

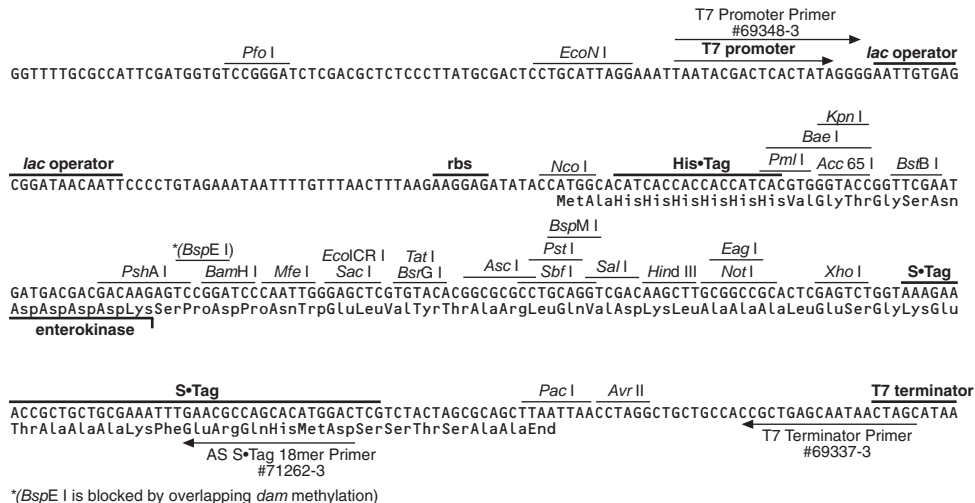
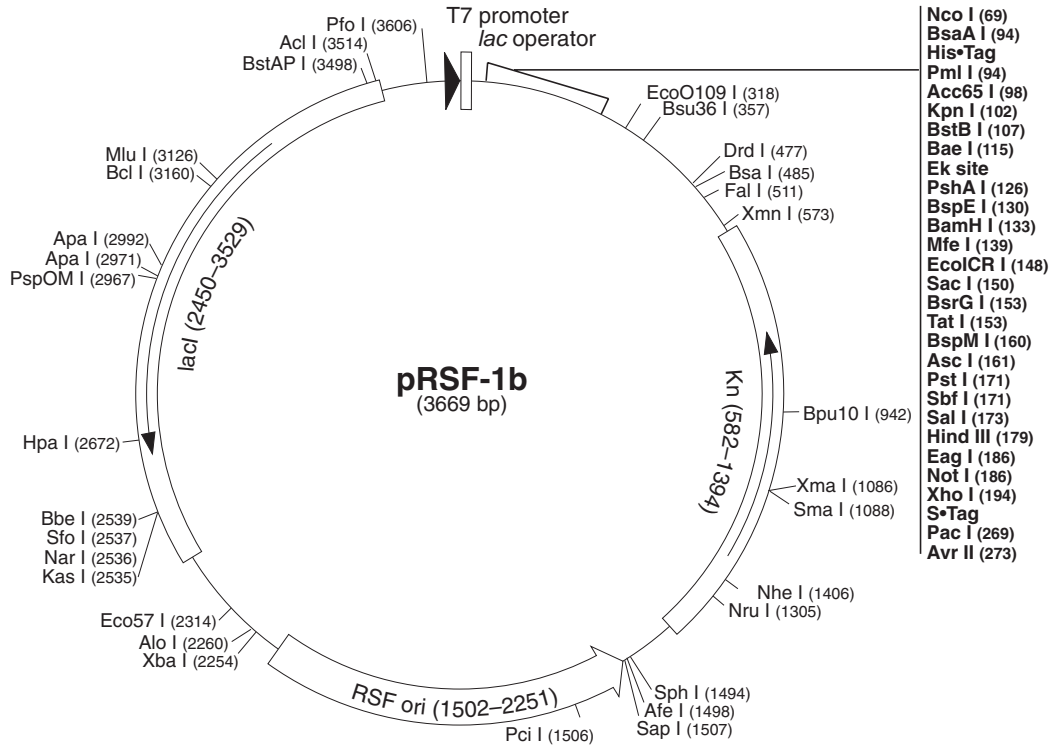
pRSF-1b Vector

TB393 0903

	Cat. No.
pRSF-1b DNA	71330-3
pRSF-1b sequence landmarks	
T7 promoter	3653-3669
T7 transcription start	1
His•Tag® coding sequence	77-94
Multiple cloning sites	
(<i>Nco</i> I- <i>Avr</i> II)	69-278
S•Tag™ coding sequence	206-250
T7 terminator	302-349
kan (<i>Kn</i> ^R) coding sequence	582-1394
RSF origin	1502-2251
<i>lacI</i> coding sequence	2450-3529

pRSF-1b carries a T7 promoter and *lac* operator to control transcription, a replication origin derived from RSF1030, and kanamycin antibiotic resistance (*Kn*^R). It also encodes an N-terminal His•Tag® sequence followed by an enterokinase (Ek) cleavage site and an optional C-terminal S•Tag™ sequence. Unique sites are shown on the circle map. pRSF-1b is compatible with pET vectors (*ColE1* origin), pCDF vectors (*CloDF13* replication origin), and pACYC derived plasmids (*P15A* replication origin) carrying compatible antibiotic resistance markers. Sequencing can be performed using the T7 Promoter Primer (Cat. No. 69348-3) and AS S•Tag 18mer Primer (Cat. No. 71262-3) or T7 Terminator Primer (Cat. No. 69337-3).

