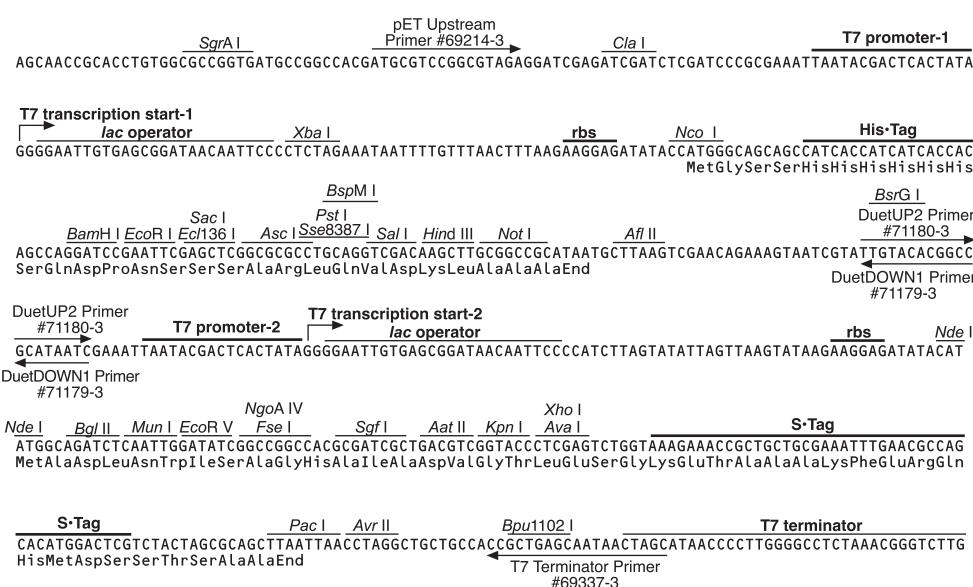
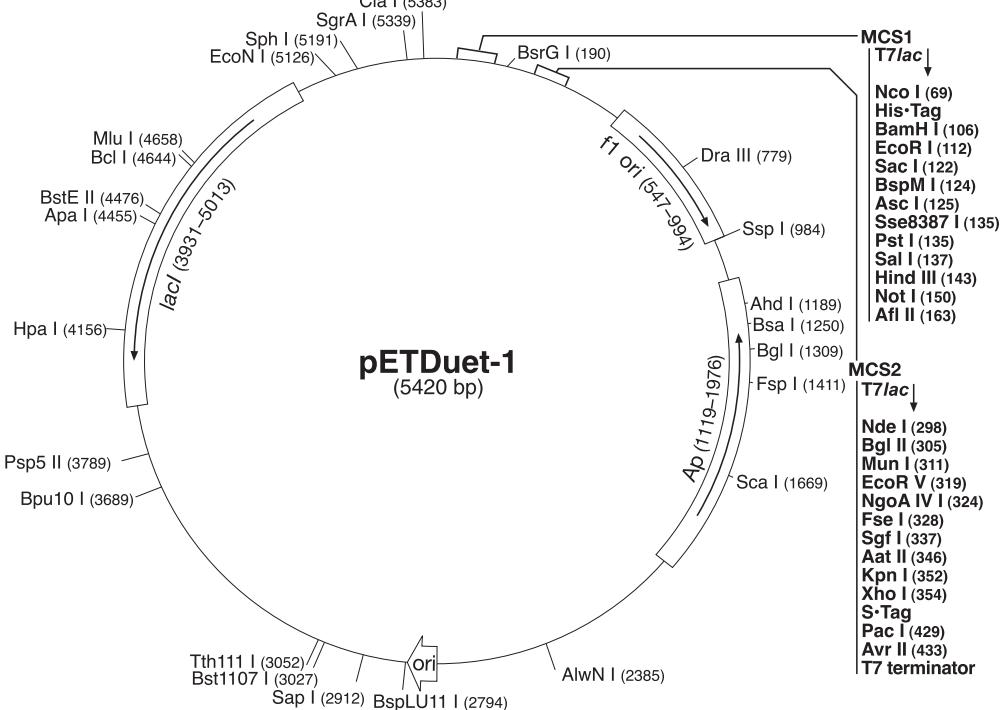


pETDuet-1 Vector

TB337 RevA 0903

	Cat. No.
pETDuet-1 DNA	71146-3
pETDuet-1 sequence landmarks	
T7 promoter-1	5404-5420
T7 transcription start-1	1
His•Tag® coding sequence	83-100
Multiple cloning sites-1 (<i>Nco</i> I- <i>Afl</i> II)	69-168
T7 promoter-2	214-230
T7 transcription start-2	231
Multiple cloning sites-2 (<i>Nde</i> I- <i>Avr</i> II)	297-438
S•Tag™ coding sequence	366-410
T7 terminator	462-509
<i>lacI</i> coding sequence	3931-5013
pBR322 origin	2737
<i>bla</i> (Ap) coding sequence	1119-1976
f1 origin	547-994

pETDuet™-1 is designed for the coexpression of two target genes. The vector contains two multiple cloning sites (MCS), each of which is preceded by a T7 promoter/*lac* operator and a ribosome binding site (rbs). The vector also carries the pBR322-derived ColE1 replicon, *lacI* gene and ampicillin resistance gene. This vector can be used in combination with pACYCDuet™-1 (Cat. No. 71147-3) in an appropriate host strain for the coexpression of up to 4 target genes. Genes inserted into MCS1 can be sequenced using the pET Upstream Primer (Cat. No. 69214-3) and DuetDOWN1 Primer (Cat. No. 71179-3). Genes inserted into MCS2 can be sequenced using the DuetUP2 Primer (Cat. No. 71180-3) and T7 Terminator Primer (Cat. No. 69337-3).



