

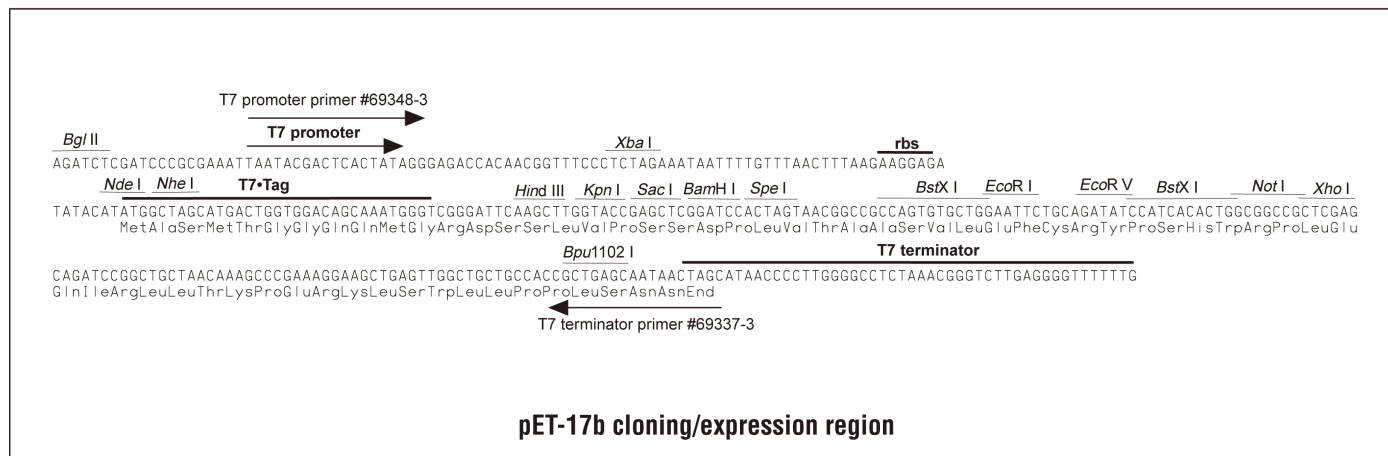
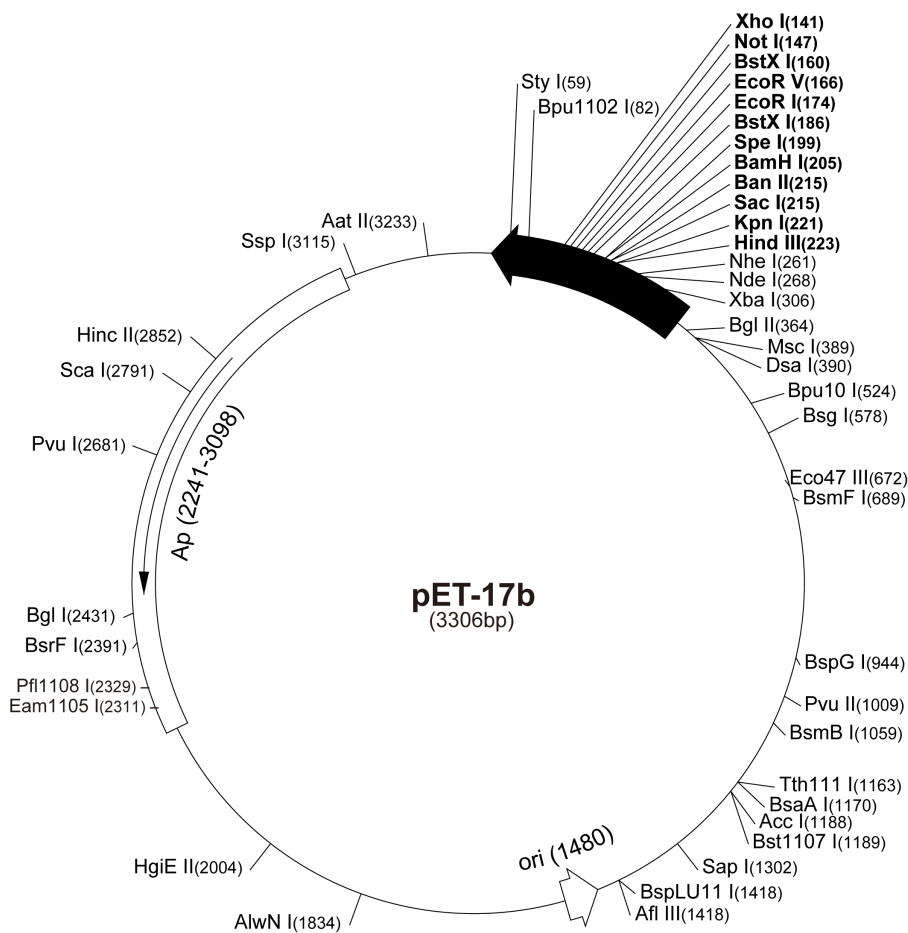
pET-17b Vector

