

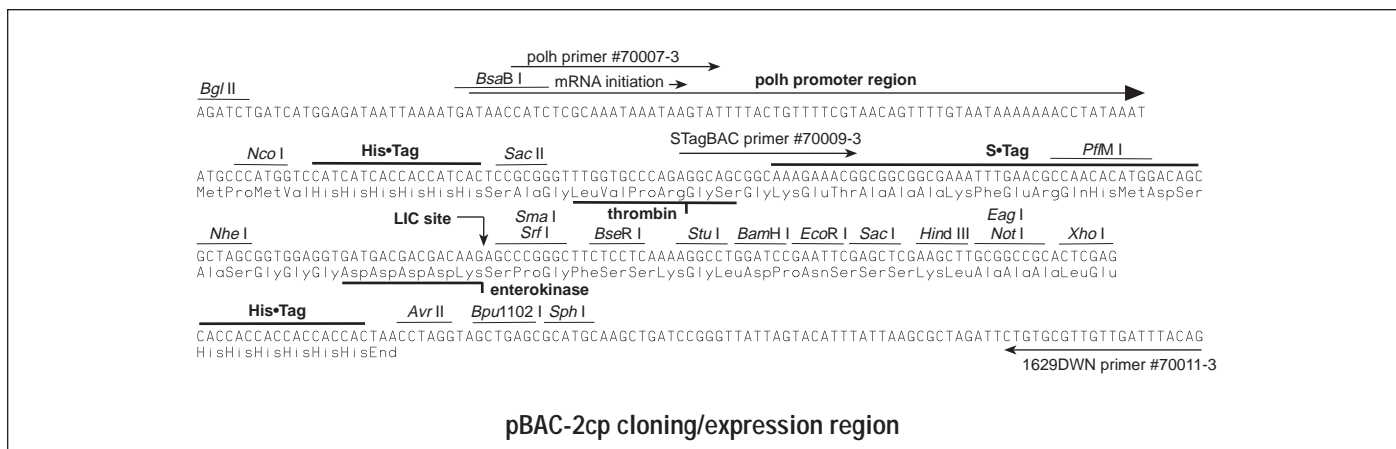
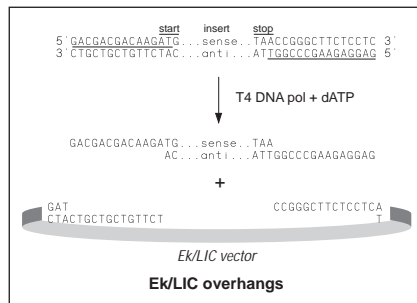
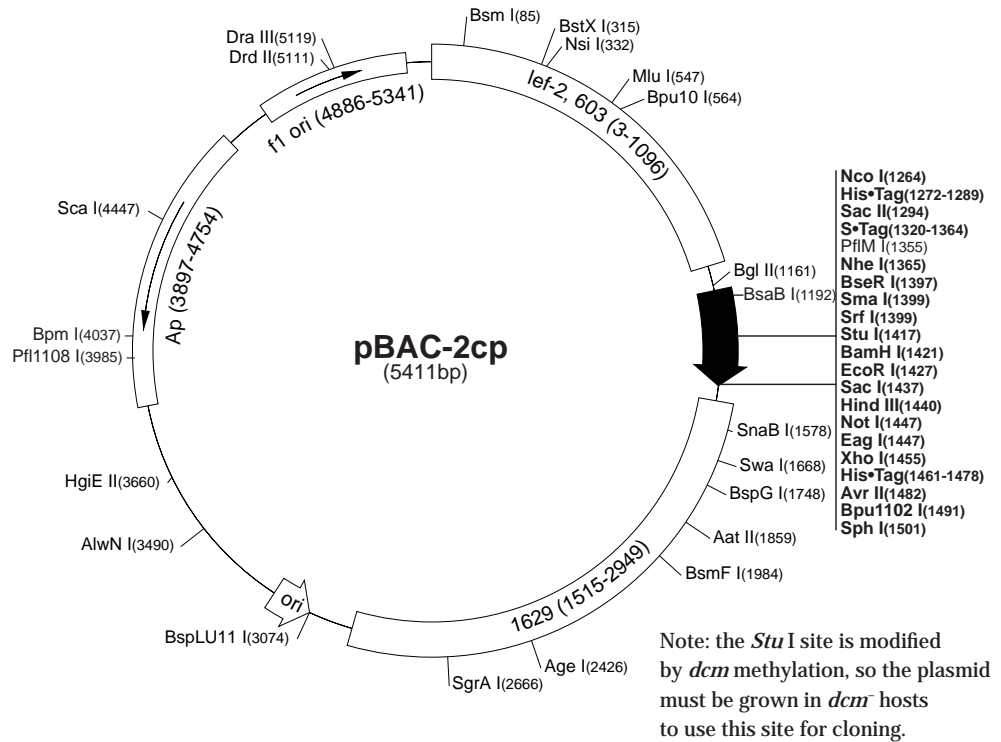
pBAC-2cp Transfer Plasmid

