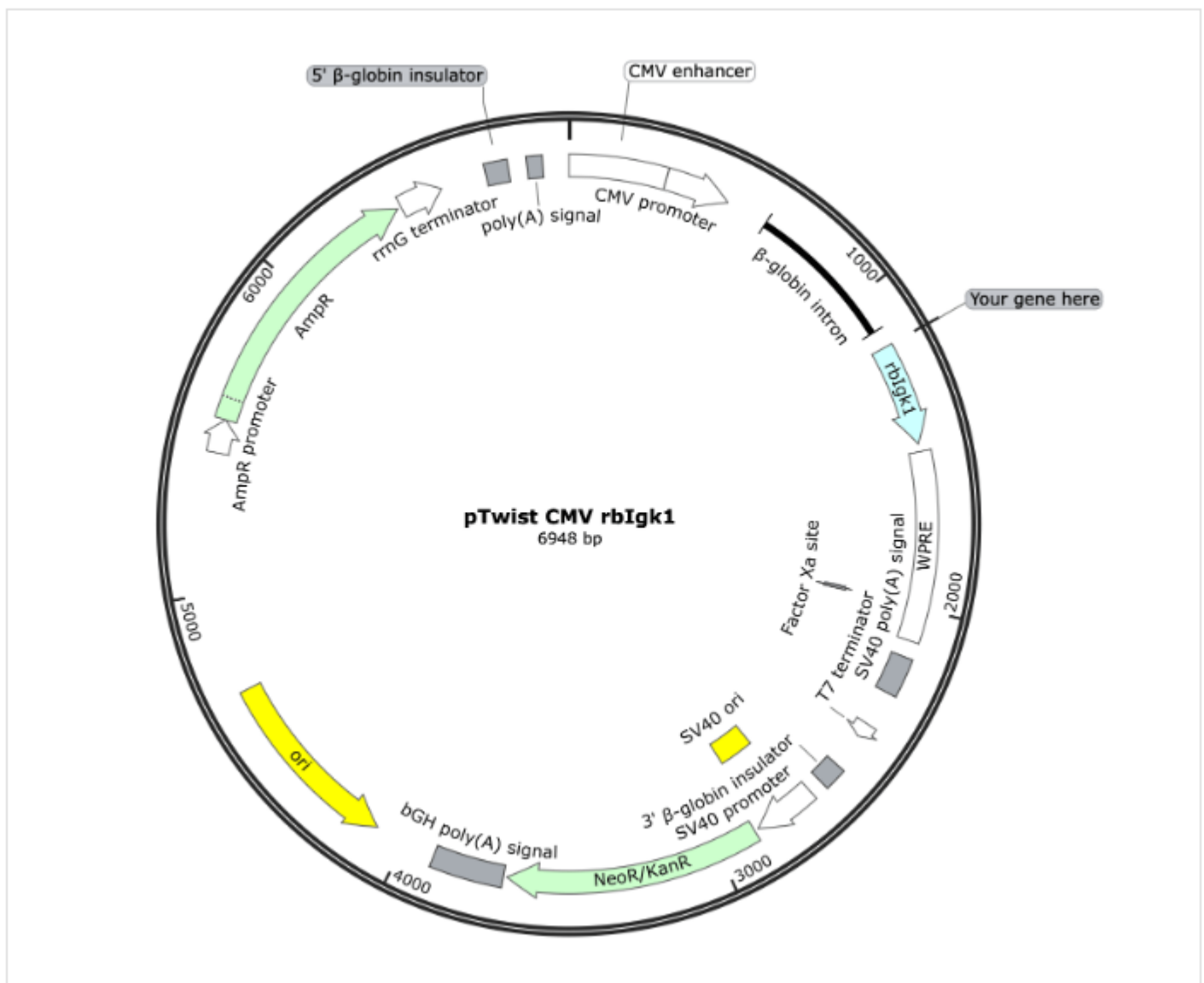
pTwist CMV mlgk			
Size	Promoter	Copy Number	Insertion Points
6,957 bp	CMV	High	mlgk



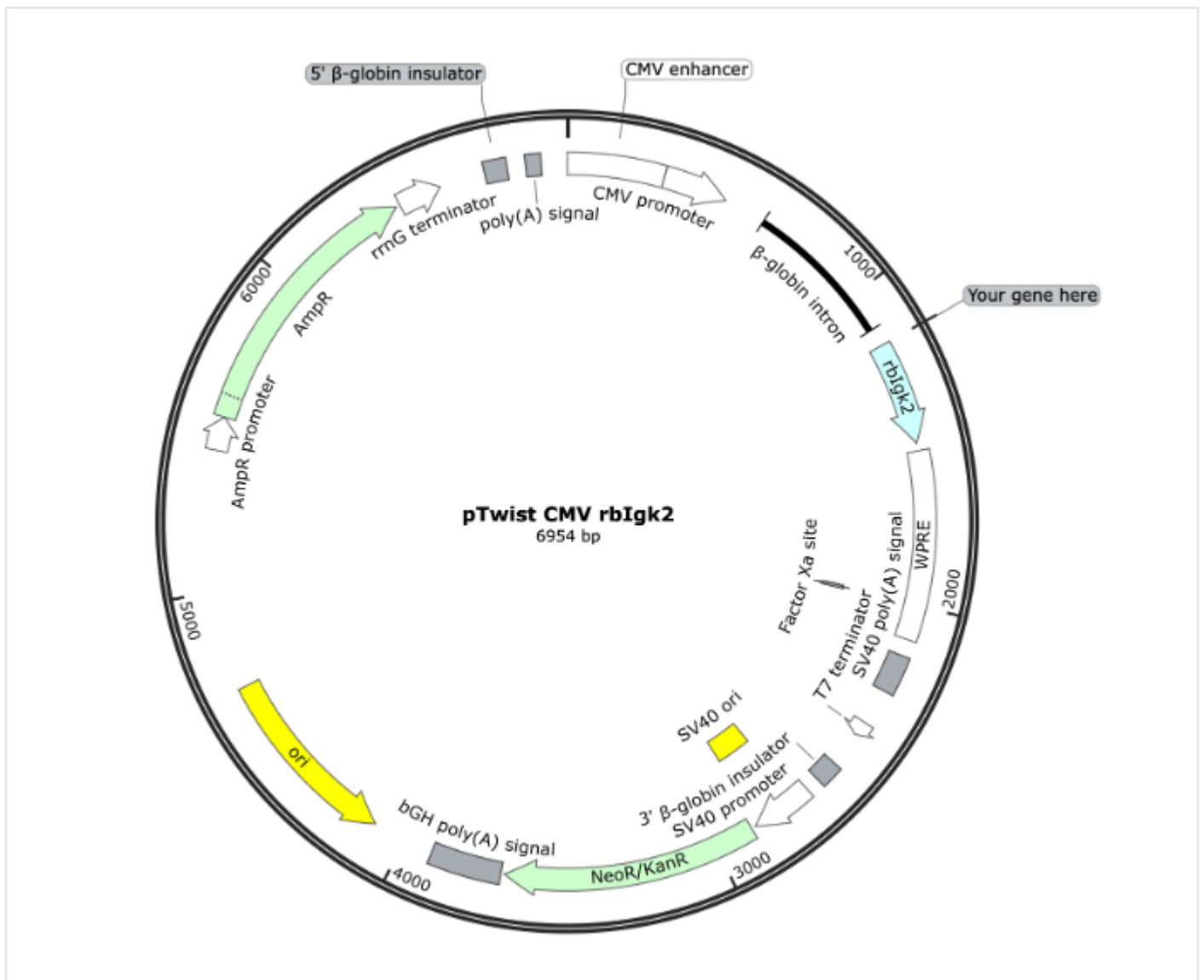
pTwist CMV rblgG1			
Size	Promoter	Copy Number	Insertion Points
7,605 bp	CMV	High	rblgG1



