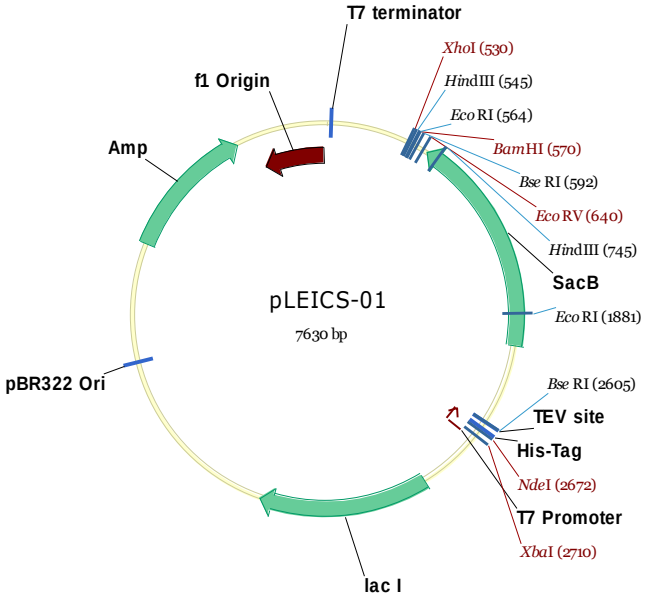
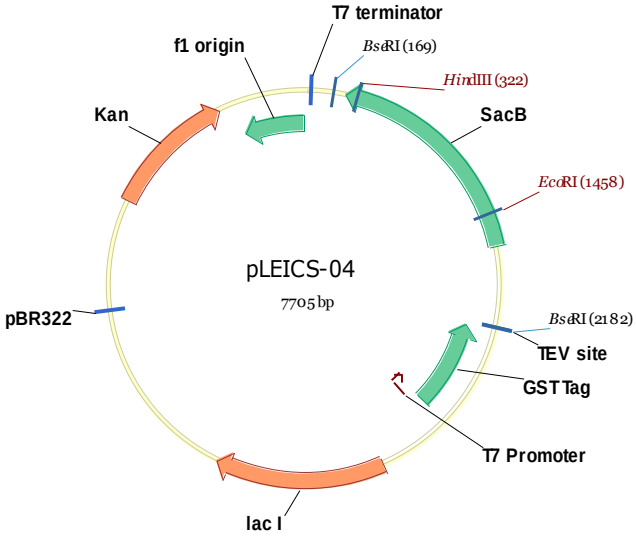
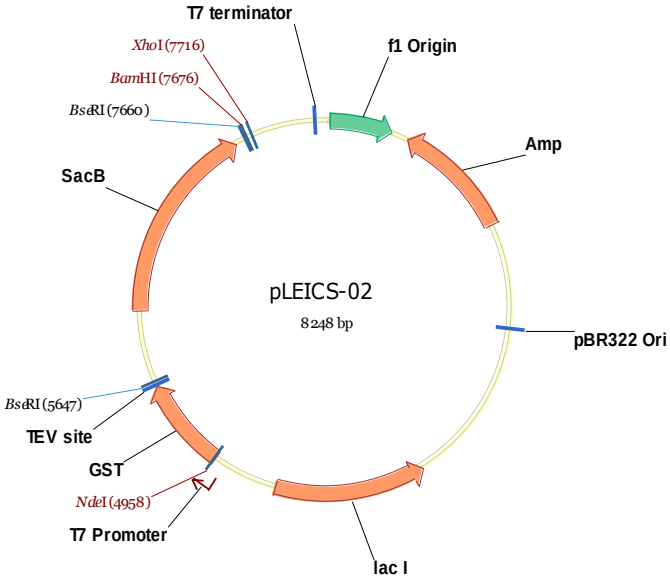
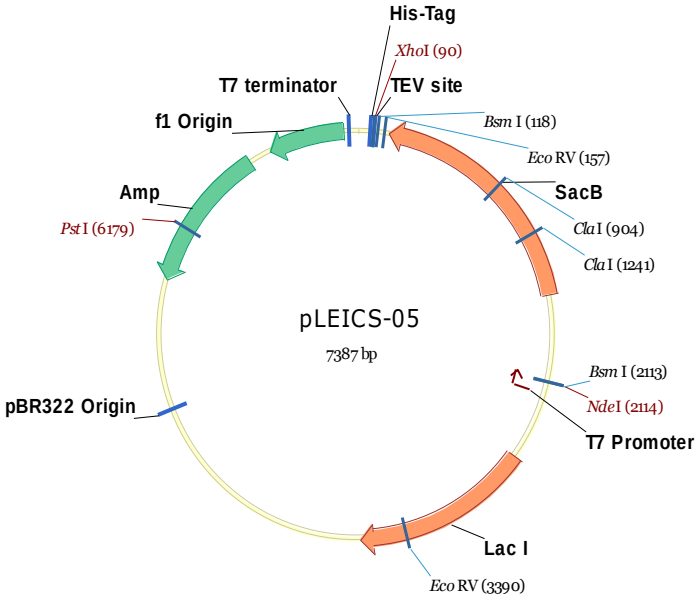
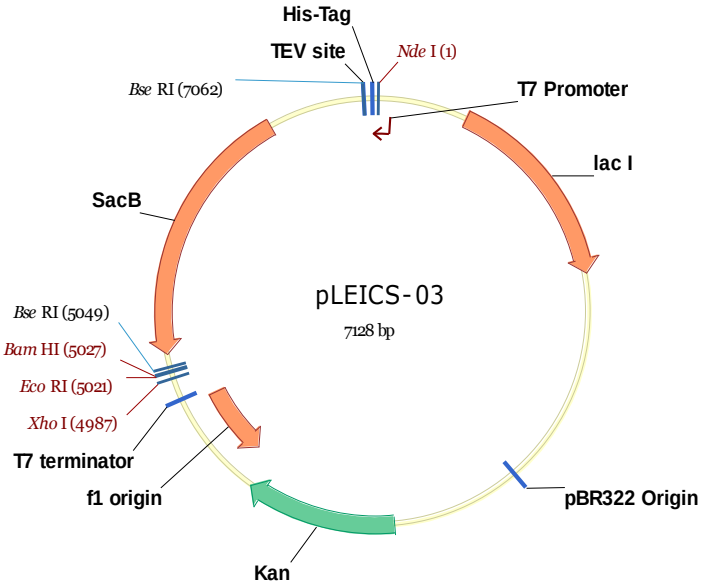
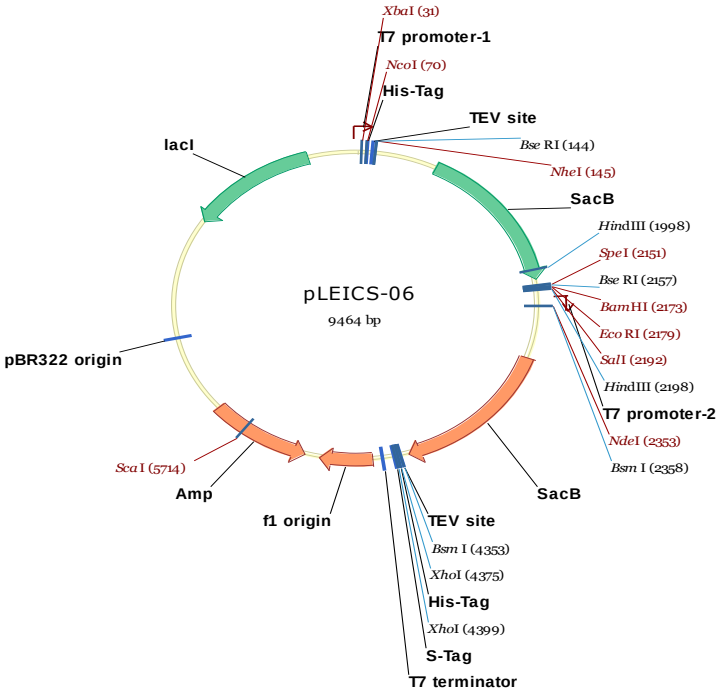

pLEICS-01
7630 bp
T7 terminator
f1 Origin
Amp
pBR322 Ori
XhoI (530)
HindIII (545)
EcoRI (564)
BamHI (570)
Bse RI (592)
EcoRV (640)
HindIII (745)
SacB
EcoRI (1881)
Bse RI (2605)
TEV site
His-Tag
NdeI (2672)
T7 Promoter
XbaI (2710)
lac I

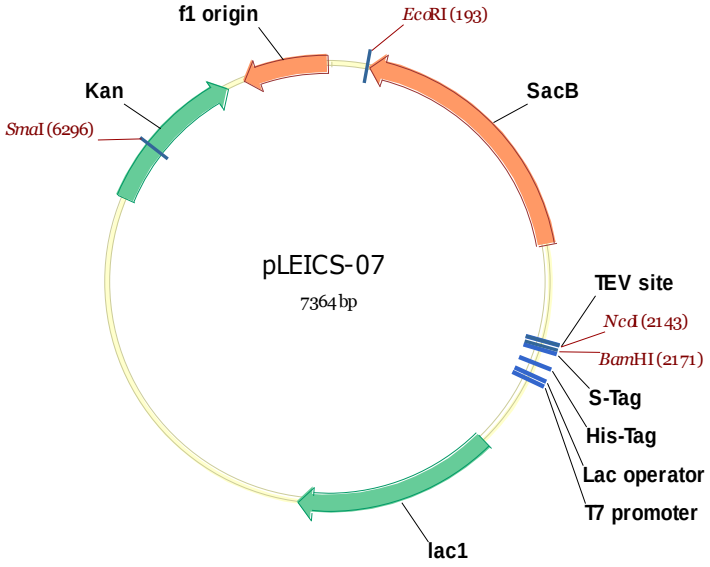

pLEICS-04
7705 bp
T7 terminator
f1 origin
BsaRI (169)
HindIII (322)
SacB
EcoRI (1458)
Kan
pBR322
BsaRI (2182)
TEV site
GST Tag
T7 Promoter
lac I

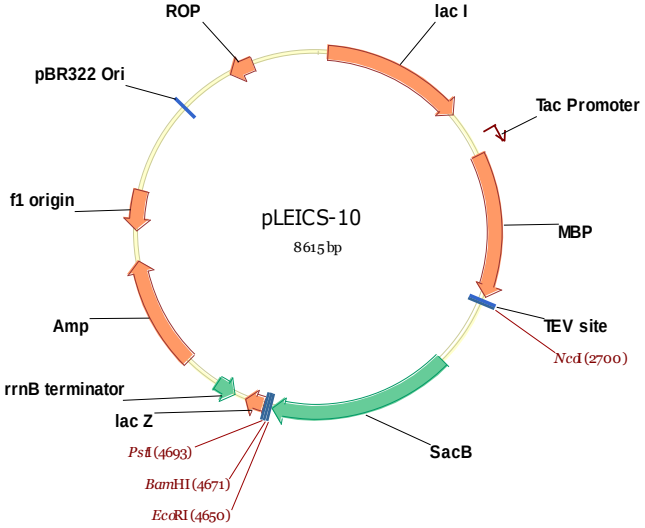

pLEICS-02
8248 bp
T7 terminator
f1 Origin
XhoI (7716)
BamHI (7676)
BsaRI (7660)
Amp
SacB
pBR322 Ori
BsaRI (5647)
TEV site
GST
NdeI (4958)
T7 Promoter
lac I

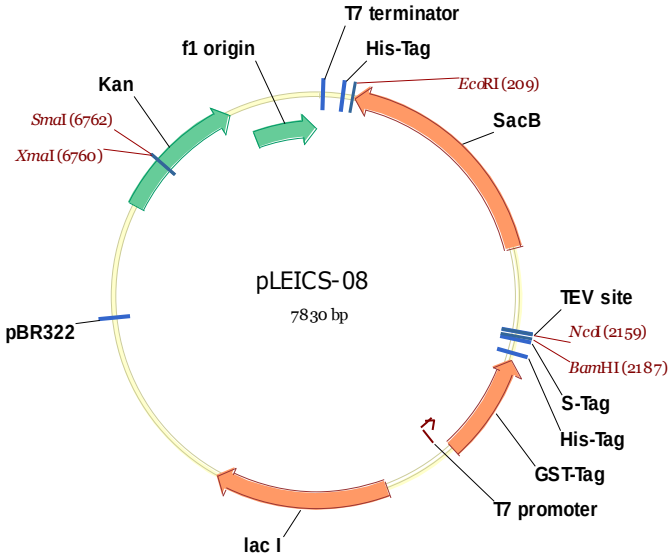

pLEICS-05
7387 bp
His-Tag
XhoI (90)
T7 terminator
TEV site
f1 Origin
Bsm I (118)
EcoRV (157)
SacB
Amp
PstI (6179)
ClaI (904)
ClaI (1241)
Bsm I (2113)
NdeI (2114)
pBR322 Origin
T7 Promoter
Lac I
EcoRV (3390)

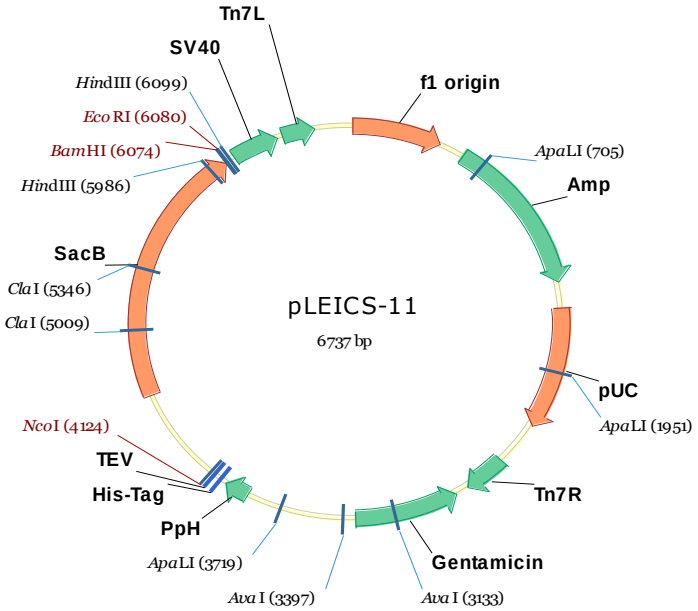

pLEICS-03
7128 bp
His-Tag
TEV site
Nde I (1)
Bse RI (7062)
T7 Promoter
lac I
SacB
Bse RI (5049)
Bam HI (5027)
Eco RI (5021)
Xho I (4987)
T7 terminator
f1 origin
pBR322 Origin
Kan

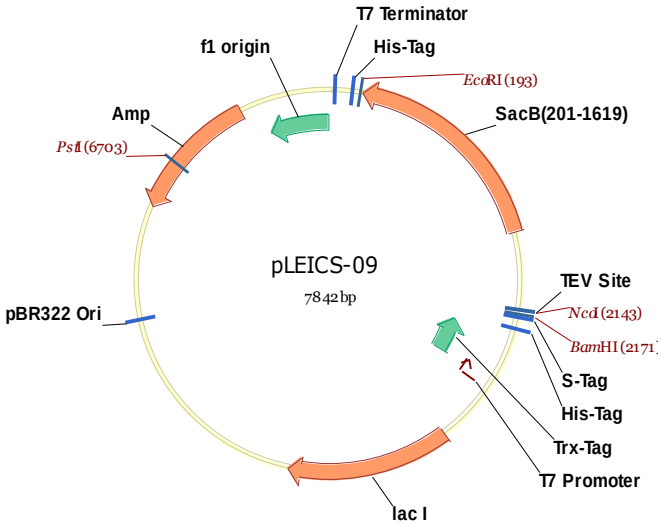

pLEICS-06
9464 bp
XbaI (31)
T7 promoter-1
NcoI (70)
His-Tag
TEV site
Bse RI (144)
NheI (145)
lacI
SacB
HindIII (1998)
SpeI (2151)
Bse RI (2157)
BamHI (2173)
EcoRI (2179)
SalI (2192)
HindIII (2198)
T7 promoter-2
NdeI (2353)
Bsm I (2358)
pBR322 origin
ScaI (5714)
Amp
f1 origin
SacB
TEV site
Bsm I (4353)
XhoI (4375)
His-Tag
XhoI (4399)
S-Tag
T7 terminator

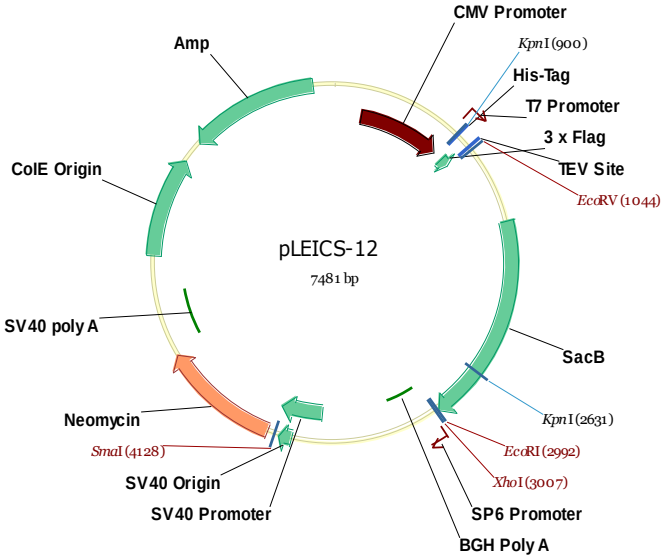

f1 origin
EcoRI (193)
Kan
SacB
SmaI (6296)
pLEICS-07
7364 bp
TEV site
NcoI (2143)
BamHI (2171)
S-Tag
His-Tag
Lac operator
T7 promoter
lac1

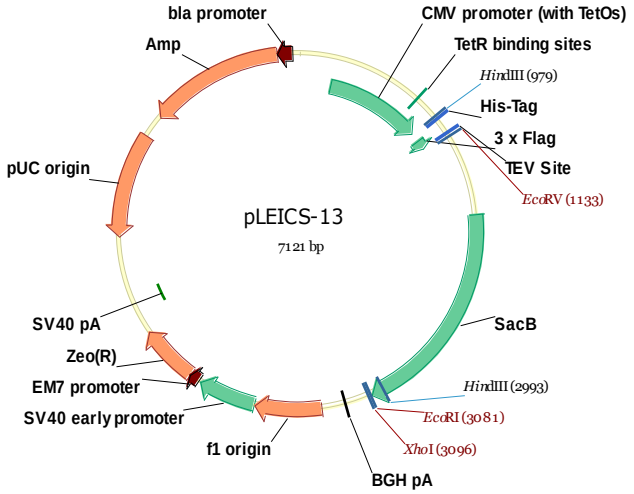

ROP
lac I
pBR322 Ori
Tac Promoter
f1 origin
pLEICS-10
8615 bp
MBP
Amp
TEV site
NcoI (2700)
rrnB terminator
lac Z
SacB
PstI (4693)
BamHI (4671)
EcoRI (4650)

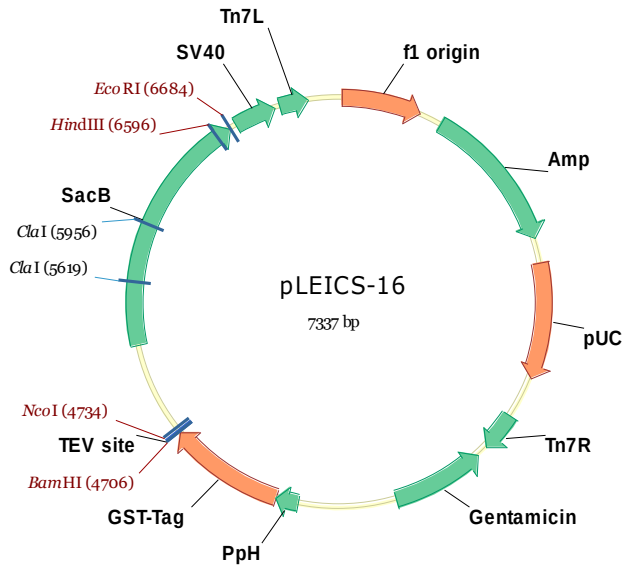

T7 terminator
f1 origin
His-Tag
Kan
EcoRI (209)
SmaI (6762)
SacB
XmaI (6760)
pLEICS-08
7830 bp
pBR322
TEV site
NcoI (2159)
BamHI (2187)
S-Tag
His-Tag
GST-Tag
T7 promoter
lac I

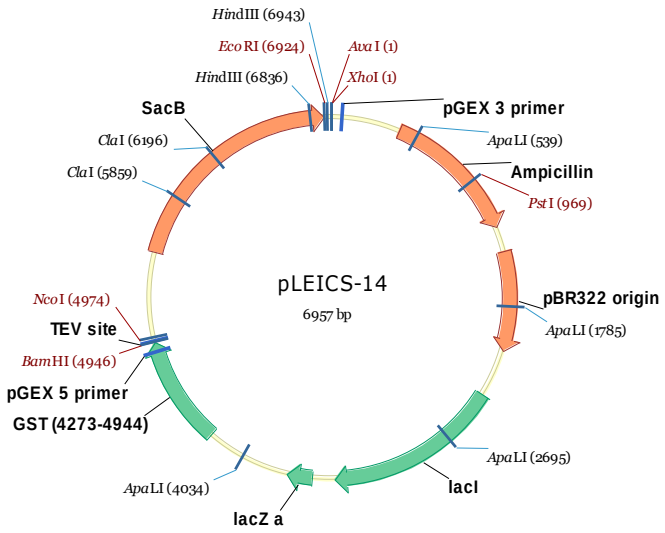

Tn7L
SV40
HindIII (6099)
f1 origin
EcoRI (6080)
BamHI (6074)
ApaLI (705)
HindIII (5986)
Amp
SacB
ClaI (5346)
ClaI (5009)
pLEICS-11
6737 bp
pUC
ApaLI (1951)
NcoI (4124)
TEV
His-Tag
Tn7R
PpH
ApaLI (3719)
Gentamicin
AvaI (3397)
AvaI (3133)

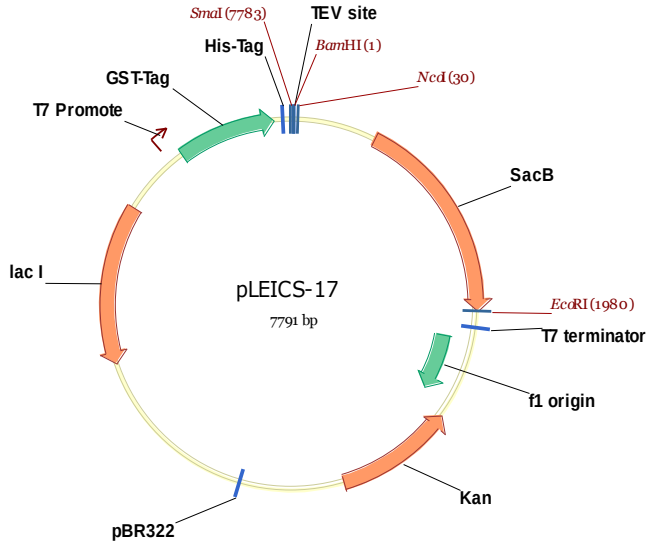

T7 Terminator
f1 origin
His-Tag
EcoRI (193)
Amp
SacB(201-1619)
PstI (6703)
pLEICS-09
7842 bp
TEV Site
pBR322 Ori
NcoI (2143)
BamHI (2171)
S-Tag
His-Tag
Trx-Tag
T7 Promoter
lac I

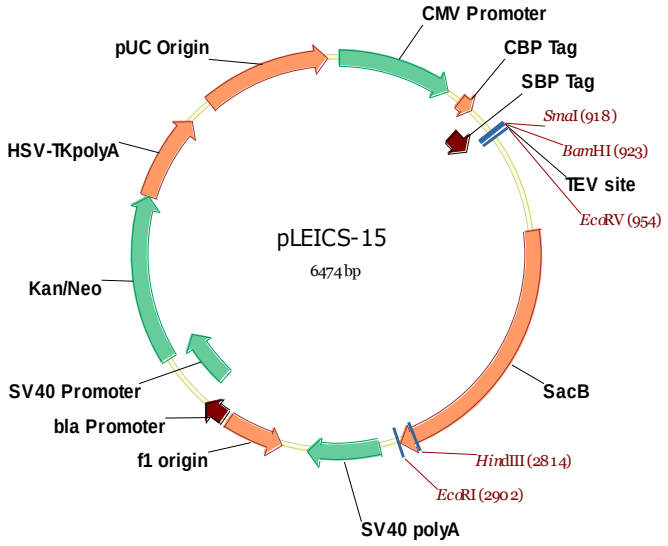

CMV Promoter
Amp
KpnI (900)
His-Tag
T7 Promoter
3 x Flag
ColE Origin
TEV Site
EcoRV (1044)
pLEICS-12
7481 bp
SV40 poly A
SacB
Neomycin
KpnI (2631)
SmaI (4128)
EcoRI (2992)
XhoI (3007)
SV40 Origin
SV40 Promoter
SP6 Promoter
BGH Poly A

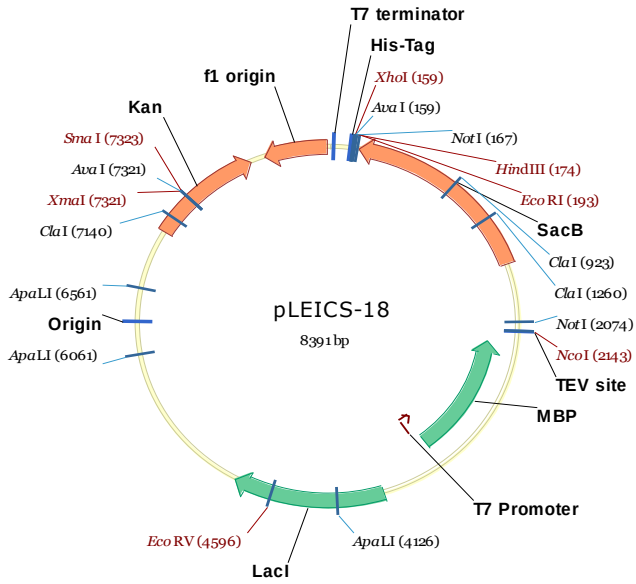

pLEICS-13
7121 bp
bla promoter
Amp
CMV promoter (with TetOs)
TetR binding sites
HindIII (979)
His-Tag
3 x Flag
TEV Site
EcoRV (1133)
pUC origin
SV40 pA
Zeo(R)
EM7 promoter
SV40 early promoter
f1 origin
SacB
HindIII (2993)
EcoRI (3081)
XhoI (3096)
BGH pA

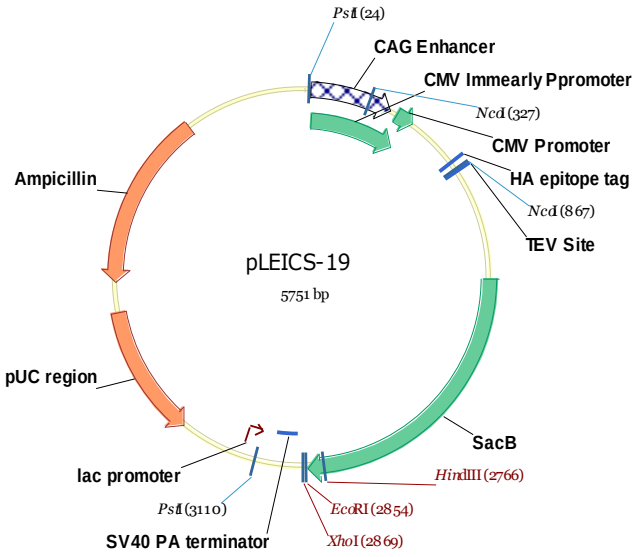

pLEICS-16
7337 bp
Tn7L
SV40
f1 origin
EcoRI (6684)
HindIII (6596)
Amp
SacB
ClaI (5956)
ClaI (5619)
pUC
NcoI (4734)
TEV site
BamHI (4706)
GST-Tag
PpH
Tn7R
Gentamicin

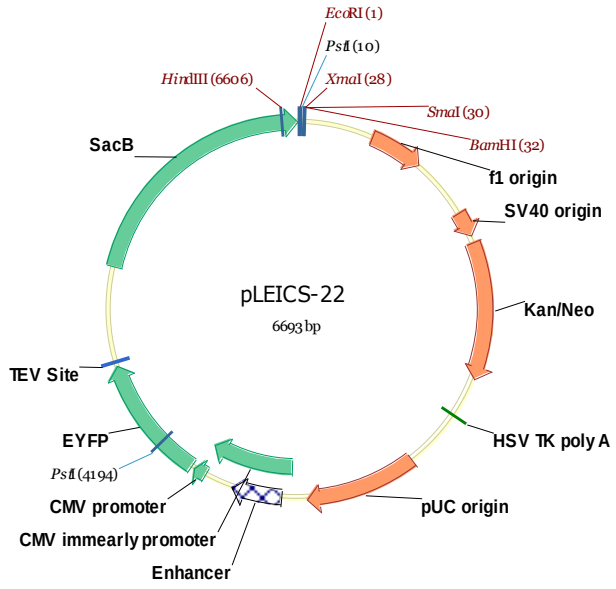

pLEICS-14
6957 bp
HindIII (6943)
EcoRI (6924)
AvaI (1)
HindIII (6836)
XhoI (1)
SacB
pGEX 3 primer
ClaI (6196)
ApaLI (539)
ClaI (5859)
Ampicillin
PstI (969)
pBR322 origin
ApaLI (1785)
NcoI (4974)
TEV site
BamHI (4946)
pGEX 5 primer
GST (4273-4944)
ApaLI (2695)
ApaLI (4034)
lacI
lacZ a

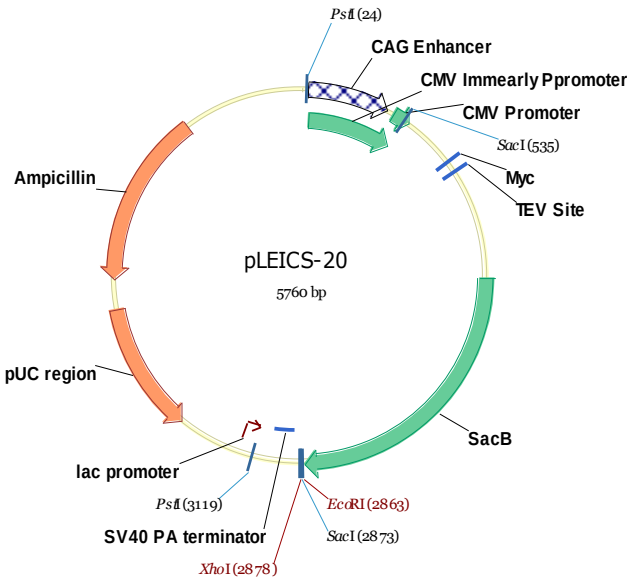

pLEICS-17
7791 bp
SmaI (7783)
TEV site
His-Tag
BamHI (1)
GST-Tag
NcoI (30)
T7 Promote
SacB
lac I
EcoRI (1980)
T7 terminator
f1 origin
Kan
pBR322

