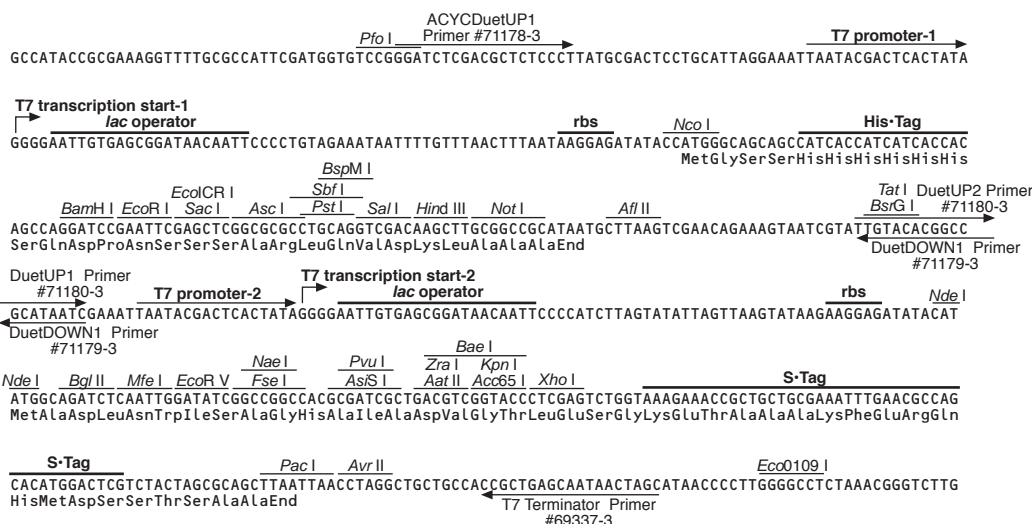
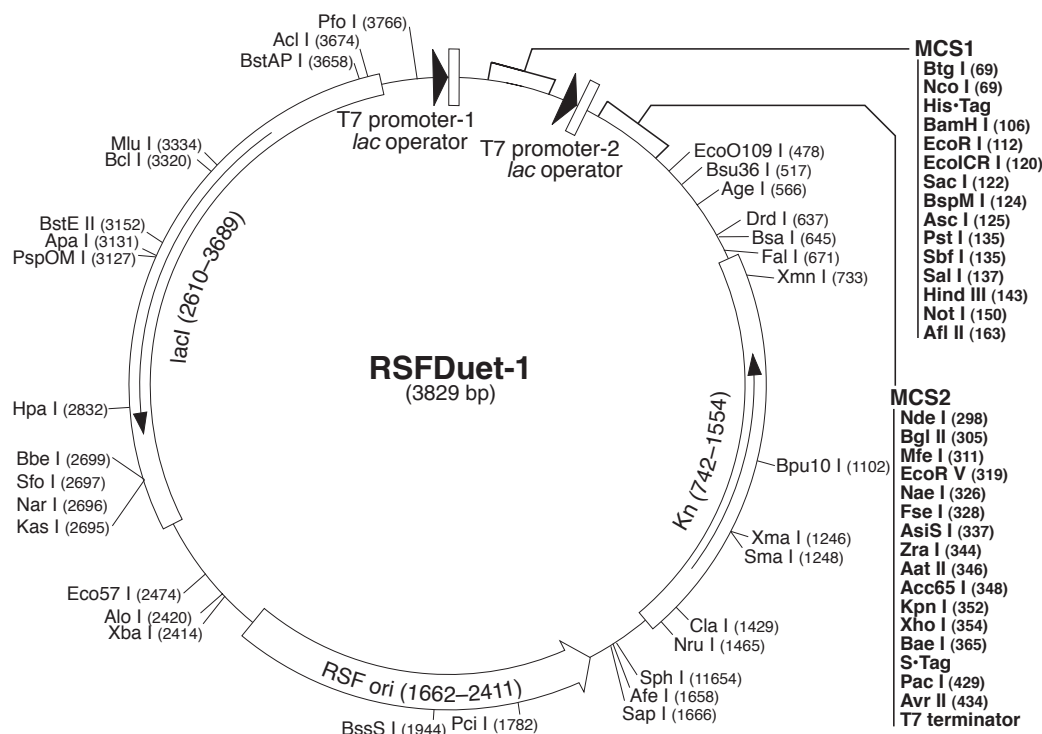


pRSFDuet-1 Vector

TB391 0903

	Cat. No.
pRSFDuet-1 DNA	71341-3
pRSFDuet-1 sequence landmarks	
T7 promoter-1	3582-3598
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
kan (<i>Kn^R</i>) coding sequence	742-1554
RSF origin	1662-2411
<i>lacI</i> coding sequence	2610-3689

pRSFDuet™-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 RSF1030-derived RSF replicon, *lacI* gene and kanamycin resistance gene (*Kn^R*). This vector can be used in combination with pACYCDuet™-1 (Cat. No. 71147-3), pCDFDuet™-1 (Cat. No. 71340-3), 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.



