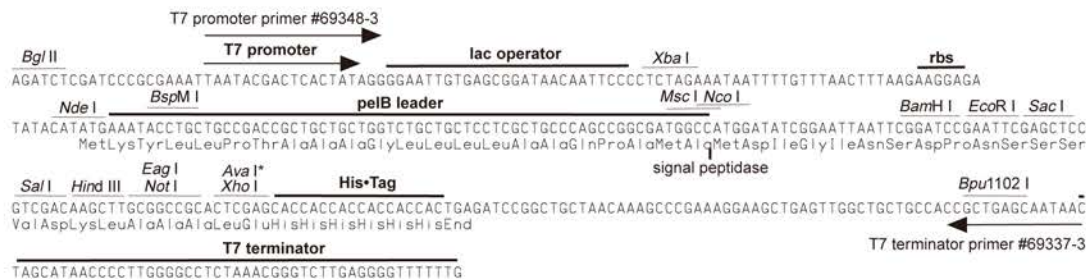
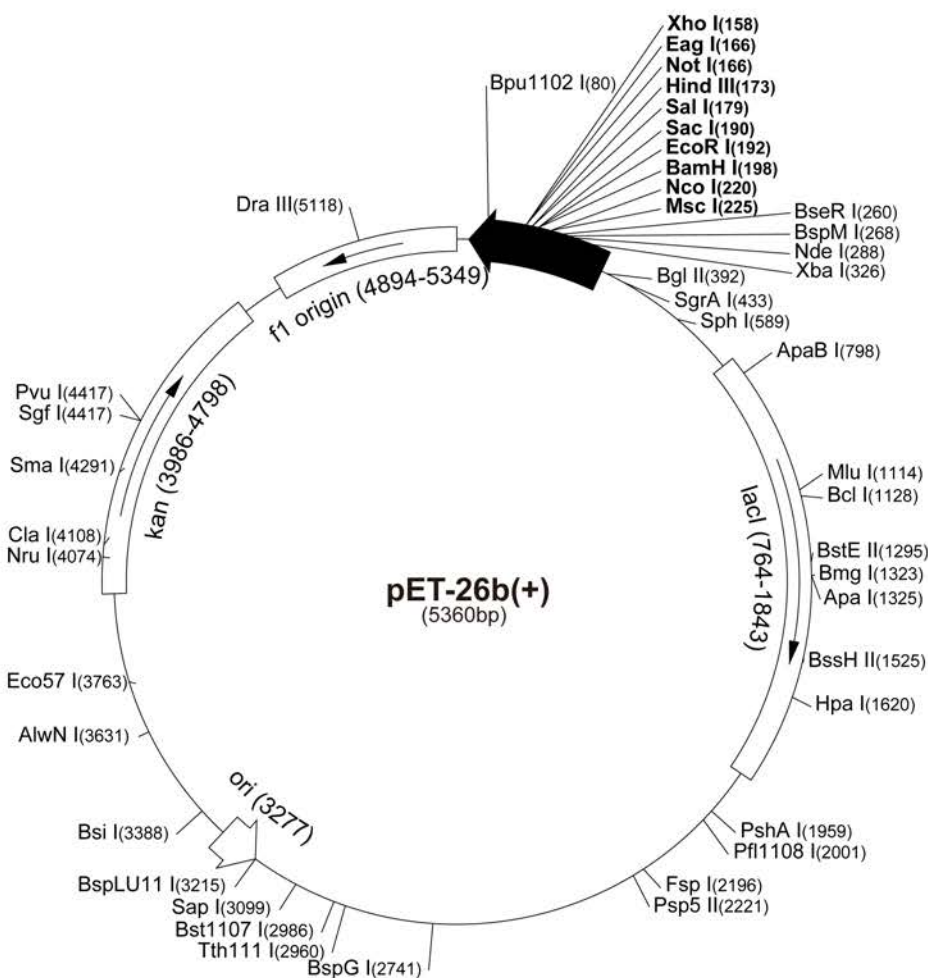


pET-26b(+) Vector

The pET-26b(+) vector (Cat. No. 69862-3) carries an N-terminal *pelB* signal sequence for potential periplasmic localization, plus optional C-terminal His•Tag® sequence. 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/expresson region of the coding strand transcribed by T7 RNA polymerase 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. Therefore, single-stranded sequencing should be performed using the T7 terminator primer (Cat. No. 69337-3).

pET-26b(+) sequence landmarks

T7 promoter	361-377
T7 transcription start	360
<i>pelB</i> coding sequence	224-289
Multiple cloning sites	
(<i>Nco</i> I - <i>Xho</i> I)	158-225
His•Tag coding sequence	140-157
T7 terminator	26-72
<i>lacI</i> coding sequence	764-1843
pBR322 origin	3277
Kan coding sequence	3986-4798
f1 origin	4894-5349



