



# pET-41a(+) Restriction Sites

Enzyme	# Sites	Locations			
AccI	2	196	3558		
AcII	73				
AflIII	3	852	1924	3788	
AluI	25				
AlwI	12				
Alw26I	6	1621	2026	2152	2539
		3429	5006		
AlwNI	1	4204			
ApaI	1	2135			
ApaLI	3	1904	3602	4102	
ApoI	7	235	331	2199	4603
		4787	5493	5504	
AscI	1	216			
AvaI	2	174	4862		
AvaII	4	597	2476	2794	3073
AvrII	1	131			
BamHI	1	241			
BanI	9	295	380	1246	1267
		1381	1844	2563	2693
		5728			
BanII	6	206	1308	1322	2135
		4645	5766		
BbsI	3	2070	2409		
BbvI	24				
BcgI	4	210	1032	2216	3399
BcgI'	4	176	1066	2250	3365
BclI	2	656	1938		
Bfal	10	70	132	425	1080
		1133	2767	2802	4283
		4590	5842		
BglII	1	302			
BpmI	3	1762	2251	3315	
Bpu10I	2	2894	5007		
Bpu1102I	1	80			
BsaAI	2	3540	5691		
BsaBI	3	1197	1207	2985	
BsaHI	5	1247	1268	1382	1881
		2564			
BsaJI	12				
BsaWI	9	2	280	292	2243
		2746	2977	3994	4141
		5125			
BsgI	4	810	1775	1975	2948
BsiEI	5	185	2709	3704	4128
		4990			
BsiHKAI	7	175	206	1424	1908
		2782	3606	4106	
BsII	28				
BsmI	2	4874	4951		
BsmBI	3	2539	3429	5006	
BsmFI	5	273	1103	1385	3059
		5906			
Bsp1286I	12				
BspEI	2	2	2977		
BspLU11I	2	852	3788		
BsrI	20				
BsrBI	5	803	1153	3721	5389
		5835			
BsrDI	2	1971	2337		
BsrFI	6	292	1234	1243	1610
		4944	5792		
BsrGI	1	229			
BssHII	2	216	2335		
BssSI	1	3961			
Bst1107I	1	3559			
BstEII	1	2105			
BstXI	3	1726	1855	1978	
BstYI	8	241	302	1488	2700
		2980	4429	4440	5239
Cac8I	43				
Clal	2	1201	4681		
CviJI	89				
Ddel	11				

  

Enzyme	# Sites	Locations			
DpnI	23				
DraI	2	558	667		
DraIII	1	5691			
DrdI	3	3481	3896	5646	
Dsal	3	255	390	1361	
EaeI	5	182	885	1232	1364
		2598			
EagI	1	182			
EarI	4	1012	1542	3672	4803
Eco47III	2	1329	3042		
Eco57I	1	4336			
EcoNI	3	1083	1459	4902	
EcoO109I	4	53	1059	1357	2794
EcoRI	1	235			
EcoRII	10	584	1647	1962	2502
		2559	3814	3935	3948
		4878	5235		
EcoRV	1	251			
FauI	17				
Fnu4HI	40				
FokI	13				
HaeII	13				
HaeIII	24				
HgaI	12				
HhaI	46				
HincII	2	197	2430		
HindIII	1	189			
HinfI	18				
HpaI	1	2430			
HphI	22				
KpnI	1	299			
MaeIII	16				
MbolI	15				
MluI	1	1924			
MnlI	24				
MscI	1	887			
MseI	31				
MsiI	7	1000	1976	2264	2294
		2775	2970	3361	
MspI	28				
MspA1I	10	84	344	392	1954
		2524	2617	3379	3498
		4130	4375		
MunI	1	360			
MwoI	36				
NarI	4	1247	1268	1382	2564
NciI	12				
NcoI	1	255			
NdeI	1	1094			
NgoAIV	2	1234	5792		
NlaIII	29				
NlaIV	22				
NottI	1	182			
NruI	1	4647			
NsiI	2	4840	5106		
NspI	5	856	1399	3133	3425
		3792			
NspV	2	329	695		
PfiMI	3	321	1506	5253	
PinAI	1	292			
PleI	10	255	1181	1473	1560
		2356	3682	4167	5222
		5626	5634		
PshAI	1	265			
Psp1406I	3	1586	3113	5476	
Psp5II	1	2794			
PstI	1	214			
PvuI	1	4990			
PvuII	3	2524	2617	3379	
RcaI	3	1322	4508	5383	
RsaI	7	231	297	369	521
		2071	3594	4825	
SacI	1	206			

  

Enzyme	# Sites	Locations			
SacII	1	393			
Sall	1	195			
SapI	2	1012	3672		
Sau3AI	23				
Sau96I	13				
Scal	2	369	521		
ScrFI	22				
SfaNI	24				
Sfcl	5	210	1166	4053	4244
		5910			
Sgfi	1	4990			
SgrAI	1	1243			
SmaI	1	4864			
SpeI	1	424			
SphI	1	1399			
Sse8387I	1	214			
Sspl	2	4915	5483		
StuI	1	226			
StyI	4	57	131	221	255
Swal	1	667			
TaiI	16				
TaqI	19				
TfiI	8	2603	2838	3342	3763
		4901	4957	5129	5220
Thal	38				
Tsel	24				
Tsp45I	6	2105	3227	3440	3535
		5137	5864		
Tsp509I	29				
TspRI	11				
Tth111I	1	3533			
VspI	6	139	1181	2609	2668
		5189	5378		
XbaI	1	1132			
XcmI	3	1780	2296	2314	
XhoI	1	174			
XmnI	3	701	3346	5379	

Enzymes that do not cut pET41a(+):

AatII	AflII	AhdI	BglI	BsaI	BseRI
BspMI	Bsu36I	FseI	FspI	NheI	PacI
PmeI	PmlI	RsrII	SanDI	SexAI	SfiI
SnaBI	SrfI	SunI	UbaEI		