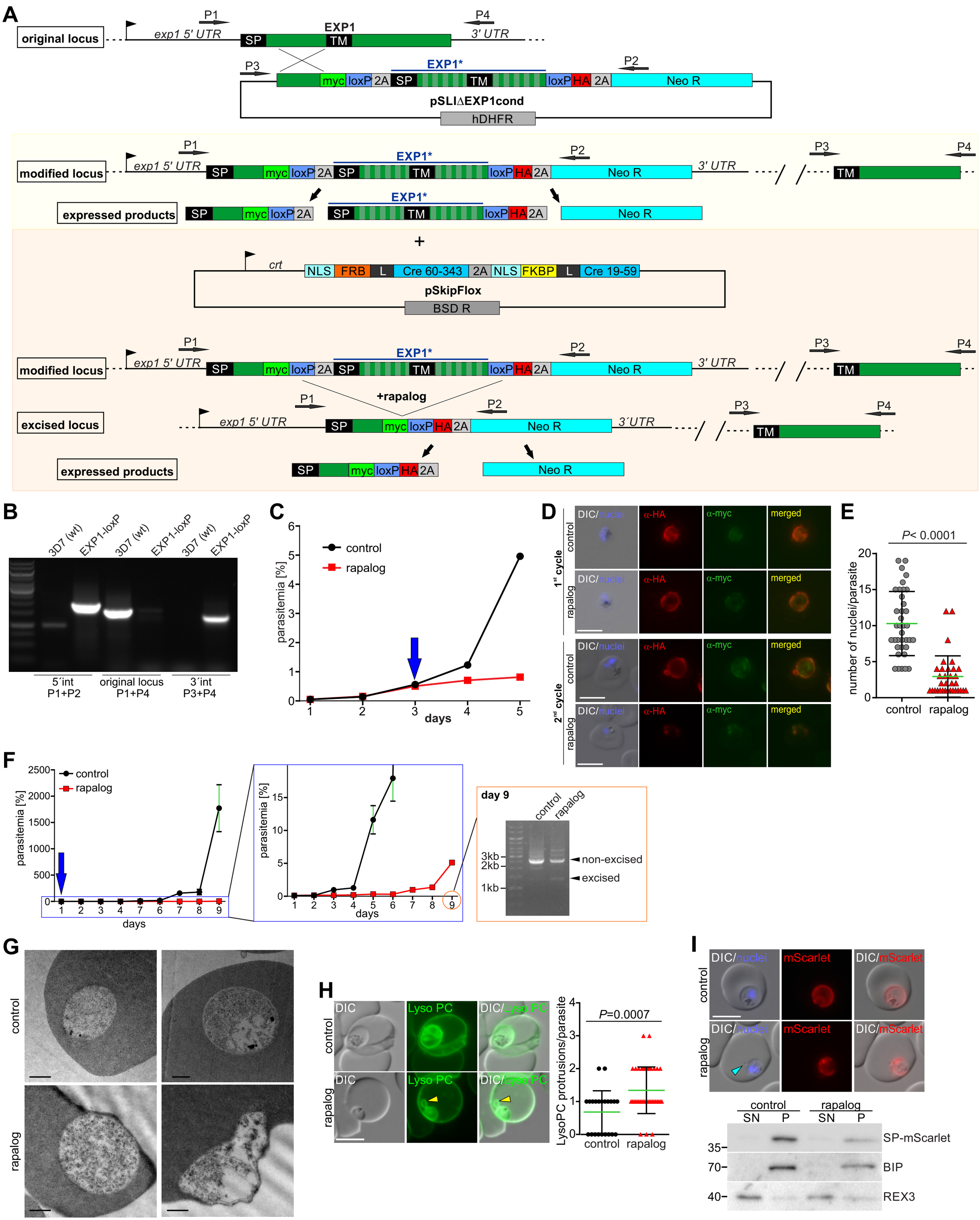
A
original locus
exp1 5' UTR
P1
EXP1
SP
TM
P4
3' UTR
P3
EXP1*
P2
myc
loxP
2A
HA
Neo R
pSLIΔEXP1cond
hDHFR
modified locus
expressed products
+
crt
NLS
FRB
L
Cre 60-343
FKBP
Cre 19-59
pSkipFlox
BSD R
+rapalog
excised locus
3´UTR
B
3D7 (wt)
EXP1-loxP
5´int P1+P2
original locus P1+P4
3´int P3+P4
C
control
rapalog
parasitemia [%]
days
D
DIC/nuclei
α-HA
α-myc
merged
1st cycle
2nd cycle
E
P< 0.0001
number of nuclei/parasite
F
day 9
3kb
2kb
1kb
non-excised
excised
G
H
DIC
Lyso PC
DIC/Lyso PC
P=0.0007
LysoPC protrusions/parasite
I
mScarlet
DIC/mScarlet
SN
P
SP-mScarlet
BIP
REX3