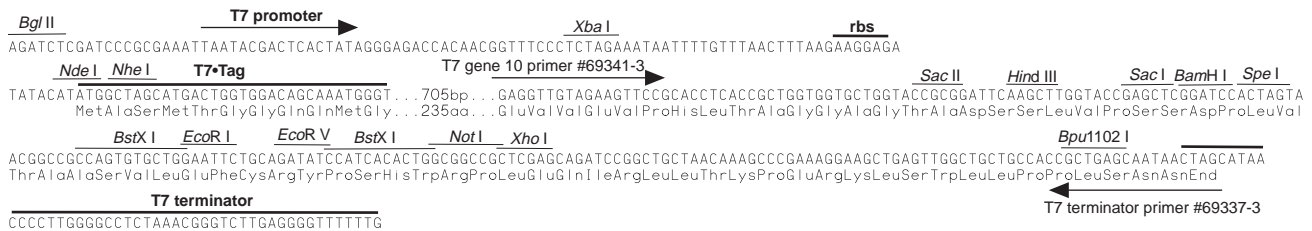
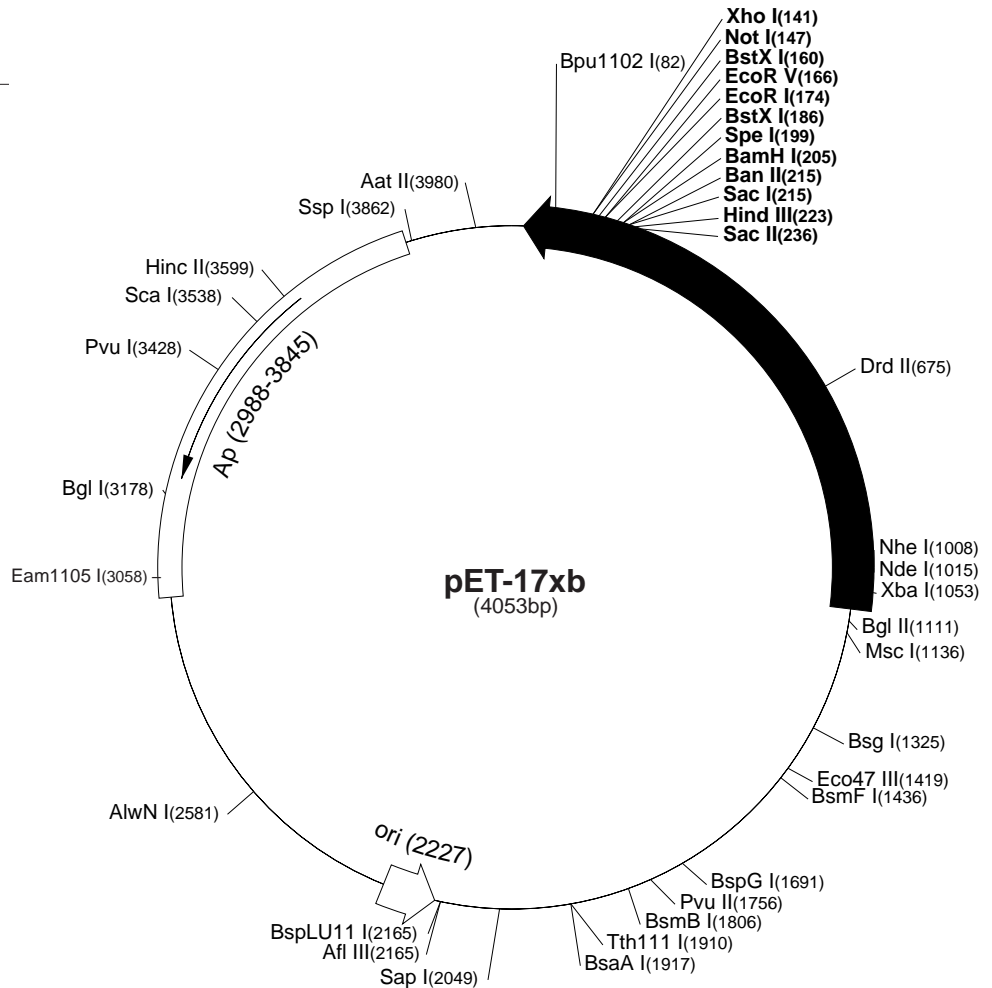


The pET-17xb vector (Cat. No. 69664-3) carries an N-terminal 260aa T7 gene 10 sequence (including the T7•Tag<sup>®</sup> region) followed by a region of useful cloning sites. Included in the multiple cloning region are dual *BstX* I sites, which allow efficient cloning using an asymmetric linker (1). Unique sites (except for the two *BstX* 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-17xb sequence landmarks

T7 promoter	1080-1096
T7 transcription start	1079
T7 gene 10 coding sequence	237-1016
Multiple cloning sites ( <i>Sac</i> II - <i>Xho</i> I)	141-238
T7 terminator	28-74
pBR322 origin	2227
<i>bla</i> coding sequence	2988-3845