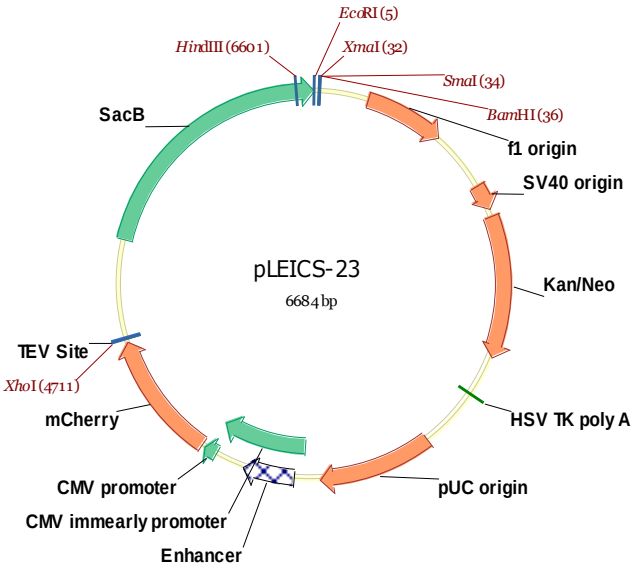

pLEICS-15
6474 bp
CMV Promoter
pUC Origin
CBP Tag
SBP Tag
SmaI (918)
HSV-TKpolyA
BamHI (923)
TEV site
EcoRV (954)
Kan/Neo
SV40 Promoter
SacB
bla Promoter
f1 origin
HindIII (2814)
EcoRI (2902)
SV40 polyA

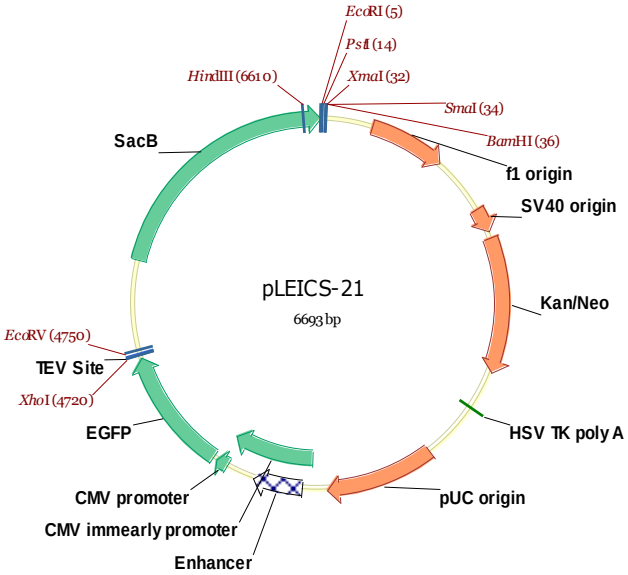

pLEICS-18
8391 bp
T7 terminator
His-Tag
f1 origin
XhoI (159)
AvaI (159)
Kan
NotI (167)
SmaI (7323)
HindIII (174)
AvaI (7321)
EcoRI (193)
XmaI (7321)
SacB
ClaI (7140)
ClaI (923)
ClaI (1260)
ApaLI (6561)
Origin
NotI (2074)
ApaLI (6061)
NcoI (2143)
TEV site
MBP
T7 Promoter
EcoRV (4596)
ApaLI (4126)
LacI

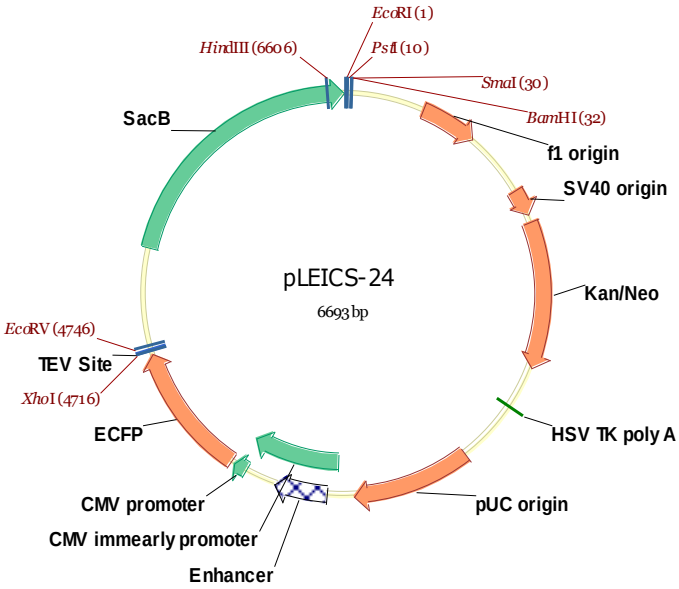

PstI (24)
CAG Enhancer
CMV Immearly Ppromoter
NcoI (327)
CMV Promoter
HA epitope tag
NcoI (867)
TEV Site
Ampicillin
pLEICS-19
5751 bp
pUC region
SacB
lac promoter
HindIII (2766)
PstI (3110)
EcoRI (2854)
SV40 PA terminator
XhoI (2869)

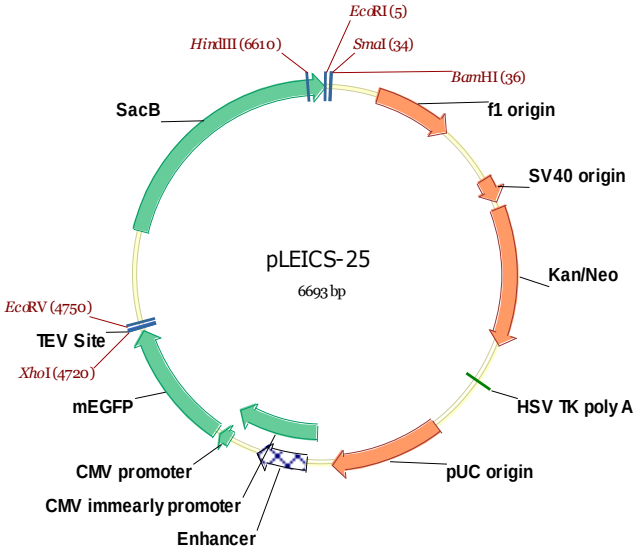

EcoRI (1)
PstI (10)
HindIII (6606)
XmaI (28)
SmaI (30)
BamHI (32)
SacB
f1 origin
SV40 origin
pLEICS-22
6693 bp
Kan/Neo
TEV Site
HSV TK poly A
EYFP
PstI (4194)
pUC origin
CMV promoter
CMV immearly promoter
Enhancer

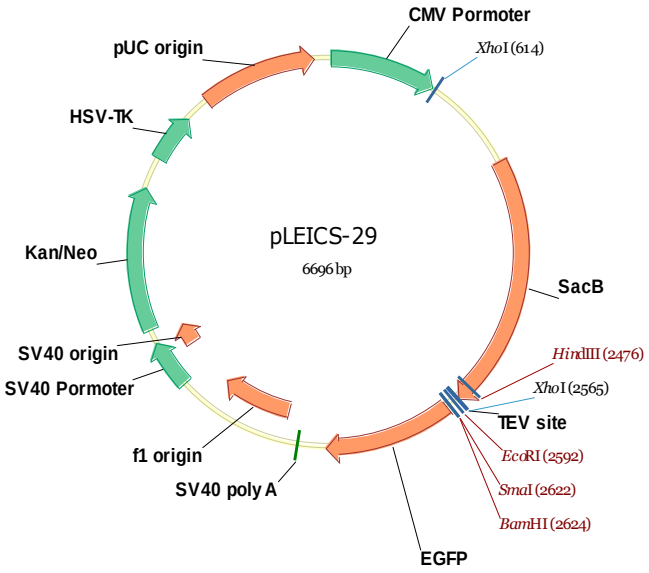

PstI (24)
CAG Enhancer
CMV Immearly Ppromoter
CMV Promoter
SacI (535)
Myc
TEV Site
Ampicillin
pLEICS-20
5760 bp
pUC region
SacB
lac promoter
PstI (3119)
EcoRI (2863)
SV40 PA terminator
SacI (2873)
XhoI (2878)

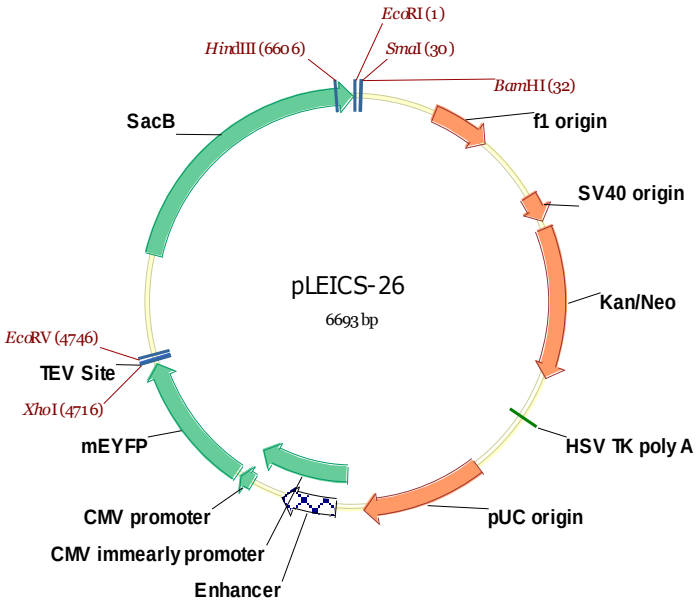

EcoRI (5)
HindIII (6601)
XmaI (32)
SmaI (34)
BamHI (36)
SacB
f1 origin
SV40 origin
pLEICS-23
6684 bp
Kan/Neo
TEV Site
XhoI (4711)
mCherry
HSV TK poly A
CMV promoter
pUC origin
CMV immearly promoter
Enhancer

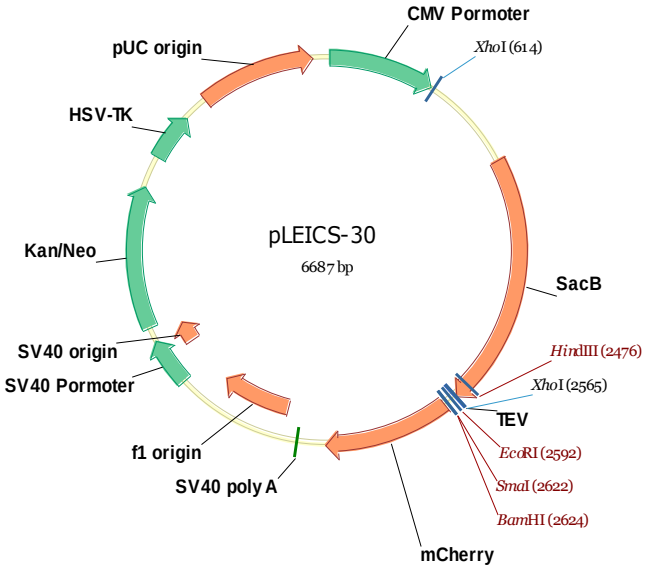

EcoRI (5)
PstI (14)
HindIII (6610)
XmaI (32)
SmaI (34)
SacB
BamHI (36)
f1 origin
SV40 origin
pLEICS-21
6693 bp
Kan/Neo
EcoRV (4750)
TEV Site
XhoI (4720)
EGFP
HSV TK poly A
CMV promoter
pUC origin
CMV immearly promoter
Enhancer

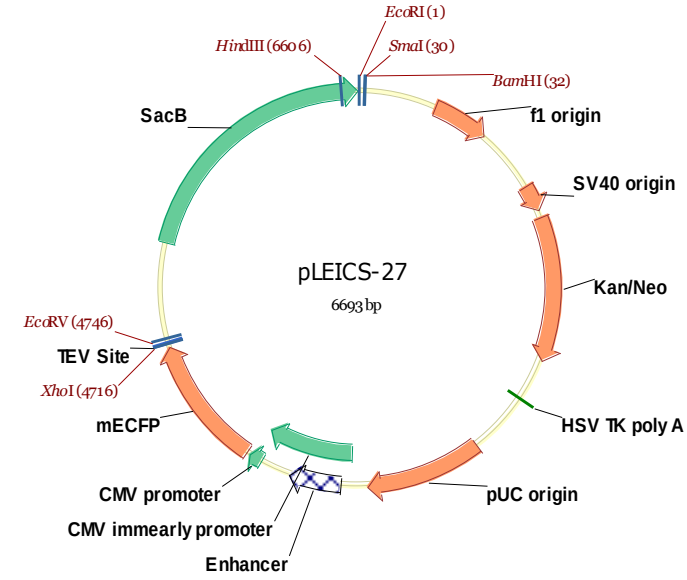

EcoRI (1)
HindIII (6606)
PstI (10)
SmaI (30)
SacB
BamHI (32)
f1 origin
SV40 origin
pLEICS-24
6693 bp
Kan/Neo
EcoRV (4746)
TEV Site
XhoI (4716)
ECFP
HSV TK poly A
CMV promoter
pUC origin
CMV immearly promoter
Enhancer

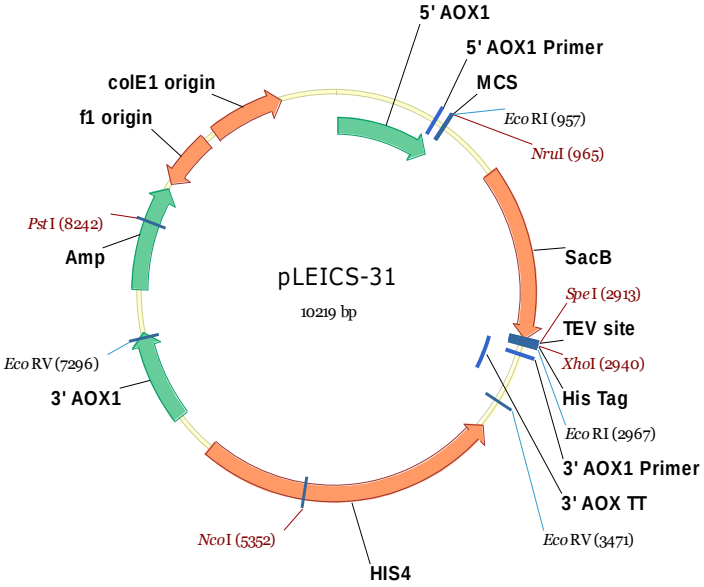

pLEICS-25
6693 bp
EcoRI (5)
HindIII (6610)
SmaI (34)
BamHI (36)
SacB
f1 origin
SV40 origin
Kan/Neo
HSV TK poly A
pUC origin
EcoRV (4750)
TEV Site
XhoI (4720)
mEGFP
CMV promoter
CMV immearly promoter
Enhancer

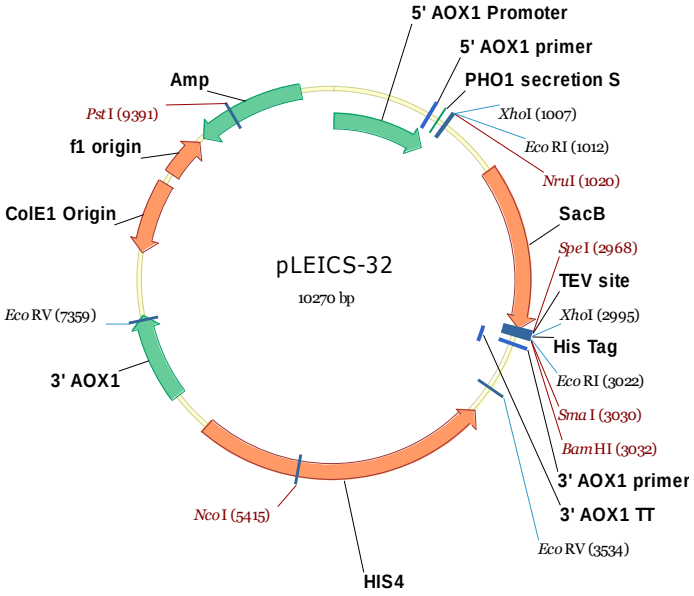

pLEICS-29
6696 bp
CMV Pormoter
XhoI (614)
pUC origin
HSV-TK
Kan/Neo
SacB
SV40 origin
SV40 Pormoter
HindIII (2476)
XhoI (2565)
TEV site
f1 origin
EcoRI (2592)
SV40 poly A
SmaI (2622)
BamHI (2624)
EGFP

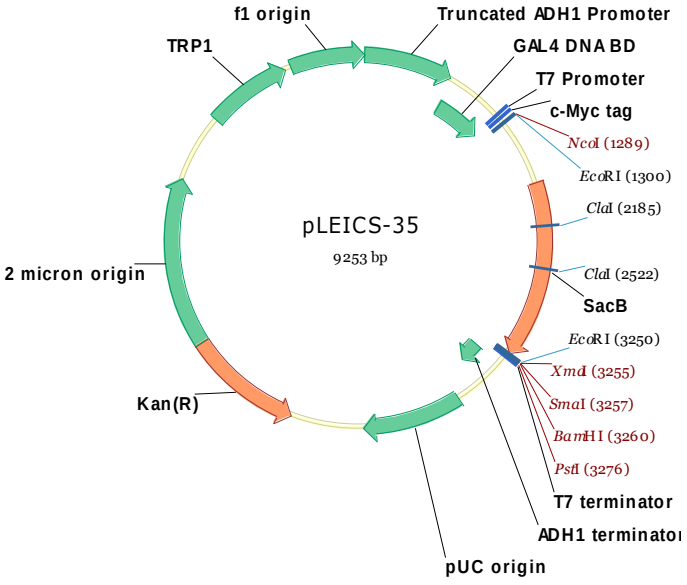

pLEICS-26
6693 bp
EcoRI (1)
HindIII (6606)
SmaI (30)
BamHI (32)
SacB
f1 origin
SV40 origin
Kan/Neo
HSV TK poly A
pUC origin
EcoRV (4746)
TEV Site
XhoI (4716)
mEYFP
CMV promoter
CMV immearly promoter
Enhancer

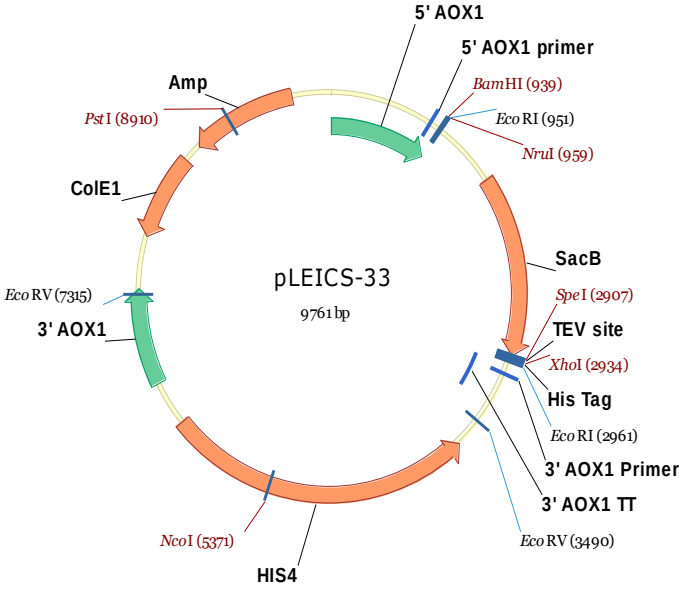

pLEICS-30
6687 bp
CMV Pormoter
XhoI (614)
pUC origin
HSV-TK
Kan/Neo
SacB
SV40 origin
SV40 Pormoter
HindIII (2476)
XhoI (2565)
TEV
f1 origin
EcoRI (2592)
SV40 poly A
SmaI (2622)
BamHI (2624)
mCherry

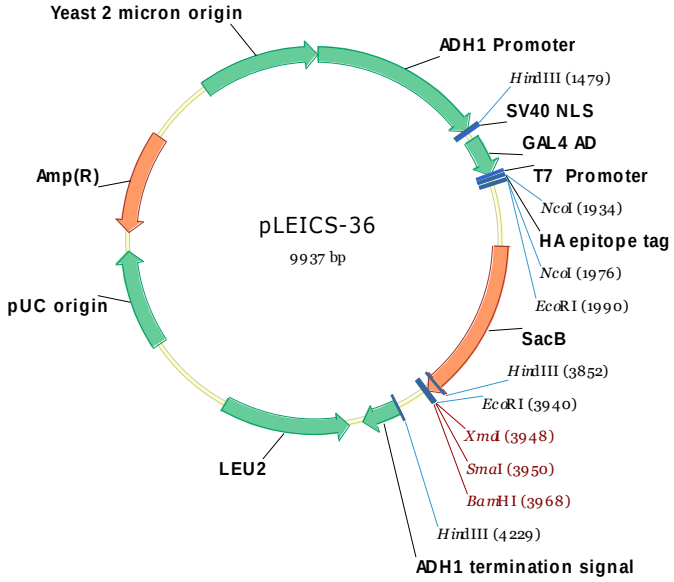

pLEICS-27
6693 bp
EcoRI (1)
HindIII (6606)
SmaI (30)
BamHI (32)
SacB
f1 origin
SV40 origin
Kan/Neo
HSV TK poly A
pUC origin
EcoRV (4746)
TEV Site
XhoI (4716)
mECFP
CMV promoter
CMV immearly promoter
Enhancer

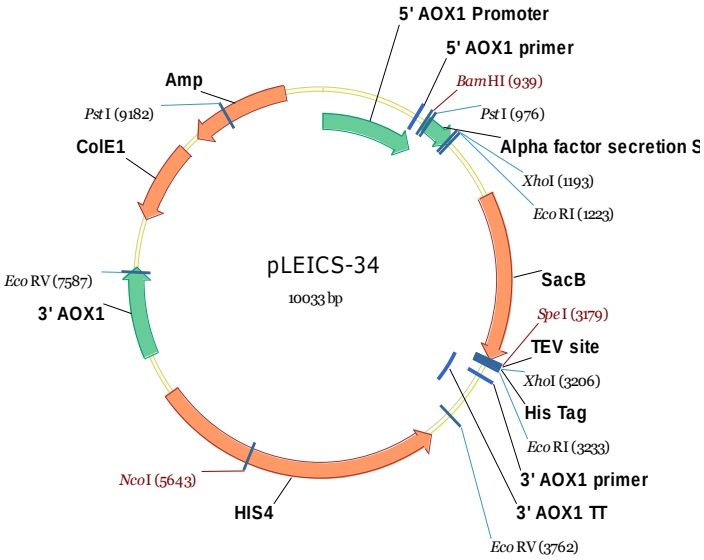

pLEICS-31
10219 bp
5' AOX1
5' AOX1 Primer
colE1 origin
MCS
f1 origin
Eco RI (957)
NruI (965)
PstI (8242)
Amp
SacB
SpeI (2913)
TEV site
XhoI (2940)
Eco RV (7296)
3' AOX1
His Tag
Eco RI (2967)
3' AOX1 Primer
3' AOX TT
NcoI (5352)
Eco RV (3471)
HIS4

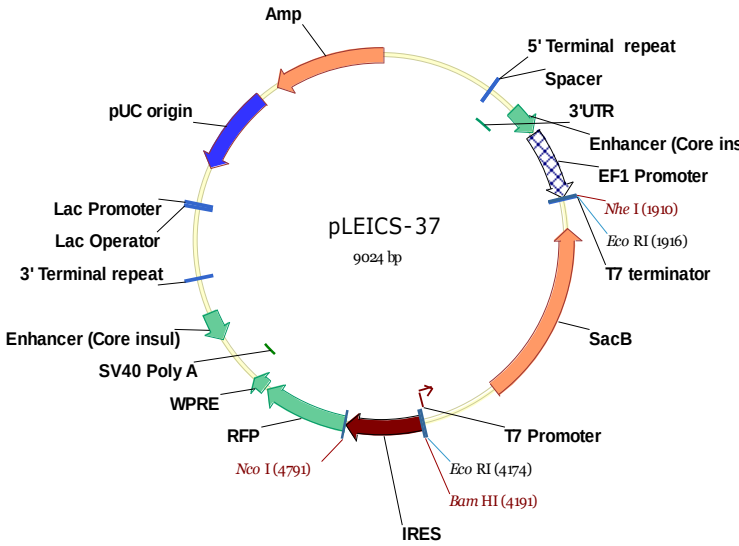

pLEICS-32
10270 bp
5' AOX1 Promoter
5' AOX1 primer
PHO1 secretion S
XhoI (1007)
EcoRI (1012)
NruI (1020)
SacB
SpeI (2968)
TEV site
XhoI (2995)
His Tag
EcoRI (3022)
SmaI (3030)
BamHI (3032)
3' AOX1 primer
3' AOX1 TT
EcoRV (3534)
HIS4
NcoI (5415)
3' AOX1
EcoRV (7359)
ColE1 Origin
f1 origin
PstI (9391)
Amp

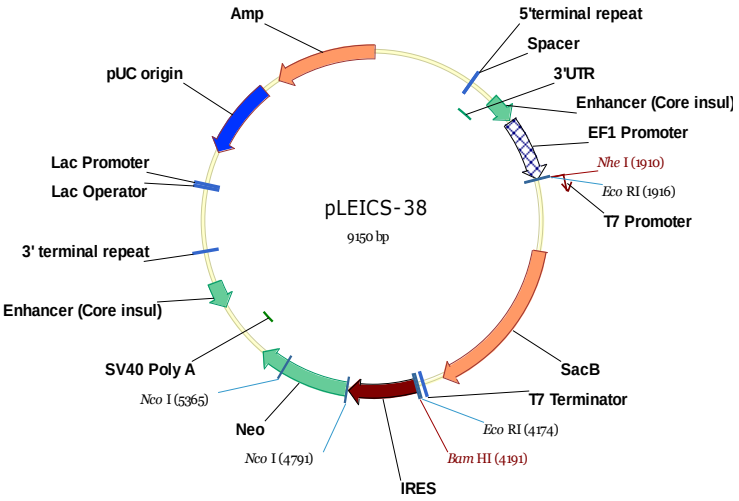

pLEICS-35
9253 bp
f1 origin
Truncated ADH1 Promoter
TRP1
GAL4 DNA BD
T7 Promoter
c-Myc tag
NcoI (1289)
EcoRI (1300)
ClaI (2185)
ClaI (2522)
SacB
EcoRI (3250)
XmaI (3255)
SmaI (3257)
BamHI (3260)
PstI (3276)
T7 terminator
ADH1 terminator
pUC origin
Kan(R)
2 micron origin

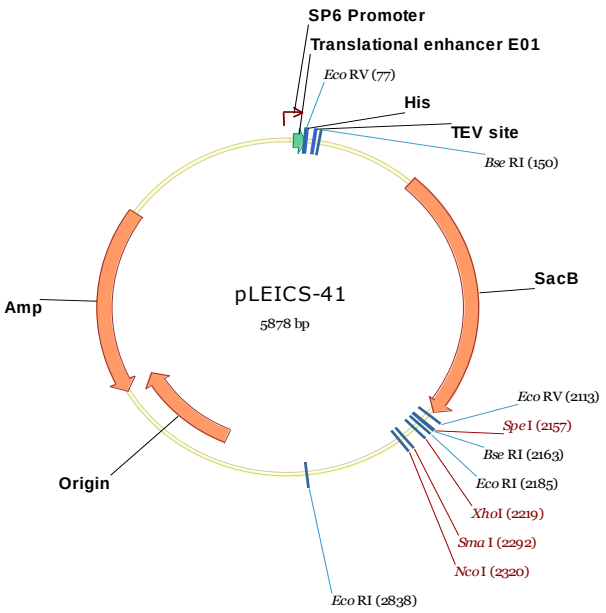

pLEICS-33
9761 bp
5' AOX1
5' AOX1 primer
BamHI (939)
EcoRI (951)
NruI (959)
SacB
SpeI (2907)
TEV site
XhoI (2934)
His Tag
EcoRI (2961)
3' AOX1 Primer
3' AOX1 TT
EcoRV (3490)
HIS4
NcoI (5371)
3' AOX1
EcoRV (7315)
ColE1
PstI (8910)
Amp

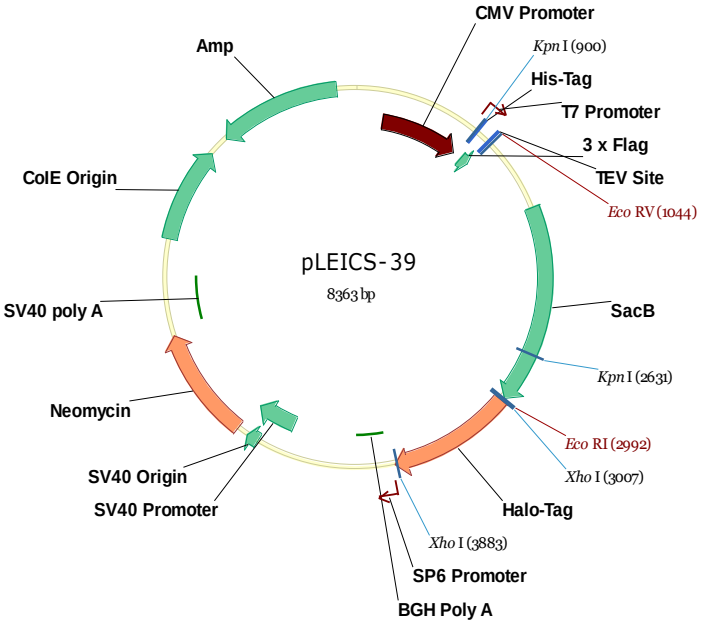

pLEICS-36
9937 bp
Yeast 2 micron origin
ADH1 Promoter
HindIII (1479)
SV40 NLS
GAL4 AD
T7 Promoter
NcoI (1934)
HA epitope tag
NcoI (1976)
EcoRI (1990)
SacB
HindIII (3852)
EcoRI (3940)
XmaI (3948)
SmaI (3950)
BamHI (3968)
HindIII (4229)
ADH1 termination signal
LEU2
pUC origin
Amp(R)