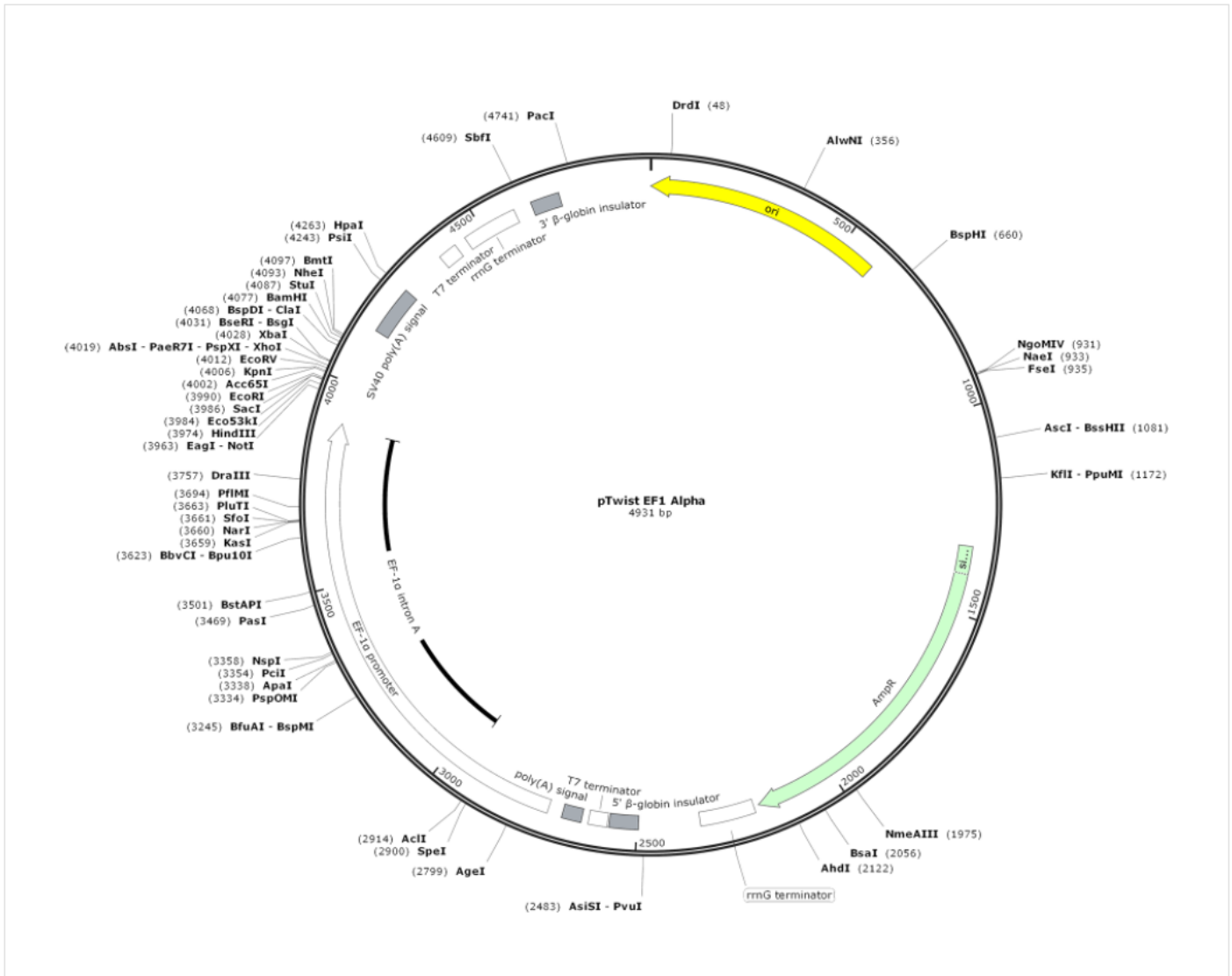
pTwist CMV rblgk1			
Size	Promoter	Copy Number	Insertion Points
6,948 bp	CMV	High	rblgk1



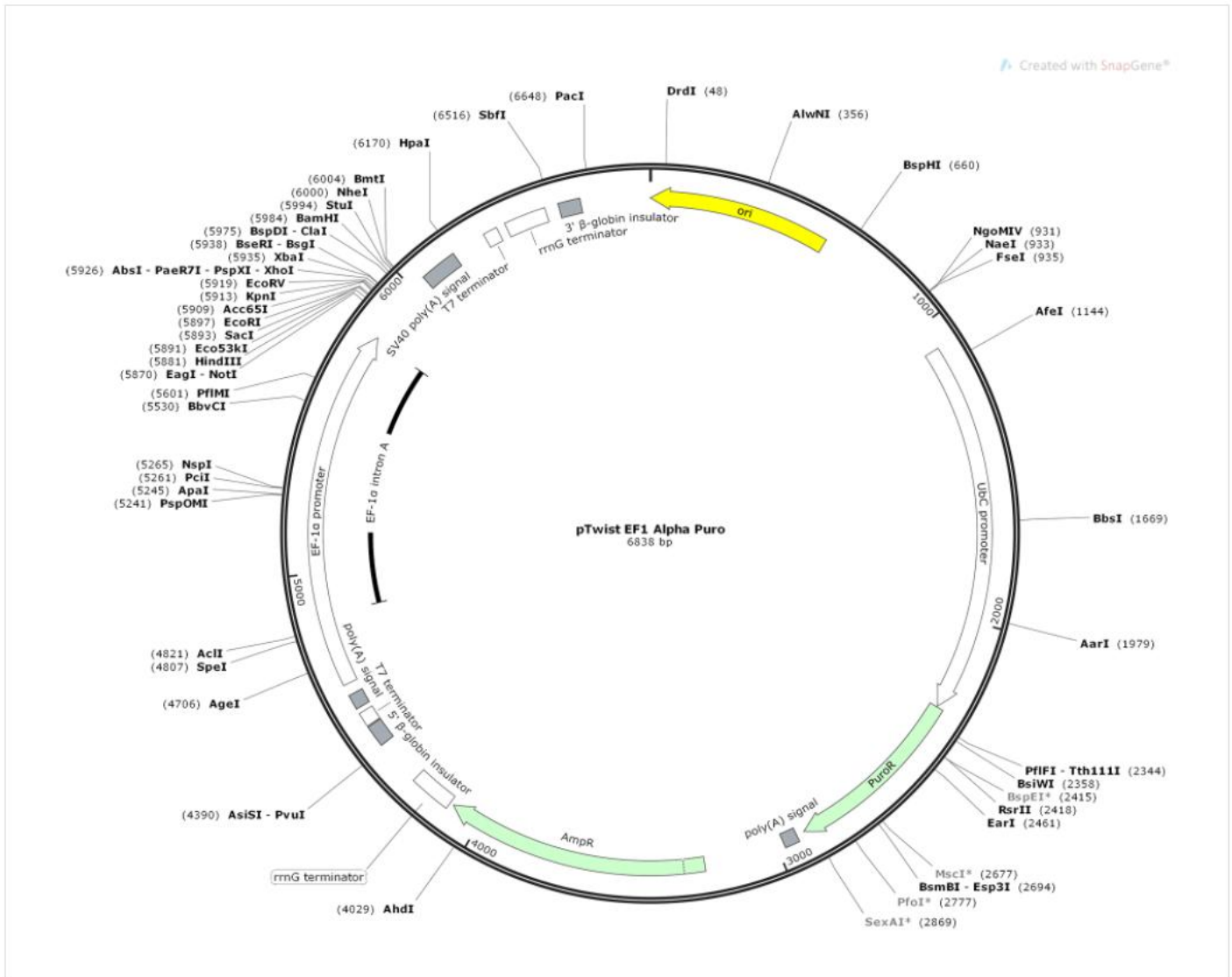
pTwist CMV rblgk2			
Size	Promoter	Copy Number	Insertion Points
6,954 bp	CMV	High	rblgk2



