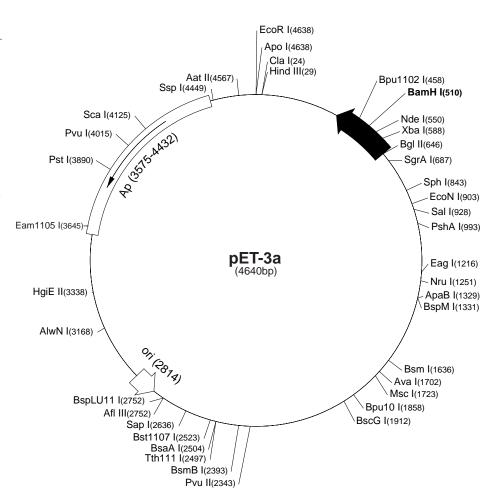
pET-3a-d Vectors

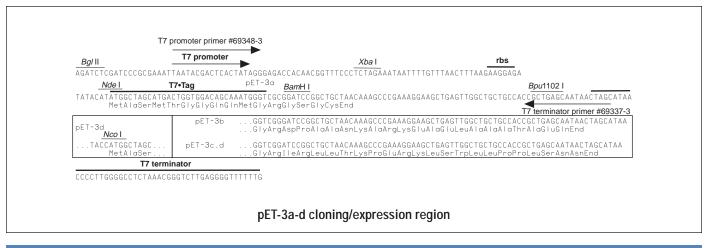
	Cat. No.
pET-3a DNA	69418-3
pET-3b DNA	69419-3
pET-3c DNA	69420-3
pET-3d DNA	69421-3

The pET-3a-d vectors carry an N-terminal T7•Tag® sequence and BamH I cloning site. These vectors are the precursors to many pET family vectors; the pET-23a-d(+) series corresponds to pET-3a-d but incorporates several additional features. 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-3a sequence landmarks								
T7 promoter	615-631							
T7 transcription start	614							
T7•Tag coding sequence	519-551							
T7 terminator	404-450							
pBR322 origin	2814							
<i>bla</i> coding sequence	3575-4432							

The maps for pET-3b, pET-3c and pET-3d are the same as pET-3a (shown) with the following exceptions: pET-3b is a 4639bp plasmid; subtract 1bp from each site beyond <code>BamH</code> I at 510. pET-3c is a 4638bp plasmid; subtract 2bp from each site beyond <code>BamH</code> I at 510. pET-3d is a 4637bp plasmid; the <code>BamH</code> I site is in the same reading frame as in pET-3c. An <code>Nco</code> I site is substituted for the <code>Nde</code> I site with a net 1bp deletion at position 550 of pET-3c. As a result, <code>Nco</code> I cuts pET-3d at 546. For the rest of the sites, subtract 3bp from each site beyond position 551 in pET-3a. <code>Nde</code> I does not cut pET-3d.