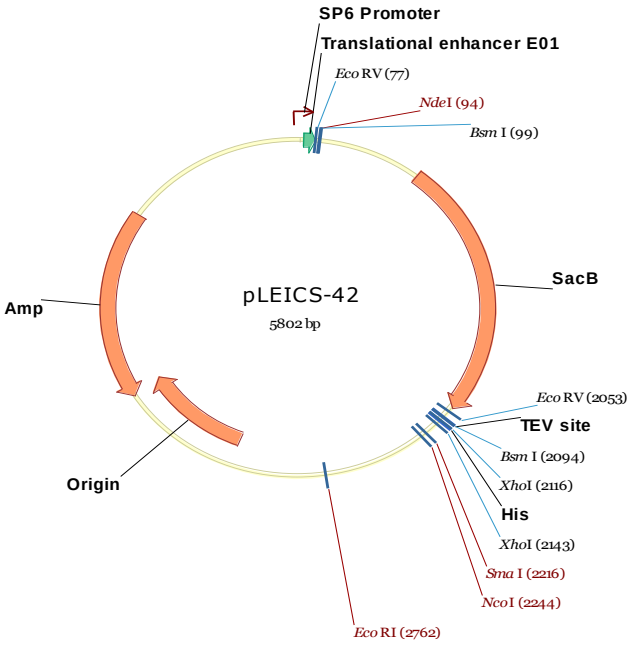

pLEICS-34
10033 bp
5' AOX1 Promoter
5' AOX1 primer
BamHI (939)
PstI (976)
Alpha factor secretion S
XhoI (1193)
EcoRI (1223)
SacB
SpeI (3179)
TEV site
XhoI (3206)
His Tag
EcoRI (3233)
3' AOX1 primer
3' AOX1 TT
EcoRV (3762)
HIS4
NcoI (5643)
3' AOX1
EcoRV (7587)
ColE1
PstI (9182)
Amp

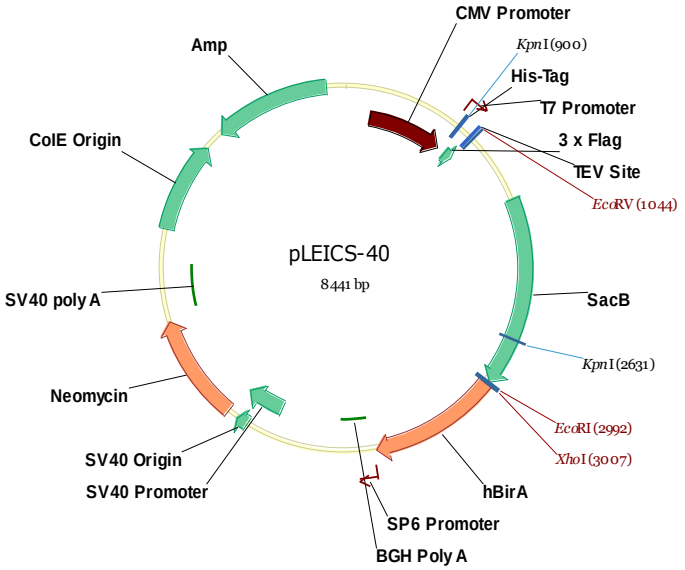

pLEICS-37
9024 bp
Amp
5' Terminal repeat
Spacer
3'UTR
Enhancer (Core ins
EF1 Promoter
NheI (1910)
EcoRI (1916)
T7 terminator
SacB
T7 Promoter
EcoRI (4174)
BamHI (4191)
IRES
NcoI (4791)
RFP
WPRE
SV40 Poly A
Enhancer (Core insul)
3' Terminal repeat
Lac Operator
Lac Promoter
pUC origin

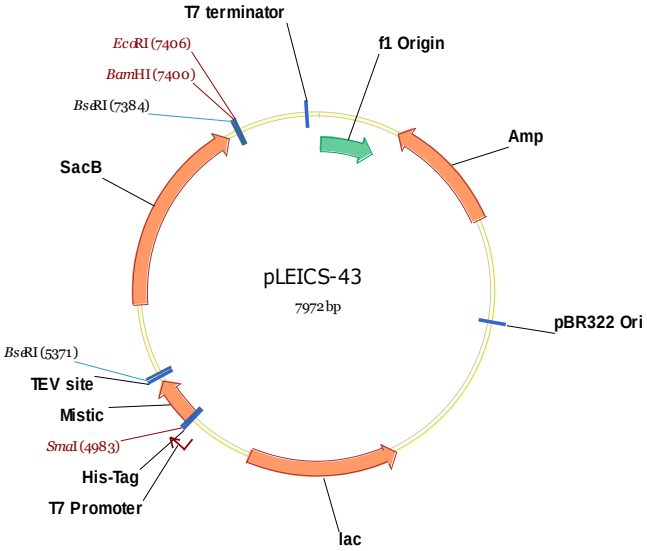

pLEICS-38
9150 bp
Amp
5'terminal repeat
Spacer
3'UTR
Enhancer (Core insul)
EF1 Promoter
Nhe I (1910)
Eco RI (1916)
T7 Promoter
pUC origin
Lac Promoter
Lac Operator
3' terminal repeat
Enhancer (Core insul)
SV40 Poly A
Nco I (5365)
Neo
Nco I (4791)
IRES
Bam HI (4191)
Eco RI (4174)
T7 Terminator
SacB

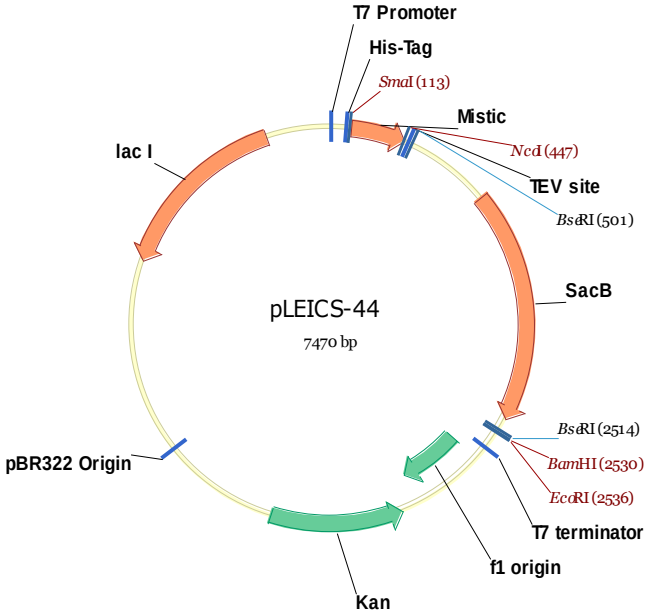

pLEICS-41
5878 bp
SP6 Promoter
Translational enhancer E01
Eco RV (77)
His
TEV site
Bse RI (150)
SacB
Amp
Origin
Eco RV (2113)
Spe I (2157)
Bse RI (2163)
Eco RI (2185)
Xho I (2219)
Sma I (2292)
Nco I (2320)
Eco RI (2838)

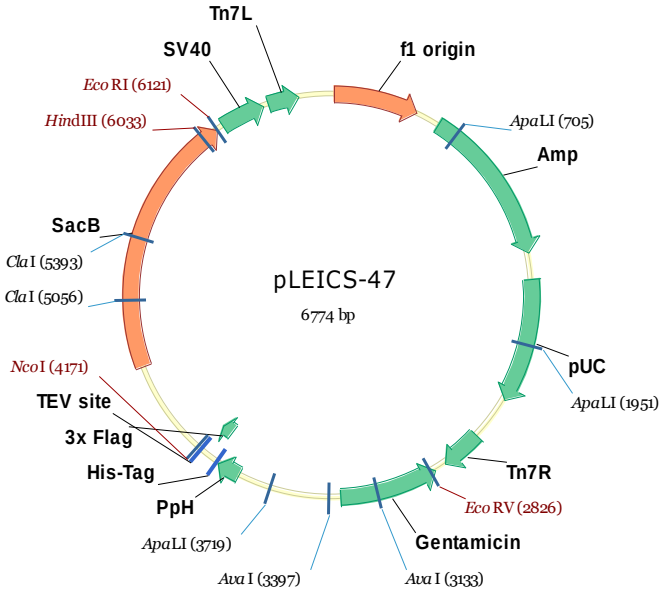

pLEICS-39
8363 bp
CMV Promoter
Kpn I (900)
His-Tag
T7 Promoter
3 x Flag
TEV Site
Eco RV (1044)
Amp
ColE Origin
SV40 poly A
SacB
Kpn I (2631)
Neomycin
Eco RI (2992)
Xho I (3007)
SV40 Origin
SV40 Promoter
Halo-Tag
Xho I (3883)
SP6 Promoter
BGH Poly A

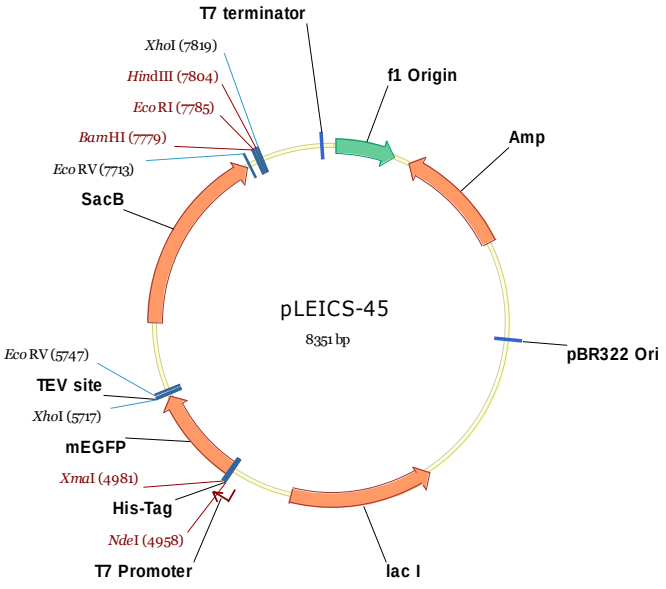

pLEICS-42
5802 bp
SP6 Promoter
Translational enhancer E01
Eco RV (77)
Nde I (94)
Bsm I (99)
SacB
Amp
Origin
Eco RV (2053)
TEV site
Bsm I (2094)
Xho I (2116)
His
Xho I (2143)
Sma I (2216)
Nco I (2244)
Eco RI (2762)

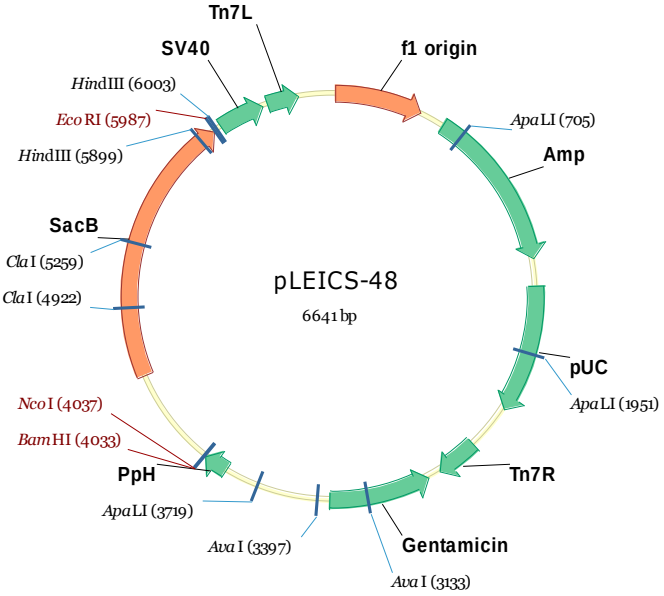

pLEICS-40
8441 bp
CMV Promoter
Kpn I (900)
His-Tag
T7 Promoter
3 x Flag
TEV Site
EcoRV (1044)
Amp
ColE Origin
SV40 poly A
SacB
Kpn I (2631)
Neomycin
EcoRI (2992)
Xho I (3007)
SV40 Origin
SV40 Promoter
hBirA
SP6 Promoter
BGH Poly A

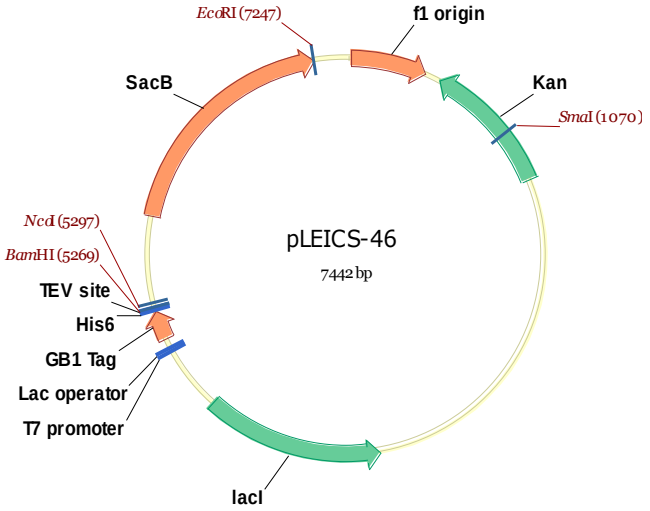

pLEICS-43
7972 bp
T7 terminator
f1 Origin
EcoRI (7406)
BamHI (7400)
BsdRI (7384)
Amp
SacB
pBR322 Ori
BsdRI (5371)
TEV site
Mistic
SmaI (4983)
His-Tag
T7 Promoter
lac

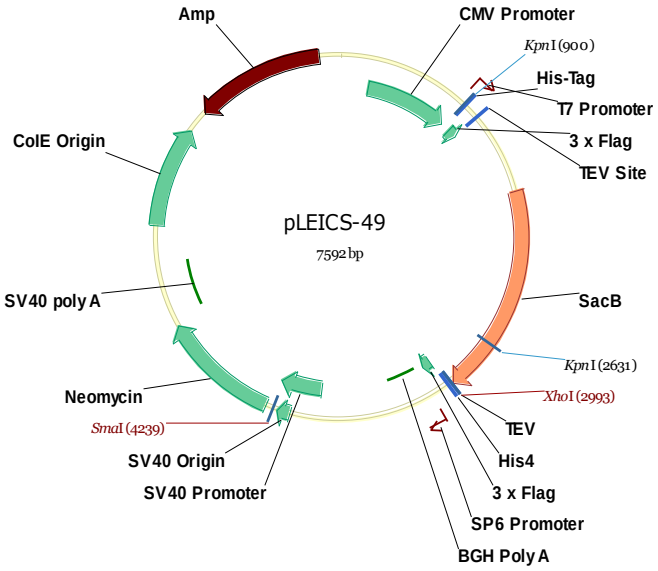

T7 Promoter
His-Tag
SmaI (113)
Mistic
NcoI (447)
TEV site
BsaRI (501)
lac I
SacB
pLEICS-44
7470 bp
BsaRI (2514)
BamHI (2530)
EcoRI (2536)
pBR322 Origin
T7 terminator
f1 origin
Kan

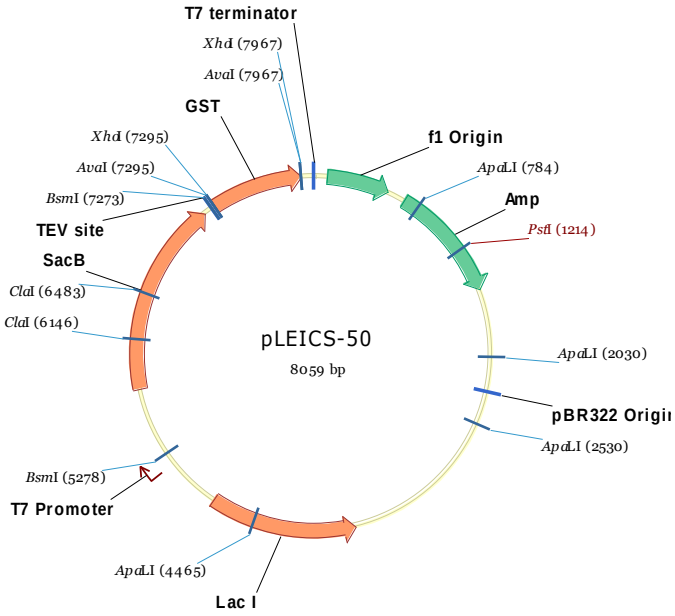

Tn7L
SV40
f1 origin
EcoRI (6121)
HindIII (6033)
ApaLI (705)
Amp
SacB
ClaI (5393)
ClaI (5056)
pLEICS-47
6774 bp
pUC
ApaLI (1951)
NcoI (4171)
TEV site
3x Flag
His-Tag
PpH
Tn7R
EcoRV (2826)
ApaLI (3719)
Gentamicin
AvaI (3397)
AvaI (3133)

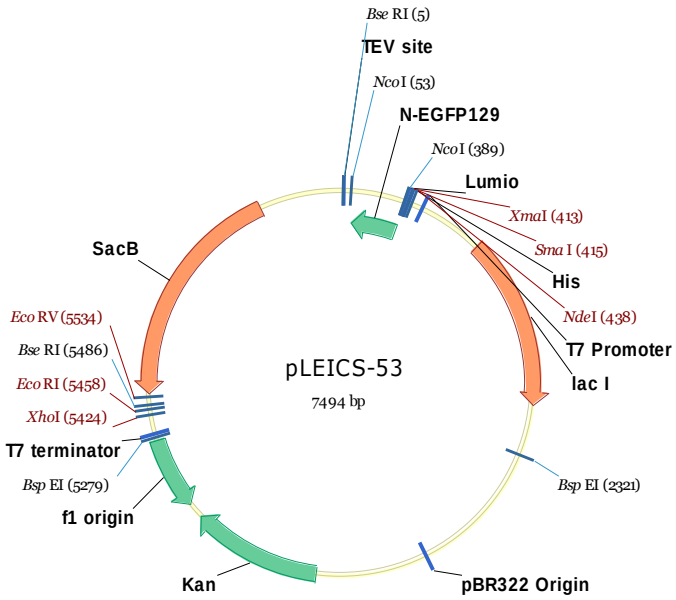

T7 terminator
XhoI (7819)
HindIII (7804)
EcoRI (7785)
BamHI (7779)
EcoRV (7713)
f1 Origin
Amp
SacB
pLEICS-45
8351 bp
pBR322 Ori
EcoRV (5747)
TEV site
XhoI (5717)
mEGFP
XmaI (4981)
His-Tag
NdeI (4958)
T7 Promoter
lac I

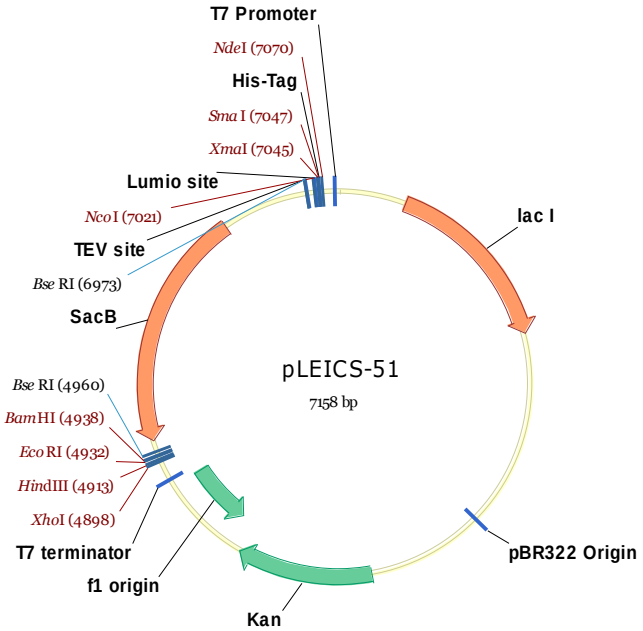

Tn7L
SV40
f1 origin
HindIII (6003)
EcoRI (5987)
ApaLI (705)
HindIII (5899)
Amp
SacB
ClaI (5259)
ClaI (4922)
pLEICS-48
6641 bp
pUC
ApaLI (1951)
NcoI (4037)
BamHI (4033)
PpH
Tn7R
ApaLI (3719)
AvaI (3397)
Gentamicin
AvaI (3133)

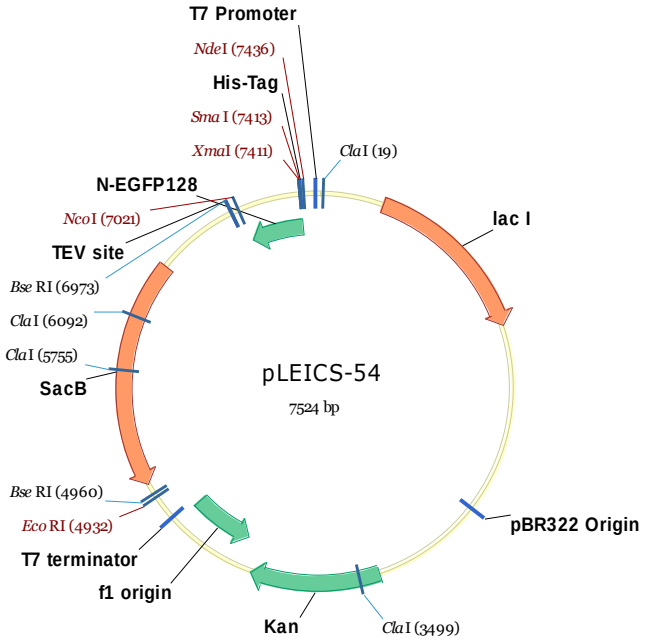

EcoRI (7247)
f1 origin
SacB
Kan
SmaI (1070)
NcoI (5297)
BamHI (5269)
pLEICS-46
7442 bp
TEV site
His6
GB1 Tag
Lac operator
T7 promoter
lacI

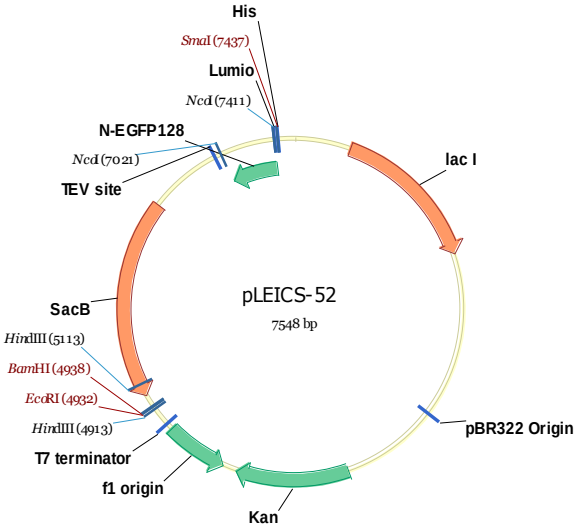

Amp
CMV Promoter
KpnI (900)
His-Tag
T7 Promoter
3 x Flag
TEV Site
ColE Origin
pLEICS-49
7592 bp
SV40 poly A
SacB
KpnI (2631)
XhoI (2993)
Neomycin
SmaI (4239)
TEV
His4
SV40 Origin
3 x Flag
SV40 Promoter
SP6 Promoter
BGH Poly A

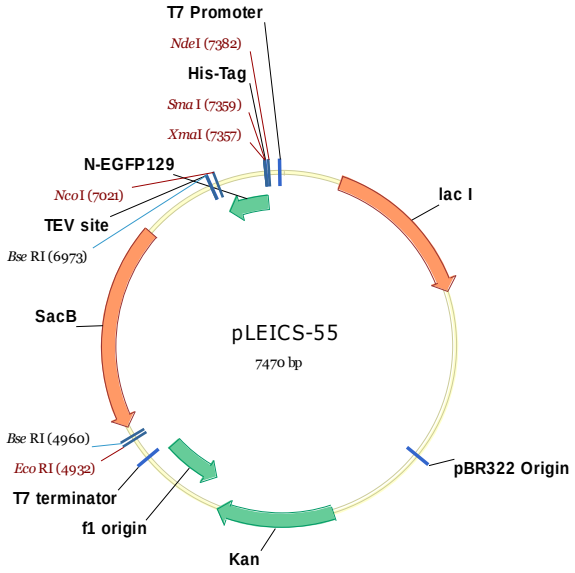

T7 terminator
XhoI (7967)
AvaI (7967)
GST
XhoI (7295)
AvaI (7295)
BsmI (7273)
TEV site
SacB
ClaI (6483)
ClaI (6146)
f1 Origin
ApaLI (784)
Amp
PstI (1214)
pLEICS-50
8059 bp
ApaLI (2030)
pBR322 Origin
ApaLI (2530)
BsmI (5278)
T7 Promoter
ApaLI (4465)
Lac I

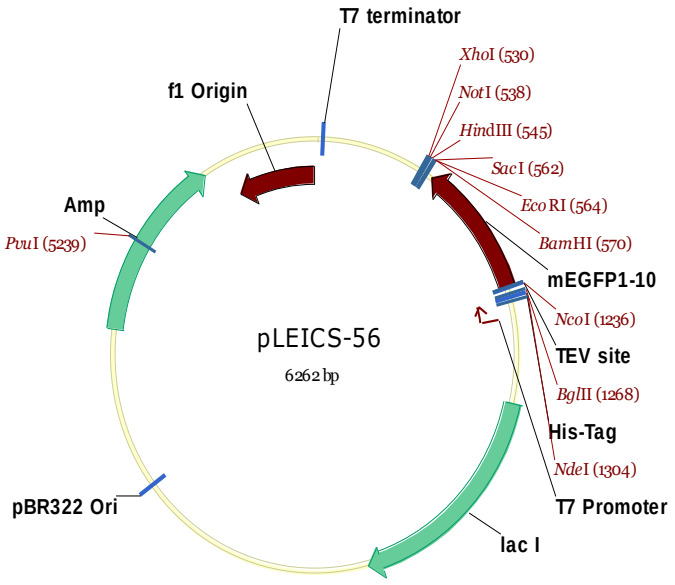

BseRI (5)
TEV site
NcoI (53)
N-EGFP129
NcoI (389)
Lumio
XmaI (413)
SmaI (415)
His
NdeI (438)
T7 Promoter
lac I
SacB
EcoRV (5534)
BseRI (5486)
EcoRI (5458)
XhoI (5424)
T7 terminator
BspEI (5279)
f1 origin
pLEICS-53
7494 bp
BspEI (2321)
Kan
pBR322 Origin

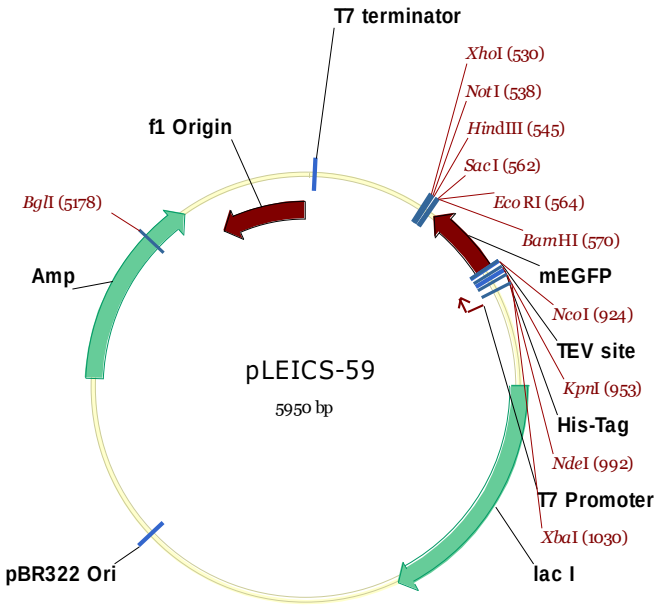

T7 Promoter
NdeI (7070)
His-Tag
SmaI (7047)
XmaI (7045)
Lumio site
NcoI (7021)
TEV site
BseRI (6973)
SacB
lac I
pLEICS-51
7158 bp
BseRI (4960)
BamHI (4938)
EcoRI (4932)
HindIII (4913)
XhoI (4898)
T7 terminator
f1 origin
Kan
pBR322 Origin

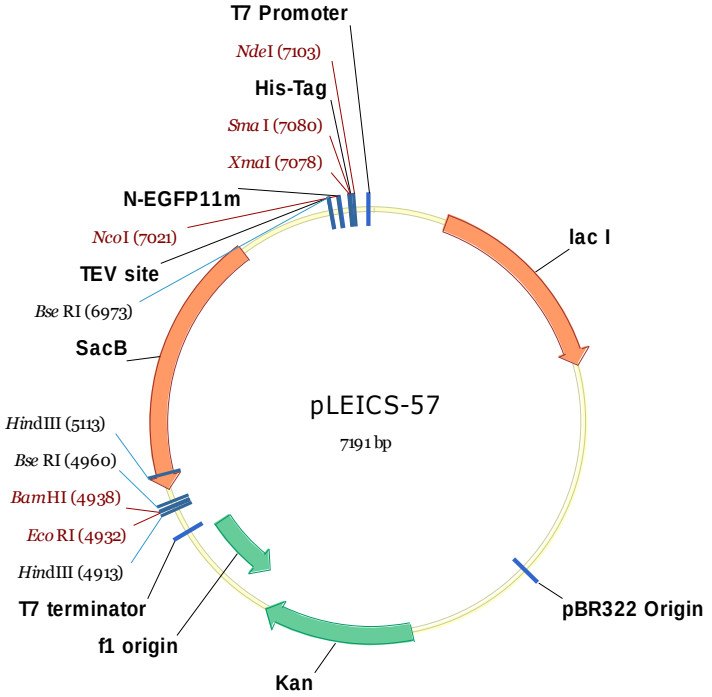

T7 Promoter
NdeI (7436)
His-Tag
SmaI (7413)
XmaI (7411)
ClaI (19)
N-EGFP128
NcoI (7021)
TEV site
BseRI (6973)
ClaI (6092)
ClaI (5755)
SacB
lac I
pLEICS-54
7524 bp
BseRI (4960)
EcoRI (4932)
T7 terminator
f1 origin
Kan
ClaI (3499)
pBR322 Origin

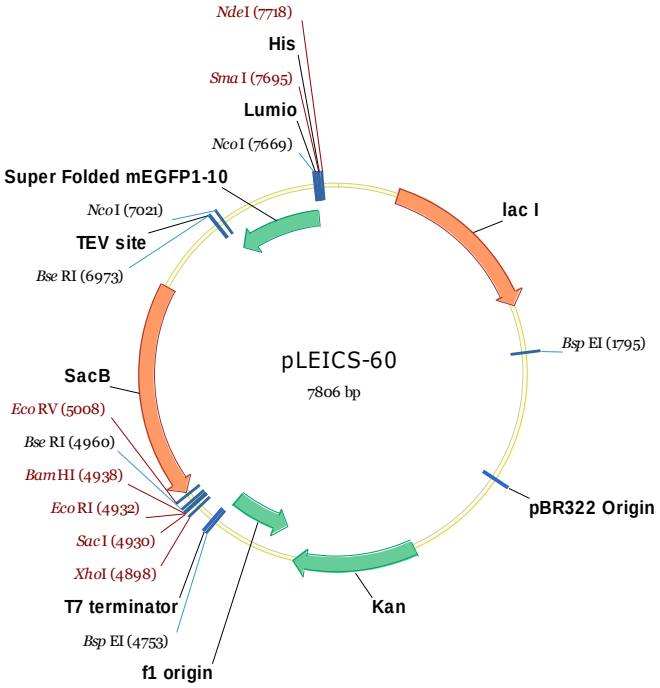

His
SmaI (7437)
Lumio
NcoI (7411)
N-EGFP128
NcoI (7021)
TEV site
lac I
SacB
HindIII (5113)
BamHI (4938)
EcoRI (4932)
HindIII (4913)
T7 terminator
f1 origin
pLEICS-52
7548 bp
Kan
pBR322 Origin