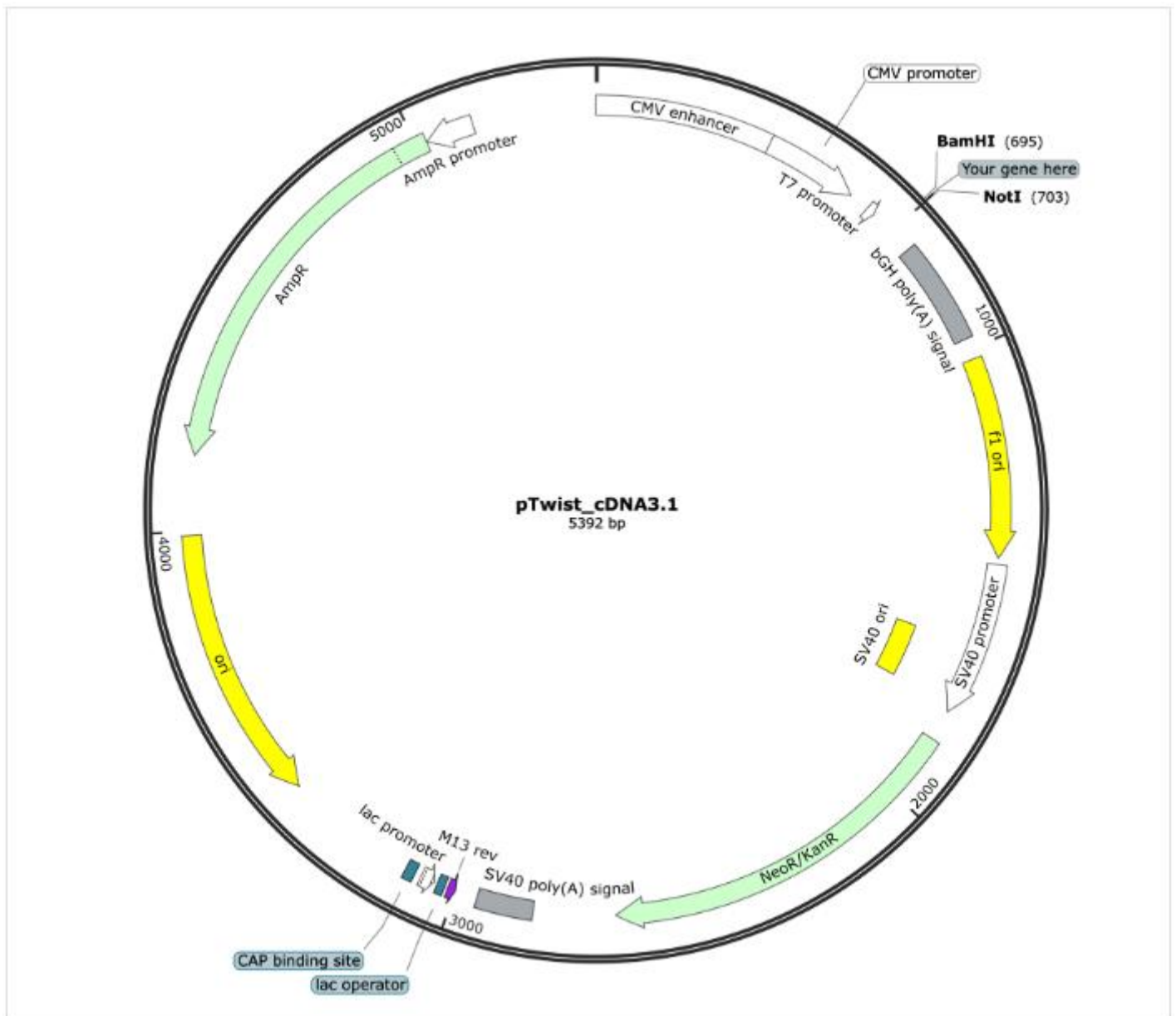
pTwist EF1 Alpha			
Size	Promoter	Copy Number	Insertion Points
4,931 bp	EF1 Alpha	Medium	NotI_NheI NotI_BamHI HindIII_BamHI HindIII_NheI EcoRI_BamHI EcoRI_NheI



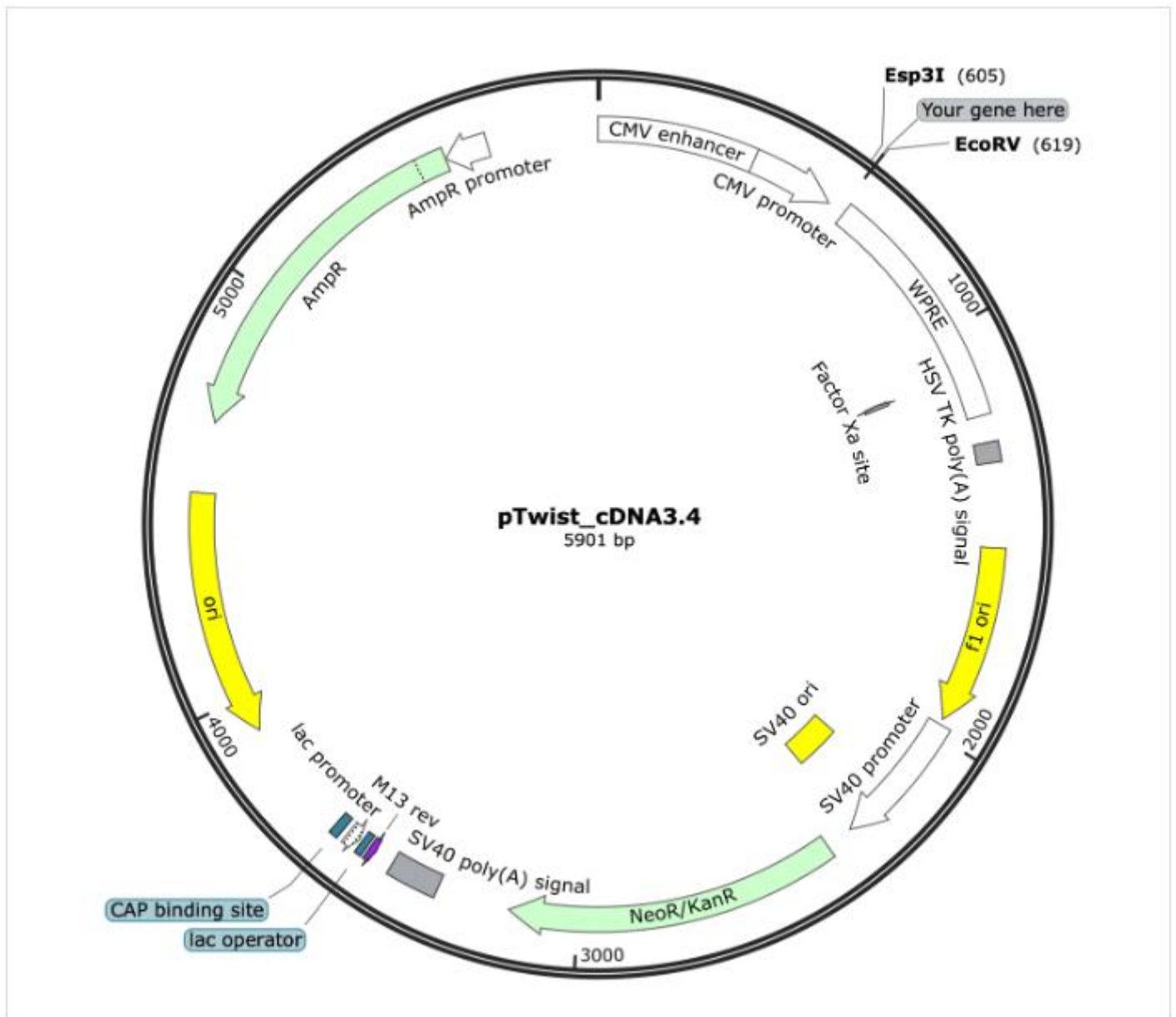
pTwist EF1 Alpha Puro			
Size	Promoter	Copy Number	Insertion Points
6,838 bp	EF1 Alpha	Medium	NotI_NheI NotI_BamHI HindIII_BamHI HindIII_NheI EcoRI_BamHI EcoRI_NheI