The pET-17b vector (Cat. No. 69663-3) carries an N-terminal 11aa T7•Tag® sequence followed by a region of useful cloning sites. Included in the multiple cloning region are dual *Bst*X I sites, which allow efficient cloning using an asymmetric linker (1). Unique sites (except for the two *Bst*X I sites) are shown on the circle map. Note that the sequence is numbered by the pBR322 convention, so the T7 expression region is reversed on the circular map. The cloning/expression region of the coding strand transcribed by T7 RNA polymerase is shown below.

1. Seed, B. (1987) *Nature* 329, 840.

pET-17b sequence landmarks

T7 promoter	333-349
T7 transcription start	332
T7•Tag coding sequence	237-269
Multiple cloning sites (<i>Hind</i> III - <i>Xho</i> I)	141-228
T7 terminator	28-74
pBR322 origin	1480
<i>bla</i> coding sequence	2241-3098



pET-17b Restriction Sites

Enzyme	# Sites	Locations	Enzyme	# Sites	Locations	Enzyme	# Sites	Locations
AatII	1	3233	DpnI	19		Scal	1	2791
AccI	1	1188	DraI	3	2177 2196 2888	ScrFI	11	
AccIII	4	927 1068 1370 2610	DrdI	2	1111 1526	SfaNI	13	
AcII	44		Dsal	1	390	Sfcl	5	169 332 1683 1874 2552
AflIII	1	1418	EaeI	4	147 191 387 2699	SpeI	1	199
AluI	16		EagI	2	147 191	SspI	1	3115
AlwI	13		Eam1105I	1	2311	StyI	1	59
Alw21I	6	215 412 1236 1736 2897	EarI	2	1302 3106	TaqI	4	142 361 1518 2962
		2982	Ecil	3	1492 1638 2466	TaqII	5	1320 2659 2844 2997 3014
Alw44I	3	1232 1732 2978	Eco47III	1	672	TfiI	4	229 468 972 1393
AlwNI	1	1834	Eco57I	2	1966 2978	ThaI	12	
ApoI	1	174	EcoO109I	4	55 382 424 3287	TseI	20	
AvaI	2	141 368	EcoRI	1	174	Tsp45I	5	857 1070 1165 2567 2778
Avall	5	382 424 703 2449 2671	EcoRII	4	384 1444 1565 1578	Tsp509I	7	174 298 348 2178 2484
BamHI	1	205	EcoRV	1	166			2739 3304
BanI	2	217 2259	FauI	6	348 433 714 900 1121	Tth111I	1	1163
BanII	1	215			1131	Tth111III	4	879 2008 2015 2047
BbsI	2	536 3289	FokI	8	637 699 777 963 1104	UbaII	11	
BbvI	20				2277 2458 2745	VspI	2	347 2483
BccI	4	162 2348 2472 2759	FspI	2	399 2533	XbaI	1	306
Bce83I	5	23 1509 1807 2048 2916	GdiII	3	147 191 2699	XhoI	1	141
BceII	2	179 1920	HaeI	4	389 1433 1444 1896	XmnI	2	976 2910
BcgI	6	224 258 995 1029 2816	Haell	4	591 674 1296 1666			
		2850	HaellI	13				
