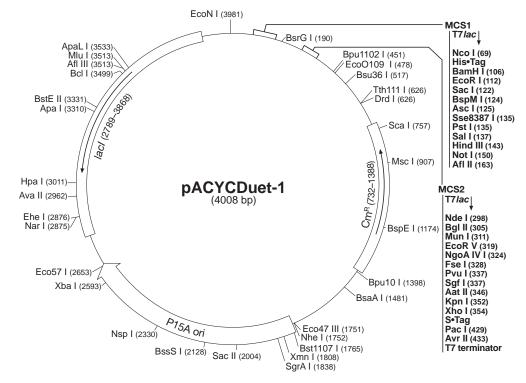
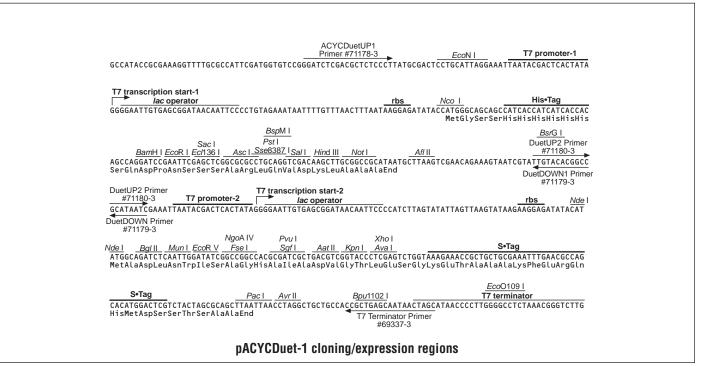


pACYCDuet-1 Vector TB336 10/02

	Cat. No.					
pACYCDuet-1 DNA	71147-3					
pACYCDuet-1 sequence landmarks	S					
T7 promoter-1	3992-4008					
T7 transcription start-1	1					
His•Tag <sup>®</sup> coding sequence	83-100					
Multiple cloning sites-1 (Nco I–Aft 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 <sup>™</sup> coding sequence	366-410					
T7 terminator	462 – 509					
P15A origin	1750 – 2662					
$\operatorname{cat}\left(\operatorname{Cm}^{\operatorname{R}}\right)$ coding sequence	732 - 1388					
lacI coding sequence	2789-3868					

pACYCDuet™-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 ribosome binding site (rbs). The vector also carries the P15A replicon, *lacI* gene and chloramphenicol resistance gene. This vector can be used in combination with pETDuet™-1 (Cat. No. 71146-3) in an appropriate host strain for the coexpression of up to 4 target genes. Genes inserted into MCS1 can be sequenced using the ACYCDuetUP1 Primer (Cat. No. 71178-3) 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).







