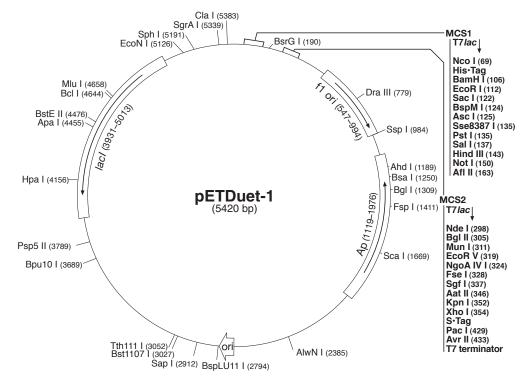
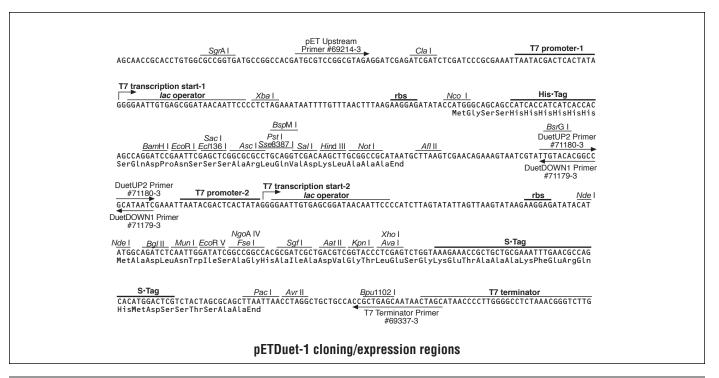


pETDuet-1 Vector TB337 RevA 0903

	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	
(Nco I–Afl II)	69–168
T7 promoter-2	214-230
T7 transcription start-2	231
Multiple cloning sites-2	
(Nde I–Avr II)	297 - 438
S•Tag [™] coding sequence	366-410
T7 terminator	462 - 509
lacI coding sequence	3931-5013
pBR322 origin	2737
bla (Ap) coding sequence	1119-1976
f1 origin	547-994

pETDuetTM-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 pACYCDuetTM-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

