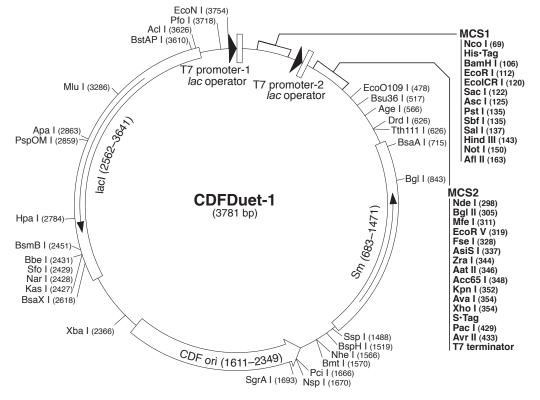
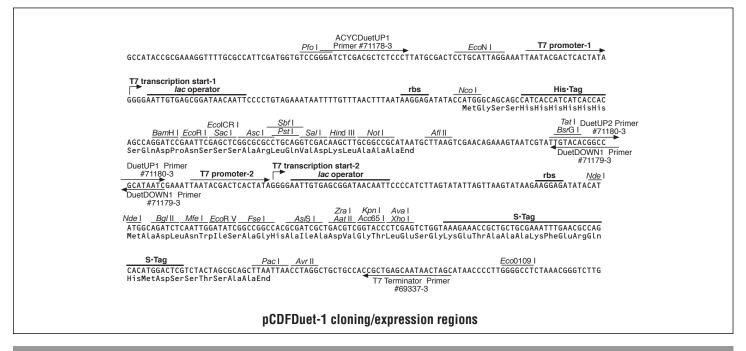


pCDFDuet-1 Vector TB390 0903

	Cat. No.
pCDFDuet-1 DNA	71340-3
pCDFDuet-1 sequence landmarks	
T7 promoter-1	3765-3781
T7 transcription start-1	1
His•Tag [®] 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 [™] coding sequence	366 – 410
T7 terminator	462 – 509
aadA (SmR) coding sequence	683 – 1471
CDF origin	1611 - 2349
lacI coding sequence	2562 – 3641

pCDFDuet[™]-1 is designed for the coexpression of two target ORFs. The vector contains two multiple cloning sites (MCS), each of which is preceded by a T7*lac* promoter and ribosome binding site (rbs). The vector also carries the CloDF13-derived CDF replicon, *lacI* gene and streptomycin/spectinomycin resistance gene (Sm^R). This vector can be used in combination with pACYCDuet[™]-1 (Cat. No. 71147-3), pRSFDuet[™]-1 (Cat. No. 71341-3), and pETDuet[™]-1 (Cat. No. 71146-3) in an appropriate host strain for the coexpression of 4 to 8 target proteins. ORFs inserted into MCS1 can be sequenced using the ACYCDuetUP1 Primer (Cat. No. 71178-3) and DuetDOWN1 Primer (Cat. No. 71179-3). ORFs inserted into MCS2 can be sequenced using the DuetUP2 Primer (Cat. No. 71180-3) and T7 Terminator Primer (Cat. No. 69337-3). Unique sites are shown on the circle map.









