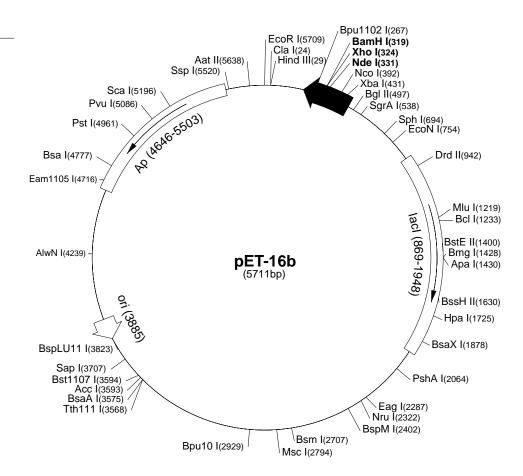
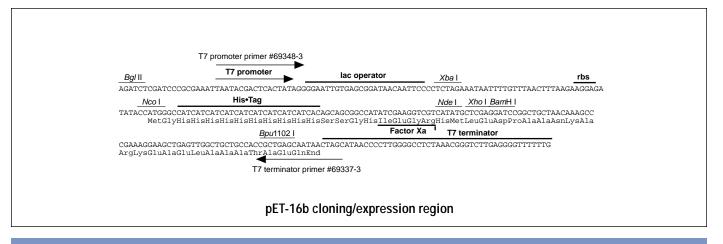


pET-16b Vector

The pET-16b vector (Cat. No. 69662-3) carries an N-terminal His•Tag® sequence followed by a Factor Xa site and three cloning sites. Unique 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.

T7 transcription start 465 His • Tag coding sequence 360-389 Multiple cloning sites (Nde I - BamH I) 319-335 T7 terminator 213-259 lacI coding sequence 869-1948	
T7 promoter	466-482
T7 transcription start	465
His•Tag coding sequence	360-389
Multiple cloning sites	
( <i>Nde</i> I - <i>Bam</i> H I)	319-335
T7 terminator	213-259
lacI coding sequence	869-1948
pBR322 origin	3885
bla coding sequence	4646-5503