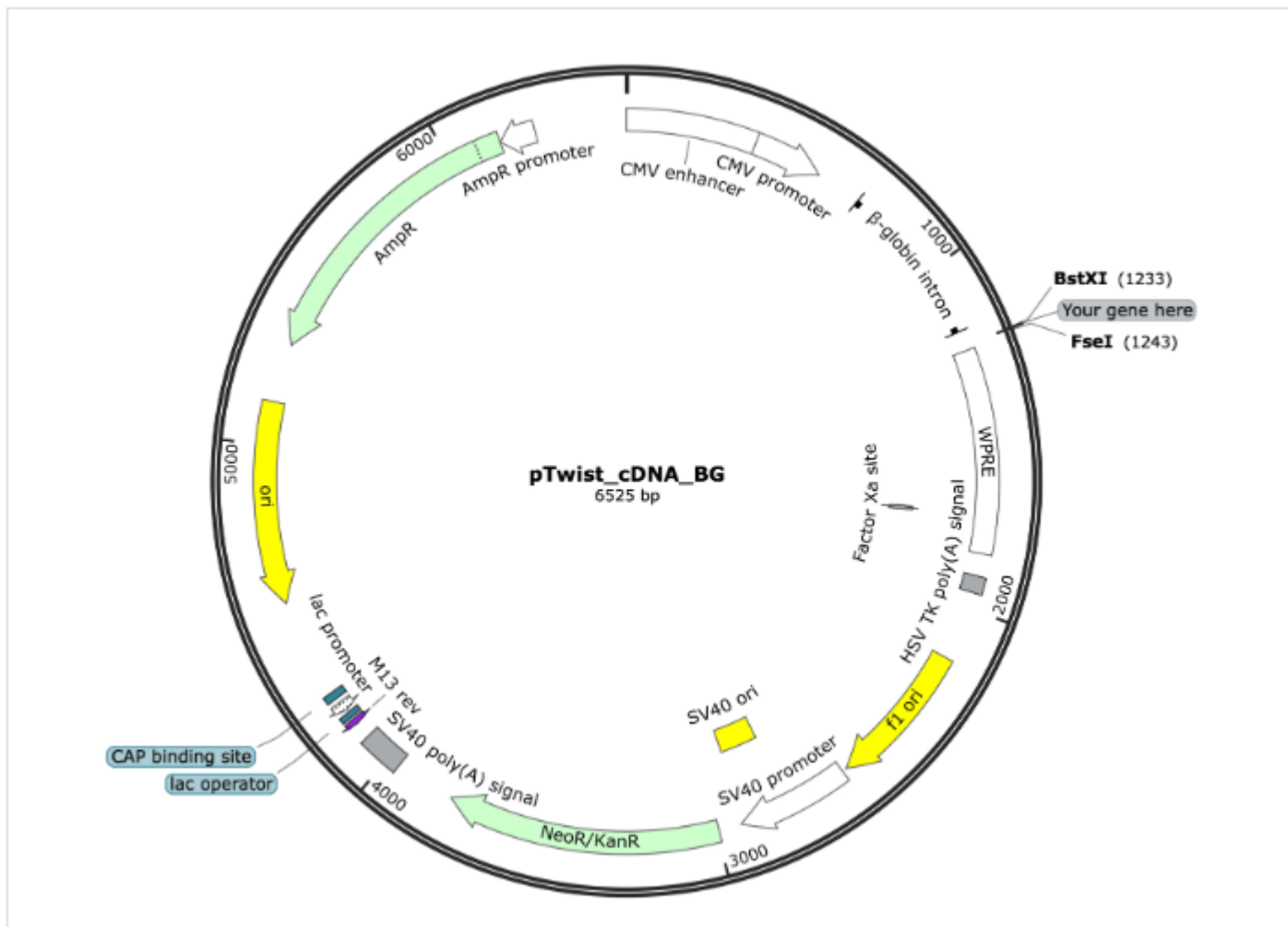
pTwist cDNA 3.1			
Size	Promoter	Copy Number	Insertion Points
5,392 bp	CMV	High	Default



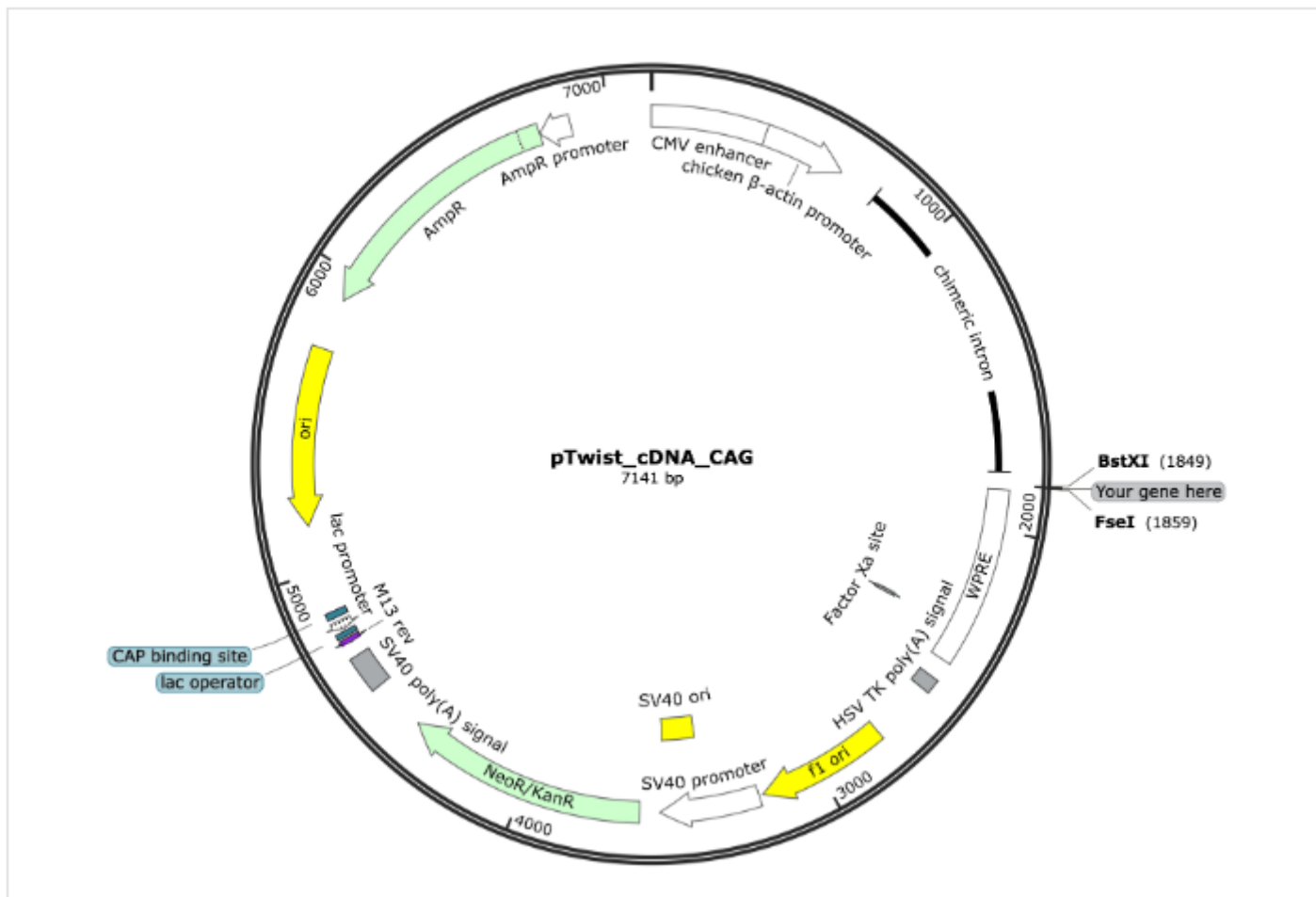
pTwist cDNA 3.4			
Size	Promoter	Copy Number	Insertion Points
5,901 bp	CMV	High	Default



