pET-9c

Location: Expresión 05
Resistance: Kanamycin 25 µg/mL

General description of pET-9 a-d(+) vectors:
The pET-9a-d(+) vectors carry an N-terminal T7•Tag® sequence and *Bam*H I cloning site. These vectors are the precursors to many pET family vectors. Unique sites are shown on the circle map (Figure 2).
Note that the sequence is numbered by the pBR322 convention, so the T7 expression region is reversed on the circular map. The cloning/expression region (Figure 3) of the coding strand transcribed by T7 RNA polymerase is shown below.
The map for pET-9c is the same as pET-9a (shown in Figure 2) with the exception of pET-9b is a 4339 bp plasmid with 2 bp subtracted from each site beyond BamHI at 510.

Complete sequence:
https://www.lablife.org/g?a=seqa&id=vdb_g2.l19_Zz8GxKdx.eoTrAb01xrRwS0-_sequence_20b0e5a1e2231db55be0e53eda9ce901eff1e07a_10

Genotype of *E coli* strain BL21(DE3) pLysS : F– *ompT hsdS*(rB– mB–) *gal dcm* λ(DE3) pLysS (Camr)(λ(DE3): *lac*I, *lac*UV5-T7 gene 1, *ind*1, *sam*7, *nin*5)

Landmarks and maps

pET-9a sequence landmarks	
T7 promoter	615-631
T7 transcription start	614
T7•Tag coding sequence	519-551
T7 terminator	404-450
pBR322 origin	2814
kan coding sequence	3523-4335

Figure 1: Landmarks

pET-9c

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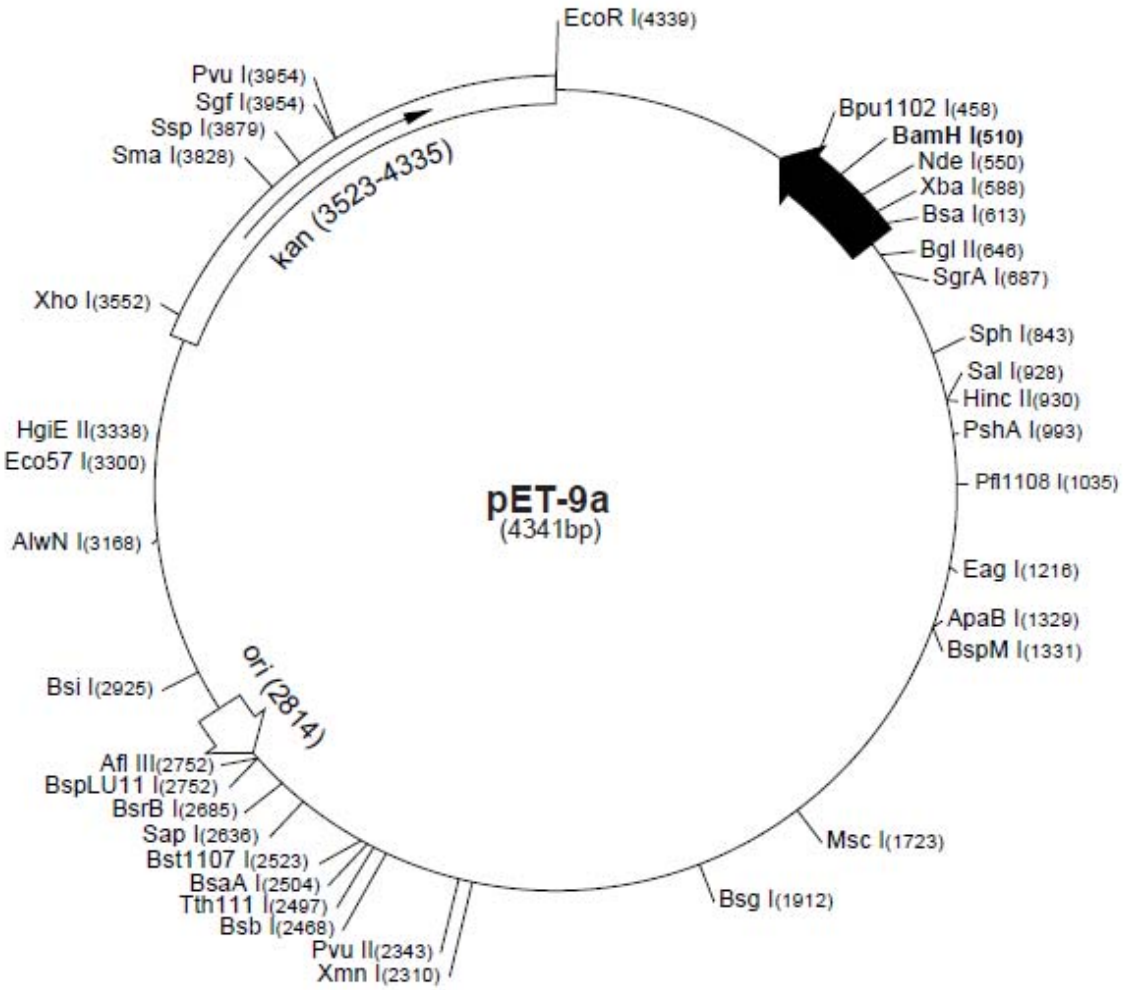

