

pAcP(-)IE1-6 Transfer Plasmid



Promoter
Cloning options

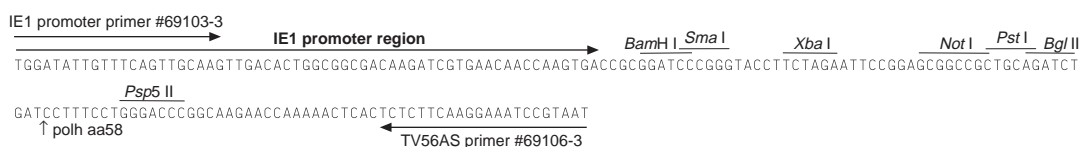
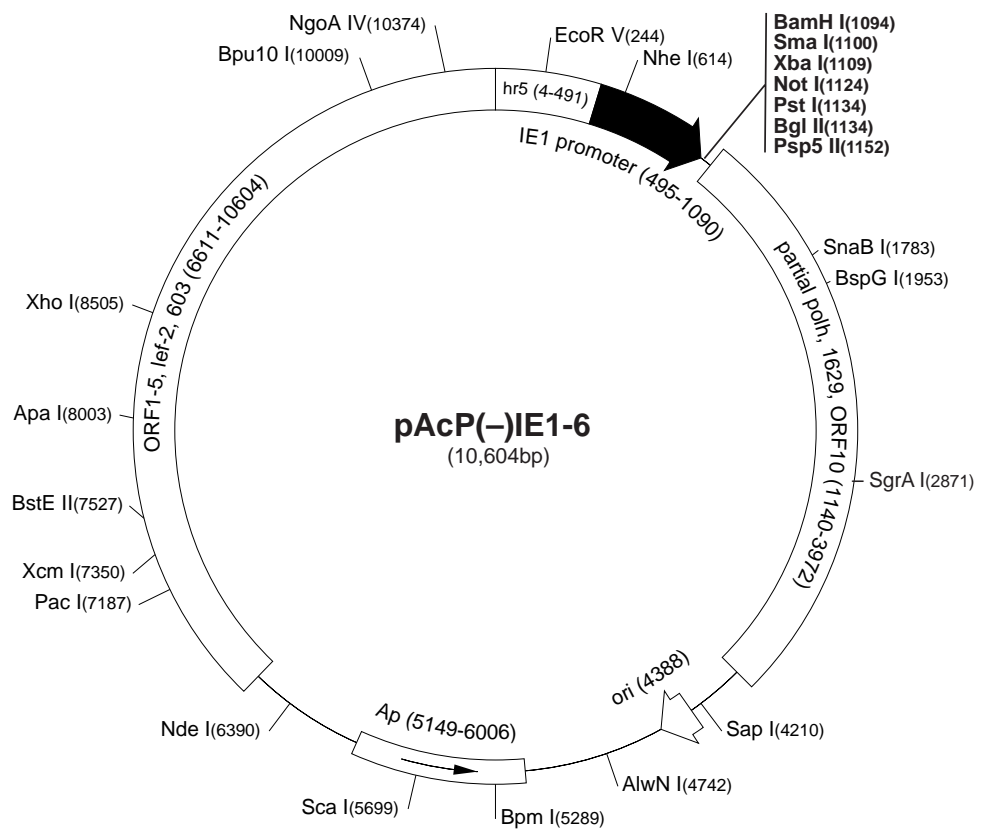
AcNPV IE1
polylinker

The pAcP(-)IE1-6 transfer plasmid (Cat. No. 69097-3) is designed for the production of recombinant baculoviruses containing foreign genes under the control of the baculovirus ie1 promoter (1). The P(-) designation indicates that this transfer plasmid will produce occlusion-negative recombinants. Inserts must carry their own ATG translation start codon. Inserts lacking stop codons and cloned in-frame with downstream polh sequences will produce proteins fused with the C-terminal 187aa of polyhedrin protein. The hr5 element, ie1 promoter, and mcs sequences are targeted for insertion into the polyhedrin locus of the viral genome. Unique restriction sites are indicated on the circle map. The cloning/expression region of the coding strand transcribed from the ie1 promoter is shown below.

1. Jarvis, D.L., Weinkauff, C. and Guarino, L.A. (1996) *Prot. Exp. Pur.* **8**, 191-203.

pAcP(-)IE1-5 sequence landmarks

hr5 enhancer	4-491
ie1 promoter + 5'UTR	495-1090
ie1 translation initiation	1092
Multiple cloning sites (<i>Bam</i> H I - <i>Psp</i> 5 II)	1094-1157