Enzyme	# Sites		ons					# Sites						Enzyme	# Sites	Location	ons			
AatII	1	346					Dral	3	1055	1074	1766			SfaNI	20					
Accl	3	138	411	3026			Dralll	1	779					SfcI	7	131	226	553	1430	2338
Acil	78						Drdl	3	823	2692	3107					2529	5416			
AfIII	1	163					Dsal	2	69	5221				Sgfl	1	337				
AfIIII	2	2794	4658				Eael	8	150	196	322	326	1577	SgrAl	1	5339				
Ahdl	1	1189							3984	5218	5350			Sphl	1	5191				
Alul	25						Eagl	3	150	196	322			Sse83871	1	135				
Alw26I	7	1250	2027	3153	4043	4430	Earl	3	1984	2911	5041			Sspl	1	984				
		4556	4961				Ecl136II	1	120					Styl	3	69	433	473		
Alwl	15						Eco47III	2	3544	5257				Tail	15					
AlwNI	1	2385					Eco57I	2	1856	2252				Tagl	16					
Apal	1	4455					EcoNI	1	5126					Tfil	4	2820	3241	3745	3980	
ApaLl	4	1856	2480	2980	4678		Eco01091		478	3789	5226			Thal	34					
Apol	5	112	384	959	970	4383	EcoRI	1	112					Tsel	28					
Ascl	1	125		000	0.0	.000	EcoRII	8	102	2633	2646	2767	4022	Tsp45I	7	598	1445	1656	3046	3141
Aval	1	354					Loom	Ü	4079	4619	4934	2707	IOLL	100101	•	3354	4476	1000	0010	0111
Avall	5	1327	1549	3510	3789	4107	EcoRV	1	319	4013	7307			Tsp509I	22	0004	7770			
AvrII	1	433	1343	3310	3703	4107	Ehel	4	4021	5202	5217	5220			13					
							1		4021	5203	5317	5338		TspRI		2050				
BamHI	1	106	705	4407	0000	4040	Faul	16						Tth1111	1	3052	4004	0040	0075	E 400
Banl	9	348	735	1137	3889	4019	Fnu4HI	48	4455	4000	4000	0400	00.40	Vspl	5	213	1361	3916	3975	5403
.	_	4738	5201	5315	5336	F000	Fokl	10	1155	1336	1623	3108	3249	Xbal	1	30	400	400-		
Banll	5	122	705	4455	5268	5282			3435	3513	3575	4603	4612	Xcml	3	4273	4291	4807		
Bbsl	3	3676	4173	4512			Fsel	1	328					Xhol	1	354				
Bbvl	28						Fspl	1	1411					Xmnl	2	1788	3240			
Bcgl	4	162	1728	3223	4338		Haell	13												
BcII	1	4644					Haelll	24						Enzymes	that do n	ot cut p	ETDuet-	1:		
Bfal	10	31	415	434	462	623	Hgal	12						BseRI	Bsml	Bsu36I	Msc	l N	hel	Nrul
		1044	1379	2301	3782	3817	Hhal	44						Nsil	NspV	PinAl	Pme	I Pi	mll	PshAl
BgII	1	1309					HincII	2	139	4156				RsrII	SacII	SanDI	Sex/	AI S1	fil	Smal
BgIII	1	305					HindIII	1	143					SnaBI	Spel	Srfl	Stul		unl	Swal
Bpml	4	1259	3273	4337	4826		Hinfl	16												
Bpu10I	1	3689					Hpal	1	4156											
Bpu1102I		451					Hphl	18												
BsaAl	2	776	3046				Kpnl	1	352											
BsaBl	3	3601	5379	5389			Maelli	17	002											
BsaHl	7	343	1726	4020	4703	5202	Mboll	13												
Бъапі	,			4020	4703	3202	1		4650											
Deel		5316	5337				Mlul	1	4658											
Bsal	1	1250	400	470	0004	4000	MnII	25												
BsaJI	7	69	433	473	2634	4023	Msel	33												
	_	5215	5221				MsII	9	1441	1600	1959	3225	3616							
BsaWI	7	528	1480	2441	2588	3605			3811	4292	4322	4610								
		3836	4339				MspA1I	10	375	450	1824	2211	2456							
Bsgl	3	3640	4613	4813					3088	3207	3969	4062	4632							
BsiEl	9	153	199	325	337	1559	Mspl	29												
		1708	2460	2884	3879		Munl	1	311											
BsiHKAI	8	122	1775	1860	2484	2984	Mwol	34												
		3808	4682	5166			Narl	4	4020	5202	5316	5337								
BsII	22						Ncil	12												
BsmBl	2	3153	4043				Ncol	1	69											
BsmFl	3	557	3523	5197			Ndel	1	298											
Bsp12861							NgoAIV	3	324	671	5348									
BspEl	2	528	3605				Niaili	26	OL7	0, 1	0070									
BspLU11I		2794	5000				NIaIV	22												
BspMI	1	124					Notl	1	150											
			040	620	2024	2065	1			2165	2/57	5101								
BsrBI	5	13	243	632	2031	2865	Nspl	4	2798	3105	3457	5191								
BsrDI	4	1250	1424	4251	4617	F000	Pacl	1	429	F000										
BsrFl	6	324	671	1269	4972	5339	PfIMI	2	401	5083										
		5348					Plel	12												
BsrGI	1	190					Psp14061	5	989	1415	1788	3471	4998							
Bsrl	24						Psp5II	1	3789											
BssHII	2	125	4247				PstI	1	135											
BssSI	2	1853	2621				Pvul	2	337	1559										
Bst1107I		3027					Pvull	3	3207	3969	4062									
BstEII	1	4476					Rcal	4	1993	2025	2074	5260								
BstXI	3		4735	4864			Rsal	5	192	350	1669	2992	4515							
	ა 11	7012	7130	7004			Sacl		122	000	1003	LJJ L	TU 1U							
BstYl							1	1												
Cac8I	36	E000					Sall	1	137											
Clal	1	5383					Sapl	1	2911											
CviJI	84						Sau3AI	28												
Ddel	10	262	451	1146	1686	2111	Sau96I	15												
		2520	2987	3527	3689	4087	Scal	1	1669											
Dpnl	28						ScrFI	20												