	Locus	polh
	Promoter	polh
	N-terminal fusion	His•Tag, S•Tag
	C-terminal fusion option	His•Tag
	Cloning options	LIC, polylinker

pBAC-2cp sequence landmarks

polh promoter region	1177-1259
polh transcription start	1210-1211
wt polh 5'UTR -1 position	1259
His•Tag coding sequence	1272-1289
S•Tag coding sequence	1320-1364
Multiple cloning sites (<i>Sma</i> I - <i>Xho</i> I)	1397-1460
His•Tag coding sequence	1461-1478

pBAC™-2cp is a baculovirus transfer plasmid (Cat. No. 70004-3) designed for simplified cloning and expression of target genes in insect cells. The plasmid is compatible with BacVector™-1000, -2000 or -3000 Triple Cut Virus DNA for low background transfection and efficient utilization of the polh promoter. pBAC-2cp provides an ATG start codon at the optimal position relative to native polyhedrin translation signals. Cloning sites are provided for the creation of N-terminal fusions of an insert with His•Tag® and/or S•Tag™ sequences. A Ligation-Independent Cloning (LIC) version of the vector is available (Cat. No. 70021-3) for rapid, directional cloning of PCR products adjacent to the enterokinase cleavage site. The vector provides optional expression of a C-terminal His•Tag fusion sequence by allowing read-through of inserts in the proper reading frame. Unique restriction sites are indicated on the circle map. The cloning/expression region of the coding strand transcribed from the polh promoter is shown below. The f1 origin is oriented so that infection with helper phage will produce virions containing single stranded DNA that corresponds to the coding strand. Single stranded sequencing of phage-derived DNA can be performed using the 1629DWN primer (Cat. No. 70011-3).