pET-26b(+) cloning/expresson region

pET-26b(+) Restriction Map

Enzyme	# Sites	Locations					Enzyme	# Sites	Locations					Enzyme	# Sites	Locations				
AccI	2	180	2985				BsrFI	8	231	424	433	800	2012	NotI	1	166				
AccIII	7	881	1609	1940	2724	2865			2172	4371	5219		NruI	1	4074					
		3167	4958				BssHII	1	1525				NsiI	2	4267	4533				
AcII	74						Bst1107I	1	2986				NspI	4	589	2560	2852	3219		
AluIII	2	1114	3215				BstEII	1	1295				PII1108I	1	2001					
AluI	22						BstXI	3	916	1045	1168		PIIMI	2	696	4680				
AlwI	13						BstYI	9	132	198	392	678	1890	PleI	9	375	663	750	1546	3109
Alw21I	7	159	190	614	1098	2209			2407	3856	3867	4666			3594	4649	5053	5061		
		3033	3533				Cac8I	40						PshAI	1	1959				
Alw44I	3	1094	3029	3529			CjeI	24						Psp5II	1	2221				
AlwNI	1	3631					CjePI	18						Psp1406I	4	776	2144	2540	4903	
Apal	1	1325					Clal	1	4108					PvuI	1	4417				
ApaBI	1	798					CviJI	84						PvuII	3	1714	1807	2806		
ApoI	6	192	1389	4030	4214	4920	CviRI	22						RcaI	3	512	3935	4810		
		4931					Ddel	11						RsaI	3	1261	3021	4252		
Aval	2	158	4289				DpnI	21						SacI	1	190				
Avall	5	1666	2042	2130	2221	2500	Drall	1	5118					Sall	1	179				
BamHI	1	198					DrdI	3	2908	3323	5073			SapI	1	3099				
BanI	8	436	457	571	1034	1753	DrdII	2	837	5123				Sau96I	14					
		1883	2009	5155			Dsal	3	220	551	2187			Sau3AI	21					
BanII	6	190	498	512	1325	4072	EaeI	5	166	223	422	554	1788	ScrFI	21					
		5193					EagI	1	166					StaNI	23					
BbsI	4	1260	1599	1973	2333		EarI	3	732	3099	4230			SfcI	4	360	3480	3671	5337	
BbvI	28						Ecil	3	891	3289	3435			Sgfi	1	4417				
BccI	14						Eco47III	3	519	2020	2469			SgrAI	1	433				
Bce83I	6	21	1928	2098	3306	3604	Eco57I	1	3763					SmaI	1	4291				
		3845					EcoNI	2	649	4329				SphI	1	589				
BceII	6	633	974	1601	3717	4736	EcoO109I	3	53	547	2221			Sspl	2	4342	4910			
		5144					EcoRI	1	192					StyI	2	57	220			
Bcgl	8	160	194	1406	1440	1940	EcoRII	9	837	1152	1692	1749	3241	TaqI	15					
		1974	2792	2826					3362	3375	4305	4662		TaqII	6	1022	1240	1913	3117	4671
BclI	1	1128					EcoRV	2	217	1564						5022				
Bfal	6	70	327	2229	3710	4017	FauI	17						TfiI	9	1793	2095	2265	2769	3190
		5269					FokI	9	1160	1169	2434	2496	2574			4328	4384	4556	4647	
BglI	2	237	2178						2760	2901	4055	4661		ThaI	35					
BglII	1	392					FspI	1	2196					TseI	28					
BmgI	1	1323					GdIII	4	166	422	554	1788		Tsp45I	7	1295	2123	2654	2867	2962
BpmI	4	952	1441	2075	2742		HaeI	7	225	842	2163	3230	3241			4564	5291			
Bpu10I	2	2321	4434						3693	4504				Tsp509I	22					
Bpu1102I	1	80					HaeII	14						Tth111I	1	2960				
BsaAI	2	2967	5118				HaeIII	24						Tth111II	8	953	1646	2676	3805	3812
BsaBI	3	391	397	2412			Hgal	11								3844	4253	4380		
BsaHI	5	437	458	572	1071	1754	HgiEII	2	712	3801				UbaJI	18					
BsaJI	10	57	220	551	557	1749	HhaI	46						VspI	6	207	375	1799	1858	4616
		2187	3375	4288	4289	4690	Hin4I	3	1013	4103	4645					4805				
BsaWI	7	2	1433	1936	2404	3421	HincII	2	181	1620				XbaI	1	326				
		3568	4552				HindIII	1	173					XcmI	3	970	1486	1504		
BsaXI	2	1773	5066				HinfI	18						XhoI	1	158				
Bsbl	2	2931	5025				HpaI	1	1620					XmnI	3	208	2773	4806		
BscGI	11						HphI	16						Enzymes that do not cut pET-26b(+):						
BseRI	1	260					MaeII	14						AatII	AfIII	AgeI	AscI	AvrII		
BsgI	3	965	1165	2375			MaeIII	16						BaeI	BsaI	BsrGI	Bsu36I	DraI		
Bsil	1	3388					MbolI	12						Eam1105I	FseI	KpnI	MunI	NheI		
BsiEI	6	169	271	1899	3131	3555	MluI	1	1114					NspV	Pacl	PmeI	PmlI	PstI		
		4417					MmeI	7	3430	3614	4059	4253	4615	RleAI	RsrII	SacII	Scal	SexAI		
BsII	23								4624	5095				Sfil	SnaBI	SpeI	SrfI	Sse8387I		
BsmI	2	4301	4378				MnII	26						StuI	SunI	Swal				
BsmAI	6	811	1216	1342	1729	2856	MscI	1	225											
		4433					MseI	26												
BsmBI	3	1729	2856	4433			MslI	6	1166	1454	1484	2202	2397							
BsmFI	4	575	2116	2486	5333				2788											
BsoFI	46						MspI	30												
Bsp24I	10	404	436	955	987	1257	MspAII	9	84	267	1144	1714	1807							
		1289	3708	3740	3886	3918			2806	2925	3557	3802								
Bsp1286I	12						Mwol	40												
BspEI	2	2	2404				NarI	4	437	458	572	1754								
BspGI	1	2741					NciI	12												
BspLU11I	1	3215					NcoI	1	220											
BspMI	1	268					NdeI	1	288											
BsrI	21						NgoAIV	5	231	424	2012	2172	5219							
BsrBI	4	347	3148	4816	5262		NlaIII	25												
BsrDI	2	1161	1527				NlaIV	21												