pCDFDuet-1 Restriction Sites

Enzyme	# Site	Sites Locations						# Sites	Locati	ons			
Aatll	1	346	J u				Enzyme Ecil	4	1010	1706	1893	3501	
Acc65I	1	348					Eco57I	2	1328	2426		-	
Accl	2	138	411				Eco57MI	5	1222	1328	2426	2965	3454
AcII	1	3626					EcolCRI	1	120				
AfIII	1	163					EcoNI	1	3754				
AfIIII	2	1666	3286				Eco0109I	1	478				
Agel	1	566					EcoRI	1	112				
Apal	1	3083					EcoRV	1	319				
ApaLI	2	1193	3306				Fsel	1	328				
Ascl	1	125					Haell	8	830	979	1409	1614	1934
Asel	4	213	2544	2603	3764			_	2651	2894	3675		
AsiSI	1	337					HincII	2	139	2784			
Aval	1	354					HindIII	1	143				
Avrll	1	433	1070				Hpal	1	2784				
Bael	2	365	1972				Kasl	1	2647				
BamHI	1	106	0517	2647	2266		Kpnl	1	352				
Banl	4 2	348 122	2517 3083	2647	3366		Mfel	1	311				
Banll	1		3003				Mul		3286	2020	2050	3338	
Bbel Bbsl	2	2651 2801	3140				MsII Nael	4 2	1200 326	2920 821	2950	3238	
BceAl	7	211	1352	1396	1757	1868	Narl	1	320 2648	021			
DOGAL	1	2802	3429	1030	1131	1000	Ncol	1	2046 69				
Bcgl	2	2602 162	2966				Ndel	1	298				
BciVI	3	1521	1887	2834			NgoMIV	2	290 324	819			
Bell	2	1270	3272	۷004			Nhel	1	324 1566	013			
BgII	1	843	ULIL				Notl	1	1500				
BgIII	1	305					Nspl	1	1670				
Blpl	2	451	1160				Pacl	1	429				
Bme1580I		1197	3083	3310			Pcil	1	1666				
Bmrl	7	824	833	929	2118	2488	PfIMI	2	401	3711			
•		3128	3365				Pfol	1	3718				
Bmtl	1	1570					PspOMI	1	3079				
Bpml	3	1222	2965	3454			Pstl	1	135				
BpuEl	4	515	2074	2315	2478		Pvul	2	337	1093			
BsaAl	1	715					Pvull	2	2597	2690			
BsaHI	4	343	1416	2648	3331		Sacl	1	122				
BsaWl	8	551	566	1002	1754	1890	Sall	1	137				
		2038	2464	2967			Sbfl	1	135				
BsaXI	1	2618					Sfcl	5	29	131	226	1213	3777
BseYI	3	1989	2752	2887			Sfol	1	2649				
Bsgl	2	3241	3441				SgrAl	1	1693				
BsiEl	8	153	199	325	337	625	SmII	6	163	354	494	2053	2330
		1093	1580	2507	_				2493				
BsiHKAI	4	122	1197	2209	3310		Sspl	1	1488				
BsmAl	6	1521	1592	2671	3058	3184	Styl	5	69	433	473	694	1036
_		3589					TaqII	2	1566	2493			
BsmBI	1	2671					Tatl	1	190				
BsmFl	2	912	1673				TspGWI	2	1192	1634			
	5	122	1197		3083	3310	Tth1111	1	626				
BspCNI	3	443	530	2707			Xbal	1	2366	000	00/-	0.10-	
BspHI	1	1519	440.				Xcml	4	1643	2901	2919	3435	
BspMI	2	124	1121	4505	0001		Xhol	1	354				
BsrBI	4	13	243	1525	2364		Zral	1	344				
BsrDI	4	832	1125	2879	3245	1000	F====	ال المطالح		0055			
BsrFl	6	324	566	819	872	1693	Enzymes					A1 1	
Da-OI	4	3600					Aarl	Afel	Ahd		Alel	Alol	
BsrGI	1	190	744	0075			AlwNI	BbvCI	BfrB		BmgBl	BpII	
BssHII	3	125	744	2875			Bpu10I	BsaBl	Bsal		BseRI	BsiWl	
BstAPI	1	3610	2104				Bsml	BspEl	Bss		BstBl	BstZ1	/1
BstEII	2	1307	3104 3363	2402			Clal	Dral	Fall		FspAl	Fspl	
BstXI BstYI	3 9	3240 106	305	3492 641	097	1827	Mscl Ppil	Nrul PpuMl	Nsil Psh <i>i</i>		Pmel Peil	PmII Peri	
DOLLI	9	2326	2337	2510	987 3722	102/	RsrII	SacII	Sanl		Psil Sant	Psrl Scal	
Bsu36I	1	2320 517	۷۵۵۱	010 کی	0122		SexAl	Sfil	Sma		Sapl SnaBl	Spel	
Btgl	4	69	1175	1645	2226		Sphl	Srfl	Stul		Swal	Spei Xmal	
Btsl	4	543	1357	2559	2927		Xmnl	JIII	Juli		Uwai	المانام	
Dralll	2	718	1338	2003	LJL1		Aiiiii						
Drdl	1	626	1000										
Eael	7	150	196	322	326	636							
	•	1381	2612	U_L	020	555							
Eagl	3	150	196	322									
Earl	3	1479	2394	3669									
	ŭ	. 17 5	_007	2000									