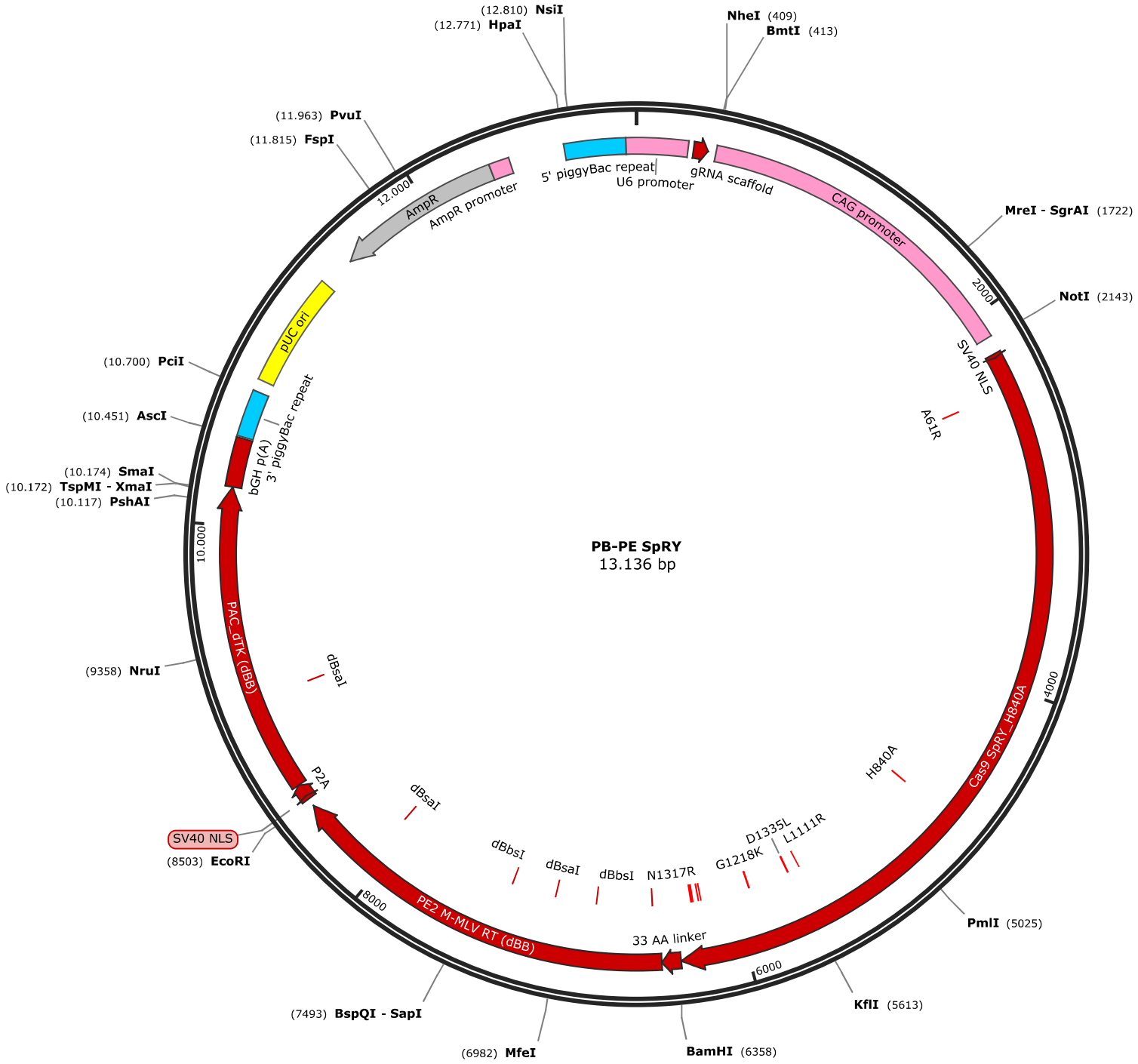
PB-PE SpRY
13.136 bp
(12.810) NsiI
(12.771) HpaI
NheI (409)
BmtI (413)
(11.963) PvuI
(11.815) FspI
MreI - SgrAI (1722)
NotI (2143)
(10.700) PciI
(10.451) AscI
(10.174) SmaI
(10.172) TspMI - XmaI
(10.117) PshAI
(9358) NruI
(8503) EcoRI
(7493) BspQI - SapI
(6982) MfeI
BamHI (6358)
KflI (5613)
PmlI (5025)
12.000
2000
4000
6000
8000
10.000
5' piggyBac repeat
U6 promoter
gRNA scaffold
CAG promoter
SV40 NLS
A61R
H840A
Cas9 SpRY_H840A
D1335L
L1111R
G1218K
N1317R
dBbsI
dBsaI
33 AA linker
PE2 M-MLV RT (dBB)
P2A
PAC_dTK (dBB)
SV40 NLS
bGH p(A)
3' piggyBac repeat
pUC ori
AmpR
AmpR promoter