pBAC-2cp Restriction Sites

Enzyme	# Sites	Locations	Enzyme	# Sites	Locations	Enzyme	# Sites	Locations		
AatII	1	1859	BstYI	8	1161 1421 3715 3726 3812 3824 4592 4609	Pfi1108I	1	3985		
AccI	2	107 392	Cac8I	24		PfiMI	1	1355		
AceIII	4	2244 3026 4266 5272	CjeI	20		PleI	7	298 1911 2968 3453 3956 5172 5180		
Acil	62		CjePI	26		PmeI	1	2954		
AfIII	5	547 1929 2079 2184 3074	Clal	2	2550 2873	Psp1406I	3	4193 4566 5329		
AgeI	1	2426	CviJI	63		PvuI	2	4337 5383		
AluI	23		CviRI	15		RcaI	2	3794 4802		
AlwI	14		DdeI	7	564 1491 2432 3349 3758 3924 4464	RleAI	2	305 2649		
Alw21I	5	1437 1462 3392 4553 4638	DpnI	23		RsaI	11			
Alw44I	2	3388 4634	DraI	7	45 577 1668 2954 3833 3852 4544	SacI	1	1437		
AlwNI	1	3490	DrallI	1	5119	SacII	1	1294		
ApoI	12		DrdI	2	3182 5163	Sall	2	106 391		
AvaI	2	1397 1455	DrdII	1	5111	Sau96I	7	1268 4009 4088 4105 4327 5122 5390		
Avall	3	1268 4105 4327	Dsal	2	1264 1291	Sau3AI	23			
AvrII	1	1482	EaeI	2	1447 4355	Scal	1	4447		
BamHI	1	1421	EagI	1	1447	ScrFI	11			
BanI	8	1301 2381 2408 2612 2663 2675 3915 5075	Eam1105I	2	647 3967	SfaNI	6	339 2323 3171 4223 4414 4663		
BanII	3	1398 1437 5045	EarI	4	199 695 4762 5400	SfiI	5	2911 3339 3530 4208 4893		
BbsI	2	646 2037	Ecil	7	11 2305 2311 2317 3148 3294 4122	SgrAI	1	2666		
BbvI	19		Eco47III	3	1364 1536 2719	SmaI	1	1399		
BccI	12		Eco57I	2	3622 4634	SnaBI	1	1578		
Bce83I	5	2846 3165 3463 3704 4572	EcoRI	1	1427	SphI	1	1501		
Bcefl	7	20 1342 2242 2356 2397 3576 5089	EcoRII	5	1417 3100 3221 3234 5408	SrfI	1	1399		
BcgI	4	2359 2393 4472 4506	FauI	10	1286 2123 2137 2285 2494 2524 2886 4908 4977 5381	Sspl	7	155 573 1672 1869 2742 4771 5324		
BclI	2	1156 1166	FokI	3	3933 4114 4401	StuI	1	1417		
Bfal	10	639 952 1366 1483 1538 1808 3569 3822 4157 4963	FspI	3	807 4189 5362	StyI	2	1264 1482		
BglI	2	4087 5355	GdiII	2	1447 4355	Swal	1	1668		
BglII	1	1161	HaeI	4	1417 3089 3100 3552	TaqI	16			
Bmgl	3	1304 2164 2664	HaeII	9	1366 1538 2412 2577 2679 2721 3322 4961 4969	TaqII	7	307 2976 4315 4500 4653 4670 5214		
Bpml	1	4037	HaeIII	13		TfiI	3	594 1541 3049		
Bpu10I	1	564	Hgal	9	294 651 1114 1638 2064 3185 3763 4493 4894	Thal	15			
Bpu1102I	1	1491	HgiEI	1	3660	Tsel	19			
Bsal	2	433 4028	Hhal	30		Tsp45I	3	4223 4434 4938		
BsaAI	2	1578 5116	Hin4I	10	270 646 1630 1765 2229 2265 2512 2857 3966 4040	Tsp509I	41			
BsaBI	1	1192	HincII	2	108 393	Tth1111I	5	1061 1732 3664 3671 3703		
BsaHI	6	643 1856 2056 2409 2676 4504	HindIII	1	1440	UbaII	20			
BsaJI	5	1264 1291 1397 1482 3234	Hinfl	10	304 594 1541 1917 2974 3049 3445 3962 5164 5186	VspI	4	20 128 2063 4139		
BsaWI	5	981 2426 3280 3427 4258	HphI	11		XhoI	1	1455		
BsaXI	3	303 1286 5168	Maell	15		XmnI	2	2119 4566		
Bsbl	5	864 1352 2184 2373 5209	MaellI	13		Enzymes that do not cut pBAC-2cp:				
BscGI	7	2593 3401 3747 3968 3992 4514 5022	Mboll	15		AflII	Apal	ApaBI	AscI	BaeI
BseRI	1	1397	Mlul	1	547	BspEI	BspMI	BssHII	Bst1107I	BstEII
BsgI	3	2223 2517 2671	Mmel	4	2493 3289 3473 5141	Bsu36I	EcoNI	EcoO109I	EcoRV	FseI
Bsil	2	3247 4631	MnlI	28		HpaI	KpnI	MscI	NdeI	NruI
BsiEI	6	1450 2990 3414 4337 4486 5383	Msel	43		NspV	Pacl	PmlI	PshAI	Psp5II
BsII	10	190 412 1355 1745 3096 3114 3280 3559 4897 5223	Msil	7	70 1098 2657 2921 4219 4378 4737	PstI	PvuII	RsrII	SapI	SexAI
BsmI	1	85	MspI	17		SfiI	Sgfl	SpeI	Sse8387I	SunI
BsmAI	8	433 1097 2365 2428 2864 2923 4028 4804	MspAII	8	803 1293 1315 2501 2681 3416 3661 4602	Tth111I	XbaI	XcmI		
BsmBI	2	1097 2428	MunI	4	1567 1912 2473 2838					
BsmFI	1	1984	Mwol	18						
BsoFI	39		NarI	2	2409 2676					
Bsp24I	6	1994 2026 3567 3599 3745 3777	NciI	6	1398 1399 1512 3454 4150 4501					
Bsp1286I	10	1306 1398 1437 1462 2166 2666 3392 4553 4638 5045	NcoI	1	1264					
BspGI	1	1748	NgoAIV	2	929 5011					
BspLU11I	1	3074	NheI	1	1365					
BsrI	11		NlaIII	13						
BsrBI	5	2531 2826 3007 4808 4972	NlaIV	19						
BsrDI	3	227 4028 4202	NotI	1	1447					
BsrFI	6	929 2426 2618 2666 4047 5011	Nsil	1	332					
BsrGI	3	197 916 1908	Nspl	3	114 1501 3078					
BstXI	1	315								