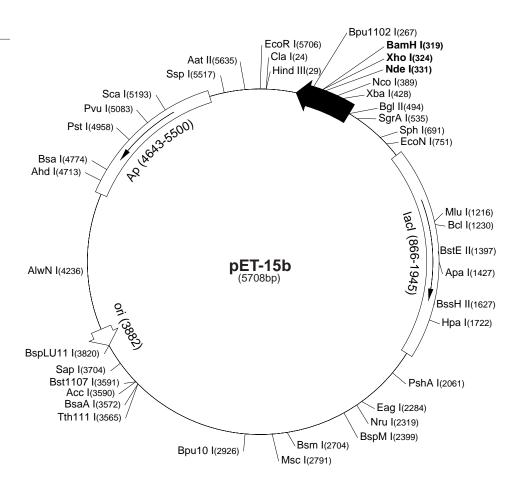
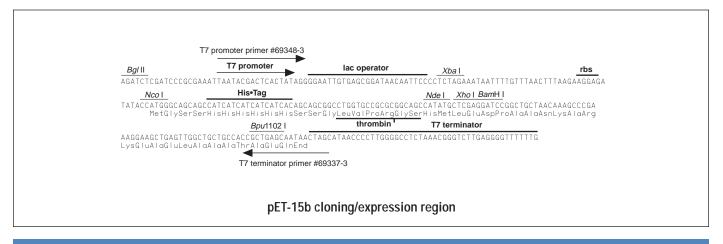


pET-15b Vector

The pET-15b vector (Cat. No. 69661-3) carries an N-terminal His ${}^{\bullet}$ Tag ${}^{\oplus}$ sequence followed by a thrombin 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.

pET-15b sequence landmarks								
T7 promoter	453-469							
T7 transcription start	452							
His•Tag coding sequence	362-380							
Multiple cloning sites								
(<i>Nde</i> I - <i>Bam</i> H I)	319-335							
T7 terminator	213-259							
lacI coding sequence	(866-1945)							
pBR322 origin	3882							
bla coding sequence	4643-5500							