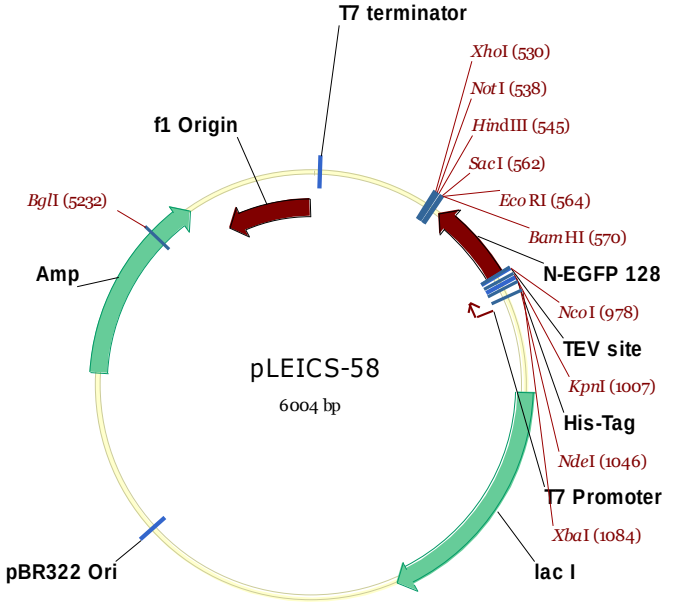

T7 Promoter
NdeI (7382)
His-Tag
SmaI (7359)
XmaI (7357)
N-EGFP129
NcoI (7021)
TEV site
BseRI (6973)
lac I
SacB
pLEICS-55
7470 bp
BseRI (4960)
EcoRI (4932)
T7 terminator
f1 origin
Kan
pBR322 Origin

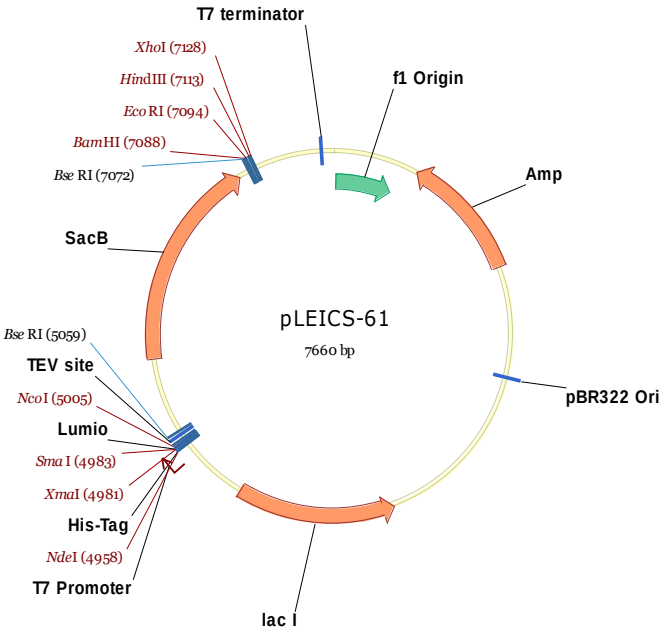

T7 terminator
XhoI (530)
NotI (538)
HindIII (545)
SacI (562)
EcoRI (564)
BamHI (570)
mEGFP1-10
NcoI (1236)
TEV site
BglII (1268)
His-Tag
NdeI (1304)
T7 Promoter
lac I
pBR322 Ori
PvuI (5239)
Amp
f1 Origin
pLEICS-56
6262 bp

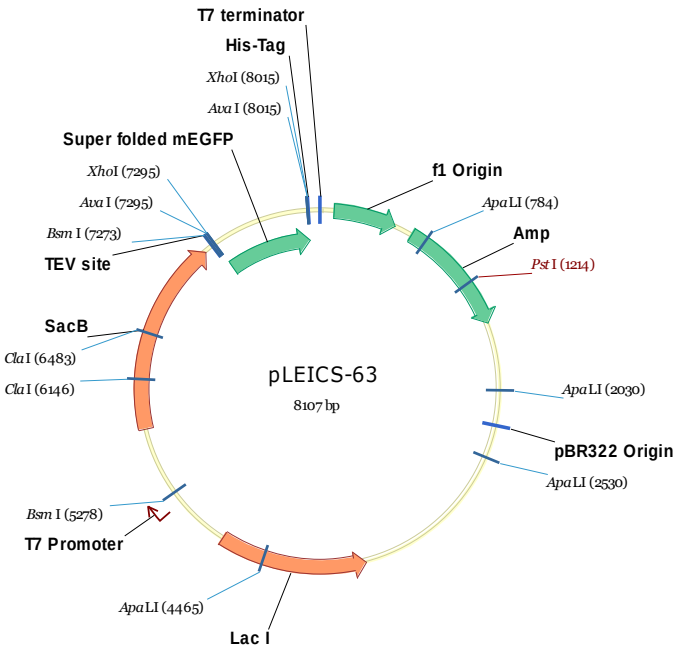

T7 terminator
XhoI (530)
NotI (538)
HindIII (545)
SacI (562)
EcoRI (564)
BamHI (570)
mEGFP
NcoI (924)
TEV site
KpnI (953)
His-Tag
NdeI (992)
T7 Promoter
XbaI (1030)
lac I
pBR322 Ori
Amp
BglI (5178)
f1 Origin
pLEICS-59
5950 bp

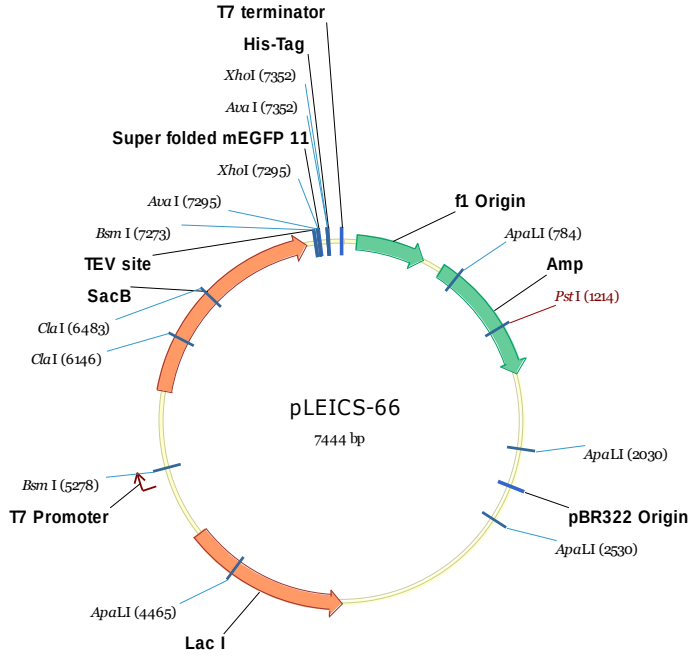

T7 Promoter
NdeI (7103)
His-Tag
SmaI (7080)
XmaI (7078)
N-EGFP11m
NcoI (7021)
TEV site
BseRI (6973)
SacB
HindIII (5113)
BseRI (4960)
BamHI (4938)
EcoRI (4932)
HindIII (4913)
T7 terminator
f1 origin
Kan
pBR322 Origin
lac I
pLEICS-57
7191 bp

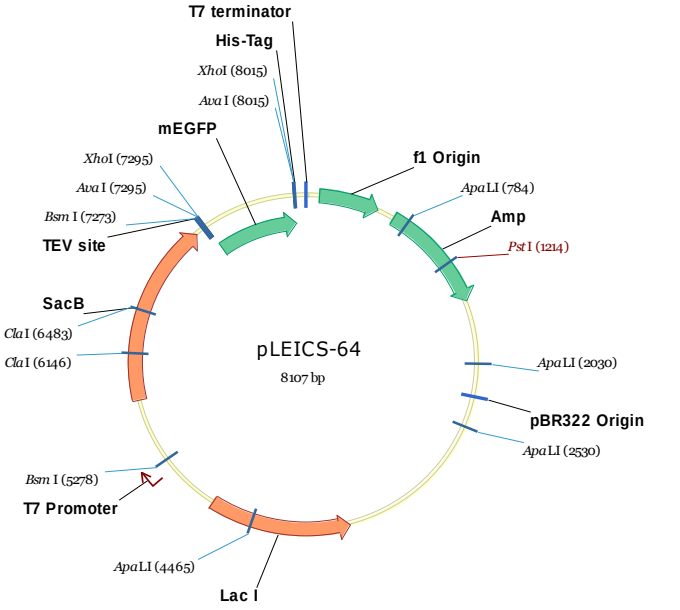

NdeI (7718)
His
SmaI (7695)
Lumio
NcoI (7669)
Super Folded mEGFP1-10
NcoI (7021)
TEV site
BseRI (6973)
lac I
BspEI (1795)
SacB
EcoRV (5008)
BseRI (4960)
BamHI (4938)
EcoRI (4932)
SacI (4930)
XhoI (4898)
T7 terminator
BspEI (4753)
f1 origin
Kan
pBR322 Origin
pLEICS-60
7806 bp

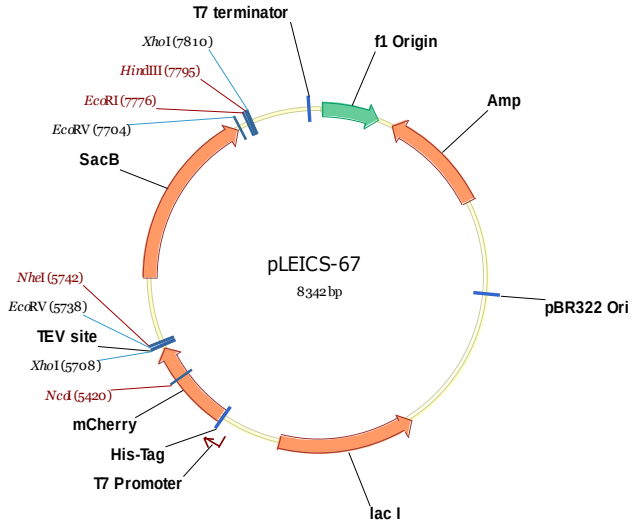

T7 terminator
XhoI (530)
NotI (538)
HindIII (545)
SacI (562)
EcoRI (564)
BamHI (570)
N-EGFP 128
NcoI (978)
TEV site
KpnI (1007)
His-Tag
NdeI (1046)
T7 Promoter
XbaI (1084)
lac I
pBR322 Ori
Amp
BglI (5232)
f1 Origin
pLEICS-58
6004 bp

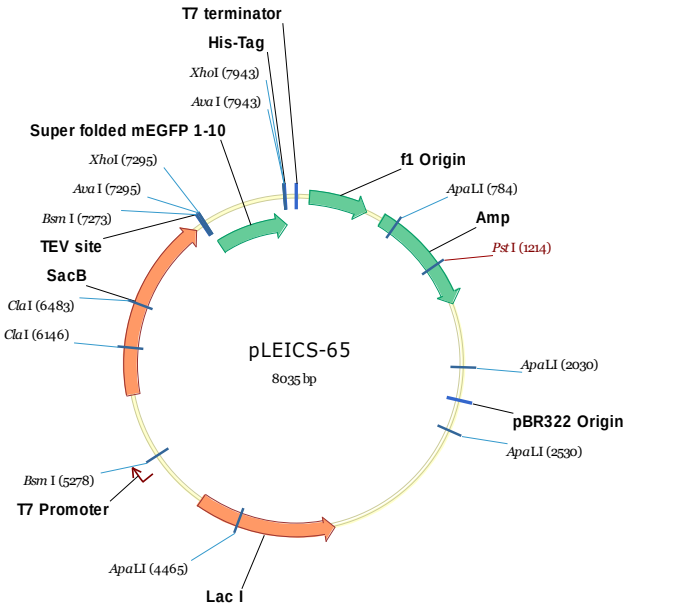

T7 terminator
XhoI (7128)
HindIII (7113)
EcoRI (7094)
BamHI (7088)
BseRI (7072)
f1 Origin
Amp
SacB
BseRI (5059)
TEV site
NcoI (5005)
Lumio
SmaI (4983)
XmaI (4981)
His-Tag
NdeI (4958)
T7 Promoter
lac I
pBR322 Ori
pLEICS-61
7660 bp

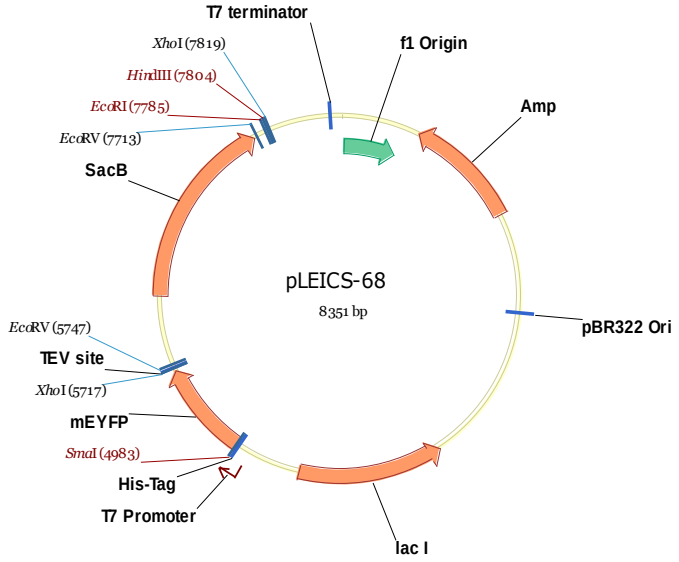

T7 terminator
His-Tag
XhoI (8015)
AvaI (8015)
Super folded mEGFP
XhoI (7295)
AvaI (7295)
BsmI (7273)
TEV site
SacB
ClaI (6483)
ClaI (6146)
f1 Origin
ApaLI (784)
Amp
PstI (1214)
pLEICS-63
8107 bp
ApaLI (2030)
pBR322 Origin
ApaLI (2530)
BsmI (5278)
T7 Promoter
ApaLI (4465)
Lac I

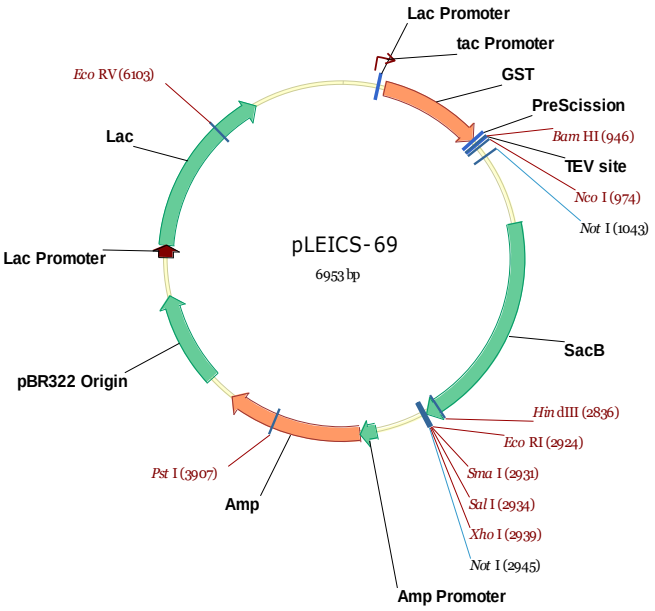

T7 terminator
His-Tag
XhoI (7352)
AvaI (7352)
Super folded mEGFP 11
XhoI (7295)
AvaI (7295)
BsmI (7273)
TEV site
SacB
ClaI (6483)
ClaI (6146)
f1 Origin
ApaLI (784)
Amp
PstI (1214)
pLEICS-66
7444 bp
ApaLI (2030)
pBR322 Origin
ApaLI (2530)
BsmI (5278)
T7 Promoter
ApaLI (4465)
Lac I

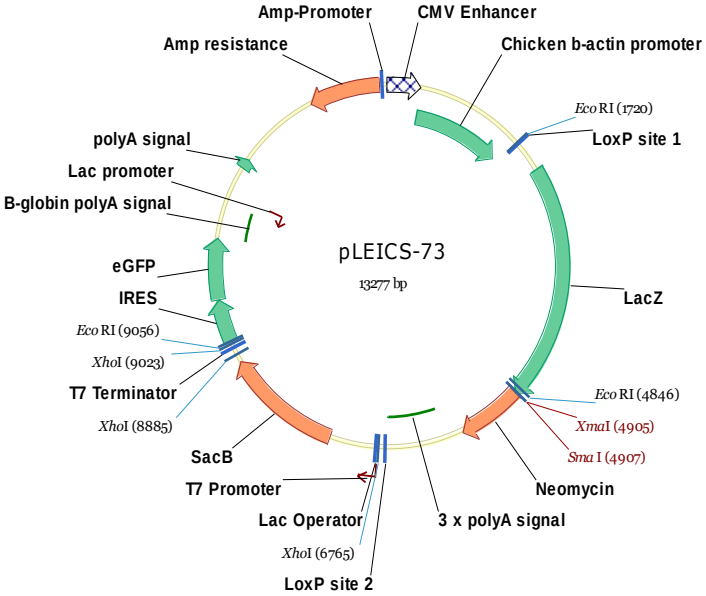

T7 terminator
His-Tag
XhoI (8015)
AvaI (8015)
mEGFP
XhoI (7295)
AvaI (7295)
BsmI (7273)
TEV site
SacB
ClaI (6483)
ClaI (6146)
f1 Origin
ApaLI (784)
Amp
PstI (1214)
pLEICS-64
8107 bp
ApaLI (2030)
pBR322 Origin
ApaLI (2530)
BsmI (5278)
T7 Promoter
ApaLI (4465)
Lac I

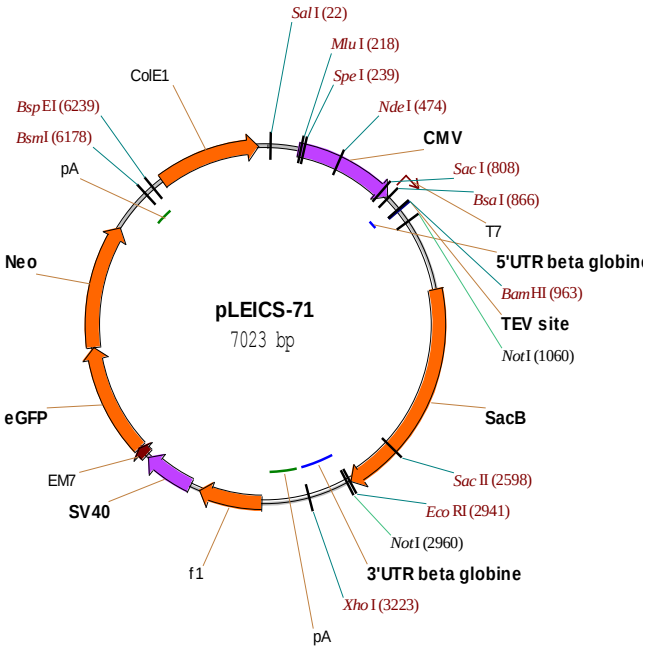

T7 terminator
XhoI (7810)
HindIII (7795)
EcoRI (7776)
EcoRV (7704)
f1 Origin
Amp
SacB
pLEICS-67
8342 bp
pBR322 Ori
NheI (5742)
EcoRV (5738)
TEV site
XhoI (5708)
NcoI (5420)
mCherry
His-Tag
T7 Promoter
lac I

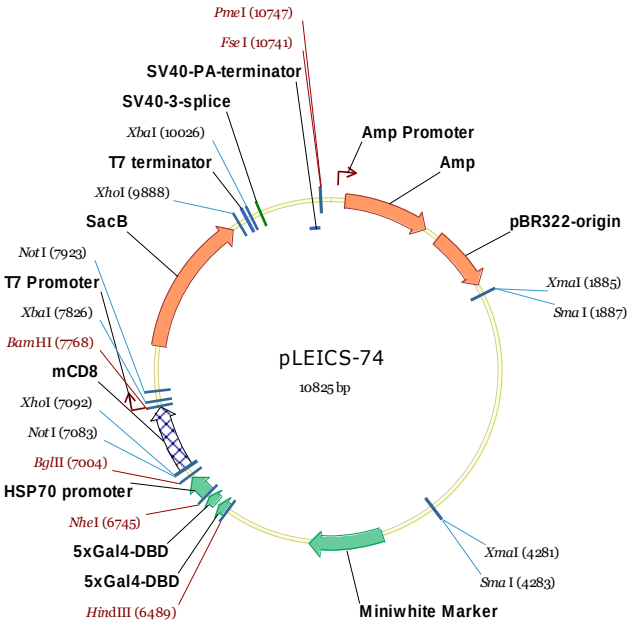

T7 terminator
His-Tag
XhoI (7943)
AvaI (7943)
Super folded mEGFP 1-10
XhoI (7295)
AvaI (7295)
BsmI (7273)
TEV site
SacB
ClaI (6483)
ClaI (6146)
f1 Origin
ApaLI (784)
Amp
PstI (1214)
pLEICS-65
8035 bp
ApaLI (2030)
pBR322 Origin
ApaLI (2530)
BsmI (5278)
T7 Promoter
ApaLI (4465)
Lac I

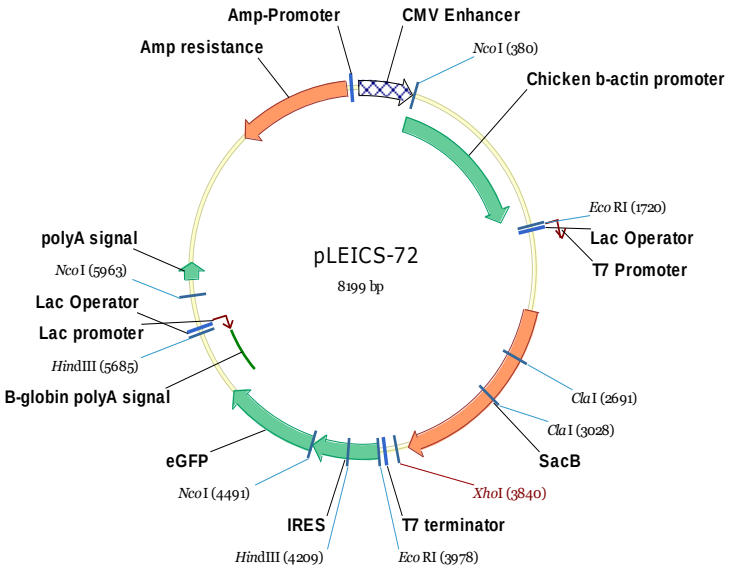

T7 terminator
XhoI (7819)
HindIII (7804)
EcoRI (7785)
EcoRV (7713)
f1 Origin
Amp
SacB
pLEICS-68
8351 bp
pBR322 Ori
EcoRV (5747)
TEV site
XhoI (5717)
mEYFP
SmaI (4983)
His-Tag
T7 Promoter
lac I

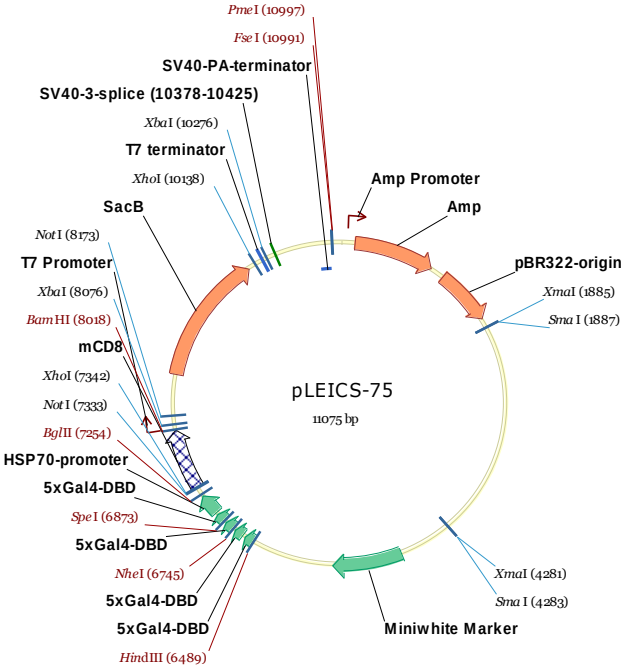

pLEICS-69
6953 bp
Lac Promoter
tac Promoter
GST
PreScission
Bam HI (946)
TEV site
Nco I (974)
Not I (1043)
SacB
Hin dIII (2836)
Eco RI (2924)
Sma I (2931)
Sal I (2934)
Xho I (2939)
Not I (2945)
Amp Promoter
Amp
Pst I (3907)
pBR322 Origin
Lac Promoter
Lac
Eco RV (6103)

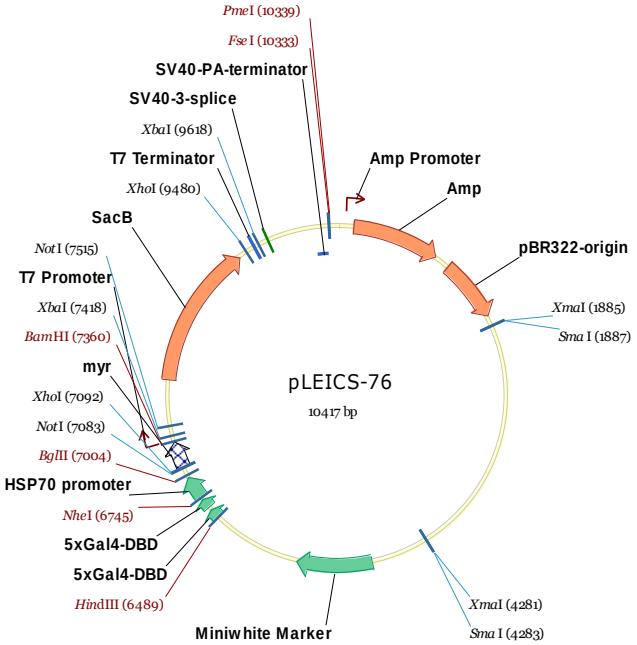

pLEICS-73
13277 bp
Amp-Promoter
CMV Enhancer
Amp resistance
Chicken b-actin promoter
Eco RI (1720)
LoxP site 1
polyA signal
Lac promoter
B-globin polyA signal
LacZ
eGFP
IRES
Eco RI (9056)
XhoI (9023)
T7 Terminator
XhoI (8885)
SacB
Eco RI (4846)
XmaI (4905)
Sma I (4907)
Neomycin
T7 Promoter
Lac Operator
3 x polyA signal
XhoI (6765)
LoxP site 2

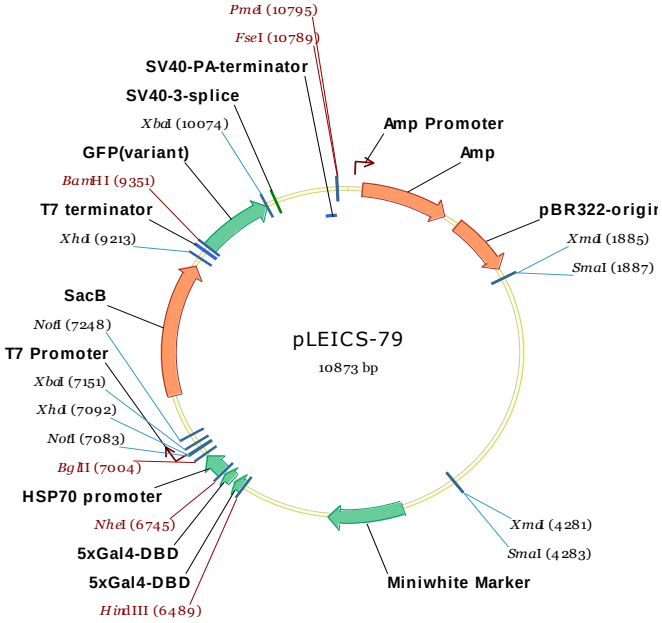

pLEICS-71
7023 bp
Sal I (22)
Mlu I (218)
Spe I (239)
Nde I (474)
CMV
Sac I (808)
Bsa I (866)
T7
5'UTR beta globin
BamHI (963)
TEV site
NotI (1060)
SacB
Sac II (2598)
Eco RI (2941)
NotI (2960)
3'UTR beta globine
Xho I (3223)
pA
f1
SV40
EM7
eGFP
Neo
pA
BspEI (6239)
BsmI (6178)
ColE1

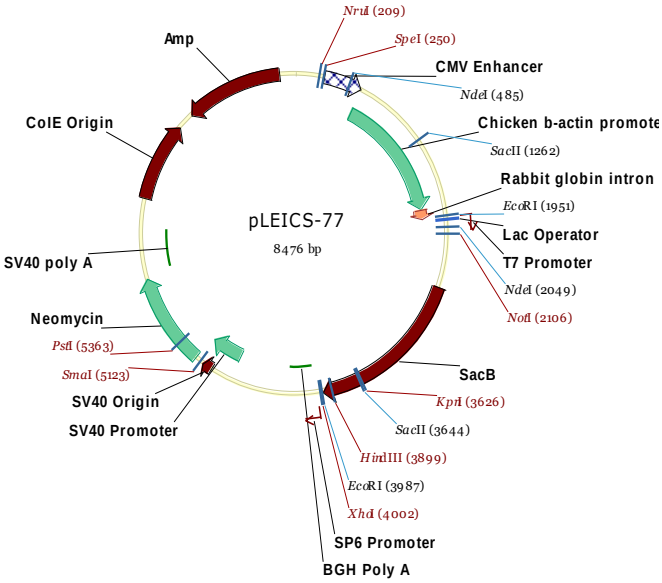

pLEICS-74
10825 bp
PmeI (10747)
FseI (10741)
SV40-PA-terminator
SV40-3-splice
XbaI (10026)
T7 terminator
XhoI (9888)
Amp Promoter
Amp
pBR322-origin
XmaI (1885)
Sma I (1887)
SacB
NotI (7923)
T7 Promoter
XbaI (7826)
BamHI (7768)
mCD8
XhoI (7092)
NotI (7083)
BglII (7004)
HSP70 promoter
NheI (6745)
5xGal4-DBD
5xGal4-DBD
HindIII (6489)
XmaI (4281)
Sma I (4283)
Miniwhite Marker

