

pAcP(-)IE1-5 Transfer Plasmid

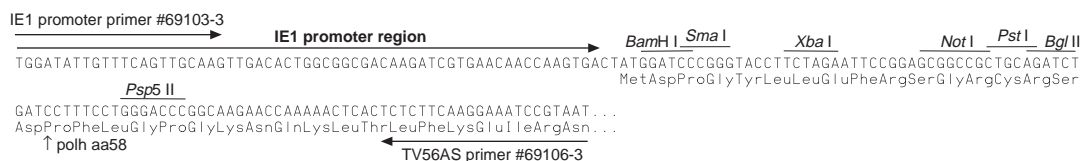
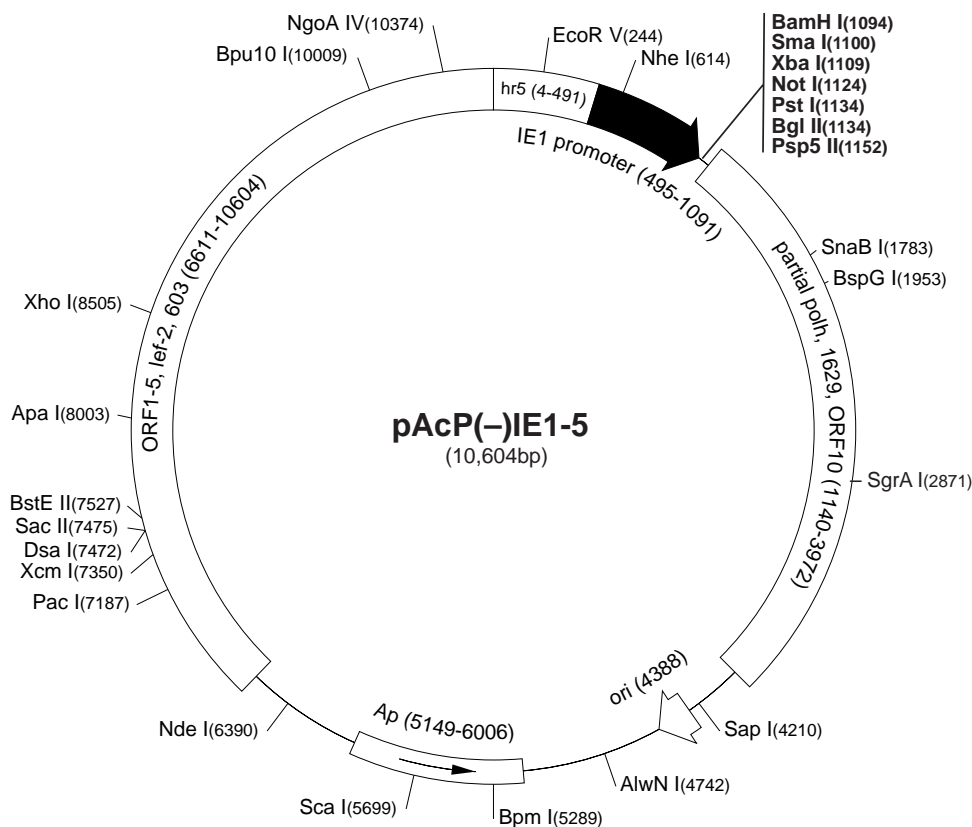
	Promoter	AcNPV IE1
	N-terminal fusion	IE1 ATG
	Cloning options	polylinker

The pAcP(-)IE1-5 transfer plasmid (Cat. No. 70170-3) 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. pAcP(-)IE1-5 carries the natural ie1 translation initiation site, which can be used to express N-terminal fusion proteins. 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	495-1091
ie1 translation initiation	1092
Multiple cloning sites (<i>Bam</i> H I - <i>Psp</i> 5 II)	1094-1157



pAcP(-)IE1-5 cloning/expression region

pAcP(-)IE1-5 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	104		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	1	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	1	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	HgiEII	2	4912 6392	Swal	2	1873 8177		
BsaBI	5	1428 3293 3343 6735 9017	Hhal	65		TaqI	37			
BsaHI	12		Hin4I	15		TaqII	8	1436 3586 4228 5567 5752 5905 5922 9752		
BsaJI	12		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	51			
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		MnII	46		Xmnl	4	2324 3898 5818 7851		
BsmBI	4	2633 6209 6251 10542	MscI	3	3363 6939 8110	Enzymes that do not cut pAcP(-)IE1-5:				
BsmFI	5	1165 1327 2189 3631 6993	MseI	81		AfIII	AscI	AvrII	Bpu1102I	Bst1107I
BsoFI	62		MslI	12		Bsu36I	DrallI	EcoNI	FseI	NcoI
Bsp24I	8	2199 2231 4819 4851 4997 5029 6123 6155	MspI	35		NruI	PfiMI	PmeI	PshAI	RsrII
Bsp1286I	15		MspAII	17		SacI	SexAI	SfiI	Sgfi	SpeI
BspEI	3	1117 3890 9422	MunI	4	1772 2117 2678 3043	SrfI	Sse8387I	StuI	Tth1111I	
BspGI	1	1953	MwI	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								