Note: the *BspE* I site is modified by *dam* methylation, so the plasmid must be grown in *dam*⁻ hosts to use this site for cloning.



pRSF-1b cloning/expression region

pRSF-1b Restriction Sites

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Enzyme	# Sites	Locations	Enzyme	# Sites	Locations			
Acc65I	1	98	Ecl136II	1	148			
AccI	2	174 251	Eco57I	1	2314			
AcII	1	3514	Eco57MI	3	2314 2853 3342			
AfeI	1	1498	EcoICRI	1	148			
AfIII	2	1622 3174	EcoNI	2	1049 3642			
AgeI	2	101 406	EcoO109I	1	318			
Alol	1	2260	FalI	1	511			
Apal	1	2971	HaeII	5	1500 1859 2539 2782 3563			
ApaLI	2	1925 3194	HincII	3	175 2232 2672			
AscI	1	161	HindIII	1	179			
Asel	5	572 761 2432 2491 3652	HpaI	1	2672			
AvaI	2	194 1086	KasI	1	2535			
AvrII	1	273	KpnI	1	102			
BaeI	1	115	MfeI	1	139			
BamHI	1	133	MluI	1	3174			
BanI	4	98 2405 2535 3254	MslI	3	2808 2838 3126			
BanII	3	150 1311 2971	NarI	1	2536			
BbeI	1	2539	NcoI	1	69			
BbsI	2	2689 3028	NottI	1	186			
BceAI	4	174 641 2690 3317	NruI	1	1305			
BcgI	2	198 2854	NsiI	2	850 1116			
BciVI	4	568 1444 1814 2722	NspI	2	1494 1626			
BclI	1	3160	NspV	1	107			
BfrBI	2	848 1114	Pacl	1	269			
BlpI	2	291 2149	PciI	1	1622			
Bme1580I	3	1929 2971 3198	PfIMI	4	94 241 702 3599			
BmrI	3	2376 3016 3253	PfoI	1	3606			
BpmI	2	2853 3342	PinAI	2	101 406			
Bpu10I	1	942	PmlI	1	94			
BpuEI	5	355 1702 2000 2180 2366	PshAI	1	126			
BsaAI	1	94	PspOMI	1	2967			
BsaHI	2	2536 3219	PstI	1	171			
BsaI	1	485	PvuII	2	2485 2578			
BsaWI	10	101 130 391 406 823 1644 1817 1964 2352 2855	SacI	1	150			
BsaXI	3	137 495 2506	SalI	1	173			
BseYI	3	1915 2640 2775	SapI	1	1506			
BsgI	2	3129 3329	SbfI	1	171			
BsiEI	6	189 476 964 1538 1951 2395	SfiI	3	29 167 3665			
BsiHKAI	3	150 1929 3198	SfoI	1	2537			
BsmAI	7	485 942 1444 2559 2946 3072 3477	SmaI	1	1088			
BsmBI	2	942 2559	SmlI	6	194 334 1717 1979 2159 2381			
BsmI	2	1003 1080	SphI	1	1494			
Bsp1286I	5	150 1311 1929 2971 3198	Sse8387I	1	171			
BspCNI	6	283 370 934 1899 2162 2595	SspI	2	1037 1411			
BspEI	1	130	StyI	4	69 273 313 2127			
BspHI	2	565 1442	TaqII	4	710 1524 2208 2381			
BspLU11I	1	1622	TatI	1	153			
BspMI	1	160	TspGWI	3	1143 1155 2236			
BsrBI	4	13 563 1448 1555	Tth111I	2	477 2049			
BsrDI	2	2767 3133	XbaI	1	2254			
BsrFI	4	101 406 1004 3488	XcmI	3	2789 2807 3323			
BsrGI	1	153	XhoI	1	194			
BssHII	2	161 2763	XmaI	1	1086			
BssSI	2	149 1784	XmnI	1	573			
BstAPI	1	3498	Enzymes that do not cut pRSF-1b:					
BstBI	1	107	AarI	AatII	AfIII	AhdI	AleI	
BstEII	1	2992	AlwNI	AsiSI	BbvCI	BglI	BglII	
BstXI	3	3128 3251 3380	BmgBI	BmtI	BpII	BsaBI	BseRI	
BstYI	4	133 709 2398 3610	BsiWI	BsmFI	Bst1107I	BstZ17I	BtrI	
Bsu36I	1	357	DraI	DrallI	EcoRI	EcoRV	FseI	
BtgI	1	69	FspAI	Fspl	MscI	NaeI	NdeI	
BtsI	5	383 1016 1103 2447 2815	NgoMIV	NheI	PmeI	PpiI	PpuMI	
Clal	1	1269	Psil	Psrl	PvuI	RsrII	SacII	
DrdI	1	477	SanDI	Scal	SexAI	SfiI	SgrAI	
EaeI	2	186 2500	SnaBI	SpeI	SrfI	StuI	Swal	
EagI	1	186	ZraI					
EarI	5	1146 1402 1506 2282 3557						
Ecil	3	1673 1819 3389						