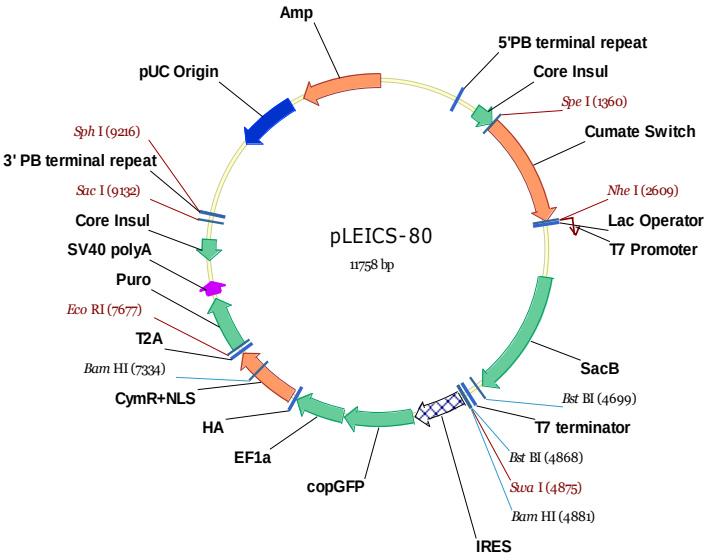

pLEICS-72
8199 bp
Amp-Promoter
CMV Enhancer
Amp resistance
NcoI (380)
Chicken b-actin promoter
Eco RI (1720)
Lac Operator
T7 Promoter
polyA signal
NcoI (5963)
Lac Operator
Lac promoter
HindIII (5685)
B-globin polyA signal
Cla I (2691)
Cla I (3028)
SacB
XhoI (3840)
T7 terminator
Eco RI (3978)
IRES
HindIII (4209)
eGFP
NcoI (4491)

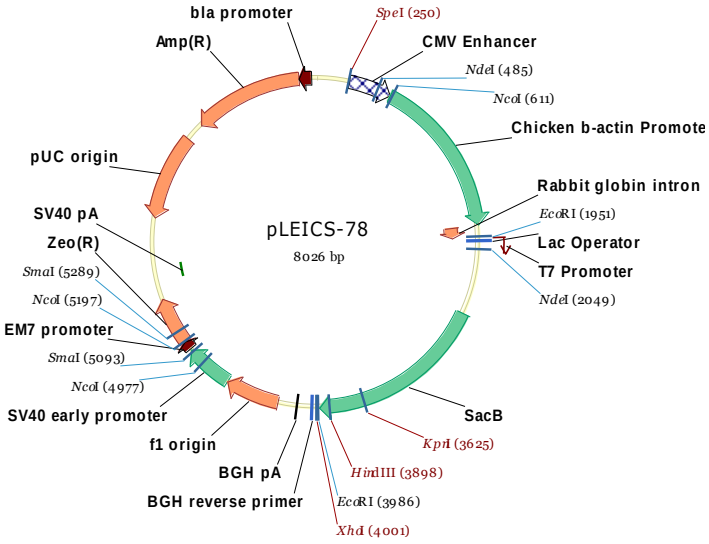

pLEICS-75
11075 bp
PmeI (10997)
FseI (10991)
SV40-PA-terminator
SV40-3-splice (10378-10425)
XbaI (10276)
T7 terminator
XhoI (10138)
Amp Promoter
Amp
SacB
NotI (8173)
T7 Promoter
XbaI (8076)
BamHI (8018)
mCD8
XhoI (7342)
NotI (7333)
BglII (7254)
HSP70-promoter
5xGal4-DBD
SpeI (6873)
5xGal4-DBD
NheI (6745)
5xGal4-DBD
5xGal4-DBD
HindIII (6489)
pBR322-origin
XmaI (1885)
Sma I (1887)
XmaI (4281)
Sma I (4283)
Miniwhite Marker

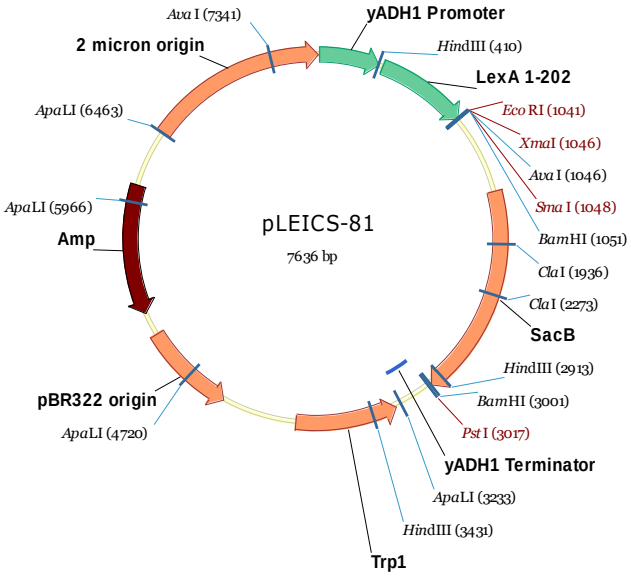

pLEICS-76
10417 bp
PmeI (10339)
FseI (10333)
SV40-PA-terminator
SV40-3-splice
XbaI (9618)
T7 Terminator
XhoI (9480)
SacB
NotI (7515)
T7 Promoter
XbaI (7418)
BamHI (7360)
myr
XhoI (7092)
NotI (7083)
BglII (7004)
HSP70 promoter
NheI (6745)
5xGal4-DBD
5xGal4-DBD
HindIII (6489)
Miniwhite Marker
XmaI (4281)
Sma I (4283)
XmaI (1885)
Sma I (1887)
pBR322-origin
Amp
Amp Promoter

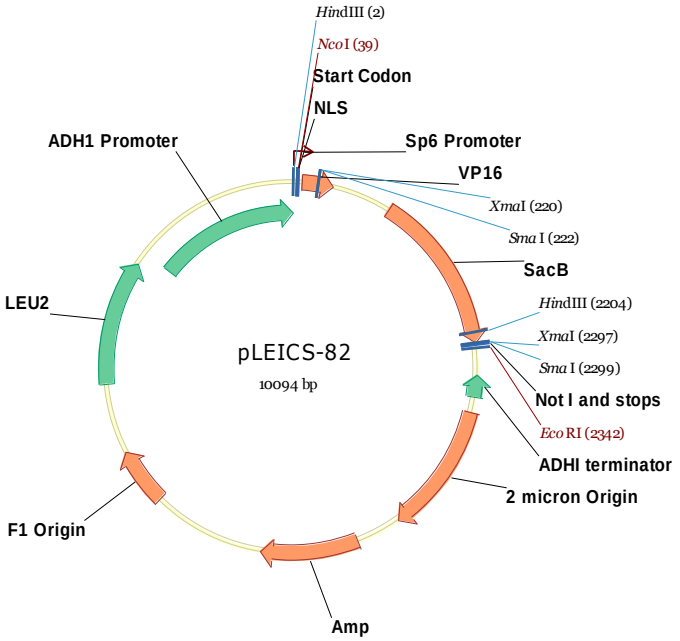

pLEICS-79
10873 bp
PmeI (10795)
FseI (10789)
SV40-PA-terminator
SV40-3-splice
XbaI (10074)
GFP(variant)
BamHI (9351)
T7 terminator
XhoI (9213)
SacB
NotI (7248)
T7 Promoter
XbaI (7151)
XhoI (7092)
NotI (7083)
BglII (7004)
HSP70 promoter
NheI (6745)
5xGal4-DBD
5xGal4-DBD
HindIII (6489)
Miniwhite Marker
XmaI (4281)
SmaI (4283)
XmaI (1885)
SmaI (1887)
pBR322-origin
Amp
Amp Promoter

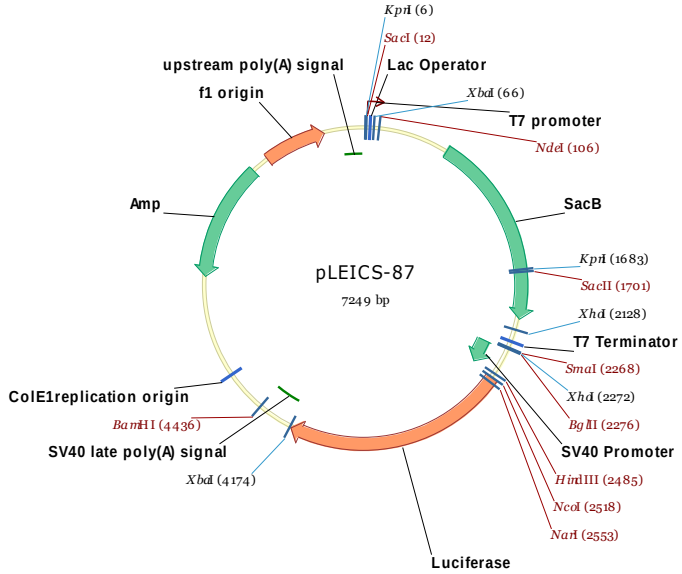

pLEICS-77
8476 bp
NruI (209)
SpeI (250)
CMV Enhancer
NdeI (485)
Chicken b-actin promote
SacII (1262)
Rabbit globin intron
EcoRI (1951)
Lac Operator
T7 Promoter
NdeI (2049)
NotI (2106)
SacB
KpnI (3626)
SacII (3644)
HindIII (3899)
EcoRI (3987)
XhoI (4002)
SP6 Promoter
BGH Poly A
SV40 Promoter
SV40 Origin
PstI (5363)
SmaI (5123)
Neomycin
SV40 poly A
ColE Origin
Amp

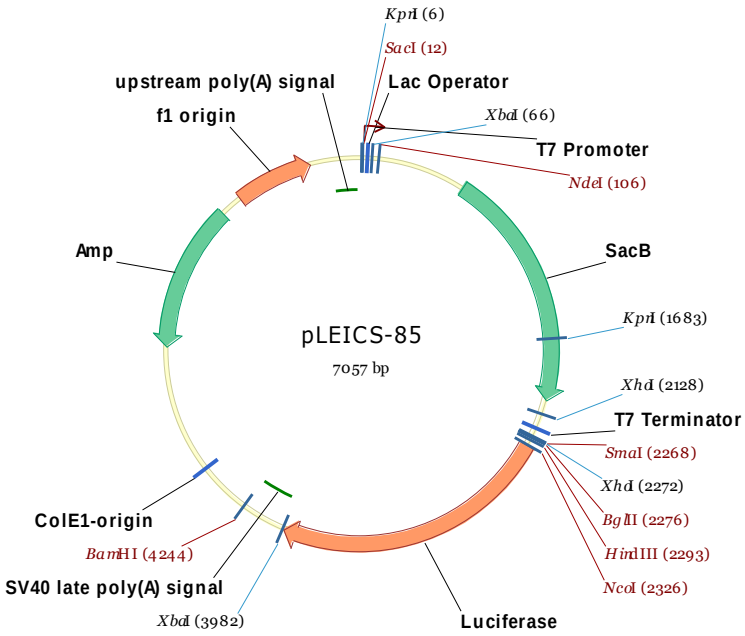

pLEICS-80
11758 bp
Amp
5'PB terminal repeat
Core Insul
SpeI (1360)
Cumate Switch
NheI (2609)
Lac Operator
T7 Promoter
SacB
BstBI (4699)
T7 terminator
BstBI (4868)
SwaI (4875)
BamHI (4881)
IRES
copGFP
EF1a
HA
CymR+NLS
BamHI (7334)
T2A
EcoRI (7677)
Puro
SV40 polyA
Core Insul
SacI (9132)
3' PB terminal repeat
SphI (9216)
pUC Origin

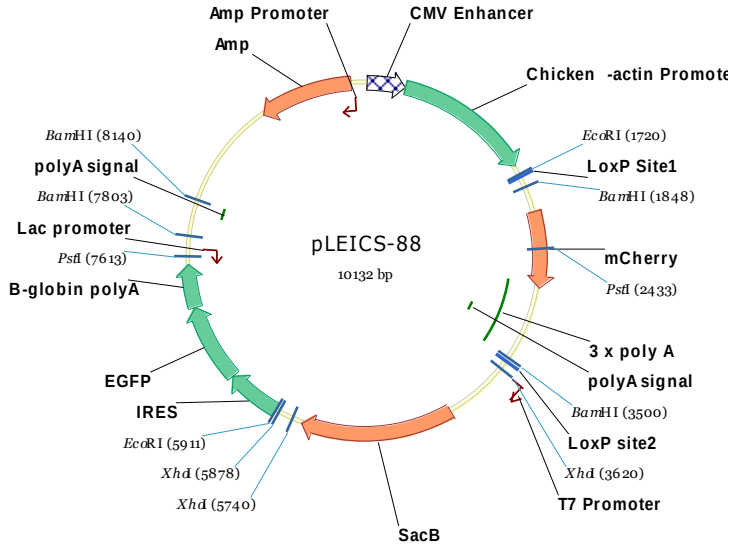

pLEICS-78
8026 bp
bla promoter
Amp(R)
SpeI (250)
CMV Enhancer
NdeI (485)
NcoI (611)
Chicken b-actin Promote
Rabbit globin intron
EcoRI (1951)
Lac Operator
T7 Promoter
NdeI (2049)
SacB
KpnI (3625)
HindIII (3898)
EcoRI (3986)
XhoI (4001)
BGH reverse primer
BGH pA
f1 origin
SV40 early promoter
NcoI (4977)
SmaI (5093)
EM7 promoter
NcoI (5197)
SmaI (5289)
Zeo(R)
SV40 pA
pUC origin

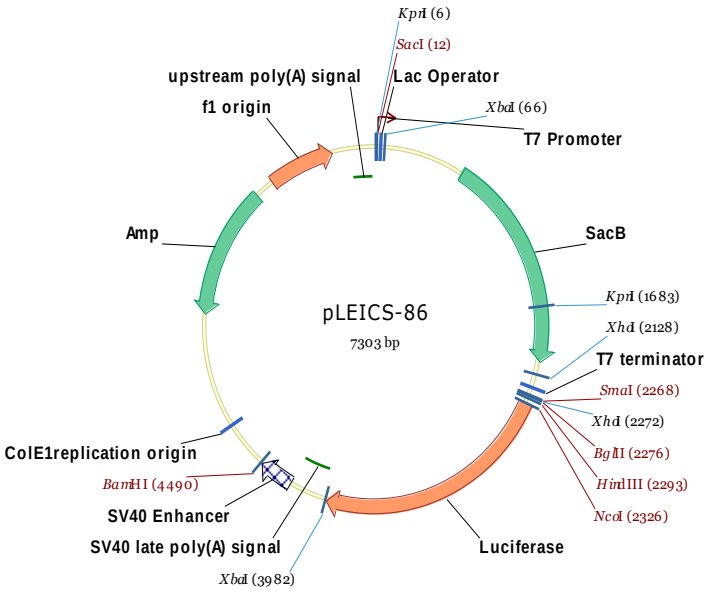

pLEICS-81
7636 bp
AvaI (7341)
yADH1 Promoter
HindIII (410)
LexA 1-202
EcoRI (1041)
XmaI (1046)
AvaI (1046)
SmaI (1048)
BamHI (1051)
ClaI (1936)
ClaI (2273)
SacB
HindIII (2913)
BamHI (3001)
PstI (3017)
yADH1 Terminator
ApaLI (3233)
HindIII (3431)
Trp1
pBR322 origin
ApaLI (4720)
Amp
ApaLI (5966)
ApaLI (6463)
2 micron origin

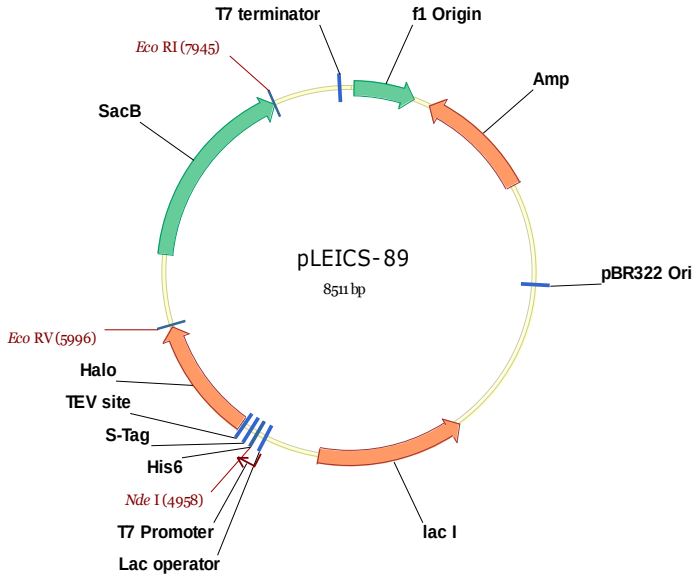

pLEICS-82
10094 bp
HindIII (2)
NcoI (39)
Start Codon
NLS
Sp6 Promoter
VP16
XmaI (220)
SmaI (222)
SacB
HindIII (2204)
XmaI (2297)
SmaI (2299)
Not I and stops
EcoRI (2342)
ADHI terminator
2 micron Origin
Amp
F1 Origin
LEU2
ADH1 Promoter

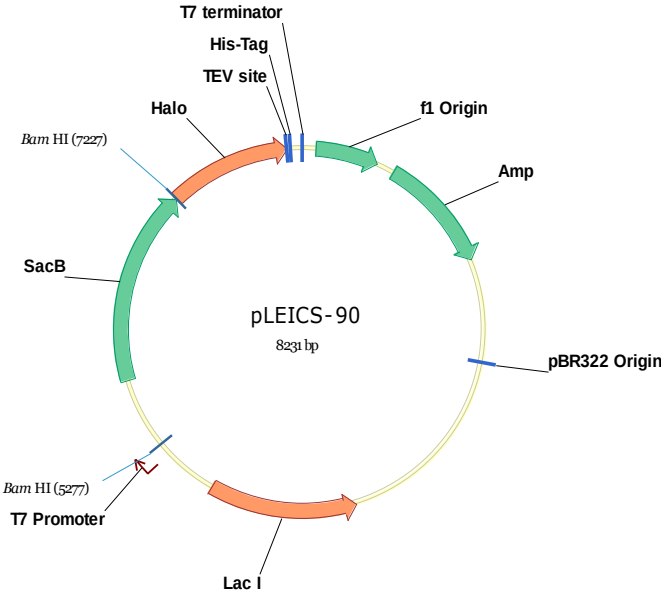

pLEICS-87
7249 bp
KpnI (6)
SacI (12)
Lac Operator
XbaI (66)
T7 promoter
NdeI (106)
SacB
KpnI (1683)
SacII (1701)
XhoI (2128)
T7 Terminator
SmaI (2268)
XhoI (2272)
BglII (2276)
SV40 Promoter
HindIII (2485)
NcoI (2518)
NarI (2553)
Luciferase
XbaI (4174)
SV40 late poly(A) signal
BamHI (4436)
ColE1replication origin
Amp
f1 origin
upstream poly(A) signal

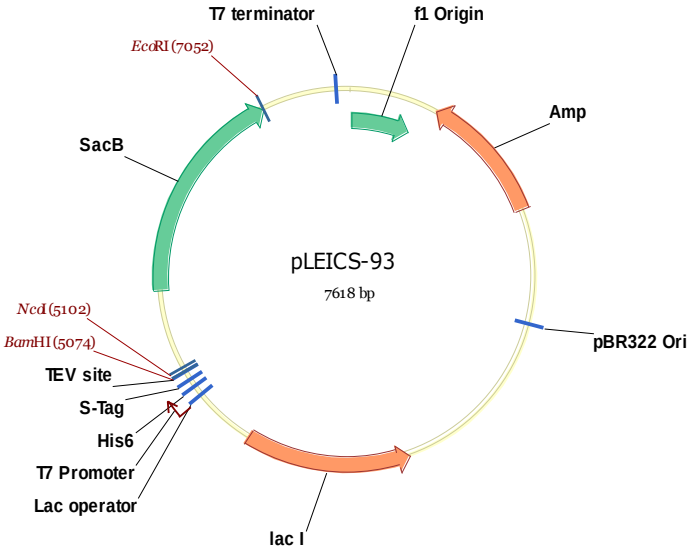

pLEICS-85
7057 bp
KpnI (6)
SacI (12)
Lac Operator
XbaI (66)
T7 Promoter
NdeI (106)
SacB
KpnI (1683)
XhoI (2128)
T7 Terminator
SmaI (2268)
XhoI (2272)
BglII (2276)
HindIII (2293)
NcoI (2326)
Luciferase
XbaI (3982)
SV40 late poly(A) signal
BamHI (4244)
ColE1-origin
Amp
f1 origin
upstream poly(A) signal

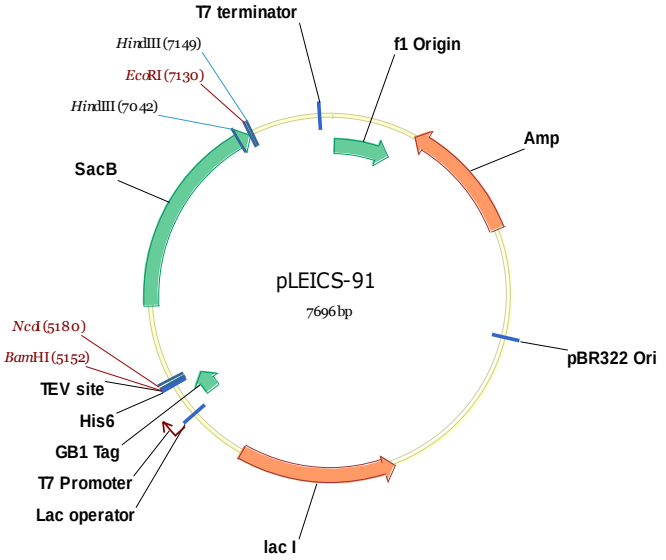

pLEICS-88
10132 bp
Amp Promoter
CMV Enhancer
Amp
Chicken -actin Promote
EcoRI (1720)
LoxP Site1
BamHI (1848)
mCherry
PstI (2433)
3 x poly A
polyA signal
BamHI (3500)
LoxP site2
XhoI (3620)
T7 Promoter
SacB
XhoI (5740)
XhoI (5878)
EcoRI (5911)
IRES
EGFP
B-globin polyA
PstI (7613)
Lac promoter
BamHI (7803)
polyA signal
BamHI (8140)

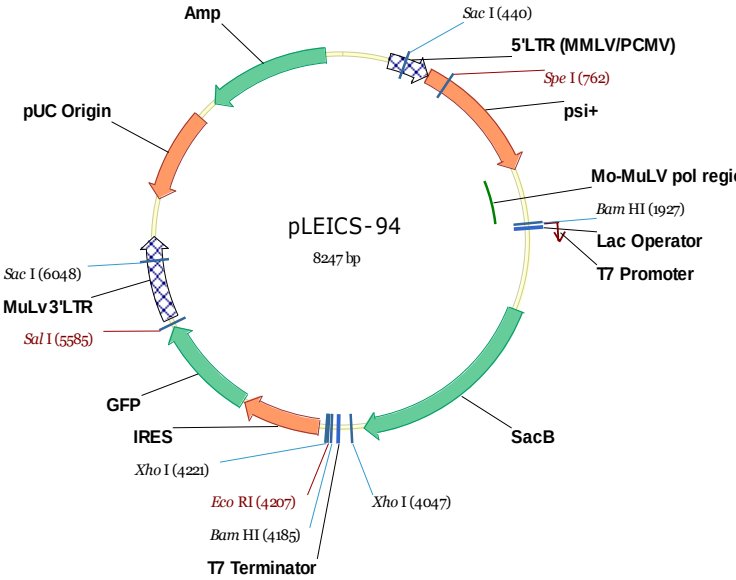

pLEICS-86
7303 bp
KpnI (6)
SacI (12)
Lac Operator
XbaI (66)
T7 Promoter
SacB
KpnI (1683)
XhoI (2128)
T7 terminator
SmaI (2268)
XhoI (2272)
BglII (2276)
HindIII (2293)
NcoI (2326)
Luciferase
XbaI (3982)
SV40 late poly(A) signal
SV40 Enhancer
BamHI (4490)
ColE1replication origin
Amp
f1 origin
upstream poly(A) signal

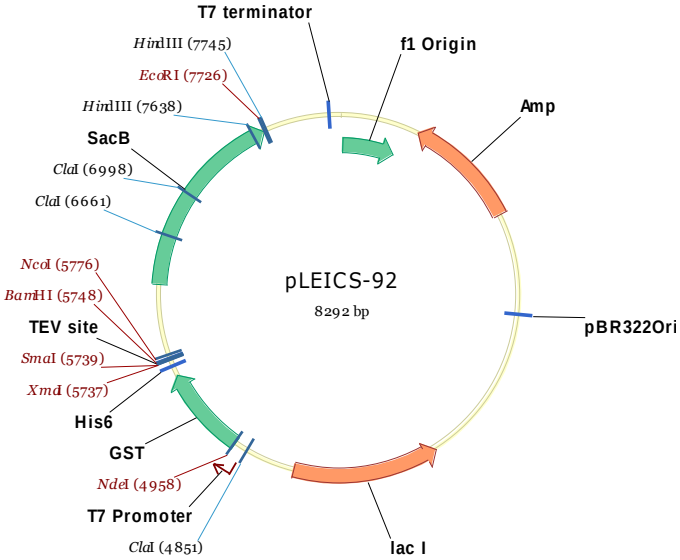

pLEICS-89
8511 bp
T7 terminator
f1 Origin
Amp
pBR322 Ori
lac I
T7 Promoter
Lac operator
NdeI (4958)
His6
S-Tag
TEV site
Halo
EcoRV (5996)
SacB
EcoRI (7945)

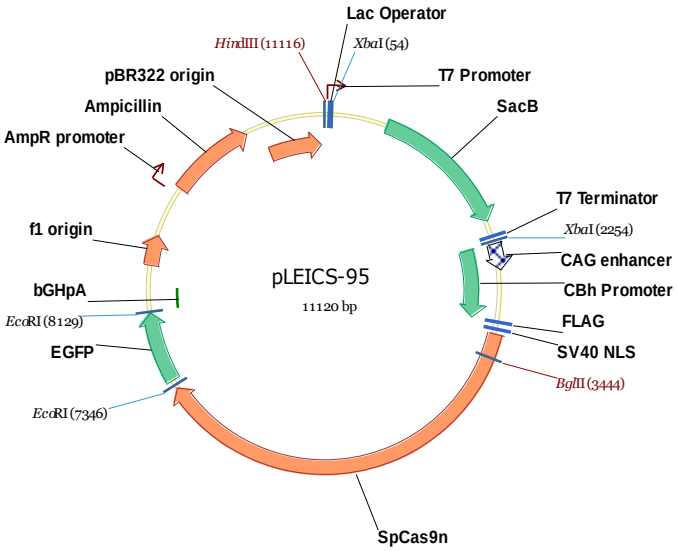

T7 terminator
His-Tag
TEV site
Halo
f1 Origin
Bam HI (7227)
Amp
SacB
pLEICS-90
8231 bp
pBR322 Origin
Bam HI (5277)
T7 Promoter
Lac I

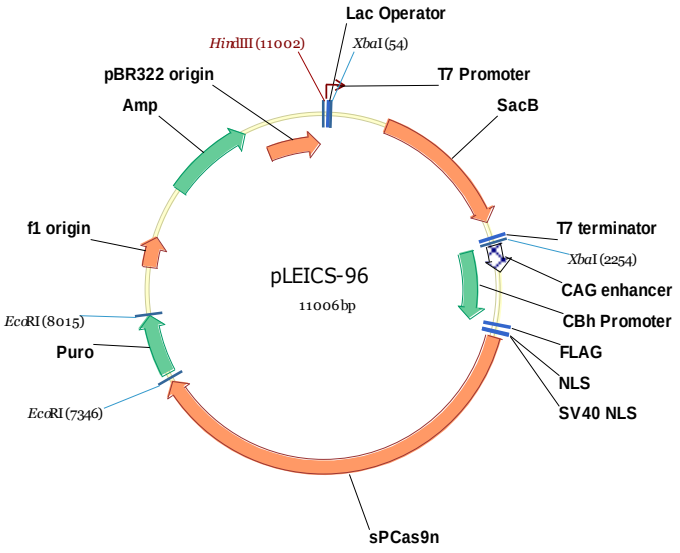

T7 terminator
f1 Origin
EcoRI (7052)
Amp
SacB
pLEICS-93
7618 bp
pBR322 Ori
NcoI (5102)
BamHI (5074)
TEV site
S-Tag
His6
T7 Promoter
Lac operator
lac I

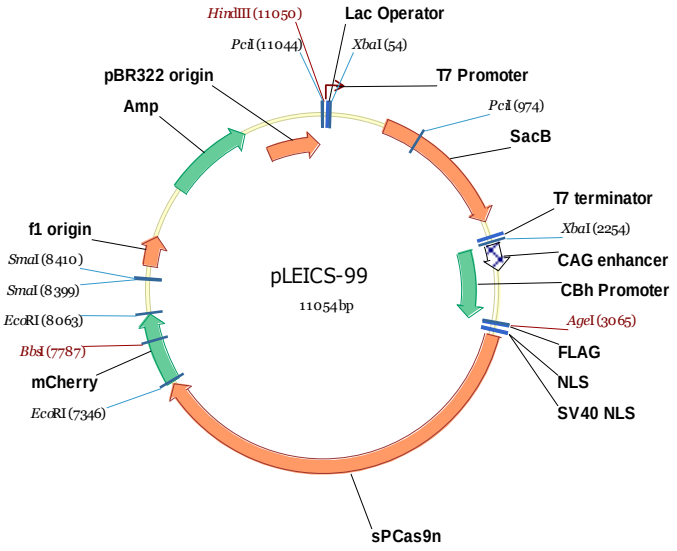

T7 terminator
HindIII (7149)
f1 Origin
EcoRI (7130)
HindIII (7042)
Amp
SacB
pLEICS-91
7696 bp
pBR322 Ori
NcoI (5180)
BamHI (5152)
TEV site
His6
GB1 Tag
T7 Promoter
Lac operator
lac I

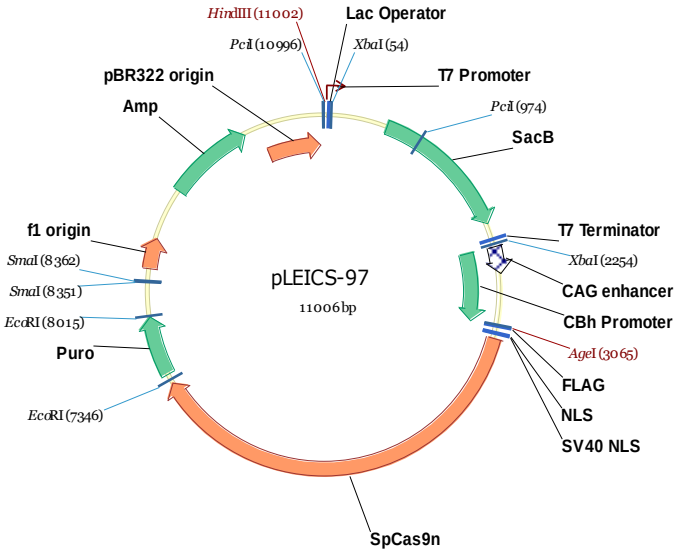

Amp
Sac I (440)
5'LTR (MMLV/PCMV)
Spe I (762)
psi+
pUC Origin
Mo-MuLV pol regi
Bam HI (1927)
Lac Operator
T7 Promoter
pLEICS-94
8247 bp
Sac I (6048)
MuLv3'LTR
Sal I (5585)
GFP
IRES
SacB
Xho I (4221)
Eco RI (4207)
Xho I (4047)
Bam HI (4185)
T7 Terminator