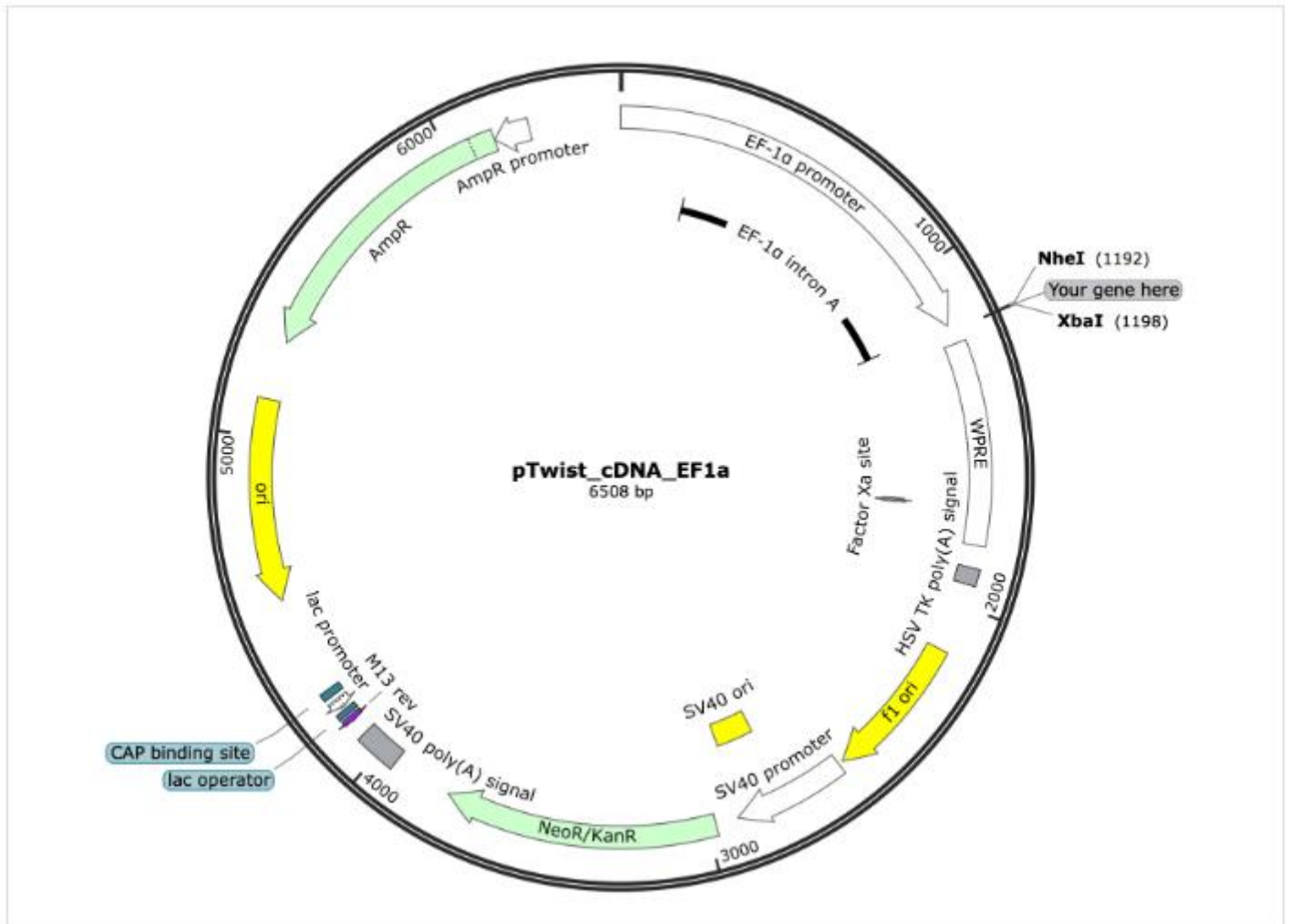
pTwist cDNA BG			
Size	Promoter	Copy Number	Insertion Points
6,525 bp	CMV	High	Default



pTwist cDNA CAG			
Size	Promoter	Copy Number	Insertion Points
7,141 bp	CMV	High	Default