### pET-17xb cloning/expression region

# pET-17xb Restriction Sites

Enzyme	# Sites	Locations	Enzyme	# Sites	Locations	Enzyme	# Sites	Locations		
AatII	1	3980	DpnI	19		Sau96I	10	55 1129 1171 1450 1637		
AccI	2	650 1935	DraI	3	2924 2943 3635			3100 3179 3196 3418 4034		
AceIII	4	1674 1815 2117 3357	DrdI	2	1858 2273	Sau3AI	19			
AcI	57		DrdII	1	675	Scal	1	3538		
AflIII	1	2165	Dsal	2	233 1137	ScrFI	12			
AluI	17		EaeI	4	147 191 1134 3446	SfaNI	14			
AlwI	13		EagI	2	147 191	SfiI	5	169 1079 2430 2621 3299		
Alw21I	6	215 1159 1983 2483 3644	Eam1105I	1	3058	SpeI	1	199		
			EarI	2	2049 3853	Sspl	1	3862		
Alw44I	3	1979 2479 3725	Ecil	3	2239 2385 3213	StyI	2	59 973		
AlwNI	1	2581	Eco47III	1	1419	TaqI	6	142 547 775 1108 2265		
ApoI	1	174	Eco57I	2	2713 3725			3709		
AvaI	2	141 1115	EcoO109I	4	55 1129 1171 4034	TaqII	6	651 2067 3406 3591 3744		
Avall	5	1129 1171 1450 3196 3418	EcoRI	1	174			3761		
BamHI	1	205	EcoRII	4	1131 2191 2312 2325	TfiI	6	229 365 631 1215 1719		
BanI	3	217 237 3006	EcoRV	1	166			2140		
BanII	1	215	FauI	6	1095 1180 1461 1647 1868	Thal	14			
BbsI	2	1283 4036			1878	TseI	27			
BbvI	27		FokI	9	597 1384 1446 1524 1710	Tsp45I	7	386 879 1604 1817 1912		
BccI	7	162 611 621 854 3095			1851 3024 3205 3492			3314 3525		
			FspI	2	1146 3280	Tsp509I	8	174 521 1045 1095 2925		
Bce83I	5	23 2256 2554 2795 3663	GdIII	3	147 191 3446			3231 3486 4051		
BceffI	3	179 698 2667	HaeI	4	1136 2180 2191 2643	Tth111I	1	1910		
BcgI	6	470 504 1742 1776 3563	HaeII	4	1338 1421 2043 2413	Tth111III	5	741 1626 2755 2762 2794		
			HaeIII	14		UbaII	14			
Bfal	8	72 200 1009 1054 1179	Hgal	6	671 1701 1858 2276 2854	VspI	2	1094 3230		
					3584	XbaI	1	1053		
BglI	1	3178	HgiEI	3	251 728 2751	XhoI	1	141		
BglII	1	1111	HhaI	18		XmnI	2	1723 3657		
BpmI	4	868 935 1692 3128	Hin4I	9	210 377 447 588 650					
Bpu10I	2	539 1271			662 876 3057 3131	Enzymes that do not cut pET-17xb:				
Bpu1102I	1	82	HincII	1	3599	AflIII	Agel	Apal	ApaBI	AscI
BsaI	4	522 714 1078 3119	HindIII	1	223	AvrII	Bael	BclI	BmgI	BsaXI
BsaAI	1	1917	HinfI	10	229 365 631 1086 1215	BseRI	BsmI	BspMI	BsrGI	BssHII
BsaBI	3	164 1110 1362			1719 2065 2140 2536 3053	BstEII	Bsu36I	Clal	DrallI	EcoNI
BsaHI	2	3595 3977	HphI	12		FseI	HpaI	MluI	MunI	NarI
BsaJI	5	59 233 973 1137 2325	KpnI	2	221 241	NcoI	Ngo4IV	NruI	Nsil	NspV
BsaWI	5	4 1354 2371 2518 3349	Maell	14		PacI	PfIMI	Pmel	PmlI	PshAI
Bsbl	2	1881 3601	MaellI	17		RleAI	RsrII	Sall	SexAI	SfiI
BscGI	9	46 1141 1526 1859 2492	MbolI	8	1283 2036 2827 2898 3653	Sgfl	SgrAI	SmaI	SnaBI	SphI
					3731 3840 4036	SrfI	Sse8387I	StuI	SunI	Swal
BsgI	1	1325	MmeI	2	2380 2564	XcmI				
Bsil	4	440 2338 3722 4029	MnlI	26						
BsiEI	6	150 194 2081 2505 3428	MscI	1	1136					
			MseI	16						
BsII	14	3577	MslI	6	1152 1347 1738 3310 3469					
BsmAI	6	522 714 1078 1806 3119			3828					
			MspI	19						
BsmBI	1	1806	MspA1I	9	86 235 253 846 1756					
BsmFI	1	1436			1875 2507 2752 3693					
BsoFI	41		MwoI	25						
Bsp24I	10	713 745 978 1010 2658	NciI	8	788 1175 1503 1809 1844					
					2545 3241 3592					
Bsp1286I	6	215 1159 1983 2483 3644	NdeI	1	1015					
			NheI	1	1008					
			NlaIII	17						
BspEI	2	4 1354	NlaIV	15						
BspGI	1	1691	NotI	1	147					
BspLU111	1	2165	NspI	3	1510 1802 2169					
BsrI	17		Pfi1108I	2	669 3076					
BsrBI	4	146 835 2098 3899	PleI	4	1094 2059 2544 3047					
BsrDI	2	3119 3293	Psp5II	2	1129 1171					
BsrFI	2	585 3138	Psp1406I	4	292 1490 3284 3657					
Bst1107I	2	651 1936	PstI	2	173 3303					
BstXI	2	160 186	PvuI	1	3428					
BstYI	10	134 205 1111 1357 2806	PvuII	1	1756					
			RcaI	3	2885 3893 3998					
			RsaI	8	219 239 536 861 890					
Cac8I	12	2817 2903 2915 3683 3700			983 1971 3538					
CjeI	18		SacI	1	215					
CjePI	20		SacII	1	236					
CviJI	64		SapI	1	2049					
CviRI	14									
Ddel	19									