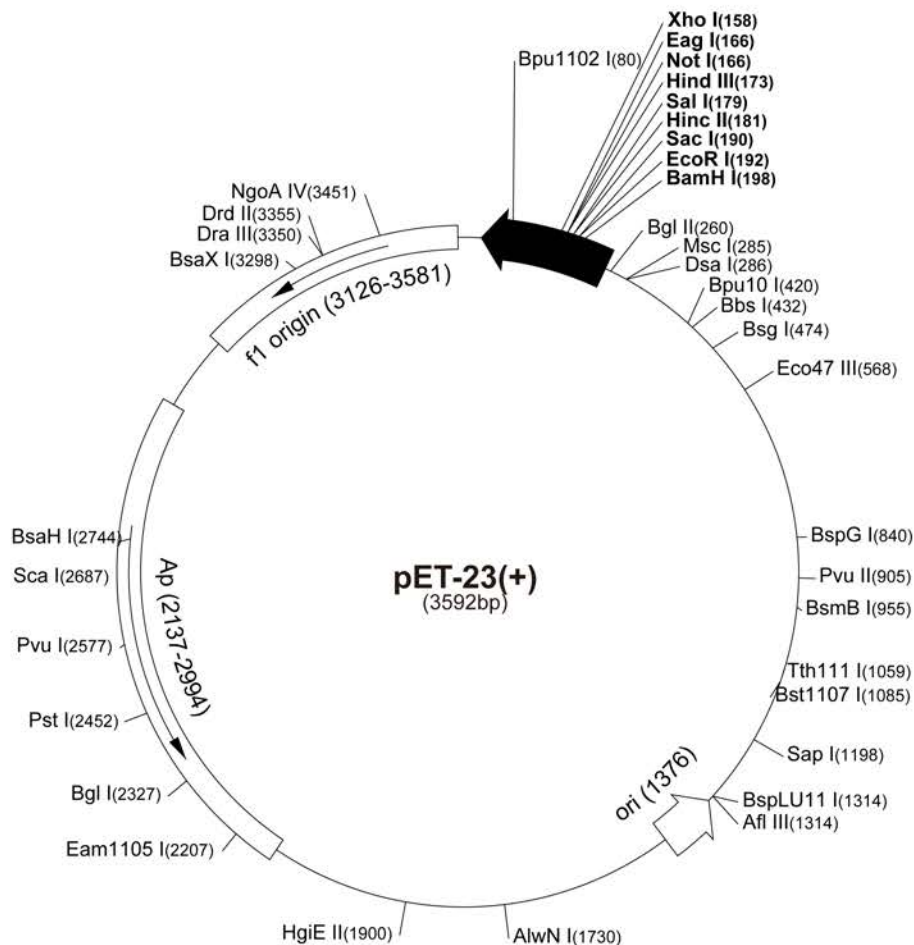


pET-23(+) Vector

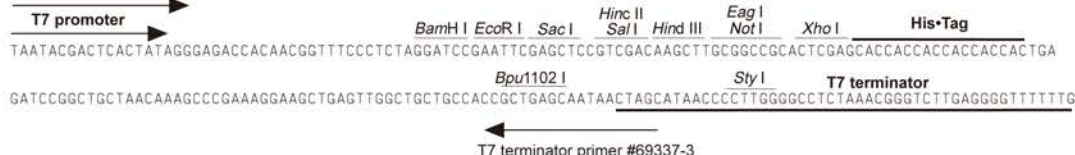
pET-23(+) (Cat. No. 69771-3) is a transcription vector designed for expression from bacterial translation signals carried within a cloned insert. It therefore lacks the ribosome binding site and ATG start codon present on the pET translation vectors. A C-terminal His•Tag® sequence is available. Unique 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. 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-23(+) sequence landmarks

T7 promoter	229-245
T7 transcription start	228
Multiple cloning sites	
(<i>Bam</i> H I - <i>Xho</i> I)	158-203
His•Tag coding sequence	140-157
T7 terminator	26-72
pBR322 origin	1376
<i>bla</i> coding sequence	2137-2994
f1 origin	3126-3581



