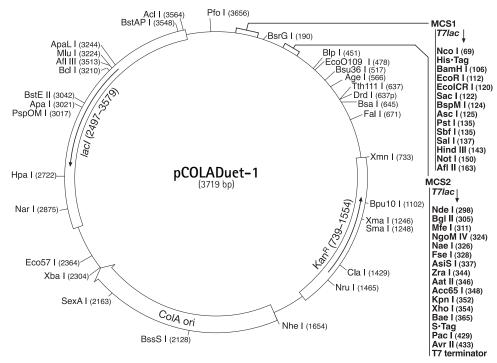
pCOLADuet™-1 Vector

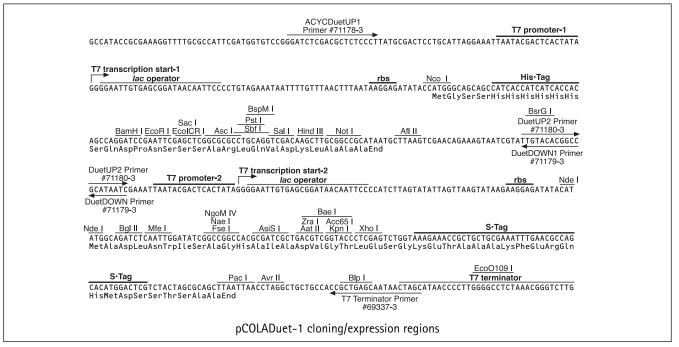
	Cat No.
pCOLADuet-1 DNA	71406-3
pCOLADuet-1 sequence landma	arks
T7 promoter-1	3703-3719
T7 transcription start-1	1
His•Tag® coding sequence	83-100
Multiple cloning sites-1	
(Nco I–Afl II)	68-168
T7 promoter-2	214-230
T7 transcription start-2	231
Multiple cloning sites-2	
(Nde I–Avr II)	297-438
S•Tag [™] coding sequence	366-410
T7 terminator	462-509
Kan ^R	739-1554
ColA ori	1664-2299
lacl coding sequence	2497-3579

pCOLADuet™-1 is designed for the coexpression of two target genes from a single plasmid. The vector encodes two multiple cloning sites (MCS) each of which is preceded by a T7 promoter, *lac* operator, and ribosome binding site (rbs). MCS-1 encodes the six-amino acid His•Tag™ sequence for the creation of a N-terminal fusion and MCS2 encodes the 15 amino acid S•Tag™ peptide after the last restriction site for the creation of a C-terminal fusion if desired. Genes inserted into MCS-1 can be sequenced using the ACYCDuetUP1 Primer and DuetDOWN1 Primer. Genes inserted into MCS-2 can be sequenced using the DuetUP2 Primer and T7 Terminator Primer. The vector has the COLA replicon from ColA(1) and the kanamycin resistance gene. This vector can be transformed into the same cell with plasmids containing compatible origins of replication and drug resistance genes for coexpression of up to 8 target genes.