pAcP(-)IE1-6 cloning/expression region

pAcP(-)IE1-6 Restriction Sites

Enzyme	# Sites	Locations	Enzyme	# Sites	Locations	Enzyme	# Sites	Locations
AatII	3	2064 6141 8104	BssHII	2	510 771	NlaIII	38	
AccI	4	3141 8047 9552 9837	BstEII	1	7527	NlaIV	27	
AccIII	5	700 2449 4278 5518 6260	BstXI	3	7353 7512 9760	NotI	1	1124
Acil	106		BstYI	8	1094 1134 4967 4978 5064 5076 5844 5861	NsiI	2	9277 9777
AfIII	19		Cac8I	43		Nspl	13	
AgeI	2	2631 7055	CjeI	36		NspV	4	1540 3796 7125 8661
AluI	40		CjePI	20		Pacl	1	7187
AlwI	17		Clal	4	212 1552 2755 6855	Pfi1108I	2	3350 5237
Alw21I	11		CviJI	121		PleI	13	
Alw44I	7	3861 4640 5886 6383 7028 9058 9069	CviRI	58		PmlI	2	6672 8214
AlwNI	1	4742	Ddel	13		Psp5II	1	1152
ApaI	1	8003	DpnI	40		Psp1406I	5	5445 5818 7360 8725 8778
ApaBI	3	6392 6899 7947	DraI	12		PstI	1	1134
Apol	26		DrdI	4	4434 6303 7536 8127	PvuI	5	108 212 1556 5589 6485
AvaI	4	1098 6767 8505 8870	DrdII	2	1165 7255	PvuII	5	784 3719 4150 6514 7913
Avall	10	596 631 1152 1264 1692 5357 5579 6807 8120 9238	Dsal	2	1090 7472	RcaI	5	1415 5046 6054 6159 7613
BaeI	2	1598 8213	EaeI	11		RleAI	2	2854 9750
BamHI	1	1094	EagI	2	850 1124	RsaI	36	
BanI	11		Eam1105I	3	5219 9226 10092	SacII	2	1093 7475
BanII	2	169 8003	EarI	6	1185 1609 4210 6014 6502 9644	Sall	3	3140 9551 9836
BbsI	3	1285 2242 10091	Ecil	8	910 2510 2516 2522 4400 4546 5374 9456	SapI	1	4210
BbvI	30		Eco47III	3	1741 2924 3730	Sau96I	19	
BccI	19		Eco57I	3	1633 4874 5886	Sau3AI	40	
Bce83I	6	3051 4417 4715 4956 5824 7862	EcoQ109I	4	1152 6195 7999 8000	Scal	1	5699
BceII	14		EcoRI	6	86 190 297 373 480 1113	ScrFI	21	
Bcgl	10	2564 2598 5724 5758 6758 6792 7505 7539 8679 8713	EcoRII	12		SfaNI	17	
BclI	2	786 8836	EcoRV	1	244	SfiCI	6	1130 1250 3106 4591 4782 5460
Bfal	15		FauI	21		SgrAI	1	2871
BglI	3	1003 5339 6457	FokI	13		SmaI	1	1100
BglII	1	1134	FspI	6	662 3293 5441 6464 8689 10252	SnaBI	1	1783
BmgI	3	2369 2869 8001	GdIII	8	850 1124 4165 5607 6594 6715 7405 8536	SphI	2	622 8739
BpmI	1	5289	HaeI	7	3363 4341 4352 4804 6939 7642 8110	SspI	12	
Bpu10I	1	10009	HaeII	11		Styl	2	576 8105
BsaI	3	5280 8345 9878	HaeIII	27		SunI	3	792 6780 7394
BsaAI	10	198 381 792 1783 6672 6784 7394 8059 8144 8214 1428 3293 3343 6735 9017	HgiEII	2	4912 6392	Swal	2	1873 8177
BsaBI	5		Hhal	65		TaqI	37	
BsaHI	12		Hin4I	15		TaqII	8	1436 3586 4228 5567 5752 5905 5922 9752
BsaJI	13		HincII	10	1052 1298 1334 3142 3948 8492 8519 9447 9553 9838	TfiI	10	1746 3339 3352 4161 4301 6731 7122 7916 9232 10039
BsaWI	11		HindIII	4	1218 2146 3182 6605	Thal	52	
BsaXI	4	795 4184 9375 9748	Hinfl	23		Tsel	30	
Bsbl	11		HpaI	3	1298 3948 9447	Tsp45I	13	
BscGI	15		HphI	16		Tsp509I	84	
BseRI	5	789 1632 7782 7785 10125	KpnI	2	1106 1603	Tth1111I	15	
BsgI	7	2428 2722 2876 7018 7090 7852 8484	MaeII	48		UbaJI	32	
Bsil	5	801 4499 5883 6190 9084	MaeIII	29		VspI	10	839 2268 4097 4156 5391 7047 7178 7187 9465 9573
BsiEI	11		MbolI	22		XbaI	1	1109
BsII	19		MluI	3	880 9073 9992	XcmI	1	7350
BsmI	4	783 7199 9277 9530	MmeI	7	1008 1208 2698 3856 4541 4725 7520	XhoI	1	8505
BsmAI	11		MnlI	46		XmnI	4	2324 3898 5818 7851
BsmBI	4	2633 6209 6251 10542	MscI	3	3363 6939 8110			
BsmFI	5	1165 1327 2189 3631 6993	MseI	81				
BsoFI	62		MslI	12				
Bsp24I	8	2199 2231 4819 4851 4997 5029 6123 6155	MspI	35				
Bsp1286I	15		MspAII	18				
BspEI	3	1117 3890 9422	MunI	4	1772 2117 2678 3043			
BspGI	1	1953	MwoI	48				
BspLU11I	2	3148 4326	NarI	4	2614 2881 6442 8334			
BspMI	3	7540 7636 8141	NciI	9	1099 1100 1156 4706 5402 5753 6254 6289 7011			
BsrI	18		NdeI	1	6390			
BsrBI	9	871 1123 2736 3031 4018 4259 6060 8552 9298	NgoAIV	1	10374			
BsrDI	4	5280 5454 8755 9672	NheI	1	614			
BsrFI	11							
BsrGI	8	2113 3333 7592 8600 8782 9435 9642 10361						

Enzymes that do not cut pAcP(-)IE1-6:

AfIII	AscI	AvrII	Bpu1102I	Bst1107I
Bsu36I	DraIII	EcoNI	FseI	NcoI
NruI	PfiI	PmeI	PshAI	RsrII
SacI	SexAI	SfiI	Sgfi	SpeI
SrfI	Sse8387I	StuI	Tth1111I	