Aatll Accl Acelll Acil Afilli	1	5638 3593					BssHII	1	1420					I DEIMI	2	001	0//0	2710		
AcellI Acil		7502					1		1630					PfIMI	3	801	2669	2718	475	074-
Acil			1714	00.45	2222	0.470	Bst1107I	1	3594					Plel	7	480	768	855	1651	3717
	7	986 3775	1714 5015	2045	3332	3473	BstEII BstXI	1 3	1400 1021	1150	1070			PshAl	1	4202	4705			
	89	3//3	3013				BstYI	ა 11	1021	1150	1273			Psp5II	2	2064 2787	2829			
	2	1219	3823				Cac8I	41						Psp1406l	5	881	2249	3148	4942	5315
Alul	24	1217	0020				Cjel	26						Pstl	1	4961	2217	0110	1712	0010
Alwl	16						CjePl	28						Pvul	1	5086				
Alw21I	8	719	1203	2526	2817	3641	Clal	1	24					Pvull	3	1819	1912	3414		
		4141	5302	5387			CviJI	96						Rcal	4	617	4543	5551	5656	
Alw44I	4	1199	3637	4137	5383		CviRI	26						Rsal	4	165	1366	3629	5196	
AlwNI	1	4239					Ddel	11						Sapl	1	3707				
Apal	1	1430					Dpnl	29						Sau96l	22					
ApaBI	2	903	2400				Dral	3	4582	4601	5293			Sau3Al	37	F10/				
Apol	2	1494 324	5709 2773				Drdl Drdll	2 1	3516 942	3931				Scal ScrFI	1 24	5196				
Aval Avall	9	324 1771	2113	2235	2484	2787	Dsal	3	392	656	2795			SfaNI	24					
Avaii	7	2829	3108	4854	5076	2101	Eael	7	349	527	659	1893	2287	Sfcl	5	138	465	4088	4279	4957
BamHI	1	319	3100	7007	3070		Eddi	,	2792	5104	007	1073	2201	SgrAl	1	538	400	4000	7217	4737
Banl	12	017					Eagl	1	2287	0101				Sphl	1	694				
Banll	3	603	617	1430			Eam1105I		4716					Sspl	1	5520				
Bbsl	5	1365	1704	2078	2941	5694	Earl	3	837	3707	5511			Styl	3	244	392	2717		
Bbvl	28						Ecil	5	996	2743	3897	4043	4871	Taql	14					
Bccl	16						Eco47III	3	624	2125	3077			TaqII	8	1127	1345	2018	3725	5064
Bce83I	7	208	2033	2203	3914	4212	Eco57I	2	4371	5383						5249	5402	5419		
		4453	5321				EcoNI	1	754					Tfil	7	1898	2200	2354	2652	2873
Bcefl	5	738	1079	1706	2515	4325	EcoO109I		240	652	2787	2829	5692			3377	3798			
Bcgl	8	1511	1545	2045	2079	3400	EcoRI	1	5709	0.40	4057	4707	4054	Thal	39					
D. II		3434	5221	5255			EcoRII	10	129	942	1257	1797	1854	Tsel	28	104	1.400	2000	0.405	2010
Bcll	1	1233	422	2027	4010	4571	FD\/	2	2406	2789	3849	3970	3983	Tsp45I	9	124	1400	2228	2495	3262
Bfal	6	257 4906	432	2837	4318	4571	EcoRV Faul	2 18	187	1669				TopEOOL	16	3475	3570	4972	5183	
Bgll	3	2283	2517	4836			Fokl	14						Tsp509I Tth111I	10	3568				
BgIII	1	497	2317	4030			Fspl	3	2706	2804	4938			Tth111II	7	1058	1751	3284	4413	4420
Bmgl	1	1428					Gdill	6	349	527	659	1893	2287	''''	,	4452	5708	0201	1110	1120
Bpml	6	1057	1546	2180	2734	3350			5104					UbaJI	24					
		4786					Hael	8	947	2268	2340	2397	2794	Vspl	4	480	1904	1963	4888	
Bpu10l	1	2929							3838	3849	4301			Xbal	1	431				
Bpu1102I	1	267					Haell	13						XcmI	3	1075	1591	1609		
Bsal	1	4777					HaeIII	29						Xhol	1	324				
BsaAl	1	3575					Hgal	15						XmnI	2	3381	5315			
BsaBI	3	496	502	3020	447/	4050	HgiEll	2	817	4409										
BsaHI	8	542	563	677	1176	1859	Hhal	44	1/	1110	2400	471E	4700	Enzymes th				As rell	Dool	
Dea II	11	2554	5253	5635			Hin4l HincII	5 2	16 1725	1118 5257	2489	4715	4789	AfIII BseRI	Agel	Ascl Bsu3		Avrll Dralll	Bael Fsel	
BsaJI BsaWI	7	189	1538	2041	3012	4029	HindIII	1	29	3237				Kpnl	BsrGI Munl	Nhel		Notl	Nsil	
DSGVVI	,	4176	5007	2011	3012	1027	Hinfl	14	27					NspV	Pacl	Pme		PmII	RleAl	
BsaXI	1	1878	0007				Hpal	1	1725					RsrII	Sacl	SacII		Sall	SexAl	
Bsbl	2	3539	5259				HphI	17						Sfil	Sgfl	Sma		SnaBl	Spel	
BscGI	13						Maell	12						Srfl	Sse8387	l Stul		Sunl	Swal	
Bsgl	3	1070	1270	2983			MaeIII	18												
Bsil	3	3996	5380	5687			Mboll	15												
BsiEl	6	2004	2290	3739	4163	5086	Mlul	1	1219											
		5235					Mmel	2	4038	4222										
BsII	22						MnII	34												
Bsml	1	2707	1001	1117	1004	24/4	Mscl	1	2794											
BsmAl	7	916	1321	1447	1834	3464	Msel	24	1071	1000	1500	2270	2010							
BsmBl	2	4777 1834	5553 3464				MsII	10	1271 3005	1559 3396	1589 4968	2379 5127	2810 5486							
BSMFI	4	1834 680	3464 2221	2446	3094		Mspl	35	2003	2240	4700	J12/	J40U							
BsoFI	4 52	000	444 I	∠++U	5074		MspA1I	ານ 11												
Bsp24l	12						Mwol	44												
Bsp12861	11						Narl	5	542	563	677	1859	2554							
BspEl	2	189	3012				Ncil	14												
BspGI	3	2407	2484	3349			Ncol	1	392											
BspLU11I	1	3823					Ndel	1	331											
BspMI	1	2402					NgoAIV	4	529	2117	2277	2631								
Bsrl	25						NIaIII	31												
BsrBI	3	452	3756	5557			NIaIV	28												
BsrDI	4	1266	1632	4777	4951	044-	Nrul	1	2322	04:-	04:-									
	8	160	529	538	905	2117	Nspl Pfl1108I	4 2	694 2106	3168 4734	3460	3827								
BsrFI		2277	2631	4796				,	71116											