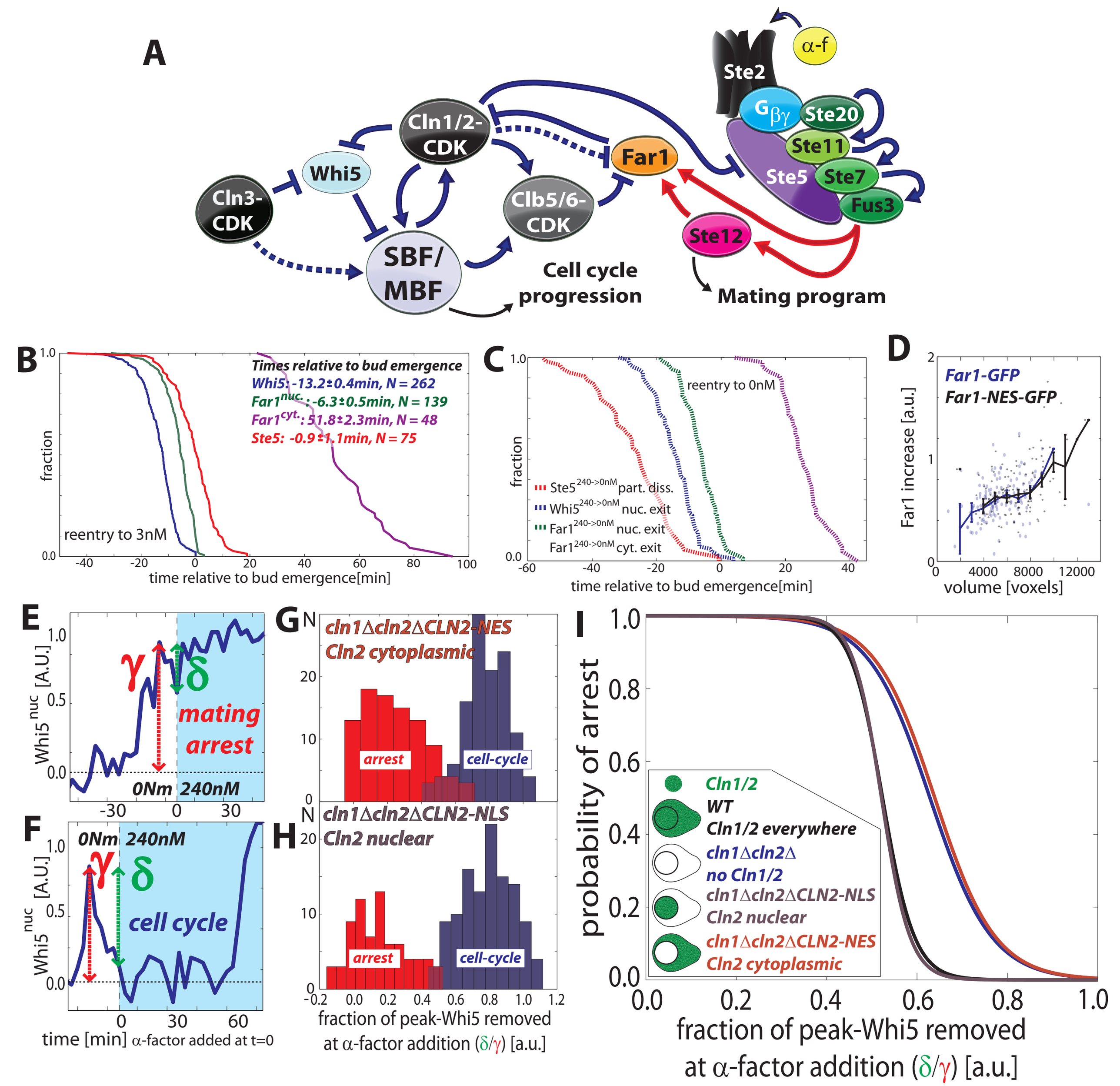
A
Ste2
α-f
Gβγ
Ste20
Ste11
Ste5
Ste7
Fus3
Cln1/2-CDK
Far1
Whi5
Cln3-CDK
Clb5/6-CDK
SBF/MBF
Ste12
Cell cycle progression
Mating program
B
Times relative to bud emergence
Whi5: -13.2±0.4min, N = 262
Far1nuc.: -6.3±0.5min, N = 139
Far1cyt.: 51.8±2.3min, N = 48
Ste5: -0.9±1.1min, N = 75
reentry to 3nM
fraction
time relative to bud emergence[min]
C
reentry to 0nM
Ste5240->0nM part. diss.
Whi5240->0nM nuc. exit
Far1240->0nM nuc. exit
Far1240->0nM cyt. exit
fraction
time relative to bud emergence[min]
D
Far1-GFP
Far1-NES-GFP
Far1 increase [a.u.]
volume [voxels]
E
γ
δ
mating arrest
0Nm 240nM
Whi5nuc [A.U.]
F
0Nm 240nM
γ
δ
cell cycle
Whi5nuc [A.U.]
time [min] α-factor added at t=0
G
cln1Δcln2ΔCLN2-NES
Cln2 cytoplasmic
arrest
cell-cycle
H
cln1Δcln2ΔCLN2-NLS
Cln2 nuclear
arrest
cell-cycle
fraction of peak-Whi5 removed at α-factor addition (δ/γ) [a.u.]
I
Cln1/2
WT
Cln1/2 everywhere
cln1Δcln2Δ
no Cln1/2
cln1Δcln2ΔCLN2-NLS
Cln2 nuclear
cln1Δcln2ΔCLN2-NES
Cln2 cytoplasmic
probability of arrest
fraction of peak-Whi5 removed at α-factor addition (δ/γ) [a.u.]