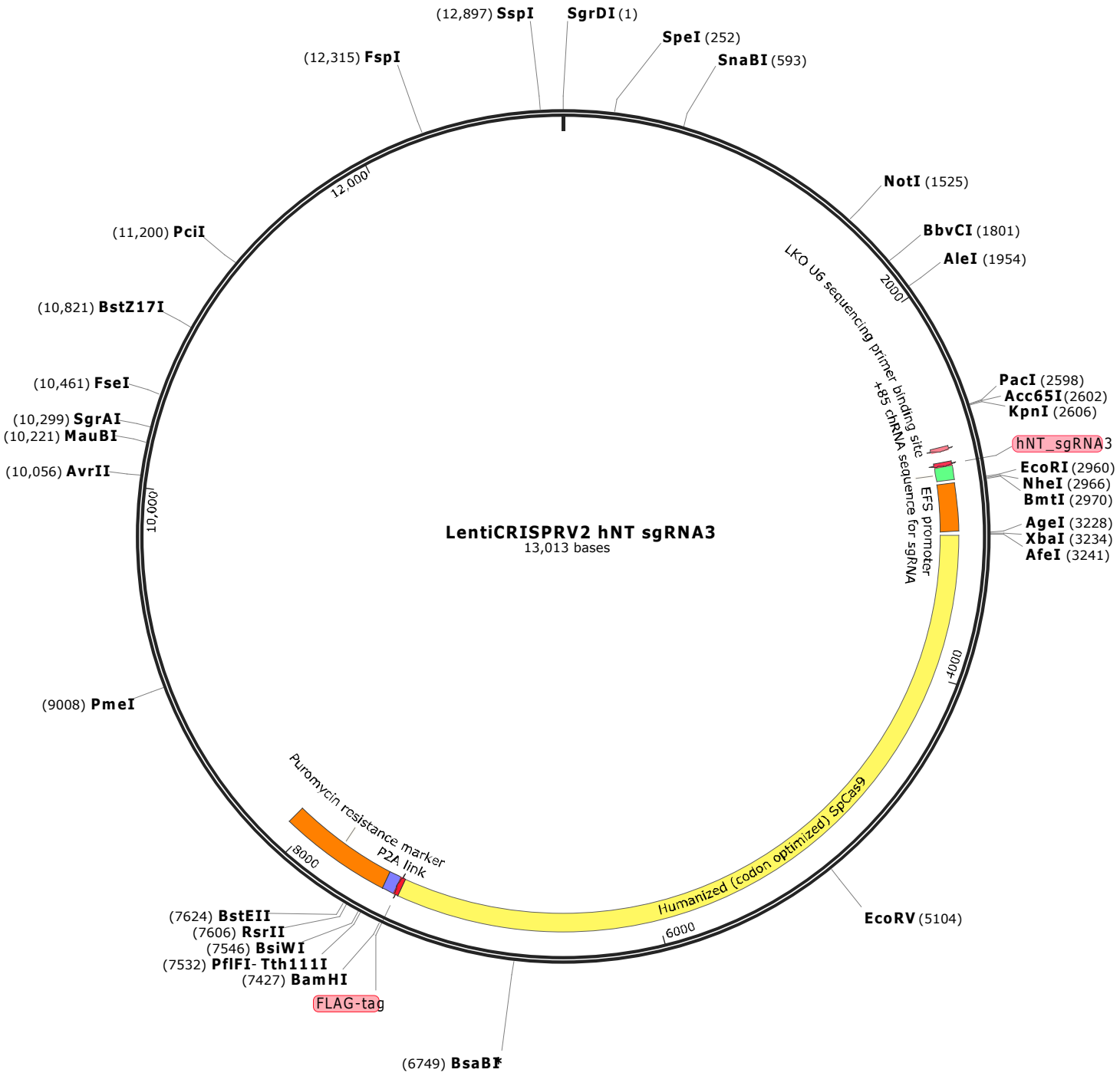
LentiCRISPRV2 hNT sgRNA3
13,013 bases
(12,897) SspI
SgrDI (1)
SpeI (252)
SnaBI (593)
NotI (1525)
BbvCI (1801)
AleI (1954)
PacI (2598)
Acc65I (2602)
KpnI (2606)
hNT_sgRNA3
EcoRI (2960)
NheI (2966)
BmtI (2970)
AgeI (3228)
XbaI (3234)
AfeI (3241)
EcoRV (5104)
(6749) BsaBI
(7624) BstEII
(7606) RsrII
(7546) BsiWI
(7532) PflFI- Tth111I
(7427) BamHI
FLAG-tag
(9008) PmeI
(10,056) AvrII
(10,221) MauBI
(10,299) SgrAI
(10,461) FseI
(10,821) BstZ17I
(11,200) PciI
(12,315) FspI
12,000
2000
4000
6000
8000
10,000
LKO U6 sequencing primer binding site
+85 chRNA sequence for sgRNA
EFS promoter
Humanized (codon optimized) SpCas9
Puromycin resistance marker
P2A link