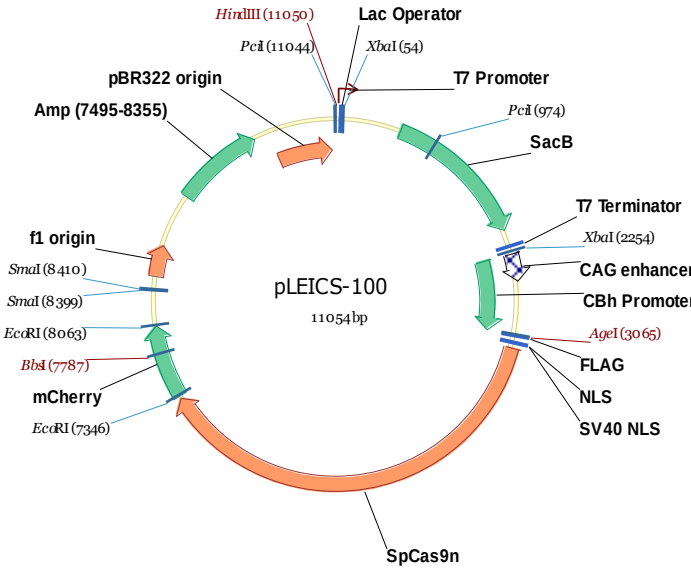

T7 terminator
HindIII (7745)
f1 Origin
EcoRI (7726)
HindIII (7638)
Amp
SacB
ClaI (6998)
ClaI (6661)
pLEICS-92
8292 bp
pBR322Ori
NcoI (5776)
BamHI (5748)
TEV site
SmaI (5739)
XmaI (5737)
His6
GST
NdeI (4958)
T7 Promoter
ClaI (4851)
lac I

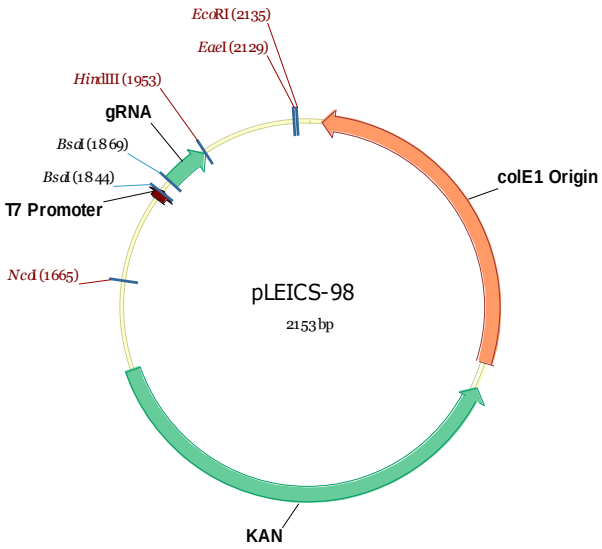

Lac Operator
HindIII (11116)
XbaI (54)
pBR322 origin
T7 Promoter
Ampicillin
SacB
AmpR promoter
T7 Terminator
XbaI (2254)
f1 origin
CAG enhancer
pLEICS-95
11120 bp
CBh Promoter
bGHpA
EcoRI (8129)
FLAG
SV40 NLS
EGFP
BglII (3444)
EcoRI (7346)
SpCas9n

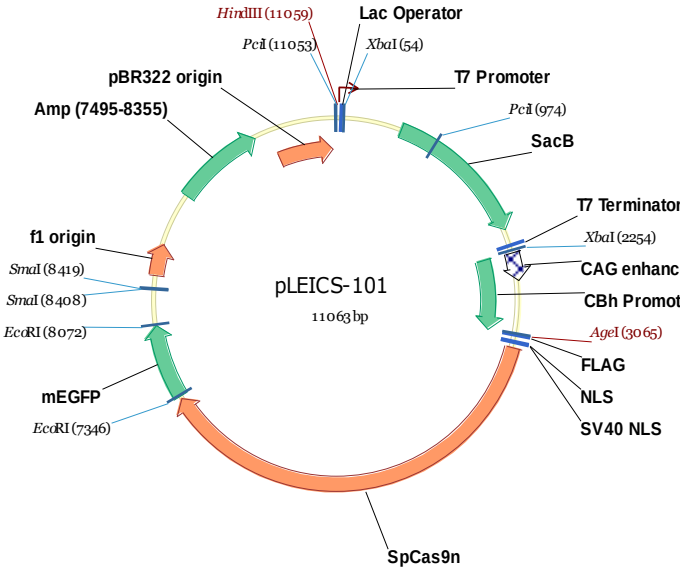

pLEICS-96
11006 bp
Lac Operator
HindIII (11002)
XbaI (54)
pBR322 origin
T7 Promoter
Amp
SacB
f1 origin
T7 terminator
XbaI (2254)
CAG enhancer
CBh Promoter
EcoRI (8015)
Puro
FLAG
NLS
SV40 NLS
EcoRI (7346)
sPCas9n

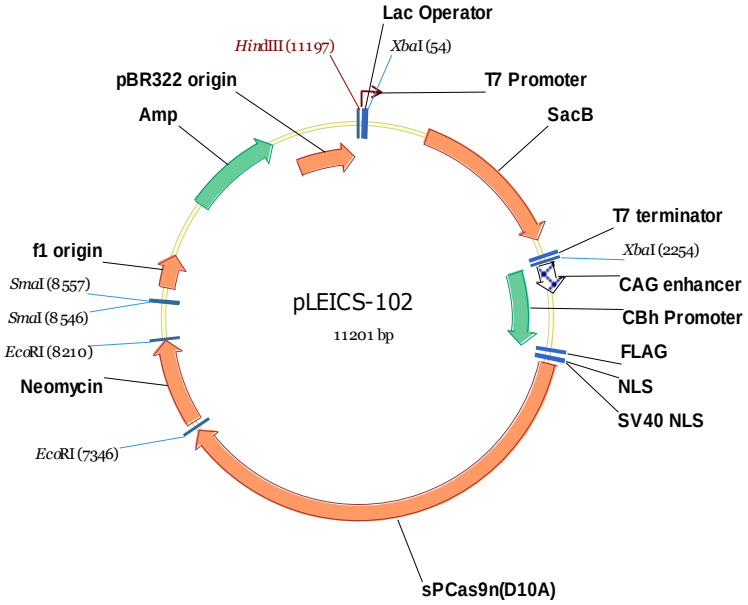

pLEICS-99
11054 bp
HindIII (11050)
Lac Operator
PciI (11044)
XbaI (54)
pBR322 origin
T7 Promoter
Amp
PciI (974)
SacB
T7 terminator
XbaI (2254)
f1 origin
CAG enhancer
SmaI (8410)
SmaI (8399)
CBh Promoter
EcoRI (8063)
AgeI (3065)
BbsI (7787)
FLAG
mCherry
NLS
EcoRI (7346)
SV40 NLS
sPCas9n

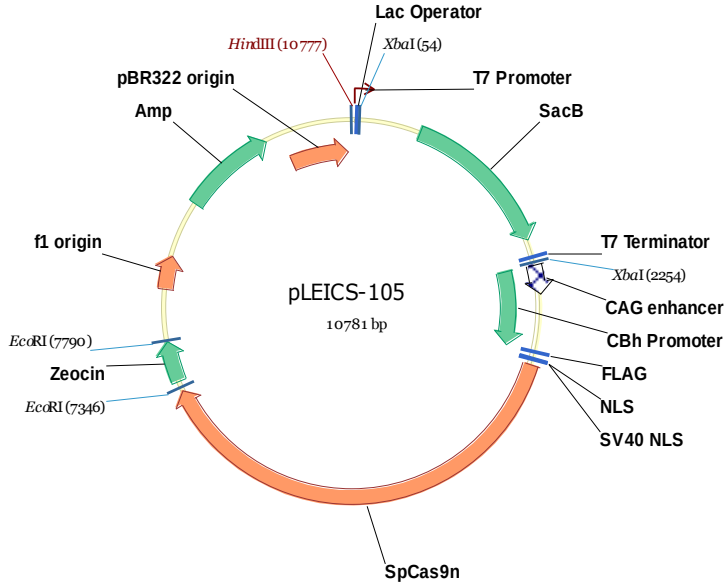

pLEICS-97
11006 bp
HindIII (11002)
Lac Operator
PciI (10996)
XbaI (54)
pBR322 origin
T7 Promoter
Amp
PciI (974)
SacB
f1 origin
T7 Terminator
SmaI (8362)
XbaI (2254)
SmaI (8351)
CAG enhancer
EcoRI (8015)
CBh Promoter
Puro
AgeI (3065)
FLAG
EcoRI (7346)
NLS
SV40 NLS
SpCas9n

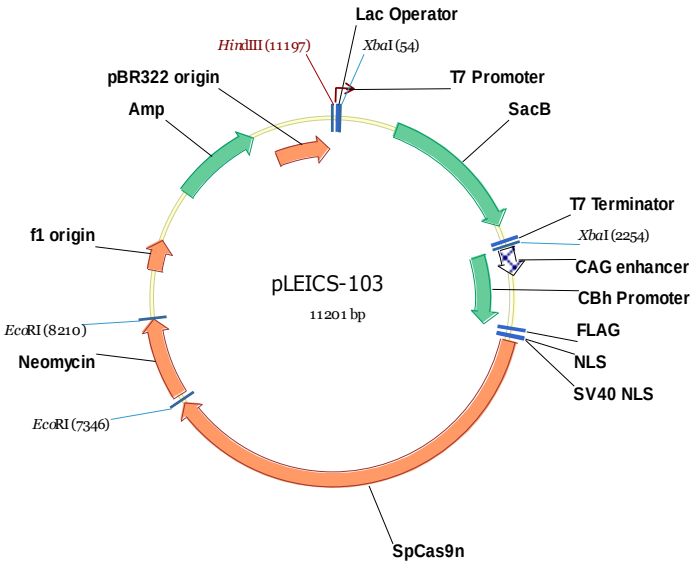

pLEICS-100
11054 bp
HindIII (11050)
Lac Operator
PciI (11044)
XbaI (54)
pBR322 origin
T7 Promoter
Amp (7495-8355)
PciI (974)
SacB
T7 Terminator
f1 origin
XbaI (2254)
SmaI (8410)
CAG enhancer
SmaI (8399)
CBh Promoter
EcoRI (8063)
AgeI (3065)
BbsI (7787)
FLAG
mCherry
NLS
EcoRI (7346)
SV40 NLS
SpCas9n

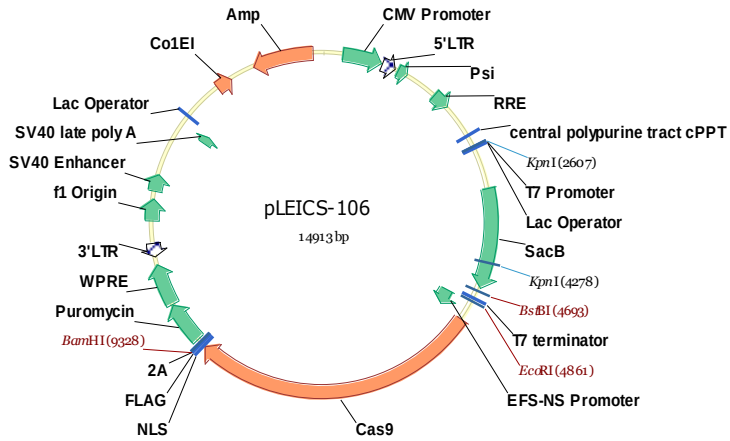

pLEICS-98
2153 bp
EcoRI (2135)
EaeI (2129)
HindIII (1953)
gRNA
BsaI (1869)
BsaI (1844)
colE1 Origin
T7 Promoter
NcoI (1665)
KAN

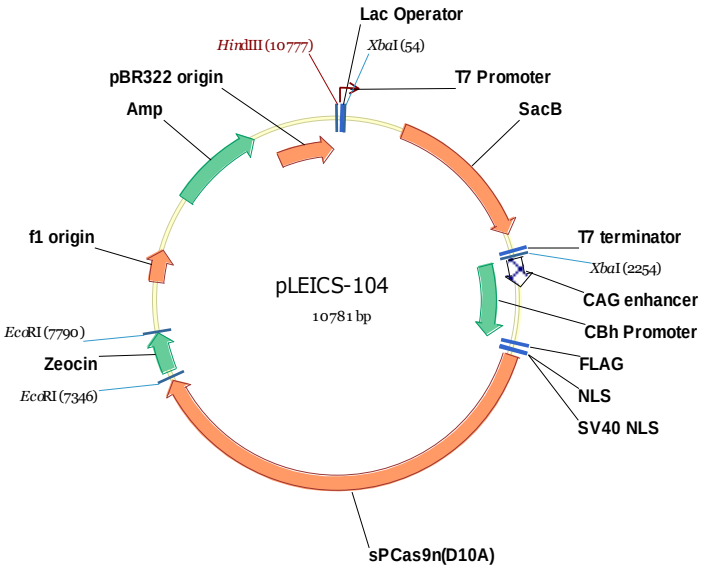

pLEICS-101
11063 bp
HindIII (11059)
Lac Operator
PciI (11053)
XbaI (54)
pBR322 origin
T7 Promoter
Amp (7495-8355)
PciI (974)
SacB
T7 Terminator
f1 origin
XbaI (2254)
SmaI (8419)
CAG enhancer
SmaI (8408)
CBh Promoter
EcoRI (8072)
AgeI (3065)
FLAG
mEGFP
NLS
EcoRI (7346)
SV40 NLS
SpCas9n

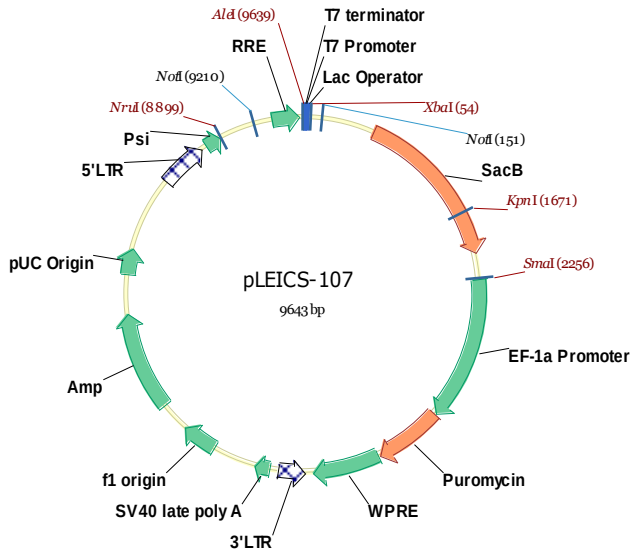

pLEICS-102
11201 bp
Lac Operator
HindIII (11197)
XbaI (54)
pBR322 origin
T7 Promoter
Amp
SacB
T7 terminator
XbaI (2254)
f1 origin
CAG enhancer
SmaI (8557)
CBh Promoter
SmaI (8546)
EcoRI (8210)
FLAG
Neomycin
NLS
SV40 NLS
EcoRI (7346)
sPCas9n(D10A)

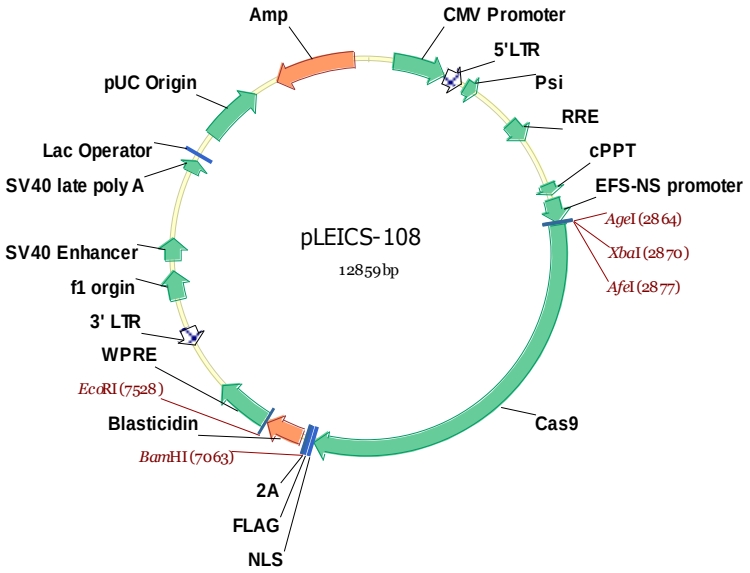

pLEICS-105
10781 bp
Lac Operator
HindIII (10777)
XbaI (54)
pBR322 origin
T7 Promoter
Amp
SacB
T7 Terminator
f1 origin
XbaI (2254)
CAG enhancer
CBh Promoter
EcoRI (7790)
FLAG
Zeocin
NLS
EcoRI (7346)
SV40 NLS
SpCas9n

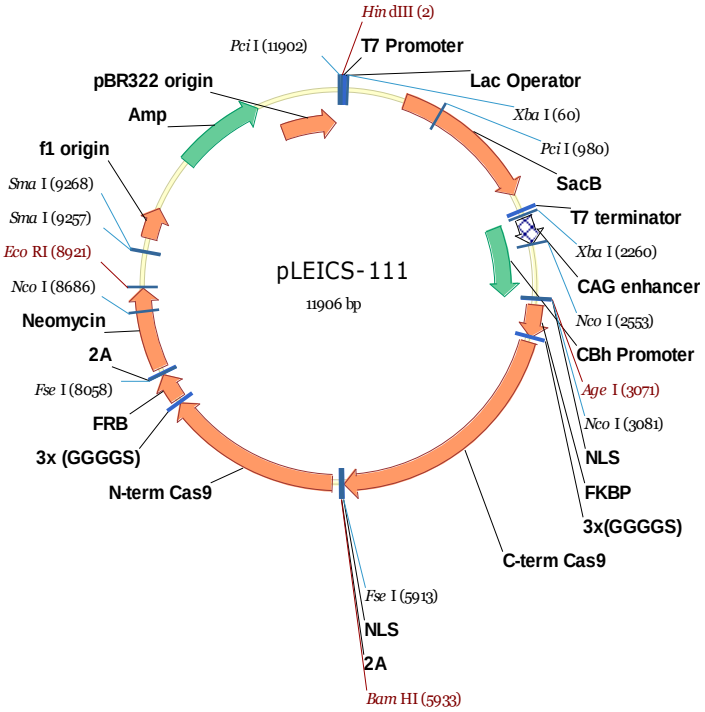

pLEICS-103
11201 bp
Lac Operator
HindIII (11197)
XbaI (54)
pBR322 origin
T7 Promoter
Amp
SacB
T7 Terminator
f1 origin
XbaI (2254)
CAG enhancer
CBh Promoter
EcoRI (8210)
FLAG
Neomycin
NLS
SV40 NLS
EcoRI (7346)
SpCas9n

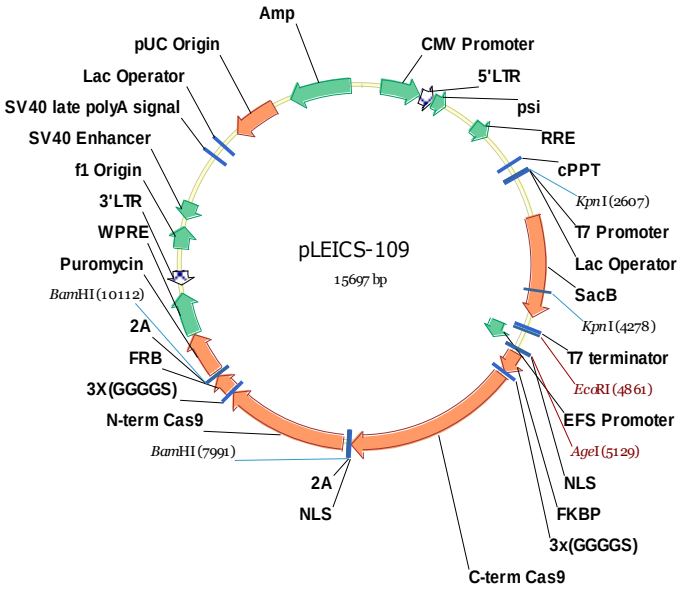

pLEICS-106
14913 bp
Amp
CMV Promoter
Co1EI
5'LTR
Psi
Lac Operator
RRE
SV40 late poly A
central polypurine tract cPPT
SV40 Enhancer
KpnI (2607)
f1 Origin
T7 Promoter
Lac Operator
3'LTR
SacB
WPRE
KpnI (4278)
Puromycin
BstBI (4693)
BamHI (9328)
T7 terminator
2A
EcoRI (4861)
FLAG
EFS-NS Promoter
NLS
Cas9

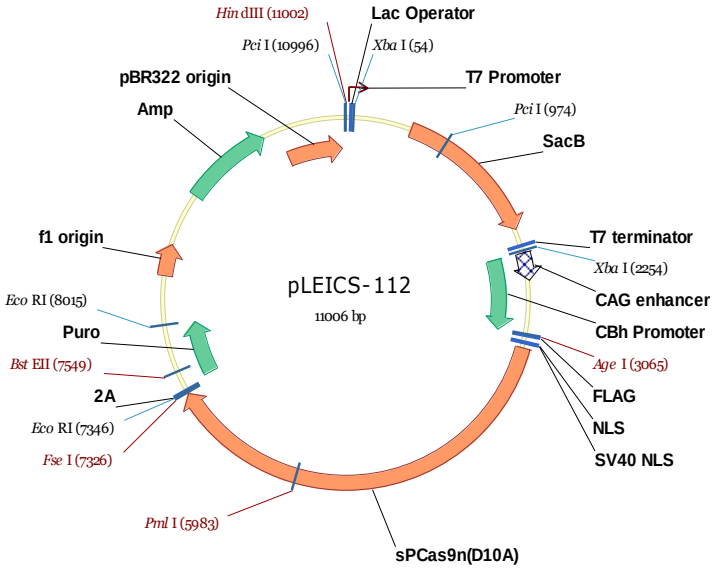

pLEICS-104
10781 bp
Lac Operator
HindIII (10777)
XbaI (54)
pBR322 origin
T7 Promoter
Amp
SacB
f1 origin
T7 terminator
XbaI (2254)
CAG enhancer
CBh Promoter
EcoRI (7790)
FLAG
Zeocin
NLS
EcoRI (7346)
SV40 NLS
sPCas9n(D10A)

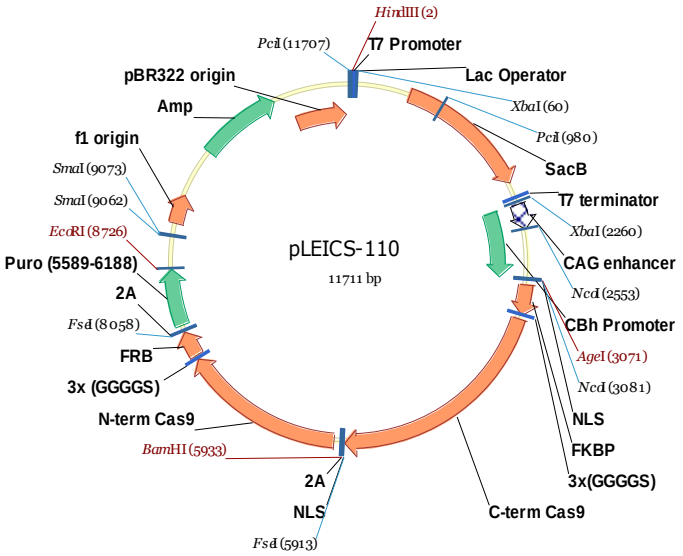

pLEICS-107
9643 bp
AleI (9639)
T7 terminator
RRE
T7 Promoter
NotI (9210)
Lac Operator
NruI (8899)
XbaI (54)
Psi
NotI (151)
5'LTR
SacB
KpnI (1671)
pUC Origin
SmaI (2256)
EF-1a Promoter
Amp
f1 origin
Puromycin
SV40 late poly A
WPRE
3'LTR

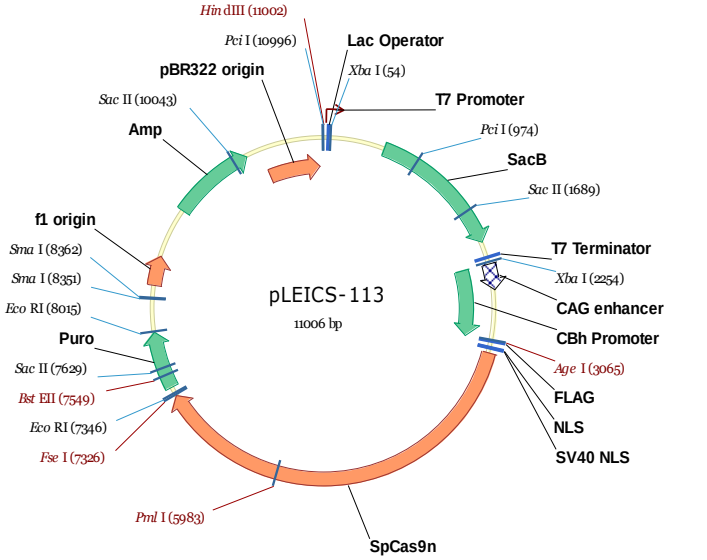

pLEICS-108
12859 bp
Amp
CMV Promoter
5'LTR
Psi
RRE
cPPT
EFS-NS promoter
AgeI (2864)
XbaI (2870)
AfeI (2877)
Cas9
2A
FLAG
NLS
BamHI (7063)
Blasticidin
EcoRI (7528)
WPRE
3' LTR
f1 orgin
SV40 Enhancer
SV40 late poly A
Lac Operator
pUC Origin

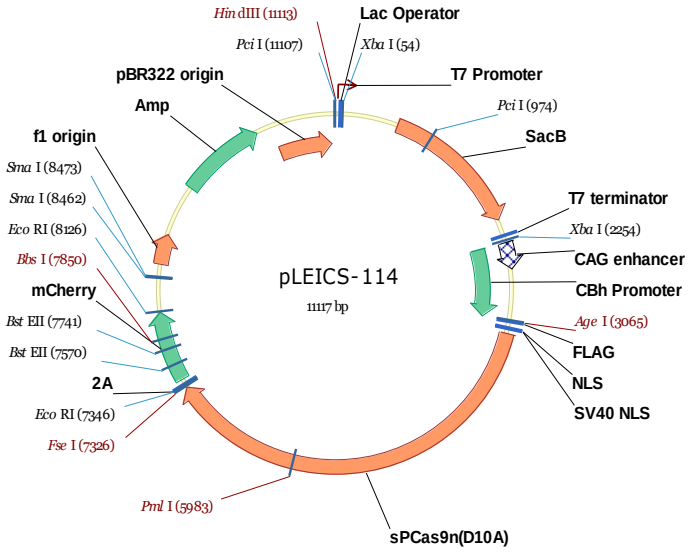

pLEICS-111
11906 bp
HindIII (2)
T7 Promoter
Lac Operator
Xba I (60)
Pci I (980)
SacB
T7 terminator
Xba I (2260)
CAG enhancer
Nco I (2553)
CBh Promoter
Age I (3071)
Nco I (3081)
NLS
FKBP
3x(GGGGS)
C-term Cas9
Fse I (5913)
NLS
2A
Bam HI (5933)
N-term Cas9
3x (GGGGS)
FRB
Fse I (8058)
2A
Neomycin
Nco I (8686)
Eco RI (8921)
Sma I (9257)
Sma I (9268)
f1 origin
Amp
pBR322 origin
Pci I (11902)

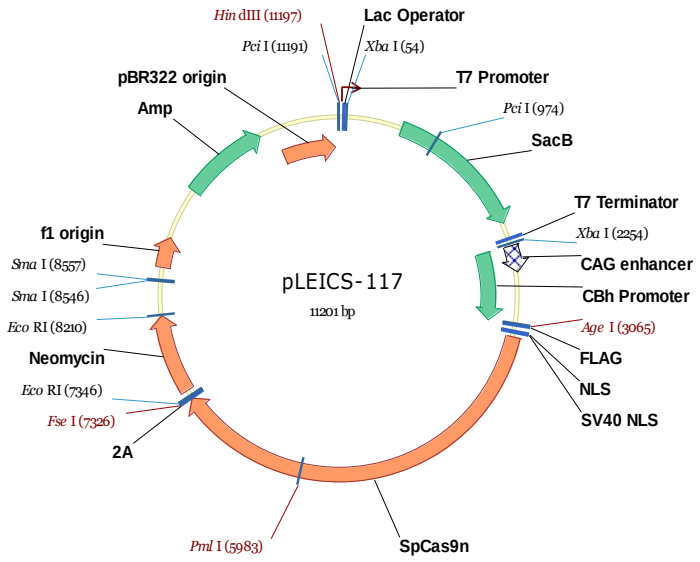

pLEICS-109
15697 bp
Amp
CMV Promoter
5'LTR
psi
RRE
cPPT
KpnI (2607)
T7 Promoter
Lac Operator
SacB
KpnI (4278)
T7 terminator
EcoRI (4861)
EFS Promoter
AgeI (5129)
NLS
FKBP
3x(GGGGS)
C-term Cas9
2A
NLS
BamHI (7991)
N-term Cas9
3X(GGGGS)
FRB
2A
Puromycin
BamHI (10112)
WPRE
3'LTR
f1 Origin
SV40 Enhancer
SV40 late polyA signal
Lac Operator
pUC Origin