Reference

1. Zverev, V.V. and Khmel, I.A. (1985) Plasmid 14, 192-199.





pCOLADuet™-1 Restriction Sites

TB408 0304

Enzyme	# Sites	Locati	ons		_		Enzyme	# Sites	Locatio	ons			
Aatll	1	346					Earl	4	1306	1562	2332	3607	
Acc65I	1	348					Ecil	2	1730	3439			
Accl	3	138	411	1922			Ecl136II	1	120				
Acll AflII	1	3564 163					Eco57I Eco57MI	1 3	2364 2364	2903	3392		
AfIIII	1	3224					EcolCRI	1	120	2303	3332		
Agel	1	566					EcoNI	3	1209	2107	3692		
Apal	1	3021					EcoO109I		478				
ApaLl	1	3244					EcoRI	1	112				
Ascl	1	125					EcoRV	2	319	2080			
Asel	6	213	732	921	2482	2541	Fall	1	671				
		3702					Fsel	1	328				
AsiSI	1	337	10.10				Haell	3	2589	2832	3613		
Aval	2	354	1246				Hincll HindIII	2	139	2722			
AvrII Bael	1	433 365					Hpal	1	143 2722				
BamHI	1	106					Kasl	1	2585				
Banl	4	348	2455	2585	3304		Kpnl	1	352				
Banll	3	122	1471	3021			Mfel	1	311				
Bbel	1	2589					Mlul	1	3224				
Bbsl	2	2739	3078				MsII	3	2858	2888	3176		
BceAl	5	211	801	1708	2740	3367	Nael	1	326				
Bcgl	2	162	2904				Narl	1	2586				
BciVI	4	728	1604	1681	2772		Ncol	1	69				
Bell	1	3210	1071				Ndel	1	298				
BfrBI Balli	2	1008	1274				NgoMIV Nhel	1	324				
BgIII BlpI	1	305 451					Notl	1 1	1654 150				
Bme1580l		3021	3248				Nrul	1	1465				
BmgBl	1	1908	-210				Nsil	2	1010	1276			
Bmrl	3	2426	3066	3303			Nspl	1	1654	-			
Bmtl	1	1658					Pacl	1	429				
Bpml	2	2903	3392				PfIMI	3	401	862	3649	1	
Bpu10l	1	1102					Pfol	1	3656				
BpuEl	4	515	2024	2252	2416		PinAl	1	566				
BsaHI	4	343	1870	2586	3269		PspOMI	1	3017				
Bsal	1	645	ECC	002	1000	2402	Pstl	1	135	2255			
BsaWI	6	551 2005	566	983	1988	2402	Pvul Pvull	2	337	2255			
BsaXI	2	2905 655	2556				Sacl	2 1	2535 122	2628			
BseYl	3	1939	2690	2825			Sall	1	137				
Bsgl	2	3179	3379	2023			Sbfl	1	135				
BsiEl	8	153	199	325	337	636	SexAl	1	2163				
		1124	2255	2445			Sfcl	4	29	131	226	3715	
BsiHKAI	2	122	3248				Sfol	1	2587				
BsmAl	8	645	1102	1604	1695	2609	Smal	1	1248				
		2996	3122	3527			SmII	6	163	354	494	2003	2267
BsmBI	2	1102	2609						2431				
BsmFl	1	1894	10.10				Sphl	1	1654				
Bsml Bsp1286l	2	1163	1240	2021	2240		Sse8387I		135	1 5 7 1			
Bsp 12861 BspCNI	5	122 443	1471 530	3021 1094	3248 2051	2645	Sspl Styl	2	1197 69	1571 433	473		
BspHI	2	725	1602	1034	2001	2040	Tagli	2	870	2431	4/3		
BspMI	1	124	. 552				Tatl	1	190	51			
BsrBI	4	13	243	723	1608		TspGWI	5	1303	1315	1863	1906	2298
BsrDI	2	2817	3183	-			Tth 111I	1	637				
BsrFl	4	324	566	1164	3538		Xbal	1	2304				
BsrGI	1	190					XcmI	3	2839	2857	3373		
BssHII	2	125	2813				Xhol	1	354				
BstAPI	1	3548					Xmal	1	1246				
BstEII	1	3042					XmnI	1	733				
BstXI	3	3178	3301	3430	0000	007:	Zral	1	344				
BstYl	7	106	305	869	2263	2274	Fn=	-1- +0 -1	a+ a:-+ C	מאות.	o+ 1.		
Bsu36l	1	2448 517	3660				Enzymes t Aarl	that do no Afel	ot cut pt Ahdl	OLADu. Alel		Alol	AlwNI
Bsu361 Btgl	1	517 69					BbvCl	Arei Bgll	Anai Bpll	Bsa		Aioi BsaBl	BseRI
Btrl	1	1908					BsiWI	BspEl		111 Bss		Bst11071	
Btsl	5	543	1176	1263	2497	2865	1	Dral	Dralll	Fsp.		Fspl	Mscl
Clal	1	1429		00			NspV	Pcil	Pmel	Pm		Ppil	PpuMI
Drdl	1	637					PshAl	Psil	Psrl	Rsr		SacII	SanDI
Eael	5	150	196	322	326	2550	Sapl	Scal	Sfil	Sgr		SnaBl	Spel
Eagl	3	150	196	322			Srfl	Stul	Swal	-			
							1						