pRSFDuet-1 cloning/expression regions

pRSFDuet-1 Restriction Sites

TB391 0903

Enzyme	# Sites	Locations	Enzyme	# Sites	Locations										
AatII	1	346	EarI	5	1306 1562 1666 2442 3717	Enzymes that do not cut pRSFDuet-1: AarI AhdI AleI AlwNI BbvCI BglI BmgBI BmtI BpII BsaAI BsaBI BseRI BsiWI BsmFI BspEI Bst1107I BstBI BstZ17I BtrI DraI DraIII FspAI FspI MscI NheI NspV PmeI PmlI PpII PpuMI PshAI PsiI PsrI RsrII SacII SanDI Scal SexAI SfiI SgrAI SnaBI SpeI SrfI StuI SwaI									
Acc65I	1	348	EciI	3	1833 1979 3549										
AccI	2	138 411	Ecl136II	1	120										
AccII	1	3674	Eco57I	1	2474										
AfeI	1	1658	Eco57MI	3	2474 3013 3502										
AflII	1	163	EcoICRI	1	120										
AflIII	2	1782 3334	EcoNI	2	1209 3802										
AgeI	1	566	EcoO109I	1	478										
Alol	1	2420	EcoRI	1	112										
Apal	1	3131	EcoRV	1	319										
ApaLI	2	2085 3354	FalI	1	671										
AscI	1	125	FseI	1	328										
Asel	6	213 732 921 2592 2651	HaeII	5	1660 2019 2699 2942 3723										
		3812	HincII	3	139 2392 2832										
AsiSI	1	337	HindIII	1	143										
Aval	2	354 1246	HpaI	1	2832										
AvrII	1	433	KasI	1	2695										
BaeI	1	365	KpnI	1	352										
BamHI	1	106	MfeI	1	311										
BanI	4	348 2565 2695 3414	MluI	1	3334										
BanII	3	122 1471 3131	MsiI	3	2968 2998 3286										
BbeI	1	2699	NaeI	1	326										
BbsI	2	2849 3188	NarI	1	2696										
BceAI	4	211 801 2850 3477	NcoI	1	69										
BcgI	2	162 3014	NdeI	1	298										
BciVI	4	728 1604 1974 2882	NgoMIV	1	324										
BclI	1	3320	NotI	1	150										
BfrBI	2	1008 1274	NruI	1	1465										
BglII	1	305	NsiI	2	1010 1276										
BlpI	2	451 2309	NspI	2	1654 1786										
Bme1580I	3	2089 3131 3358	PacI	1	429										
Bmrl	3	2536 3176 3413	PciI	1	1782										
Bpml	2	3013 3502	PfiIMI	3	401 862 3759										
Bpu10I	1	1102	PfoI	1	3766										
BpuEI	5	515 1862 2160 2340 2526	PinAI	1	566										
BsaHI	3	343 2696 3379	PspOMI	1	3127										
BsaI	1	645	PstI	1	135										
BsaWI	8	551 566 983 1804 1977	PvuI	1	337										
		2124 2512 3015	PvuII	2	2645 2738										
BsaXI	2	655 2666	SacI	1	122										
BseYI	3	2075 2800 2935	Sall	1	137										
BsgI	2	3289 3489	SapI	1	1666										
BsiEI	9	153 199 325 337 636	SbfI	1	135										
		1124 1698 2111 2555	Sfcl	4	29 131 226 3825										
BsiHKAII	3	122 2089 3358	SfoI	1	2697										
BsmAI	7	645 1102 1604 2719 3106	SmaI	1	1248										
		3232 3637	SmlI	7	163 354 494 1877 2139										
BsmBI	2	1102 2719			2319 2541										
BsmI	2	1163 1240	SphI	1	1654										
Bsp1286I	5	122 1471 2089 3131 3358	Sse8387I	1	135										
BspCNI	6	443 530 1094 2059 2322	Sspl	2	1197 1571										
		2755	StyI	4	69 433 473 2287										
BspHI	2	725 1602	TaqII	4	870 1684 2368 2541										
BspLU11I	1	1782	TatI	1	190										
BspMI	1	124	TspGWI	3	1303 1315 2396										
BsrBI	5	13 243 723 1608 1715	Tth111I	2	637 2209										
BsrDI	2	2927 3293	XbaI	1	2414										
BsrFI	4	324 566 1164 3648	XcmI	3	2949 2967 3483										
BsrGI	1	190	XhoI	1	354										
BssHII	2	125 2923	XmaI	1	1246										
BssSI	1	1944	XmnI	1	733										
BstAPI	1	3658	ZraI	1	344										
BstEII	1	3152													
BstXI	3	3288 3411 3540													
BstYI	5	106 305 869 2558 3770													
Bsu36I	1	517													
BtgI	1	69													
BtsI	5	543 1176 1263 2607 2975													
Clal	1	1429													
DrdI	1	637													
EaeI	5	150 196 322 326 2660													
EagI	3	150 196 322													