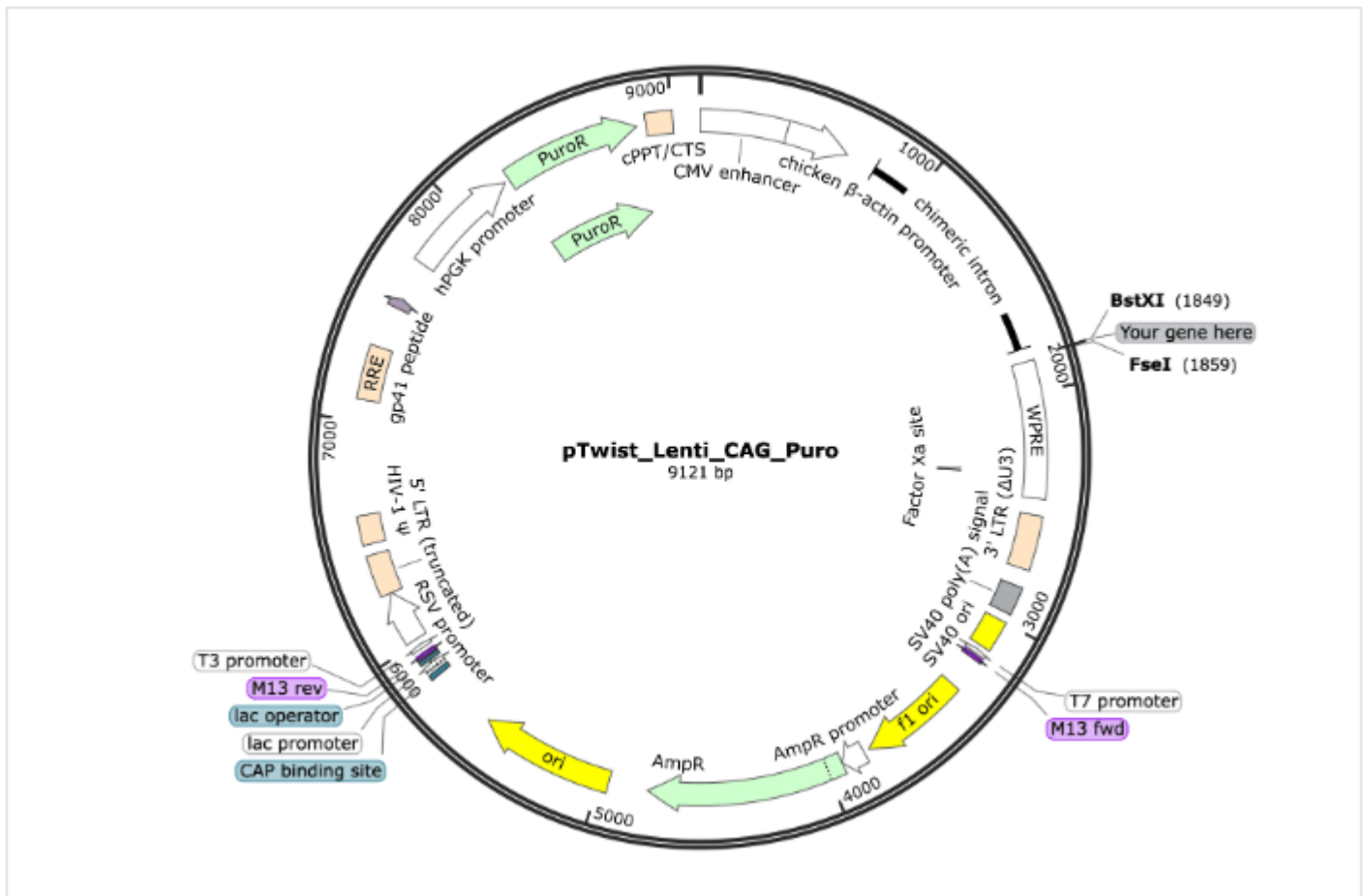


pTwist cDNA EF1a			
Size	Promoter	Copy Number	Insertion Points
6,508 bp	CMV	High	Default

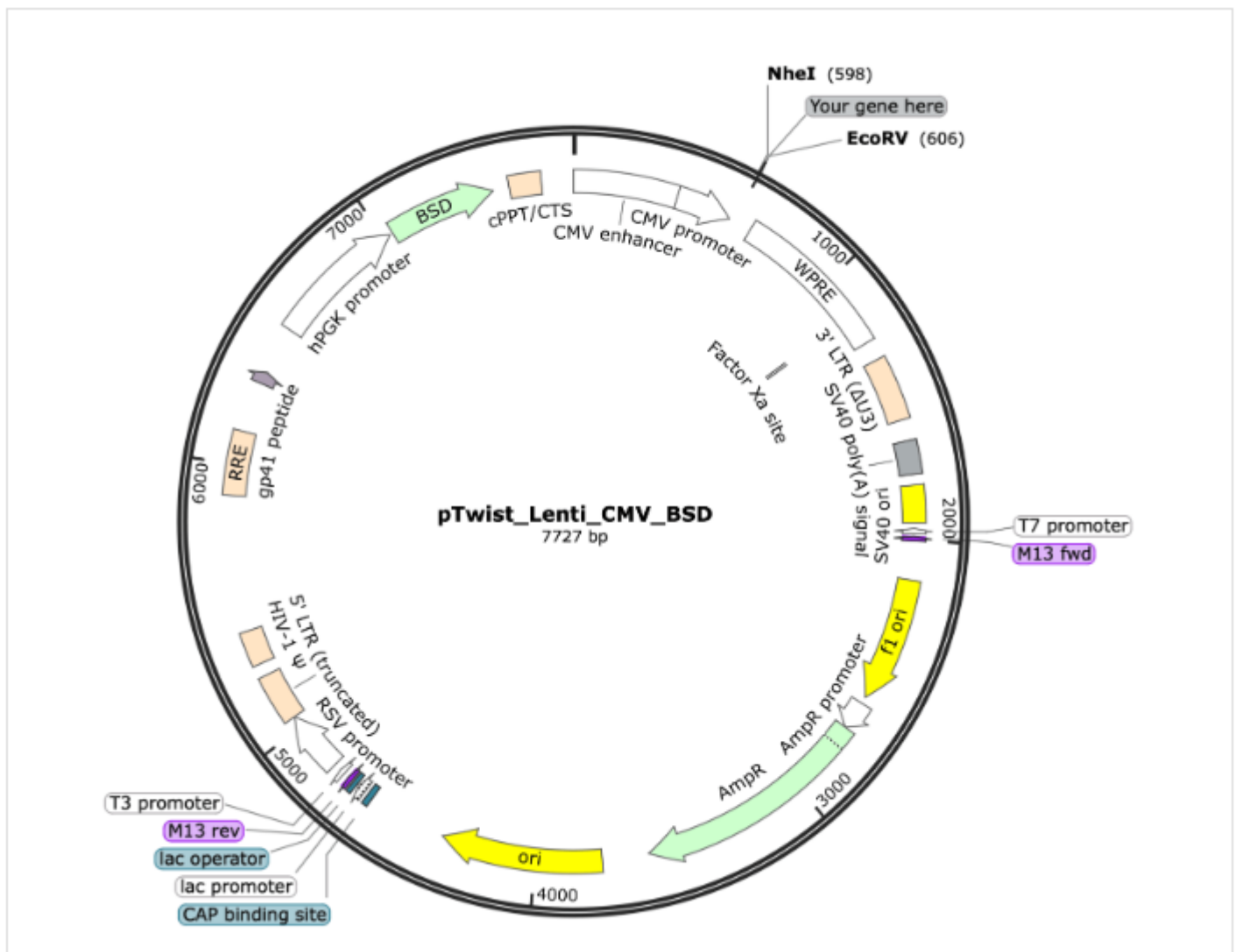


Expression Vector (Viral)