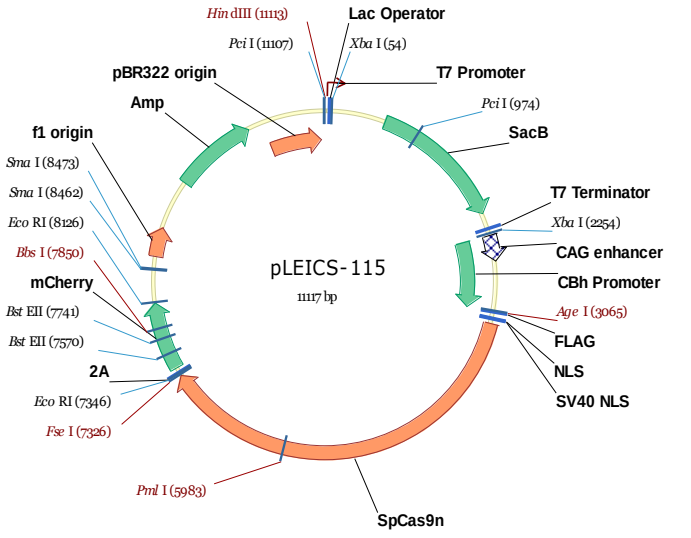

pLEICS-112
11006 bp
HindIII (11002)
Lac Operator
Pci I (10996)
Xba I (54)
T7 Promoter
Pci I (974)
SacB
T7 terminator
Xba I (2254)
CAG enhancer
CBh Promoter
Age I (3065)
FLAG
NLS
SV40 NLS
sPCas9n(D10A)
Pml I (5983)
Fse I (7326)
Eco RI (7346)
2A
Bst EII (7549)
Puro
Eco RI (8015)
f1 origin
Amp
pBR322 origin
SacB

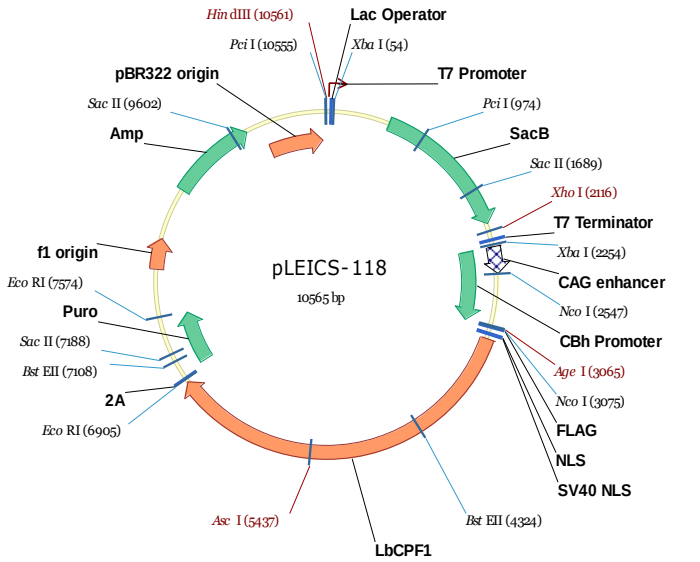

pLEICS-110
11711 bp
HindIII (2)
T7 Promoter
Lac Operator
XbaI (60)
PciI (980)
SacB
T7 terminator
XbaI (2260)
CAG enhancer
NcoI (2553)
CBh Promoter
AgeI (3071)
NcoI (3081)
NLS
FKBP
3x(GGGGS)
C-term Cas9
2A
NLS
FsiI (5913)
BamHI (5933)
N-term Cas9
3x (GGGGS)
FRB
2A
FsiI (8058)
Puro (5589-6188)
EcoRI (8726)
SmaI (9062)
SmaI (9073)
f1 origin
Amp
pBR322 origin
PciI (11707)

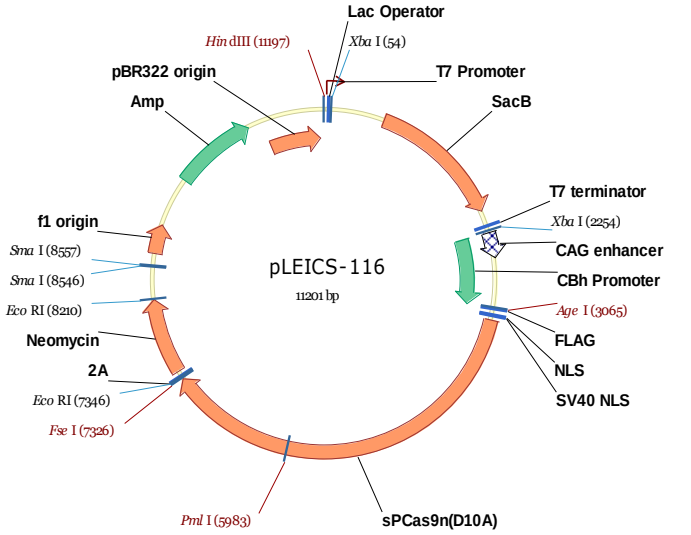

pLEICS-113
11006 bp
HindIII (11002)
Lac Operator
PciI (10996)
XbaI (54)
T7 Promoter
PciI (974)
SacB
SacII (1689)
T7 Terminator
XbaI (2254)
CAG enhancer
CBh Promoter
AgeI (3065)
FLAG
NLS
SV40 NLS
SpCas9n
PmlI (5983)
FseI (7326)
EcoRI (7346)
BstEII (7549)
SacII (7629)
Puro
EcoRI (8015)
SmaI (8351)
SmaI (8362)
f1 origin
SacII (10043)
Amp
pBR322 origin

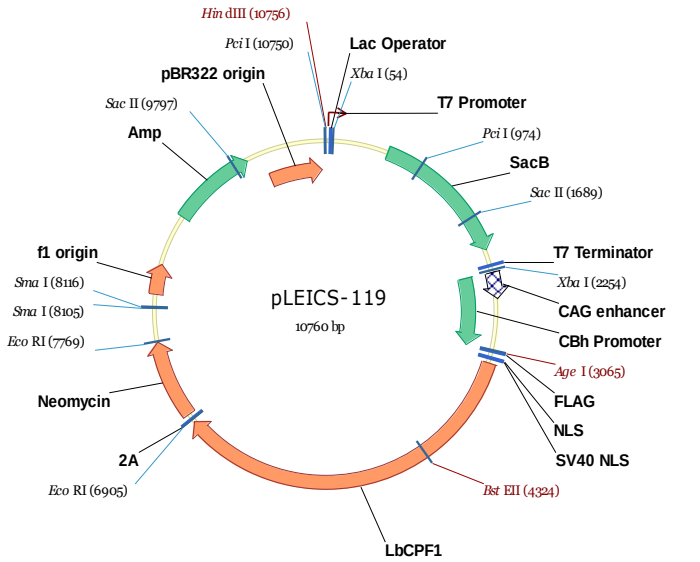

pLEICS-114
11117 bp
Hin dIII (11113)
Pci I (11107)
Lac Operator
Xba I (54)
T7 Promoter
Pci I (974)
SacB
T7 terminator
Xba I (2254)
CAG enhancer
CBh Promoter
Age I (3065)
FLAG
NLS
SV40 NLS
sPCas9n(D10A)
Pml I (5983)
Fse I (7326)
Eco RI (7346)
2A
Bst EII (7570)
Bst EII (7741)
mCherry
Bbs I (7850)
Eco RI (8126)
Sma I (8462)
Sma I (8473)
f1 origin
Amp
pBR322 origin

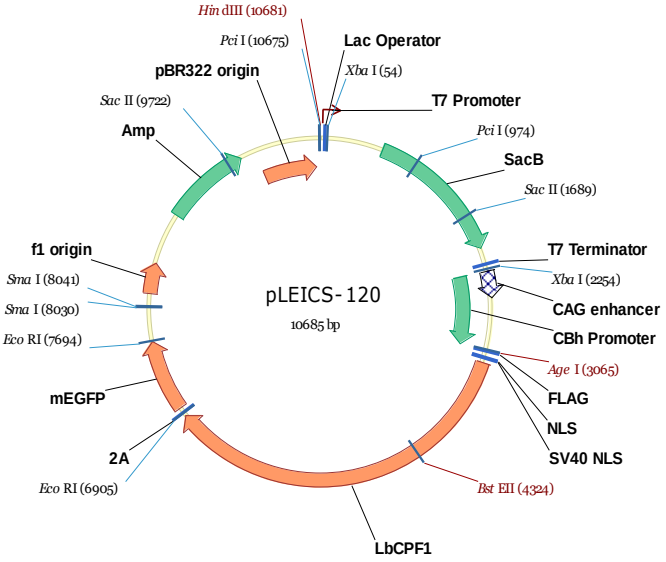

pLEICS-117
11201 bp
Hin dIII (11197)
Pci I (11191)
Lac Operator
Xba I (54)
T7 Promoter
Pci I (974)
SacB
T7 Terminator
Xba I (2254)
CAG enhancer
CBh Promoter
Age I (3065)
FLAG
NLS
SV40 NLS
SpCas9n
Pml I (5983)
2A
Fse I (7326)
Eco RI (7346)
Neomycin
Eco RI (8210)
Sma I (8546)
Sma I (8557)
f1 origin
Amp
pBR322 origin

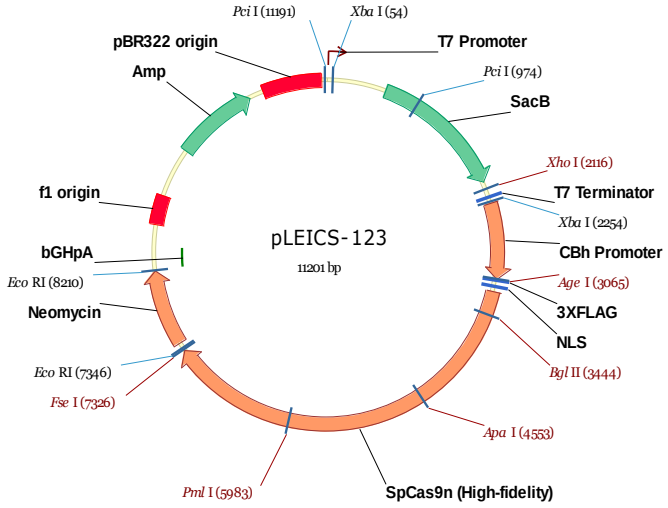

pLEICS-115
11117 bp
Hin dIII (11113)
Pci I (11107)
Lac Operator
Xba I (54)
T7 Promoter
Pci I (974)
SacB
T7 Terminator
Xba I (2254)
CAG enhancer
CBh Promoter
Age I (3065)
FLAG
NLS
SV40 NLS
SpCas9n
Pml I (5983)
Fse I (7326)
Eco RI (7346)
2A
Bst EII (7570)
Bst EII (7741)
mCherry
Bbs I (7850)
Eco RI (8126)
Sma I (8462)
Sma I (8473)
f1 origin
Amp
pBR322 origin

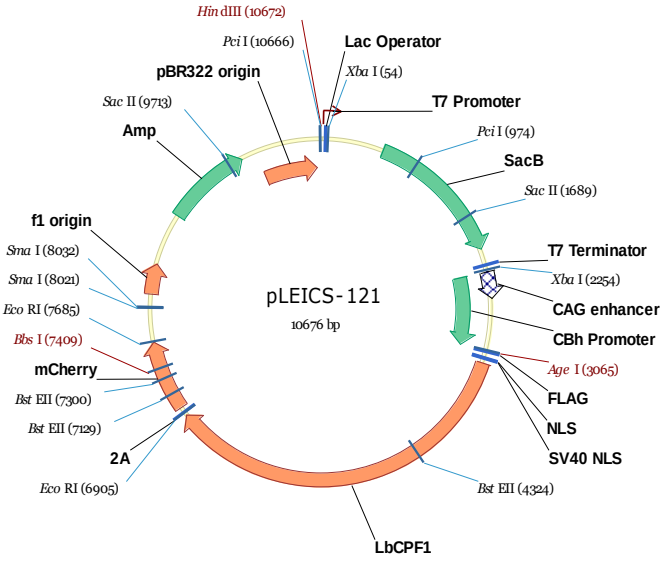

pLEICS-118
10565 bp
Hin dIII (10561)
Pci I (10555)
Lac Operator
Xba I (54)
T7 Promoter
Pci I (974)
SacB
Sac II (1689)
Xho I (2116)
T7 Terminator
Xba I (2254)
CAG enhancer
Nco I (2547)
CBh Promoter
Age I (3065)
Nco I (3075)
FLAG
NLS
SV40 NLS
Bst EII (4324)
LbCPF1
Asc I (5437)
Eco RI (6905)
2A
Bst EII (7108)
Sac II (7188)
Puro
Eco RI (7574)
f1 origin
Amp
Sac II (9602)
pBR322 origin

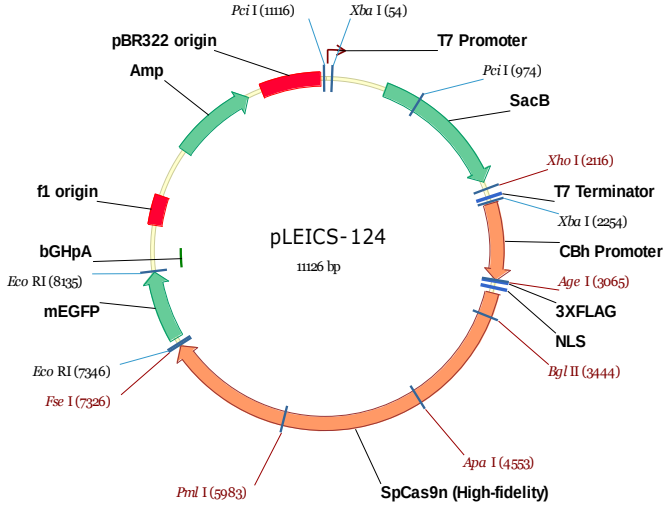

pLEICS-116
11201 bp
Lac Operator
Hin dIII (11197)
Xba I (54)
T7 Promoter
SacB
T7 terminator
Xba I (2254)
CAG enhancer
CBh Promoter
Age I (3065)
FLAG
NLS
SV40 NLS
sPCas9n(D10A)
Pml I (5983)
Fse I (7326)
Eco RI (7346)
2A
Neomycin
Eco RI (8210)
Sma I (8546)
Sma I (8557)
f1 origin
Amp
pBR322 origin

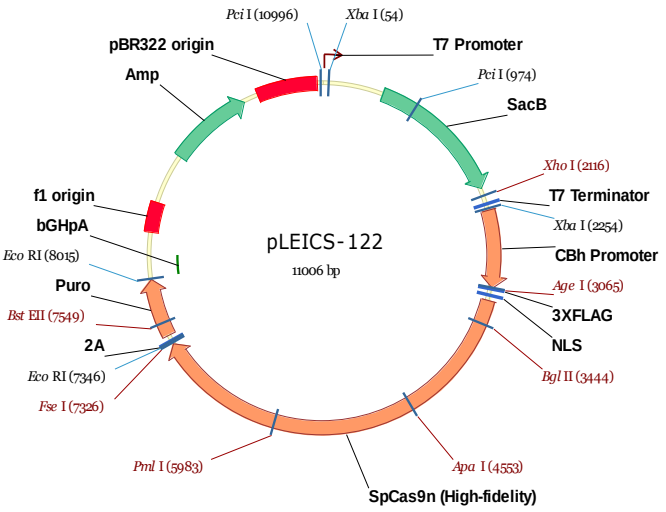

pLEICS-119
10760 bp
Hin dIII (10756)
Pci I (10750)
Lac Operator
Xba I (54)
T7 Promoter
Pci I (974)
SacB
Sac II (1689)
T7 Terminator
Xba I (2254)
CAG enhancer
CBh Promoter
Age I (3065)
FLAG
NLS
SV40 NLS
Bst EII (4324)
LbCPF1
Eco RI (6905)
2A
Neomycin
Eco RI (7769)
Sma I (8105)
Sma I (8116)
f1 origin
Amp
Sac II (9797)
pBR322 origin

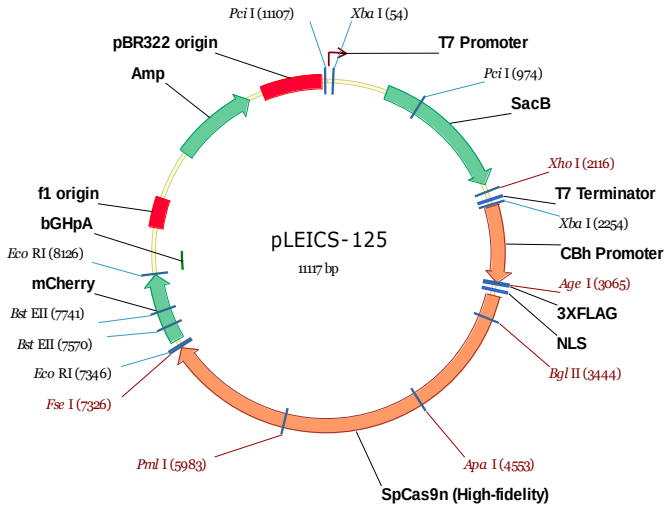

pLEICS-120
10685 bp
Hin dIII (10681)
Pci I (10675)
Lac Operator
pBR322 origin
Xba I (54)
Sac II (9722)
T7 Promoter
Amp
Pci I (974)
SacB
Sac II (1689)
f1 origin
T7 Terminator
Sma I (8041)
Xba I (2254)
Sma I (8030)
CAG enhancer
Eco RI (7694)
CBh Promoter
Age I (3065)
mEGFP
FLAG
NLS
2A
SV40 NLS
Eco RI (6905)
Bst EII (4324)
LbCPF1

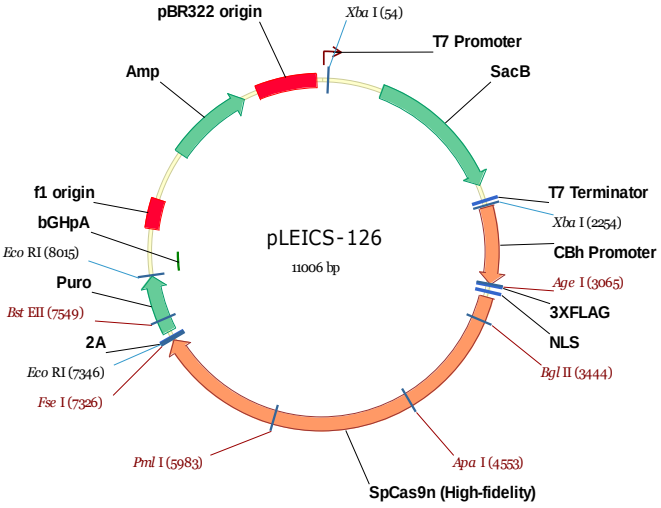

pLEICS-123
11201 bp
Pci I (11191)
Xba I (54)
pBR322 origin
T7 Promoter
Amp
Pci I (974)
SacB
Xho I (2116)
f1 origin
T7 Terminator
Xba I (2254)
bGHpA
CBh Promoter
Eco RI (8210)
Age I (3065)
Neomycin
3XFLAG
NLS
Eco RI (7346)
Bgl II (3444)
Fse I (7326)
Apa I (4553)
Pml I (5983)
SpCas9n (High-fidelity)

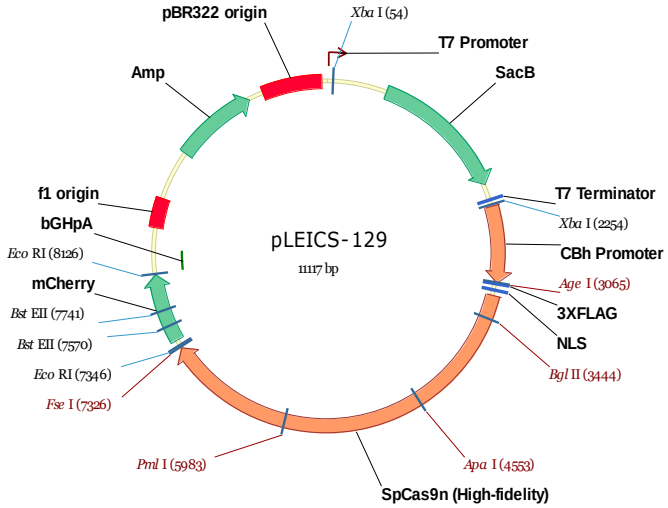

pLEICS-121
10676 bp
Hin dIII (10672)
Pci I (10666)
Lac Operator
pBR322 origin
Xba I (54)
Sac II (9713)
T7 Promoter
Amp
Pci I (974)
SacB
Sac II (1689)
f1 origin
T7 Terminator
Sma I (8032)
Xba I (2254)
Sma I (8021)
CAG enhancer
Eco RI (7685)
CBh Promoter
Bbs I (7409)
Age I (3065)
mCherry
FLAG
Bst EII (7300)
NLS
Bst EII (7129)
2A
SV40 NLS
Eco RI (6905)
Bst EII (4324)
LbCPF1

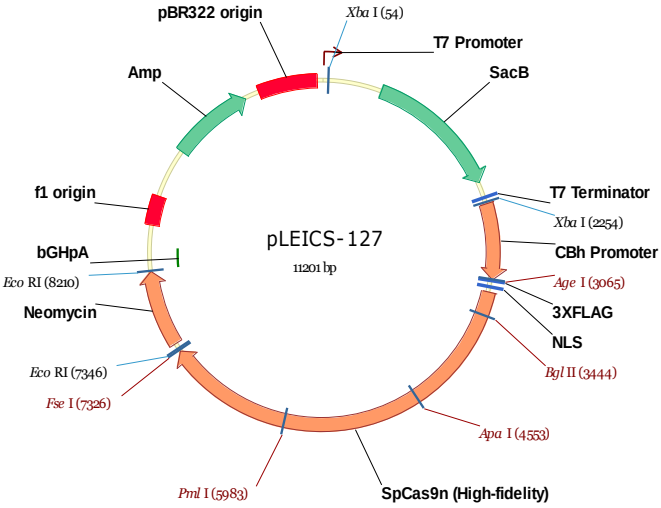

pLEICS-124
11126 bp
Pci I (11116)
Xba I (54)
pBR322 origin
T7 Promoter
Amp
Pci I (974)
SacB
Xho I (2116)
f1 origin
T7 Terminator
Xba I (2254)
bGHpA
CBh Promoter
Eco RI (8135)
Age I (3065)
mEGFP
3XFLAG
NLS
Eco RI (7346)
Bgl II (3444)
Fse I (7326)
Apa I (4553)
Pml I (5983)
SpCas9n (High-fidelity)

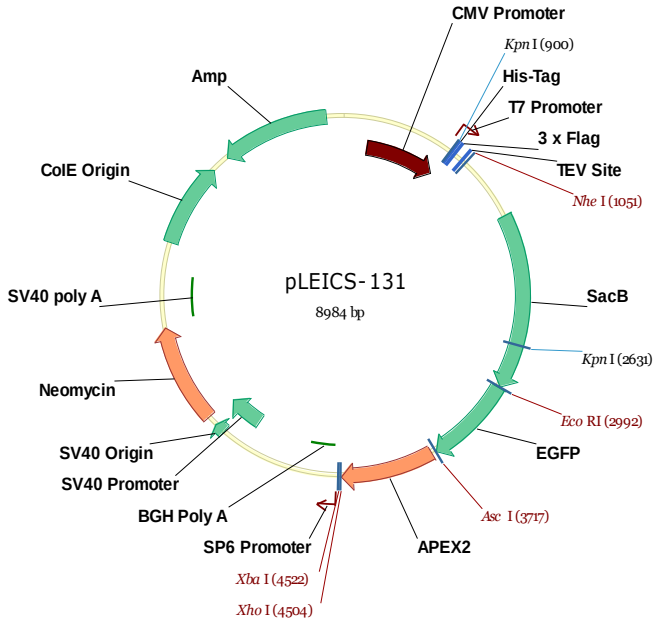

pLEICS-122
11006 bp
Pci I (10996)
Xba I (54)
pBR322 origin
T7 Promoter
Amp
Pci I (974)
SacB
Xho I (2116)
f1 origin
T7 Terminator
bGHpA
Xba I (2254)
Eco RI (8015)
CBh Promoter
Puro
Age I (3065)
Bst EII (7549)
3XFLAG
2A
NLS
Eco RI (7346)
Bgl II (3444)
Fse I (7326)
Pml I (5983)
Apa I (4553)
SpCas9n (High-fidelity)

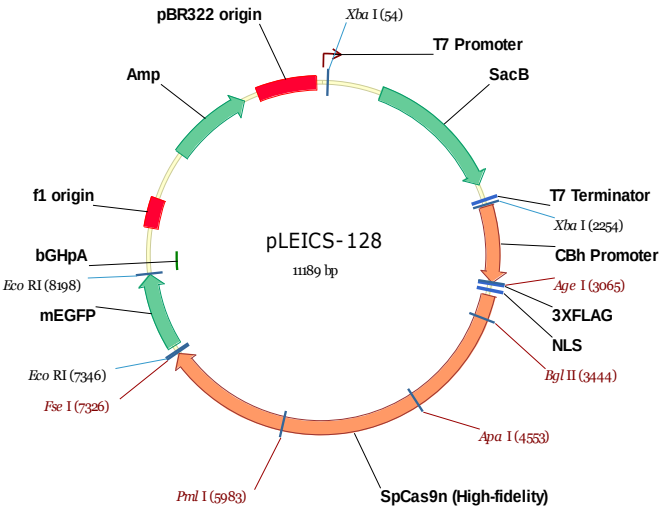

pLEICS-125
11117 bp
Pci I (11107)
Xba I (54)
pBR322 origin
T7 Promoter
Amp
Pci I (974)
SacB
Xho I (2116)
f1 origin
T7 Terminator
bGHpA
Xba I (2254)
Eco RI (8126)
CBh Promoter
mCherry
Age I (3065)
Bst EII (7741)
3XFLAG
Bst EII (7570)
NLS
Eco RI (7346)
Bgl II (3444)
Fse I (7326)
Pml I (5983)
Apa I (4553)
SpCas9n (High-fidelity)

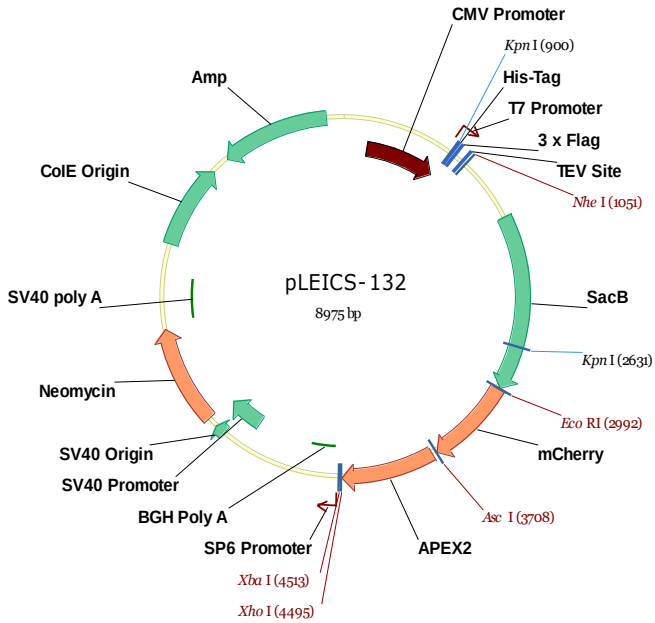

pLEICS-126
11006 bp
pBR322 origin
Xba I (54)
T7 Promoter
SacB
Amp
T7 Terminator
Xba I (2254)
CBh Promoter
Age I (3065)
3XFLAG
NLS
Bgl II (3444)
Apa I (4553)
SpCas9n (High-fidelity)
Pml I (5983)
Fse I (7326)
Eco RI (7346)
2A
Bst EII (7549)
Puro
Eco RI (8015)
bGHpA
f1 origin

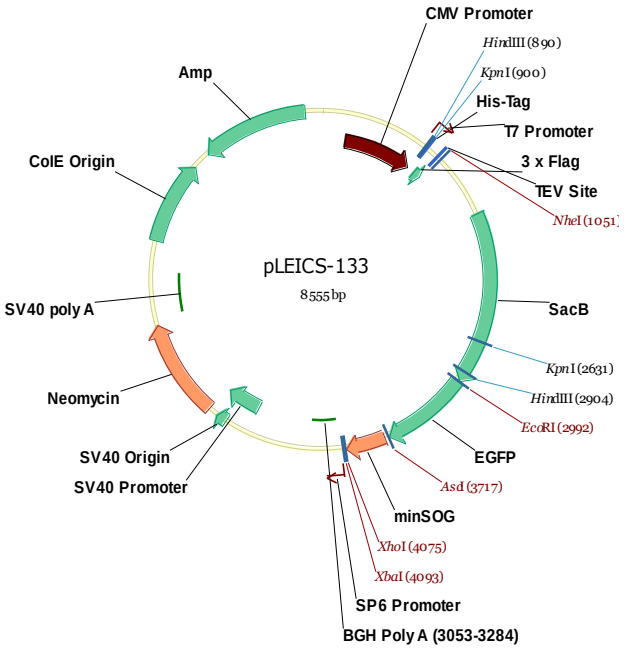

pLEICS-129
11117 bp
pBR322 origin
Xba I (54)
T7 Promoter
SacB
Amp
T7 Terminator
Xba I (2254)
CBh Promoter
Age I (3065)
3XFLAG
NLS
Bgl II (3444)
Apa I (4553)
SpCas9n (High-fidelity)
Pml I (5983)
Fse I (7326)
Eco RI (7346)
Bst EII (7570)
Bst EII (7741)
mCherry
Eco RI (8126)
bGHpA
f1 origin

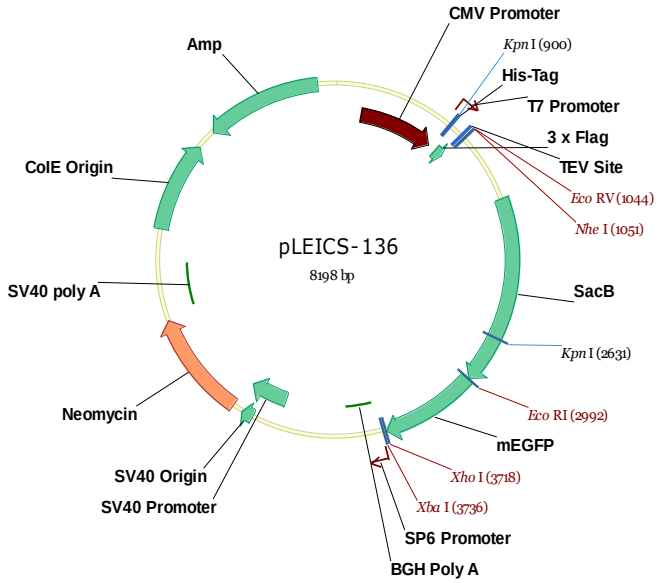

pLEICS-127
11201 bp
pBR322 origin
Xba I (54)
T7 Promoter
SacB
Amp
T7 Terminator
Xba I (2254)
CBh Promoter
Age I (3065)
3XFLAG
NLS
Bgl II (3444)
Apa I (4553)
SpCas9n (High-fidelity)
Pml I (5983)
Fse I (7326)
Eco RI (7346)
Neomycin
Eco RI (8210)
bGHpA
f1 origin