pET-3a Restriction Sites

Enzyme	# Sites	Locat	ions				Enzyme	# Sites	Locat	ions				Enzyme	# Sites	Locati	ions			
AatII	1	4567					Cac8I	32						Pvul	1	4015				
Accl	2	929	2522				Cjel	18						Pvull	1	2343				
Acelll	5	974	2261	2402	2704	3944	CjePI	22						Rcal	4	766	3472	4480	4585	
Acil	86						Clal	1	24					Rsal	3	165	2558	4125		
AfIIII	1	2752					CviJI	79						Sall	1	928				
Alul	18						CviRI	21						Sapl	1	2636				
Alwl	14						Ddel	10	458	479	1858	2020	2560	Sau96l	16					
Alw21I	8	280	868	1455	1746	2570	5 401		3027	3436	3602	4142	4568	Sau3Al	25					
72	Ü	3070	4231	4316	.,	2070	DpnI	25	0027	0.00	0002		1000	Scal	1	4125				
Alw44I	3	2566	3066	4312			Dral	2	2445	2860				ScrFI	16	1120				
AlwNI	1	3168	0000	1012			Dsal	2	805	1724				SfaNI	22					
ApaBl	1	1329					Eael	6	295	676	808	1216	1721	SfcI	5	138	614	3017	3208	3886
Apol	1	4638					Luci	O	4033	070	000	1210	1721	SgrAl	1	687	011	3017	3200	3000
Aval	1	1702					Eagl	1	1216					Sphl	1	843				
Avall	8	1076	1164	1413	1716	1758	Eam11051		3645					Sspl	1	4449				
7 (1011)	O	2037	3783	4005	1710	1700	Earl	2	2636	4440				Styl	2	435	1646			
BamHI	1	510	3703	4003			Ecil	4	1672	2826	2972	3800		Tagl	9	24	339	643	651	929
Banl	9	76	119	690	711	825	Eco47III	4	234	773	1054	2006		l radi	,	1404	1545	2852	4296	121
Darii	7	1043	1482	1566	3593	023	Eco57I	2	3300	4312	1034	2000		Tagll	6	947	2654	3993	4178	4331
BanII	2	752	766	1300	3373		EcoNI	1	903	4312				Taqii	U	4348	2034	3773	4170	4001
Bbsl	3	1007	1870	4623			EcoO1091	5	431	801	1716	1758	4621	Tfil	6	1129	1283	1581	1802	2306
Bbvl	24	1007	1070	4023			EcoRI	1	4638	001	1710	1750	4021	''''	U	2727	1203	1301	1002	2300
1	9	727	020	1247	1254	1442	1			1225	1710	2770	2000	That)E	2121				
Bccl	7	737 1675	830	1267	1356	1663	EcoRII	6	129	1335	1718	2778	2899	Thal	25					
Dcc021	7	1675	3682	3806	4093	21.41	EcoD\/	2	2912	270				Tsel	24	124	212	1157	1424	2101
Bce83I	7	399	962	1132	2843	3141	EcoRV	2	187	378				Tsp45I	9	124	212	1157	1424	2191
Doof	2	3382	4250	2254			Faul	11						TopFool	10	2404	2499	3901	4112	150/
Bcefl	3	887	1444	3254	1000	2220	Fokl	12	2/2	1/25	1700	20/7		Tsp509I	10	58	251	580	630	1596
Bcgl	8	506	540	974	1008	2329	Fspl	4	262	1635	1733	3867	4022	THEATAN	1	1610	3512	3818	4073	4638
DC.1	0	2363	4150	4184	F00	17//	Gdill	5	295	676	808	1216	4033	Tth1111	1	2497	2240	2240	2201	4/07
Bfal	8	230	448	544	589	1766	Hael	7	1197	1269	1326	1723	2767	Tth111II	5	2213	3342	3349	3381	4637
	_	3247	3500	3835			l		2778	3230				UbaJI	21					
Bgll	3	1212	1446	3765			Haell	11						Vspl	2	629	3817			
BgIII	1	646					HaeIII	23						Xbal	1	588				
Bpml	4	1109	1663	2279	3715		Hgal	11						Xmnl	2	2310	4244			
Bpu10I	1	1858					HgiEll	1	3338					l						
1 '	1	458					Hhal	31						Enzymes th		•				
Bsal	2	613	3706				Hin4l	5	16	334	1418	3644	3718	AfIII	Agel	Apal		Ascl	AvrII	
BsaAl	1	2504					HincII	2	930	4186				Bael	BcII	Bmg		BsaXI	BseRl	
BsaBl	3	645	651	1949			HindIII	1	29					BsrGl	BssHII	BstE	II	BstXI	Bsu3	61
BsaHI	6	691	712	826	1483	4182	Hinfl	11						Dralll	DrdII	Fsel		Hpal	Kpnl	
		4564					HphI	12						Mlul	Munl	Ncol		Notl	Nsil	
BsaJI	9	115	129	435	805	811	Maell	10	1178	1234	1823	1847	2077	NspV	Pacl	Pme		PmII	RleAl	
		1444	1646	1724	2912				2503	3455	3871	4244	4564	RsrII	Sacl	SacI		SexAl	Sfil	
BsaWl	6	380	970	1941	2958	3105	MaeIII	17						Sgfl	Smal	SnaE	31	Spel	Srfl	
		3936					Mboll	11						Sse83871	Stul	Sunl		Swal	Xcml	
Bsbl	2	2468	4188				Mmel	4	222	309	2967	3151		Xhol						
BscGI	1	1912					MnII	30												
Bsil	3	2925	4309	4616			Mscl	1	1723											
BsiEl	7	289	933	1219	2668	3092	Msel	18												
		4015	4164				MsII	7	1308	1739	1934	2325	3897							
BsII	21								4056	4415										
Bsml	1	1636					Mspl	28												
BsmAl	4	613	2393	3706	4482		MspA1I	7	462	1418	2343	2462	3094							
BsmBl	1	2393					'		3339	4280										
BsmFI	4	829	1150	1375	2023		Mwol	37												
BsoFI	45						Narl	4	691	712	826	1483								
Bsp24I	10	513	545	658	690	3245	Ncil	10	171	812	1536	1762	2090							
.,	-	3277	3423	3455	4549	4581		-	2396	2431	3132	3828	4179							
Bsp1286I	10	280	752	766	868	1455	Ndel	1	550											
1	-	1746	2570	3070	4231	4316	NgoAIV	4	678	1046	1206	1560								
BspEI	2	380	1941		0.		Nhel	2	229	543	00									
BspGl	3	1336	1413	2278			NIaIII	27		0										
BspLU11I		2752					NIaIV	25												
BspMI	1	1331					Nrul	1	1251											
Bsrl	20	.501					Nspl	4	843	2097	2389	2756								
BsrBl	20	2685	4486				Pfl1108I	2	1035	3663	2007	2130								
BsrDI	2	3706	3880				PfIMI	2	1598	1647										
BsrFI	7	160	678	687	1046	1206	Plel	5	629	917	2646	3131	3634							
DOLLI	,	1560	3725	007	1040	1200	PshAl	1	993	71/	2040	0101	3034							
Bst1107I	1	2523	J1ZJ				PSHAI Psp5II	2	993 1716	1758										
BstYI	9	510	646	1944	3393	3404	Psp1406l	4	1178	2077	3871	4244								
DOLLI	,	3490	3502	4270	4287	J7U4	Pstl Pstl	1	3890	2011	JU1 I	7244								
		J+7U	JJU2	721U	7201		1 311		JU 7U											