pETDuet-1 Restriction Sites

TB337 RevA 0903

Enzyme	# Sites	Locations				Enzyme	# Sites	Locations				Enzyme	# Sites	Locations				
AatII	1	346				DraI	3	1055	1074	1766		SfaNI	20					
AccI	3	138	411	3026		DraIII	1	779				SfcI	7	131	226	553	1430	2338
AcI	78					DrdI	3	823	2692	3107		SgfI	1	337				
AfI	1	163				Dsal	2	69	5221			SgrAI	1	5339				
AfI	2	2794	4658			Eael	8	150	196	322	326	SphI	1	5191				
AhdI	1	1189					3984	5218	5350			Sse8387I	1	135				
AluI	25					EagI	3	150	196	322		SspI	1	984				
Alw26I	7	1250	2027	3153	4043	4430	Earl	3	1984	2911	5041		StyI	3	69	433	473	
	4556	4961				Ecl136II	1	120				TaiI	15					
AlwI	15					Eco47III	2	3544	5257			TaqI	16					
AlwNI	1	2385				Eco57I	2	1856	2252			Tfil	4	2820	3241	3745	3980	
Apal	1	4455				EcoNI	1	5126				ThaI	34					
ApaLI	4	1856	2480	2980	4678	EcoO109I	3	478	3789	5226		Tsel	28					
Apol	5	112	384	959	970	4383	EcoRI	1	112			Tsp45I	7	598	1445	1656	3046	3141
Ascl	1	125				EcoRII	8	102	2633	2646	2767	4022		3354	4476			
Aval	1	354				EcoRV	1	319				Tsp509I	22					
Avall	5	1327	1549	3510	3789	4107	Ehel	4	4021	5203	5317	5338						
AvrII	1	433				FauI	16					TspRI	13					
BamHI	1	106				Fnu4HI	48					Tth111I	1	3052				
BanI	9	348	735	1137	3889	4019	FokI	10	1155	1336	1623	3108	3249					
	4738	5201	5315	5336				3435	3513	3575	4603	4612						
BanII	5	122	705	4455	5268	5282	Fsel	1	328			VspI	5	213	1361	3916	3975	5403
BbsI	3	3676	4173	4512		FspI	1	1411			XbaI	1	30					
BbvI	28					Haell	13				XcmI	3	4273	4291	4807			
BcgI	4	162	1728	3223	4338	HaelIII	24				XhoI	1	354					
BclI	1	4644				Hgal	12				XmnI	2	1788	3240				
Bfal	10	31	415	434	462	623	Hhal	44										
	1044	1379	2301	3782	3817	HincII	2	139	4156									
BgII	1	1309				HindIII	1	143										
BgIII	1	305				HinfI	16											
BpmI	4	1259	3273	4337	4826	Hpal	1	4156										
Bpu10I	1	3689				HphI	18											
Bpu1102I	1	451				KpnI	1	352										
BsaAI	2	776	3046			MaeIII	17											
BsaBI	3	3601	5379	5389		MboI	13											
BsaHI	7	343	1726	4020	4703	5202	MluI	1	4658									
	5316	5337				MnlI	25											
BsaI	1	1250				MseI	33											
BsaJII	7	69	433	473	2634	4023	MsiI	9	1441	1600	1959	3225	3616					
	5215	5221				MspAII	10	3811	4292	4322	4610							
BsaWI	7	528	1480	2441	2588	3605		375	450	1824	2211	2456						
	3836	4339				MspI	29	3088	3207	3969	4062	4632						
BsgI	3	3640	4613	4813		MunI	1	311										
BsiEI	9	153	199	325	337	1559	MwoI	34										
	1708	2460	2884	3879		NarI	4	4020	5202	5316	5337							
BsiHKAI	8	122	1775	1860	2484	2984	NciI	12										
	3808	4682	5166			NcoI	1	69										
BsII	22					NdeI	1	298										
BsmBI	2	3153	4043			NotI	1	150										
BsmFI	3	557	3523	5197		NspI	4	2798	3165	3457	5191							
Bsp1286I	12					PacI	1	429										
BspEI	2	528	3605			PflMI	2	401	5083									
BspLU11I	1	2794				PleI	12											
BspMI	1	124				Psp1406I	5	989	1415	1788	3471	4998						
BsrBI	5	13	243	632	2031	2865	Psp5II	1	3789									
BsrDI	4	1250	1424	4251	4617	PstI	1	135										
BsrFI	6	324	671	1269	4972	PvuI	2	337	1559									
	5348					PvuII	3	3207	3969	4062								
BsrGI	1	190				RcaI	4	1993	2025	2074	5260							
BsrI	24					RsaI	5	192	350	1669	2992	4515						
BssHII	2	125	4247			SacI	1	122										
BssSI	2	1853	2621			SalI	1	137										
Bst1107I	1	3027				SapI	1	2911										
BstEII	1	4476				Sau3AI	28											
BstXI	3	4612	4735	4864		Sau96I	15											
BstYI	11					Scal	1	1669										
Cac8I	36					ScrFI	20											
Clal	1	5383																
CviJI	84																	
Ddel	10	262	451	1146	1686	2111												
	2520	2987	3527	3689	4087													
DpnI	28																	