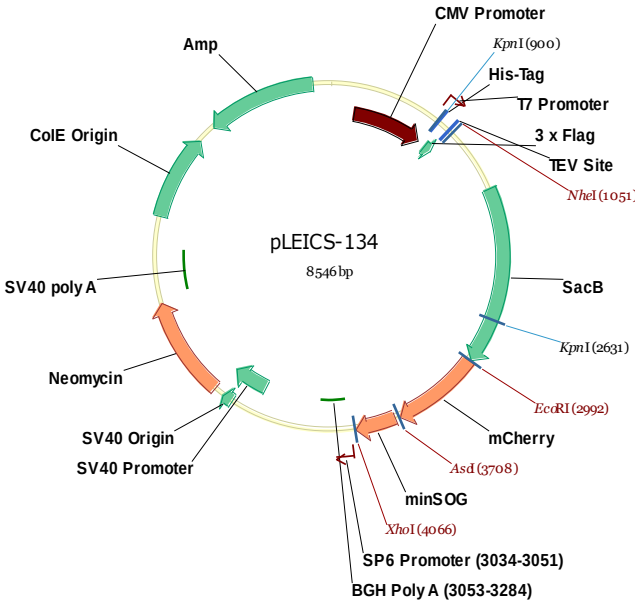

pLEICS-131
8984 bp
CMV Promoter
Kpn I (900)
His-Tag
T7 Promoter
3 x Flag
TEV Site
Nhe I (1051)
Amp
ColE Origin
SV40 poly A
SacB
Kpn I (2631)
Neomycin
Eco RI (2992)
EGFP
SV40 Origin
SV40 Promoter
BGH Poly A
SP6 Promoter
APEX2
Asc I (3717)
Xba I (4522)
Xho I (4504)

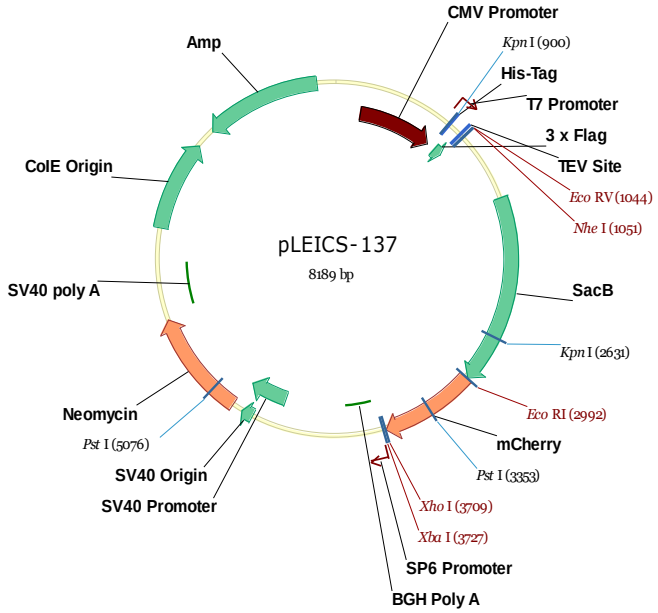

pLEICS-128
11189 bp
pBR322 origin
Xba I (54)
T7 Promoter
SacB
Amp
T7 Terminator
Xba I (2254)
CBh Promoter
Age I (3065)
3XFLAG
NLS
Bgl II (3444)
Apa I (4553)
SpCas9n (High-fidelity)
Pml I (5983)
Fse I (7326)
Eco RI (7346)
mEGFP
Eco RI (8198)
bGHpA
f1 origin

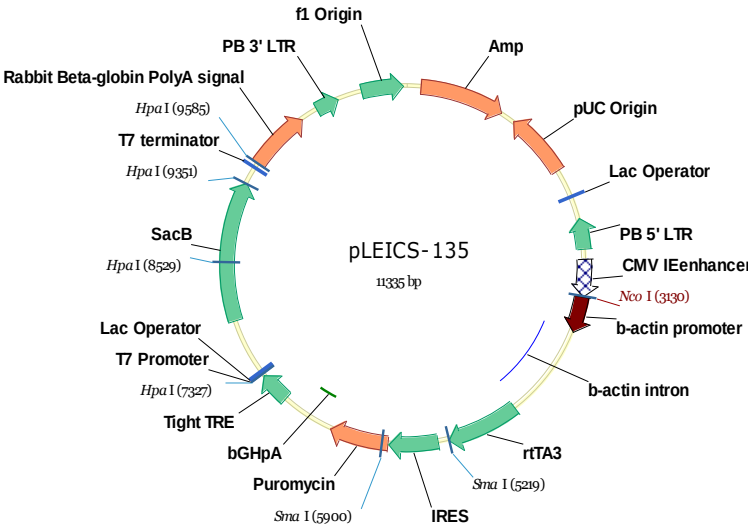

pLEICS-132
8975 bp
CMV Promoter
Kpn I (900)
His-Tag
T7 Promoter
3 x Flag
TEV Site
Nhe I (1051)
Amp
ColE Origin
SV40 poly A
SacB
Kpn I (2631)
Neomycin
Eco RI (2992)
mCherry
SV40 Origin
SV40 Promoter
BGH Poly A
SP6 Promoter
APEX2
Asc I (3708)
Xba I (4513)
Xho I (4495)

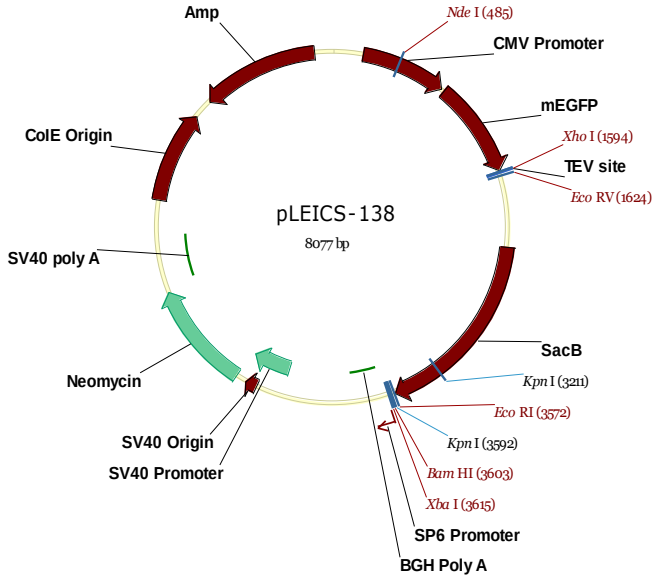

pLEICS-133
8555 bp
CMV Promoter
HindIII (890)
Kpn I (900)
His-Tag
T7 Promoter
3 x Flag
TEV Site
NheI (1051)
SacB
Kpn I (2631)
HindIII (2904)
EcoRI (2992)
EGFP
Asd (3717)
minSOG
XhoI (4075)
XbaI (4093)
SP6 Promoter
BGH Poly A (3053-3284)
SV40 Origin
SV40 Promoter
Neomycin
SV40 poly A
ColE Origin
Amp

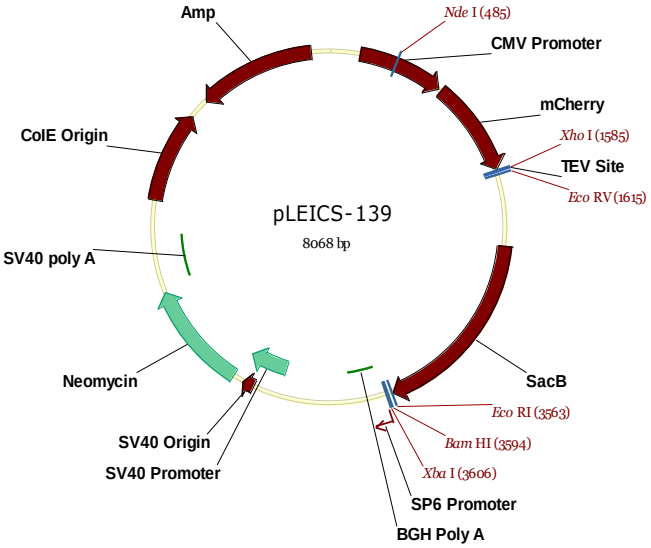

pLEICS-136
8198 bp
CMV Promoter
Kpn I (900)
His-Tag
T7 Promoter
3 x Flag
TEV Site
Eco RV (1044)
Nhe I (1051)
SacB
Kpn I (2631)
Eco RI (2992)
mEGFP
Xho I (3718)
Xba I (3736)
SP6 Promoter
BGH Poly A
SV40 Origin
SV40 Promoter
Neomycin
SV40 poly A
ColE Origin
Amp

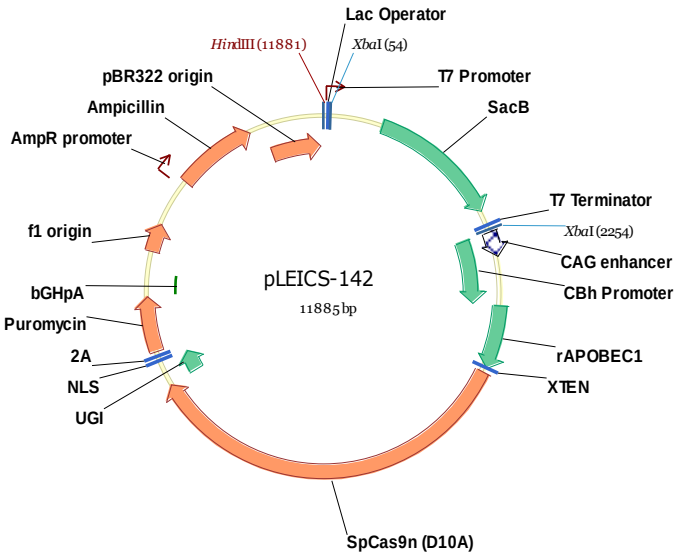

pLEICS-134
8546 bp
CMV Promoter
Kpn I (900)
His-Tag
T7 Promoter
3 x Flag
TEV Site
NheI (1051)
SacB
Kpn I (2631)
EcoRI (2992)
mCherry
Asd (3708)
minSOG
XhoI (4066)
SP6 Promoter (3034-3051)
BGH Poly A (3053-3284)
SV40 Origin
SV40 Promoter
Neomycin
SV40 poly A
ColE Origin
Amp

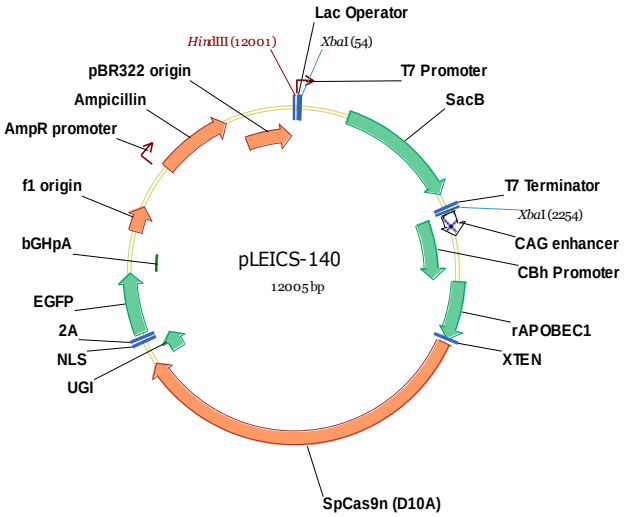

pLEICS-137
8189 bp
CMV Promoter
Kpn I (900)
His-Tag
T7 Promoter
3 x Flag
TEV Site
Eco RV (1044)
Nhe I (1051)
SacB
Kpn I (2631)
Eco RI (2992)
mCherry
Pst I (3353)
Xho I (3709)
Xba I (3727)
SP6 Promoter
BGH Poly A
Neomycin
Pst I (5076)
SV40 Origin
SV40 Promoter
SV40 poly A
ColE Origin
Amp

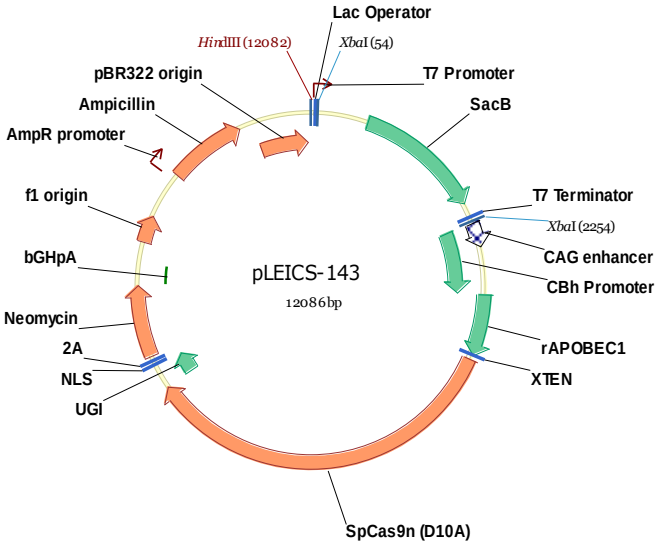

pLEICS-135
11335 bp
f1 Origin
PB 3' LTR
Amp
Rabbit Beta-globin PolyA signal
pUC Origin
Hpa I (9585)
T7 terminator
Lac Operator
Hpa I (9351)
PB 5' LTR
SacB
CMV IEenhancer
Hpa I (8529)
Nco I (3130)
b-actin promoter
Lac Operator
T7 Promoter
b-actin intron
Hpa I (7327)
Tight TRE
rtTA3
bGHpA
Puromycin
Sma I (5219)
Sma I (5900)
IRES

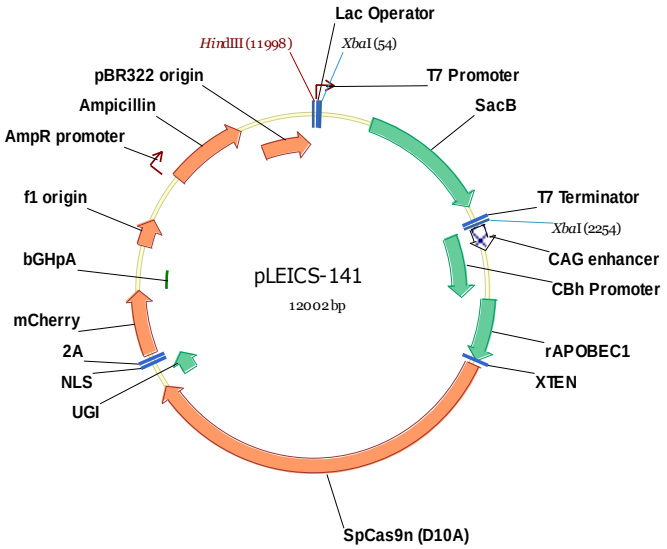

pLEICS-138
8077 bp
Amp
Nde I (485)
CMV Promoter
mEGFP
Xho I (1594)
TEV site
Eco RV (1624)
SacB
Kpn I (3211)
Eco RI (3572)
Kpn I (3592)
Bam HI (3603)
Xba I (3615)
SP6 Promoter
BGH Poly A
SV40 Origin
SV40 Promoter
Neomycin
SV40 poly A
ColE Origin

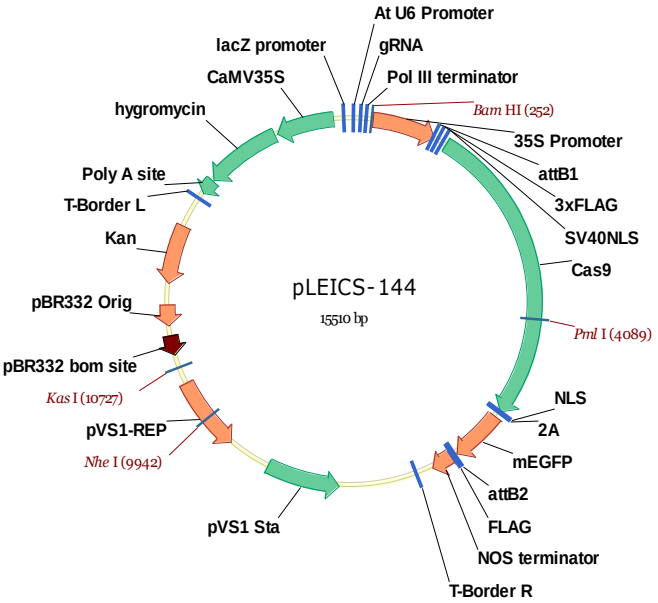

pLEICS-139
8068 bp
Amp
Nde I (485)
CMV Promoter
mCherry
Xho I (1585)
TEV Site
Eco RV (1615)
ColE Origin
SV40 poly A
Neomycin
SV40 Origin
SV40 Promoter
SacB
Eco RI (3563)
Bam HI (3594)
Xba I (3606)
SP6 Promoter
BGH Poly A

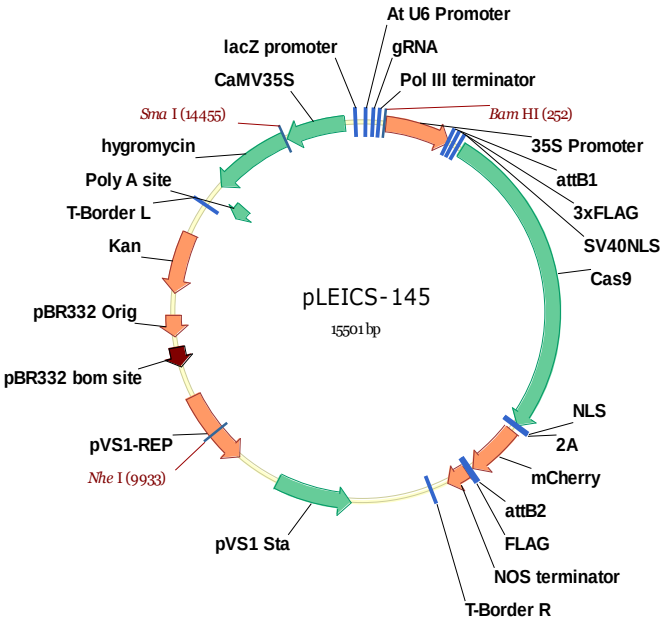

pLEICS-142
11885 bp
Lac Operator
HindIII (11881)
XbaI (54)
pBR322 origin
T7 Promoter
Ampicillin
SacB
AmpR promoter
T7 Terminator
XbaI (2254)
f1 origin
CAG enhancer
CBh Promoter
bGHpA
Puromycin
rAPOBEC1
2A
XTEN
NLS
UGI
SpCas9n (D10A)

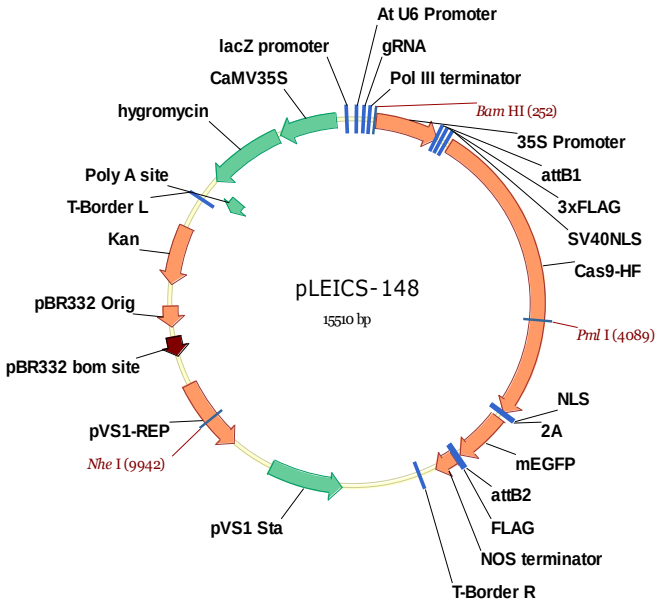

pLEICS-140
12005 bp
Lac Operator
HindIII (12001)
XbaI (54)
pBR322 origin
T7 Promoter
Ampicillin
SacB
AmpR promoter
T7 Terminator
XbaI (2254)
f1 origin
CAG enhancer
CBh Promoter
bGHpA
EGFP
rAPOBEC1
2A
XTEN
NLS
UGI
SpCas9n (D10A)

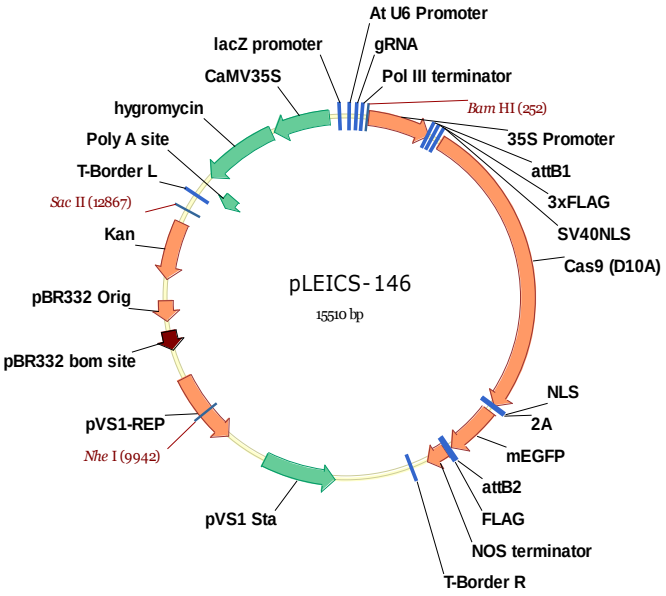

pLEICS-143
12086 bp
Lac Operator
HindIII (12082)
XbaI (54)
pBR322 origin
T7 Promoter
Ampicillin
SacB
AmpR promoter
T7 Terminator
XbaI (2254)
f1 origin
CAG enhancer
CBh Promoter
bGHpA
Neomycin
rAPOBEC1
2A
XTEN
NLS
UGI
SpCas9n (D10A)

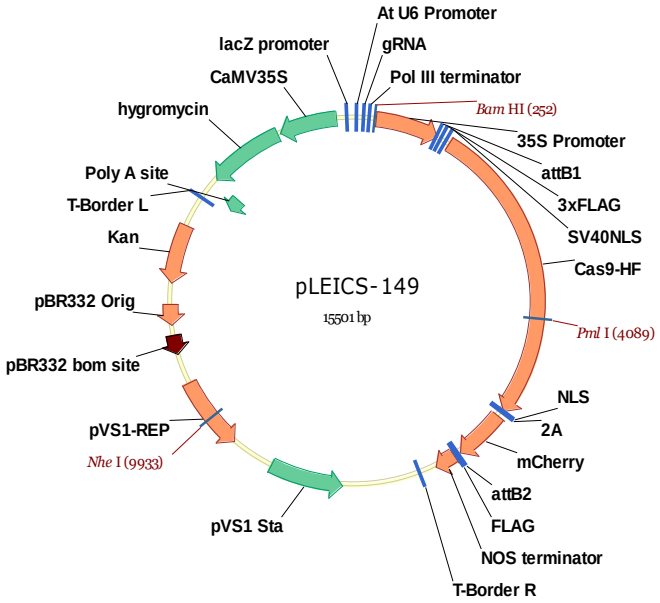

pLEICS-141
12002 bp
Lac Operator
HindIII (11998)
XbaI (54)
pBR322 origin
T7 Promoter
Ampicillin
SacB
AmpR promoter
T7 Terminator
XbaI (2254)
f1 origin
CAG enhancer
CBh Promoter
bGHpA
mCherry
rAPOBEC1
2A
XTEN
NLS
UGI
SpCas9n (D10A)

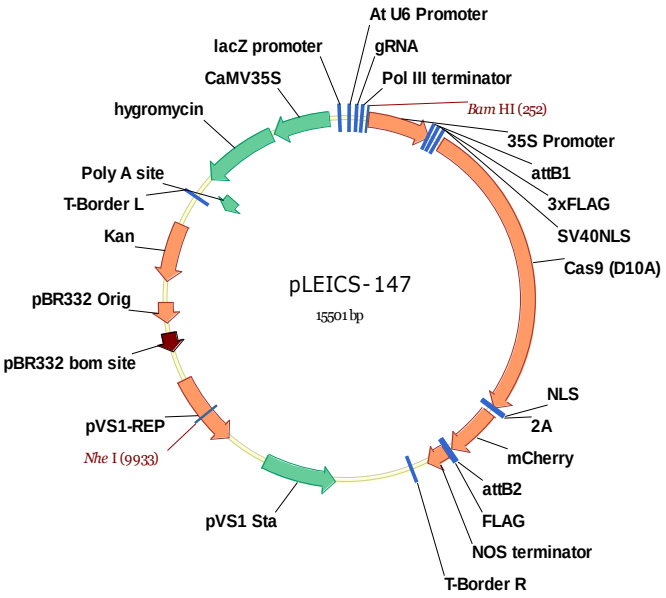

pLEICS-144
15510 bp
At U6 Promoter
lacZ promoter
gRNA
CaMV35S
Pol III terminator
hygromycin
Bam HI (252)
35S Promoter
attB1
Poly A site
3xFLAG
T-Border L
SV40NLS
Kan
Cas9
pBR332 Orig
Pml I (4089)
pBR332 bom site
Kas I (10727)
NLS
pVS1-REP
2A
Nhe I (9942)
mEGFP
attB2
pVS1 Sta
FLAG
NOS terminator
T-Border R

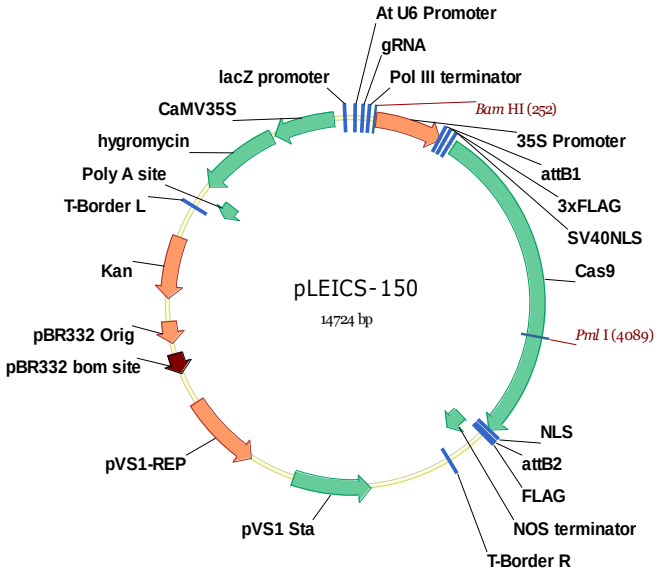

pLEICS-145
15501 bp
At U6 Promoter
gRNA
lacZ promoter
Pol III terminator
CaMV35S
Sma I (14455)
Bam HI (252)
hygromycin
35S Promoter
attB1
Poly A site
3xFLAG
T-Border L
SV40NLS
Kan
Cas9
pBR332 Orig
pBR332 bom site
NLS
2A
pVS1-REP
mCherry
Nhe I (9933)
attB2
FLAG
pVS1 Sta
NOS terminator
T-Border R

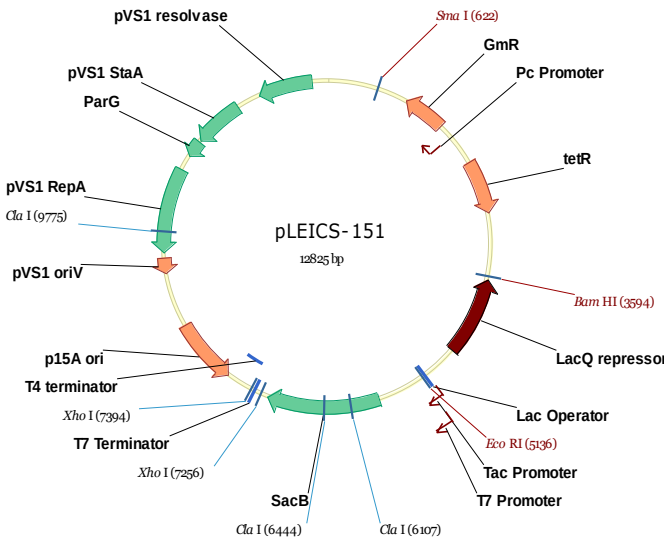

pLEICS-148
15510 bp
At U6 Promoter
gRNA
lacZ promoter
Pol III terminator
CaMV35S
Bam HI (252)
hygromycin
35S Promoter
attB1
Poly A site
3xFLAG
T-Border L
SV40NLS
Kan
Cas9-HF
pBR332 Orig
Pml I (4089)
pBR332 bom site
NLS
2A
pVS1-REP
mEGFP
Nhe I (9942)
attB2
FLAG
pVS1 Sta
NOS terminator
T-Border R


pLEICS-146
15510 bp
At U6 Promoter
gRNA
lacZ promoter
Pol III terminator
CaMV35S
Bam HI (252)
hygromycin
35S Promoter
attB1
Poly A site
3xFLAG
T-Border L
SV40NLS
Sac II (12867)
Cas9 (D10A)
Kan
pBR332 Orig
pBR332 bom site
NLS
2A
pVS1-REP
mEGFP
Nhe I (9942)
attB2
FLAG
pVS1 Sta
NOS terminator
T-Border R


pLEICS-149
15501 bp
At U6 Promoter
gRNA
lacZ promoter
Pol III terminator
CaMV35S
Bam HI (252)
hygromycin
35S Promoter
attB1
Poly A site
3xFLAG
T-Border L
SV40NLS
Kan
Cas9-HF
pBR332 Orig
Pml I (4089)
pBR332 bom site
NLS
2A
pVS1-REP
mCherry
Nhe I (9933)
attB2
FLAG
pVS1 Sta
NOS terminator
T-Border R


pLEICS-147
15501 bp
At U6 Promoter
gRNA
lacZ promoter
Pol III terminator
CaMV35S
Bam HI (252)
hygromycin
35S Promoter
attB1
Poly A site
3xFLAG
T-Border L
SV40NLS
Kan
Cas9 (D10A)
pBR332 Orig
pBR332 bom site
NLS
2A
pVS1-REP
mCherry
Nhe I (9933)
attB2
FLAG
pVS1 Sta
NOS terminator
T-Border R


pLEICS-150
14724 bp
At U6 Promoter
gRNA
lacZ promoter
Pol III terminator
CaMV35S
Bam HI (252)
hygromycin
35S Promoter
attB1
Poly A site
3xFLAG
T-Border L
SV40NLS
Kan
Cas9
pBR332 Orig
Pml I (4089)
pBR332 bom site
NLS
pVS1-REP
attB2
FLAG
pVS1 Sta
NOS terminator
T-Border R


pVS1 resolvase
Sma I (622)
GmR
Pc Promoter
pVS1 StaA
ParG
tetR
pVS1 RepA
Cla I (9775)
pLEICS-151
12825 bp
pVS1 oriV
Bam HI (3594)
LacQ repressor
p15A ori
T4 terminator
Lac Operator
Xho I (7394)
Eco RI (5136)
T7 Terminator
Tac Promoter
Xho I (7256)
T7 Promoter
SacB
Cla I (6444)
Cla I (6107)