Figure 2: Plasmid circle map

pET-9c

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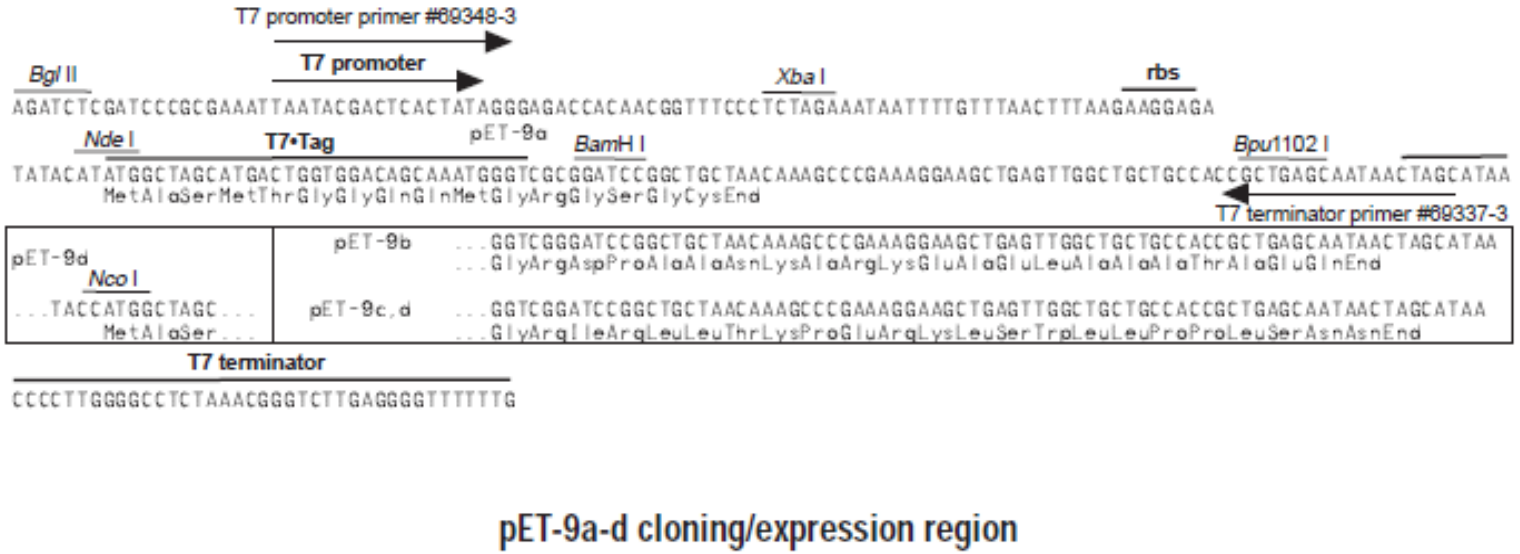