Bfal	8	72 200 262 307 432	Hgal	5	954 1111 1529 2107 2837			
		1913 2166 2501	HgiEI	1	2004			
BglI	1	2431	Hhal	17				
BglII	1	364	Hin4I	3	210 2310 2384			
BpmI	2	945 2381	HincII	1	2852			
Bpu10I	1	524	HindIII	1	223			
Bpu1102I	1	82	Hinfl	8	229 339 468 972 1318			
Bsal	2	331 2372			1393 1789 2306			
BsaAI	1	1170	HphI	8	463 1038 1047 2154 2381			
BsaBI	3	164 363 615			2797 3003 3038			
BsaHI	2	2848 3230	KpnI	1	221			
BsaJI	3	59 390 1578	Maell	8	489 513 743 1169 2121			
BsaWI	5	4 607 1624 1771 2602			2537 2910 3230			
Bsbl	2	1134 2854	MaellI	14				
BscGI	9	46 394 779 1112 1745	MbolI	8	536 1289 2080 2151 2906			
		2091 2312 2336 2858			2984 3093 3289			
BsgI	1	578	Mmel	2	1633 1817			
Bsil	3	1591 2975 3282	MnlI	19				
BsiEI	6	150 194 1334 1758 2681	MscI	1	389			
		2830	MseI	16				
BsII	10	52 391 754 845 887	MslI	6	405 600 991 2563 2722			
		1067 1440 1458 1624 1903			3081			
BsmAI	4	331 1059 2372 3148	MspI	16				
BsmBI	1	1059	MspA1I	6	86 1009 1128 1760 2005			
BsmFI	1	689			2946			
BsoFI	31		MwoI	15				
Bsp24I	8	231 263 1911 1943 2089	NciI	7	428 756 1062 1097 1798			
		2121 3215 3247			2494 2845			
Bsp1286I	6	215 412 1236 1736 2897	NdeI	1	268			
		2982	NheI	1	261			
BspEI	2	4 607	NlaIII	16				
BspGI	1	944	NlaIV	13				
BspLU11I	1	1418	NotI	1	147			
BsrI	16		NspI	3	763 1055 1422			
BsrBI	3	146 1351 3152	Pfl1108I	1	2329			
BsrDI	2	2372 2546	PleI	4	347 1312 1797 2300			
BsrFI	1	2391	Psp5II	2	382 424			
Bst1107I	1	1189	Psp1406I	3	743 2537 2910			
BstXI	2	160 186	PstI	2	173 2556			
BstYI	10	134 205 364 610 2059	PvuI	1	2681			
		2070 2156 2168 2936 2953	PvuII	1	1009			
Cac8I	12		RcaI	3	2138 3146 3251			
CjeI	14		RsaI	3	219 1224 2791			
CjePI	14		SacI	1	215			
CviJI	52		SapI	1	1302			
CviRI	14		Sau96I	10	55 382 424 703 890			
DdeI	10	82 103 524 686 1226			2353 2432 2449 2671 3287			
		1693 2102 2268 2808 3234	Sau3AI	19				

Enzymes that do not cut pET-17b:

AflIII	AgeI	Apal	ApaBI	AscI
AvrII	BaeI	BclI	BmgI	BsaXI
BseRI	BsmI	BspMI	BsrGI	BssHII
BstEII	Bsu36I	ClaI	DrallI	DrdII
EcoNI	FseI	HpaI	MLuI	MunI
NarI	NcoI	NgoAIV	NruI	NsiI
NspV	Pacl	PfiMI	PmeI	PmlI
PshAI	RleAI	RsrII	SacII	Sall
SexAI	SfiI	SgfI	SgrAI	SmaI
SnaBI	SphI	SrfI	Sse8387I	StuI
SunI	Swal	XcmI		