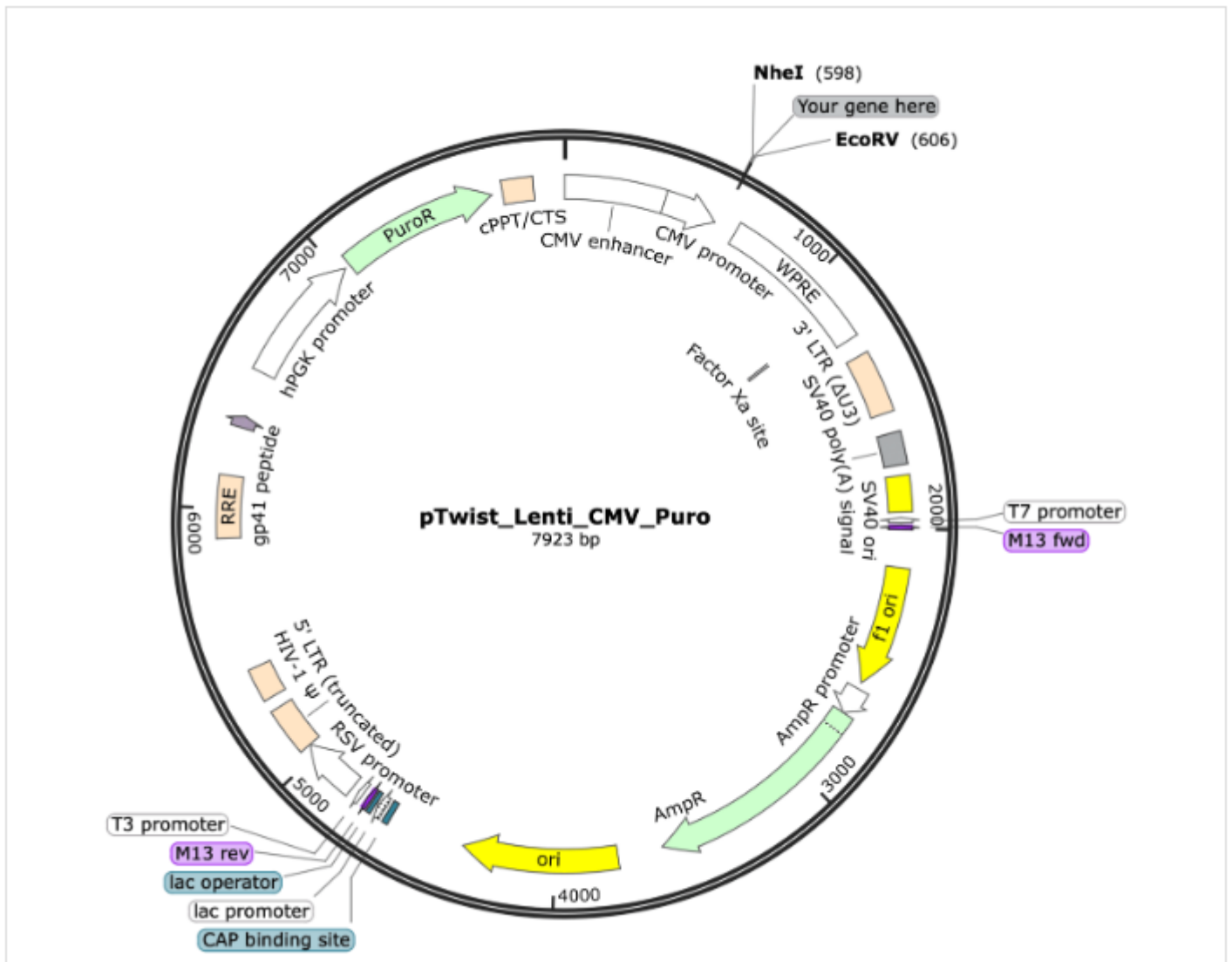
pTwist Lenti CAG Puro			
Size	Promoter	Copy Number	Insertion Points
9,121 bp	CAG	High	Default



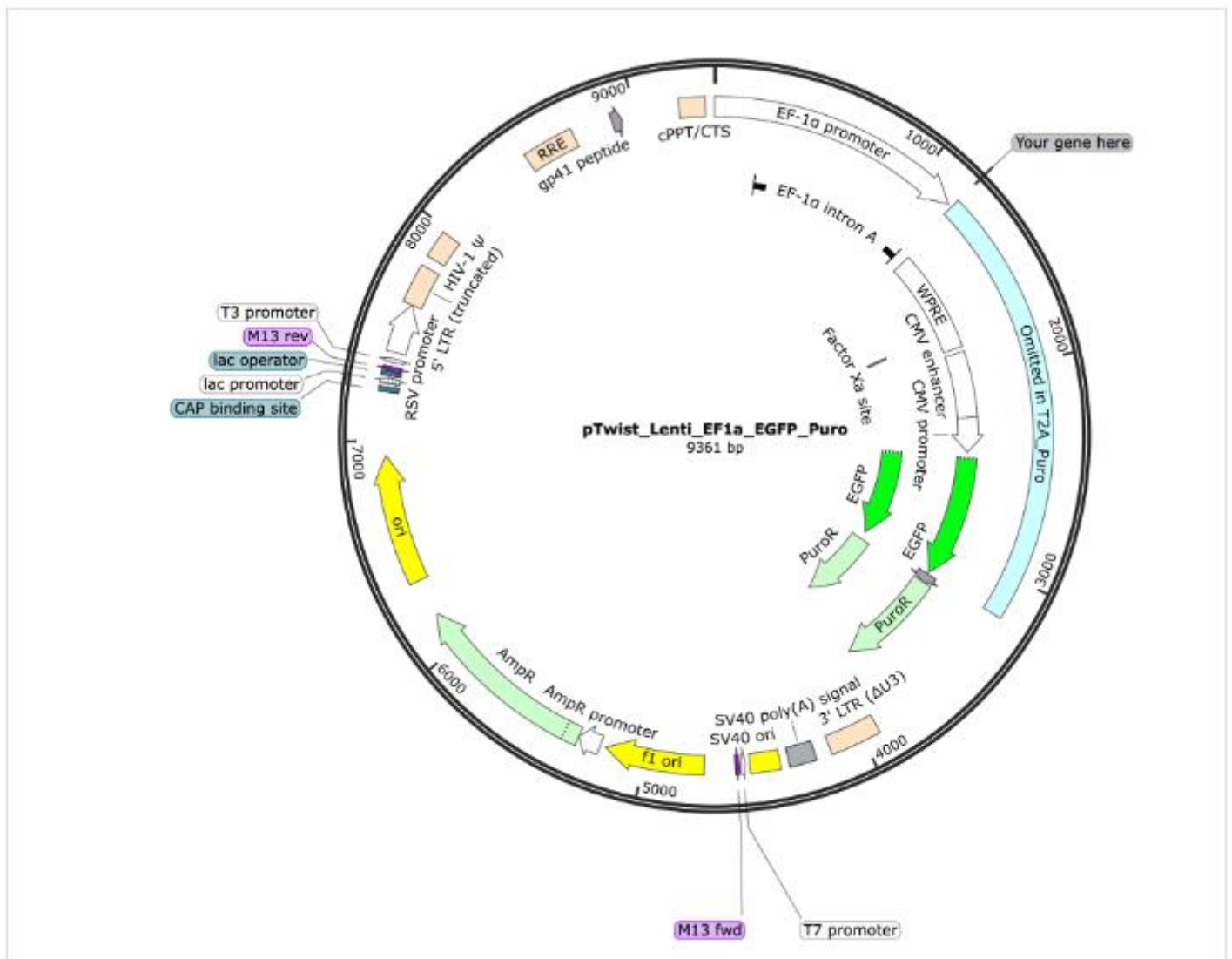
pTwist Lenti CMV BSD			
Size	Promoter	Copy Number	Insertion Points
7,727 bp	CMV	High	Default