T7 promoter primer #69348-3



pET-23(+) cloning/expression region

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pET-23(+) Restriction Sites

Enzyme	# Sites	Locations					Enzyme	# Sites	Locations					Enzyme	# Sites	Locations				
AccI	2	180	1084				DraIII	1	3350				Scal	1	2687					
AccIII	5	823	964	1266	2506	3190	DrdI	3	1007	1422	3305		ScrFI	11						
Acil	48						DrdII	1	3355				SfaNI	13						
AlfIII	1	1314					Dsal	1	286				Sfcl	5	228	1579	1770 2448 3569			
AluI	18						EaeI	3	166	283	2595		Sspl	2	3011	3142				
AlwI	13						EagI	1	166				StyI	1	57					
Alw21I	7	159	190	308	1132	1632	Eam1105I	1	2207				TaqI	7	159	180	190 257 1414			
		2793	2878				EarI	2	1198	3002					2858	3383				
Alw44I	3	1128	1628	2874			Ecil	3	1388	1534	2362		TaqII	6	1216	2555	2740 2893 2910			
AlwNI	1	1730					Eco47III	1	568						3254					
ApoI	3	192	3152	3163			Eco57I	2	1862	2874			TfiI	3	364	868	1289			
AvaI	2	158	264				EcoO109I	3	53	278	320		ThaI	16						
Avall	5	278	320	599	2345	2567	EcoRI	1	192				TseI	21						
BamHI	1	198					EcoRII	4	280	1340	1461 1474		Tsp45I	6	753	966	1061 2463 2674			
BanI	2	2155	3387				FauI	8	244	329	610 796 1017				3523					
BanII	2	190	3425						1027	3487	3556		Tsp509I	8	192	244	2074 2380 2635			
BbsI	1	432					FokI	8	533	595	673 859 1000				3126	3152	3163			
BbvI	21								2173	2354	2641		Tth111I	1	1059					
BccI	5	2244	2368	2655	3340	3357	FspI	2	295	2429			Tth111II	4	775	1904	1911 1943			
Bce83I	5	21	1405	1703	1944	2812	GdIII	2	166	2595			UbaJI	12						
BceII	2	1816	3376				HaeI	4	285	1329	1340 1792		VspI	2	243	2379				
Bcgl	6	160	194	891	925	2712	HaeII	6	487	570	1192 1562 3501		XhoI	1	158					
		2746							3509				XmnI	2	872	2806				
Bfal	7	70	203	328	1809	2062	HaeIII	13					Enzymes that do not cut pET-23(+):							
		2397	3501				Hgal	6	850	1007	1425 2003 2733		AatII	AfIII	AgeI	Apal	ApaBI			
BglI	1	2327							3567				AscI	AvrII	BaeI	BclI	BmgI			
BglII	1	260					HgiEII	1	1900				BseRI	BsmI	BspMI	BsrGI	BssHII			
Bpml	2	841	2277				HhaI	23					BstEII	BstXI	Bsu36I	Clal	EcoNI			
Bpu10I	1	420					Hin4I	2	2206	2280			EcoRV	FseI	HpaI	KpnI	MluI			
Bpu1102I	1	80					HincII	1	181				MunI	NarI	NcoI	NdeI	NheI			
BsaI	2	227	2268				HindIII	1	173				NruI	NsiI	NspV	PacI	PfiIM			
BsaAI	2	1066	3350				HinfI	9	235	364	868 1214 1289		PmeI	PmlI	PshAI	RleAI	RsrII			
BsaBI	2	259	511						1685	2202	3277 3299		SacII	SexAI	SfiI	Sgfi	SgrAI			
BsaHI	1	2744					HphI	9	359	934	943 2050 2277		SmaI	SnaBI	SpeI	SphI	SrII			
BsaJI	3	57	286	1474					2693	2899	2934 3351		Sse8387I	StuI	SunI	Swal	XbaI			
BsaWI	5	2	503	1520	1667	2498	Maell	12												
BsaXI	1	3298					MaeIII	15												
Bsbl	2	1030	3257				MbolI	8	432	1185	1976 2047 2802									
BscGI	10	44	290	675	1008	1641			2880	2989	3490									
		1987	2208	2232	2754	3444	MmeI	3	1529	1713	3327									
BsgI	1	474					MnlI	19												
Bsil	2	1487	2871				MscI	1	285											
BsiEI	5	169	1230	1654	2577	2726	MseI	20												
BsII	12						MslI	6	301	496	887 2459 2618									
BsmAI	4	227	955	2268	3044				2977											
BsmBI	1	955					MspI	17												
BsmFI	2	585	3565				MspA1I	6	84	905	1024 1656 1901									
BsoFI	33								2842											
Bsp24I	4	1807	1839	1985	2017		Mwol	18												
Bsp1286I	8	159	190	308	1132	1632	NciI	7	324	652	958 993 1694									
		2793	2878	3425					2390	2741										
BspEI	2	2	503				NgoAIV	1	3451											
BspGI	1	840					NlaIII	14												
BspLU11I	1	1314					NlaIV	15												
BsrI	14						NotI	1	166											
BsrBI	3	1247	3048	3494			NspI	3	659	951	1318									
BsrDI	2	2268	2442				Pfi1108I	1	2225											
BsrFI	2	2287	3451				PieI	6	243	1208	1693 2196 3285									
Bst1107I	1	1085							3293											
BstYI	10	132	198	260	506	1955	Psp5II	2	278	320										
		1966	2052	2064	2832	2849	Psp1406I	4	639	2433	2806 3135									
Cac8I	15						PstI	1	2452											
CjeI	10	1327	1360	1801	1834	1879	PvuI	1	2577											
		1882	1912	1915	1979	2012	PvuII	1	905											
CjePI	10	1801	1833	1834	1866	1979	RcaI	2	2034	3042										
		2012	2099	2132	2571	2604	RsaI	2	1120	2687										
CviJI	55						SacI	1	190											
CviRI	13						Sall	1	179											
DdeI	10	80	101	136	420	582	SapI	1	1198											
		1122	1589	1998	2164	2704	Sau96I	10	53	278	320 599 786									
DpnI	19								2249	2328	2345 2567 3341									
DraI	3	2073	2092	2784			Sau3AI	19												