pET-15b Restriction Sites

Enzyme	# Sites	Locat	ions				Enzyme	# Sites	Locat	ions				Enzyme	# Sites	Locat	ions			
AatII	1	5635					BssHII	1	1627					Plel	7	477	765	852	1648	3714
Accl	1	3590					Bst1107I	1	3591							4199	4702			
AceIII	7	983	1711	2042	3329	3470	BstEII	1	1397					PshAl	1	2061				
		3772	5012				BstXI	3	1018	1147	1270			Psp5II	2	2784	2826			
Acil	91						BstYI	11						Psp1406l	5	878	2246	3145	4939	5312
AfIIII	2	1216	3820				Cac8I	41						PstI	1	4958				
Alul	24						Cjel	25						Pvul	1	5083				
Alwl	16						CjePI	26						Pvull	3	1816	1909	3411		
Alw21I	8	716	1200	2523	2814	3638	Clal	1	24					Rcal	4	614	4540	5548	5653	
		4138	5299	5384			CviJI	97						Rsal	4	165	1363	3626	5193	
Alw44I	4	1196	3634	4134	5380		CviRI	26						Sapl	1	3704				
AlwNI	1	4236					Ddel	11						Sau96l	21					
Apal	1	1427					Dpnl	29						Sau3Al	29					
ApaBI	2	900	2397				Dral	3	4579	4598	5290			Scal	1	5193				
Apol	2	1491	5706				Drdl	2	3513	3928				ScrFI	25					
Aval	2	324	2770	0000	0.404	0704	Drdll	1	939		0700			SfaNI	24	100	110	4005	107/	
Avall	9	1768	2144	2232	2481	2784	Dsal	3	389	653	2792	0004	0700	Sfcl	5	138	462	4085	4276	4954
D	4	2826	3105	4851	5073		Eael	6	524	656	1890	2284	2789	SgrAl	1	535				
BamHI	1	319					F		5101					Sphl	1	691				
Banl	13	/00	(1)	1.407			Eagl	1	2284					Sspl	1	5517	200	0714		
Banll	3	600	614	1427	2020	F/01	Eam11051		4713	2704	FFOO			Styl	3	244	389	2714		
Bbsl	5	1362	1701	2075	2938	5691	Earl	3	834	3704	5508	4040	4040	Taql	13	1104	1242	2015	2722	E041
Bbvl	31						Ecil Eco47III	5	993 621	2740	3894	4040	4868	Taqll	5200 5200	1124	1342	2015	3722	5061
Bccl	16 7	200	2020	2200	2011	4200	Eco47III	3	621	2122	3074			5246	5399	5416	2107	20E1	2410	2070
Bce83I	7	208	2030	2200	3911	4209	Eco57I	2 1	4368 751	5380				Tfil	7	1895	2197 3795	2351	2649	2870
Doofl	E	4450	5318	1702	2512	1222	EcoNI EcoNI		751	440	2704	2024	E400	Thal	41	3374	3/95			
Bcell	5 8	735 1508	1076 1542	1703 2042	2512 2076	4322 3397	EcoO109I EcoRI	5 1	240 5706	649	2784	2826	5689	Thal Tsel	41 31					
Bcgl 3431	o 5218	5252	1342	2042	2070	3397	EcoRII	11	3700					Tsp45I	9	124	1397	2225	2492	3259
Bcll	1	1230					EcoRV	2	187	1666				13p43i	7	3472	3567	4969	5180	3237
Bfal	6	257	429	2834	4315	4568	Faul	18	107	1000				Tsp509I	16	3472	3307	4707	3100	
Diai	0	4903	427	2034	4313	4300	Fokl	14						Tth1111	1	3565				
Bgll	3	2280	2514	4833			Fspl	3	2703	2801	4935			Tth111II	7	1055	1748	3281	4410	4417
BgIII	1	494	2314	4000			Gdill	5	524	656	1890	2284	5101	101111111	,	4449	5705	3201	4410	4417
Bmgl	1	1425					Hael	8	944	2265	2337	2394	2791	UbaJI	26	4447	3703			
Bpml	6	1054	1543	2177	2731	3347	ridei	O	3835	3846	4298	2374	2//1	Vspl	4	477	1901	1960	4885	
Брин	O	4783	1343	21//	2751	3347	Haell	13	3033	3040	7270			Xbal	1	428	1701	1700	4005	
Bpu10I	1	2926					Haelll	28						Xcml	3	1072	1588	1606		
Bpu1102I		267					Hgal	15						Xhol	1	324	1000	1000		
Bsal	1	4774					HgiEll	2	814	4406				XmnI	2	3378	5312			
BsaAl	1	3572					Hhal	45	011	1100				/////////	_	0070	0012			
BsaBl	3	493	499	3017			Hin4I	5	16	1115	2486	4712	4786	Enzymes th	nat do not	cut nFT	-15h·			
BsaHl	8	539	560	674	1173	1856	Hincll	2	1722	5254				AfIII	Agel	Asc		AvrII	Bael	
		2551	5250	5632			HindIII	1	29					BseRI	BsrGI	Bsu		Dralll	Fsel	
BsaJI	11						Hinfl	14						Kpnl	MunI	Nhe		Notl	Nsil	
BsaWI	7	189	1535	2038	3009	4026	Hpal	1	1722					NspV	Pacl	Pme		PmII	RleAl	
		4173	5004				HphI	17						RsrII	Sacl	Sac		Sall	SexAl	
BsaXI	1	1875					Maell	12						Sfil	Sgfl	Sma	al	SnaBl	Spel	
Bsbl	2	3536	5256				MaeIII	18						Srfl	Sse8387	'l Stul		Sunl	Swal	
BscGI	13						Mboll	15												
Bsgl	3	1067	1267	2980			Mlul	1	1216											
Bsil	3	3993	5377	5684			Mmel	2	4035	4219										
BsiEl	6	2001	2287	3736	4160	5083	MnII	34												
		5232					Mscl	1	2791											
BsII	22						Msel	24												
Bsml	1	2704					MsII	10	1268	1556	1586	2376	2807							
BsmAl	7	913	1318	1444	1831	3461			3002	3393	4965	5124	5483							
		4774	5550				Mspl	35												
BsmBl	2	1831	3461				MspA1I	11												
BsmFI	4	677	2218	2443	3091		Mwol	44												
BsoFI	57						NarI	5	539	560	674	1856	2551							
Bsp24I	12						Ncil	14												
Bsp1286I	11						Ncol	1	389											
BspEI	2	189	3009				Ndel	1	331											
BspGI	3	2404	2481	3346			NgoAIV	4	526	2114	2274	2628								
BspLU11I	1	3820					NIaIII	31												
BspMI	1	2399					NIaIV	29												
Bsrl	25						Nrul	1	2319											
BsrBI	3	449	3753	5554			Nspl	4	691	3165	3457	3824								
BsrDI	4	1263	1629	4774	4948		Pfl1108I	2	2103	4731										
BsrFI	8	160	526	535	902	2114	PflMI	3	798	2666	2715									
		2274	2628	4793																
							1													