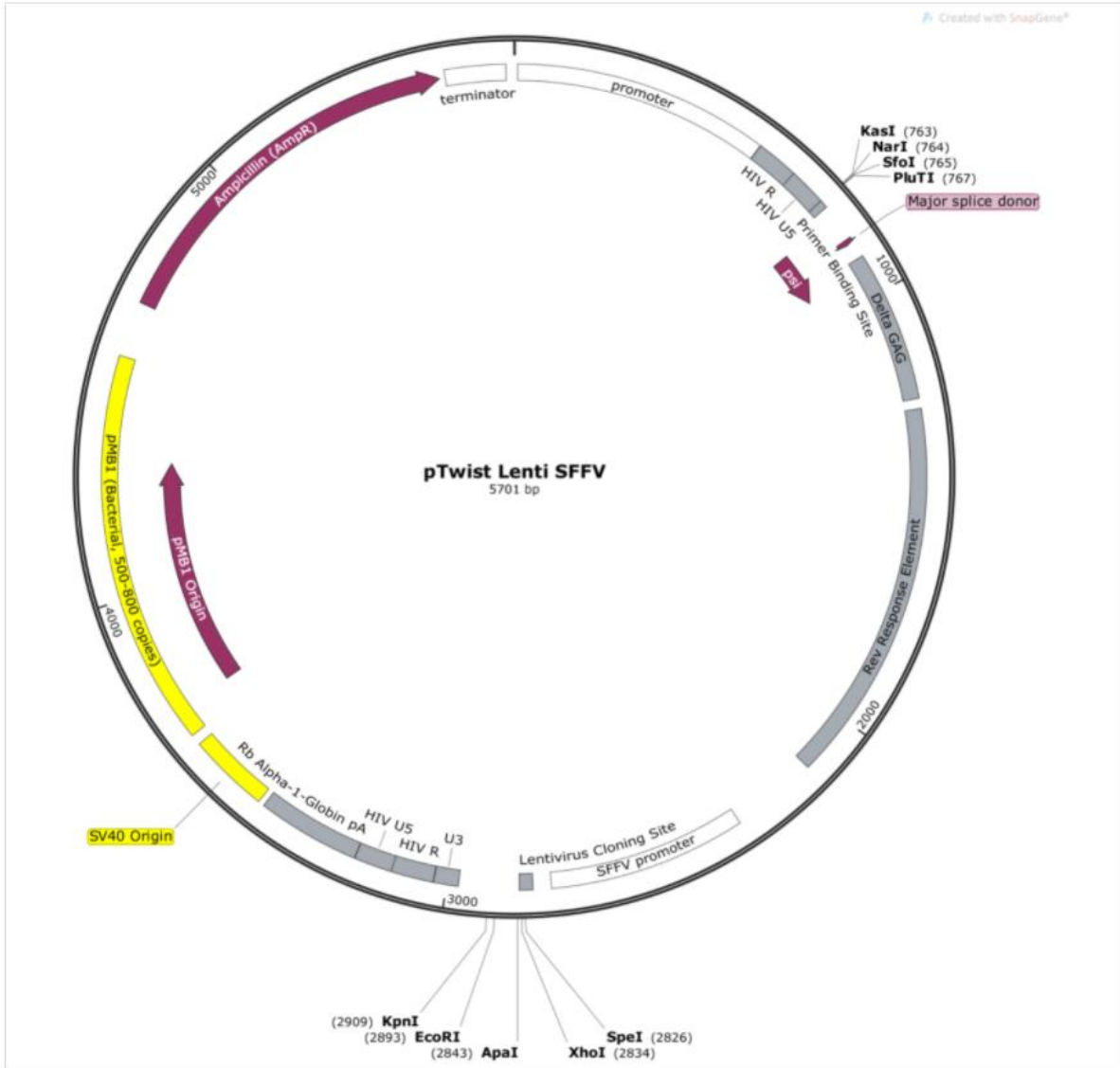
pTwist Lenti CMV Puro			
Size	Promoter	Copy Number	Insertion Points
7,923 bp	CMV	High	Default



pTwist Lenti EF1a EGFP Puro			
Size	Promoter	Copy Number	Insertion Points
9,361 bp	EF1 Alpha	High	T2A_Puro WPRE_EGFP_T2A_Puro



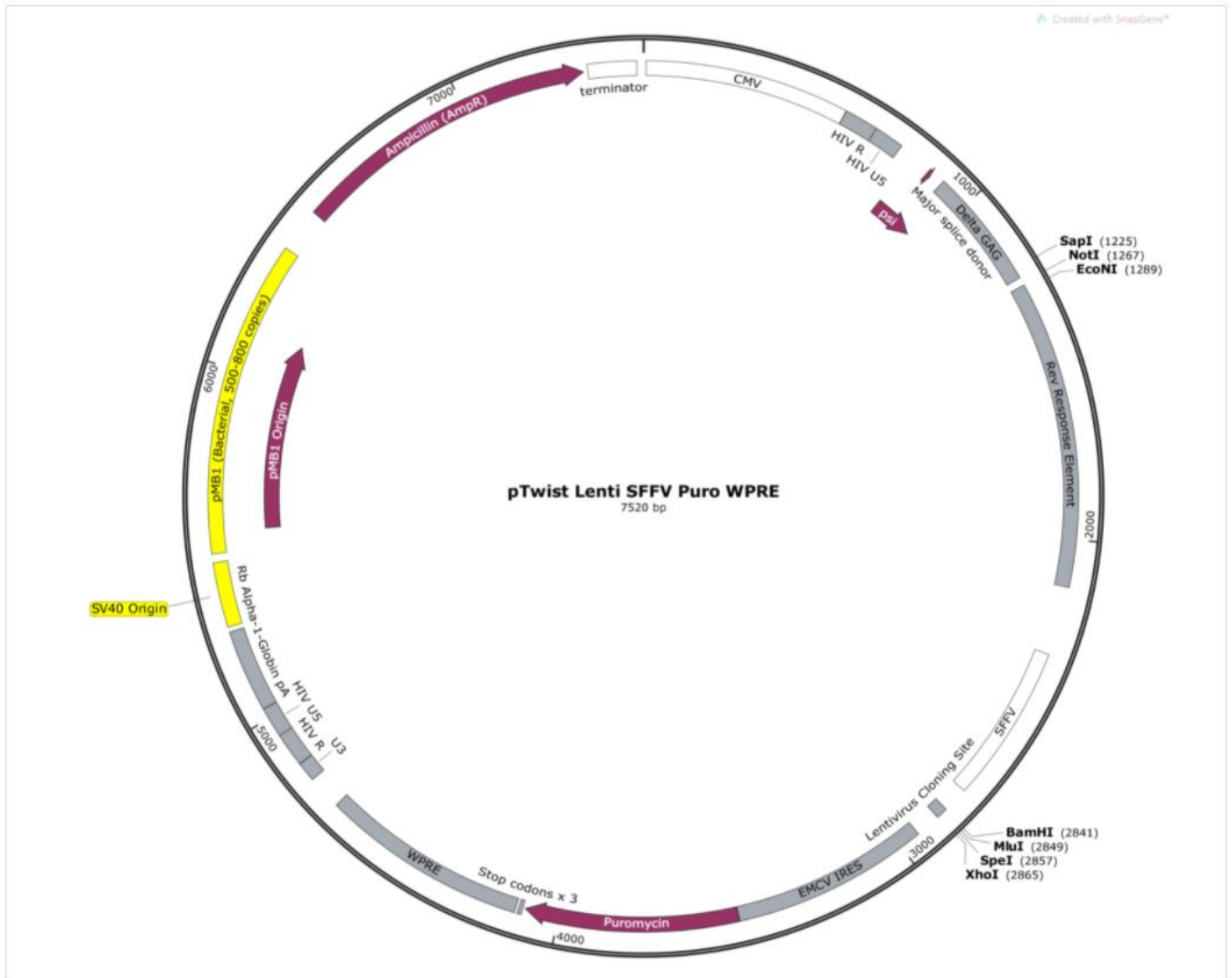
pTwist Lenti SFFV			
Size	Promoter	Copy Number	Insertion Points
5,701 bp	SFFV	High	MluI_SpeI BamHI_SpeI MluI_XhoI BamHI_MluI BamHI_XhoI SpeI_XhoI



pTwist Lenti SFFV Puro			
Size	Promoter	Copy Number	Insertion Points
7,718 bp	SFFV	High	Default



pTwist Lenti SFFV Puro WPRE			
Size	Promoter	Copy Number	Insertion Points
7,520 bp	SFFV	High	BamHI_MluI MluI_XhoI BamHI_XhoI BamHI_SpeI MluI_SpeI SpeI_XhoI



pTwist Lenti TRE Puro			
Size	Promoter	Copy Number	Insertion Points
7,673 bp	TRE	High	No_tag 6xHis_tag