pET-9a-d cloning/expression region

Figure 3: Cloning Region

pET-9c

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pET-9a Restriction Sites

TB040

Enzyme	# Sites	Locations
AccI	2	929 2522
AceIII	4	974 2261 2402 2704
AciI	61	
AflIII	1	2752
AluI	16	
AlwI	11	
Alw21I	6	280 868 1455 1746 2570 3070
Alw44I	2	2566 3066
AlwNI	1	3168
ApaBI	1	1329
ApoI	3	3567 3751 4339
AvaI	3	1702 3552 3826
AvaII	6	1076 1164 1413 1716 1758 2037
BamHI	1	510
BanI	8	76 119 690 711 825 1043 1482 1566
BanII	3	752 766 3609
BbsI	2	1007 1870
BbvI	21	
BccI	9	737 830 1267 1356 1663 1675 3728 3771 4212
Bce83I	6	399 962 1132 2843 3141 3382
BcefI	4	887 1444 3254 4273
BcgI	6	506 540 974 1008 2329 2363
BfaI	6	230 448 544 589 1766 3247
BglI	2	1212 1446
BglII	1	646
BpmI	3	1109 1663 2279
Bpu10I	2	1858 3971
Bpu1102I	1	458
BsaI	1	613
BsaAI	1	2504
BsaBI	3	645 651 1949
BsaHI	4	691 712 826 1483
BsaJI	12	
BsaWI	6	380 970 1941 2958 3105 4089
BsbI	1	2468
BscGI	11	
BsgI	1	1912
BsiI	1	2925
BsiEI	6	289 933 1219 2668 3092 3954
BslI	24	
BsmI	3	1636 3838 3915
BsmAI	3	613 2393 3970
BsmBI	2	2393 3970
BsmFI	4	829 1150 1375 2023
BsoFI	40	
Bsp24I	8	513 545 658 690 3245 3277 3423 3455
Bsp1286I	9	280 752 766 868 1455 1746 2570 3070 3609
BspEI	2	380 1941
BspGI	3	1336 1413 2278
BspLU11I	1	2752
BspMI	1	1331
BsrI	16	
BsrBI	1	2685
BsrFI	7	160 678 687 1046 1206 1560 3908
Bst1107I	1	2523
ClaI	2	24 3645
CviJI	76	
CviRI	19	
DdeI	9	458 479 1858 2020 2560 3027 3436 3971 4335
DpnI	19	
DrdI	2	2445 2860
DsaI	2	805 1724
EaeI	5	295 676 808 1216 1721
EagI	1	1216
EarI	2	2636 3767
EciI	3	1672 2826 2972
Eco47III	4	234 773 1054 2006
Eco57I	1	3300
EcoNI	2	903 3866
EcoO109I	4	431 801 1716 1758
EcoRI	1	4339
EcoRII	8	129 1335 1718 2778 2899 2912 3842 4199
EcoRV	2	187 378
FauI	11	
FokI	11	
FspI	3	262 1635 1733
GdiII	4	295 676 808 1216
HaeI	8	1197 1269 1326 1723 2767 2778 3230 4041
HaeII	11	
HaeIII	21	
HgaI	10	676 915 1230 1262 1506 1656 2288 2445 2863 3441
HgiEII	1	3338
HhaI	31	
Hin4I	5	16 334 1418 3640 4182
HincII	1	930
HindIII	2	29 4072
HinfI	15	
HphI	12	
MaeII	8	1178 1234 1823 1847 2077 2503 3455 3544
MaeIII	15	
MboII	8	753 1007 1278 1870 2623 3414 3754 3865
MmeI	8	222 309 2967 3151 3596 3790 4152 4161
MnlI	29	
MscI	1	1723
MseI	13	
MslI	4	1308 1739 1934 2325
MspI	26	
MspA1I	6	462 1418 2343 2462 3094 3339
MwoI	38	
NarI	4	691 712 826 1483
NciI	10	171 812 1536 1762 2090 2396 2431 3132 3827 3828
NdeI	1	550
NgoAIV	4	678 1046 1206 1560
NheI	2	229 543
NlaIII	25	
NlaIV	20	
NruI	2	1251 3611
NsiI	2	3804 4070
NspI	4	843 2097 2389 2756
Pfl1108I	1	1035
PflMI	3	1598 1647 4217
PleI	5	629 917 2646 3131 4186
PshAI	1	993
RsaI	3	165 2558 3789
SalI	1	928
SapI	1	2636
Sau96I	11	
Sau3AI	19	
ScrFI	18	
SfaNI	25	
SfcI	4	138 614 3017 3208
SgfI	1	3954
SgrAI	1	687
SmaI	1	3828
SphI	1	843
SspI	1	3879
StyI	2	435 1646
TaqI	12	
TaqII	3	947 2654 4208
TfiI	10	1129 1283 1581 1802 2727 3865 3921 4093
ThaI	25	
TseI	21	
Tsp45I	8	124 212 1157 1424 2404 2499 4101
Tsp509I	12	
Tth111I	1	2497
Tth111II	7	2213 3342 3349 3381 3917 4338
UbaJI	19	
VspI	2	629 4153
XbaI	1	588
XhoI	1	3552
XmnI	1	2310

Enzymes that do not cut pET-9a:

AatII	AflII	AgeI	ApaI	AscI
AvrII	BaeI	BclI	BmgI	BsaXI
BseRI	BsrDI	BsrGI	BssHII	BstEII
BstXI	Bsu36I	DraI	DraIII	DrdII
Eam1105I	FseI	HpaI	KpnI	MluI
MunI	NcoI	NotI	NspV	PacI
PmeI	PmlI	PstI	RleAI	RsrII
SacI	SacII	ScaI	SexAI	SfiI
SnaBI	SpeI	SrfI	Sse8387I	StuI
SunI	SwaI	XcmI		