## **pACYCDuet-1 Restriction Sites**

TB336 10/02

Enzyme	# Sites		una				Enzyme Foo47111			JIIS				Enzyme			UIIO			
Aatll	1	346	111	1764				1	1751					Sse83871		135	2500			
Accl	3	138	411	1764			1	1	2653					Sspl	2	862	2589	470		
Acil	49	400					EcoNI	1	3981					Styl	3	69	433	473	4 400	4.40
AfIII	1	163					Eco01091		478					Tail	7	346	913	1088	1483	149
AfIIII	1	3513					EcoRI	1	112					l		3783	3856			
Alul	18						EcoRII	14						Taql	15					
Alw26I	7	946	1499	2198	2898	3285	EcoRV	1	319					Tfil	2	821	2835			
		3411	3816				Ehel	1	2876					Thal	22					
Alwl	4	101	114	2732	3957		Faul	10	743	1187	2690	2800	2842	Tsel	16					
AlwNI	2	1706	2354						3009	3317	3704	3771	3796	Tsp45I	4	539	1578	2427	3331	
Apal	1	3310					Fnu4HI	30						Tsp509I	23					
ApaLI	1	3533					Fokl	4	644	1190	3458	3467		TspRI	14					
Apol	5	112	384	632	644	3238	Fsel	1	328					Tth1111	1	626				
Ascl	1	125					Haell	4	1753	2878	3121	3902		Vspl	5	213	2575	2771	2830	399
Aval	1	354					Haelll	17						Xbal	1	2593				
Avall	1	2962					Hgal	8	1595	1833	2067	3286	3292	XcmI	3	3128	3146	3662		
AvrII	1	433							3521	3566	3965			Xhol	1	354				
BamHI	1	106					Hhal	26						XmnI	1	1808				
Banl	5	348	704	2744	2874	3593	Hincll	2	139	3011				7,,,,,,	•	1000				
Banll	2	122	3310	2177	2014	0000	HindIII	1	143	0011				Enzymes	that do r	not cut n	ΔΟΥΟΡΙ	ιρt_1·		
Bbsl	2	3028	3367				Hinfl	11	170					Ahdl	Bgll	BsaBl	Bsal		spLU11I	Clal
		3020	3307				1		2011						-				•	
Bbvl	16	160	2102				Hpal	1	3011					Dralll	Fspl	Nrul	Nsil		mel anDI	Pmll
Bcgl	2	162	3193				Hphl	16	250					PshAl	Psp5II	Rcal	Rsrl		anDI	Sapl
Bcll	1	3499	40.4	400	1750	0504	Kpnl	1	352	1007	1110	1570	1701	SexAl	Sfil	Smal	Snal		pel	Sphl
Bfal	5	415	434	462	1753	2594	MaeIII	10	539		1112		1721	Srfl	Stul	Sunl	Swa	I		
BgIII	1	305							2294	2427	2449	3331	3854							
Bpml	4	1054	1647	3192	3681		Mboll	10	900	1565	1974	1985	2574							
Bpu10I	1	1398							2608	3028	3367	3538	3883							
Bpu1102	l 1	451					Mlul	1	3513											
BsaAl	1	1481					MnII	18												
BsaHI	3	343	2875	3558			Mscl	1	907											
BsaJI	11						Msel	23												
BsaWI	8	551	566	1174	1838	2161	MsII	4	1458	3147	3177	3465								
		2291	2691	3194			MspA1I	11												
BseRI	2	2385	2428				Mspl	24												
Bsgl	3	1819	3468	3668			Munl	1	311											
BsiEl	8	153	199	325	337	625	Mwol	24												
		1909	2278	2734			Narl	1	2875											
BsiHKAI	3	122	1663	3537			Ncil	9	626	1436	1528	2221	2318							
BsII	11		1000	0001			140	Ü	2742	3087	3896	3947	2010							
BsmBI	3	946	1499	2898			Ncol	1	69	0007	0000	0041								
BsmFl	2	1554	1674	2030			Ndel	1	298											
Bsml	2	776	1183				1	1	324											
				1660	2210	2527	"		1752											
Bsp1286I		122	707	1663	3310	3537	Nhel	1	1732											
BspEl	1	1174					NIaIII	15												
BspMI	1	124	0.40	1000			NIaIV	11	150											
BsrBI	3	13	243	1926			Notl	1	150											
BsrDI	3	1157	3106	3472	0.1		Nspl	1	2330											
BsrFl	6	324	566	1838	2161	2394	NspV	2	642	2488										
		3827					Pacl	1	429											
BsrGI	1	190					PfIMI	4	401	945	1512	3938								
Bsrl	16						PinAl	3	566	1838	2161									
BssHII	2	125	3102				Plel	9	214	365	399	1887	2317							
BssSI	1	2128							3084	3880	3967	3992								
Bst1107I	1	1765					Psp1406I	2	1085	3853										
BstEII	1	3331					PstI	1	135											
BstXI	3	3467	3590	3719			Pvul	1	337											
BstYl	4	106	305	2737	3949		Pvull	4	1274	1686	2824	2917								
Bsu36I	1	517	000	2,01	0070		Rsal	5	192	350	757	1295	3370							
Cac8I	22	011					Sacl	1	122	000	101	1233	0070							
							1													
CviJI	61	000	AE4	E47	050	1200	SacII	1	2004											
Ddel	8	262	451	517	950	1398	Sall	1	137											
		2213	2476	2942			1	13												
Dpnl	13						Sau96I	8	478		1998	2938	2962							
Dral	2	915	1254						3306	3307	3652									
Drdl	1	626					Scal	1	757											
Dsal	2	69	2001				ScrFl	23												
Eael	7	150	196	322	326	905	SfaNI	10	842	1327	1605	1955	2053							
		2182	2839					-	2736	3148	3151	3339	3480							
Eagl	3	150	196	322			SfcI	4	29	131	226	4004	3 130							
Earl				JZZ						101	220	4004								
1 411	2	2621	3896				Sgfl SgrAl	1	337 1838											
Ecl136II	4	120																		