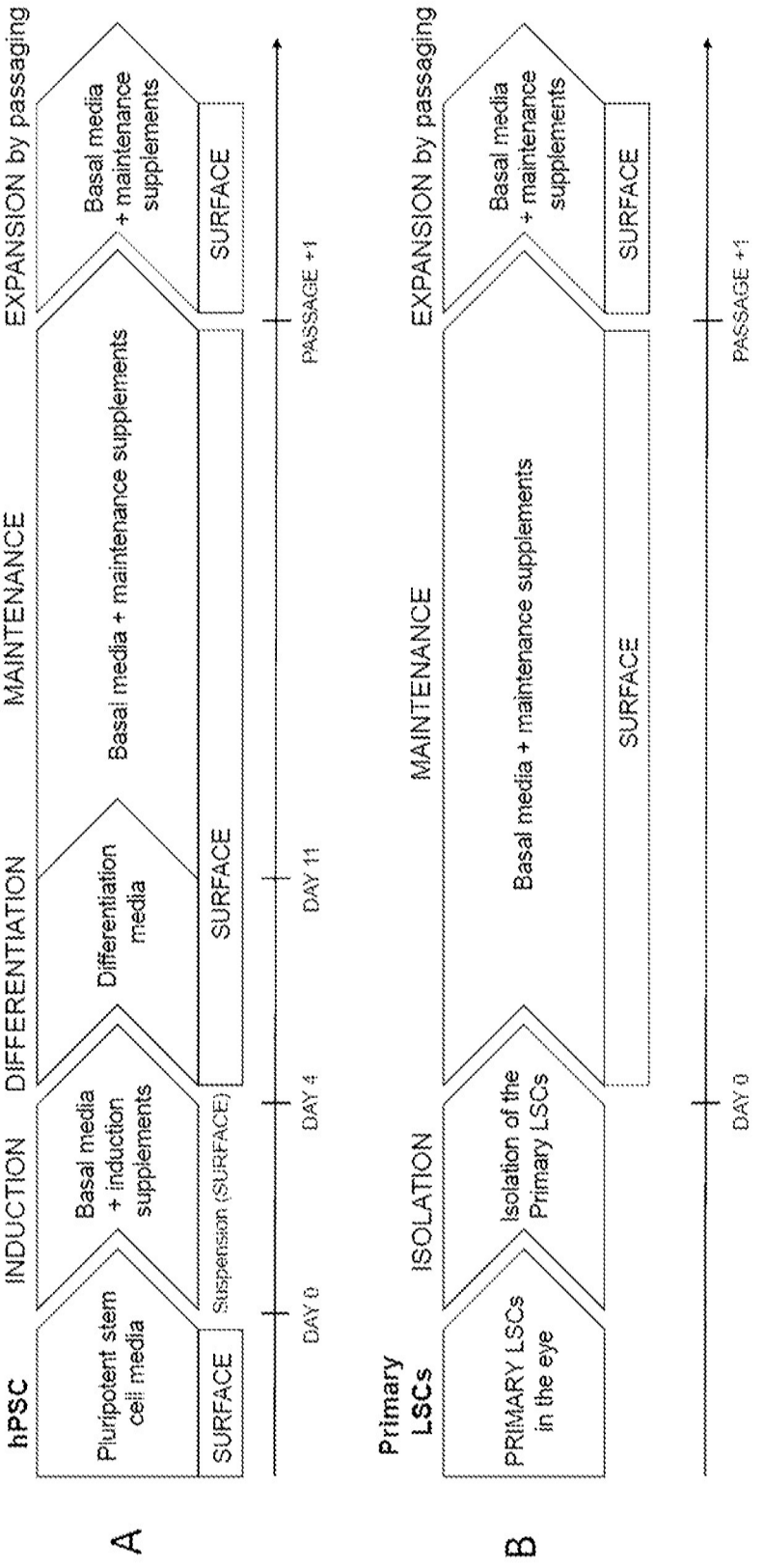

A
hPSC
INDUCTION
DIFFERENTIATION
MAINTENANCE
EXPANSION by passaging
Pluripotent stem cell media
Basal media + induction supplements
Differentiation media
Basal media + maintenance supplements
Basal media + maintenance supplements
SURFACE
Suspension (SURFACE)
SURFACE
SURFACE
DAY 0
DAY 4
DAY 11
PASSAGE +1
B
Primary LSCs
ISOLATION
MAINTENANCE
EXPANSION by passaging
PRIMARY LSCs in the eye
Isolation of the Primary LSCs
Basal media + maintenance supplements
Basal media + maintenance supplements
SURFACE
SURFACE
DAY 0
PASSAGE +1

Figure 1

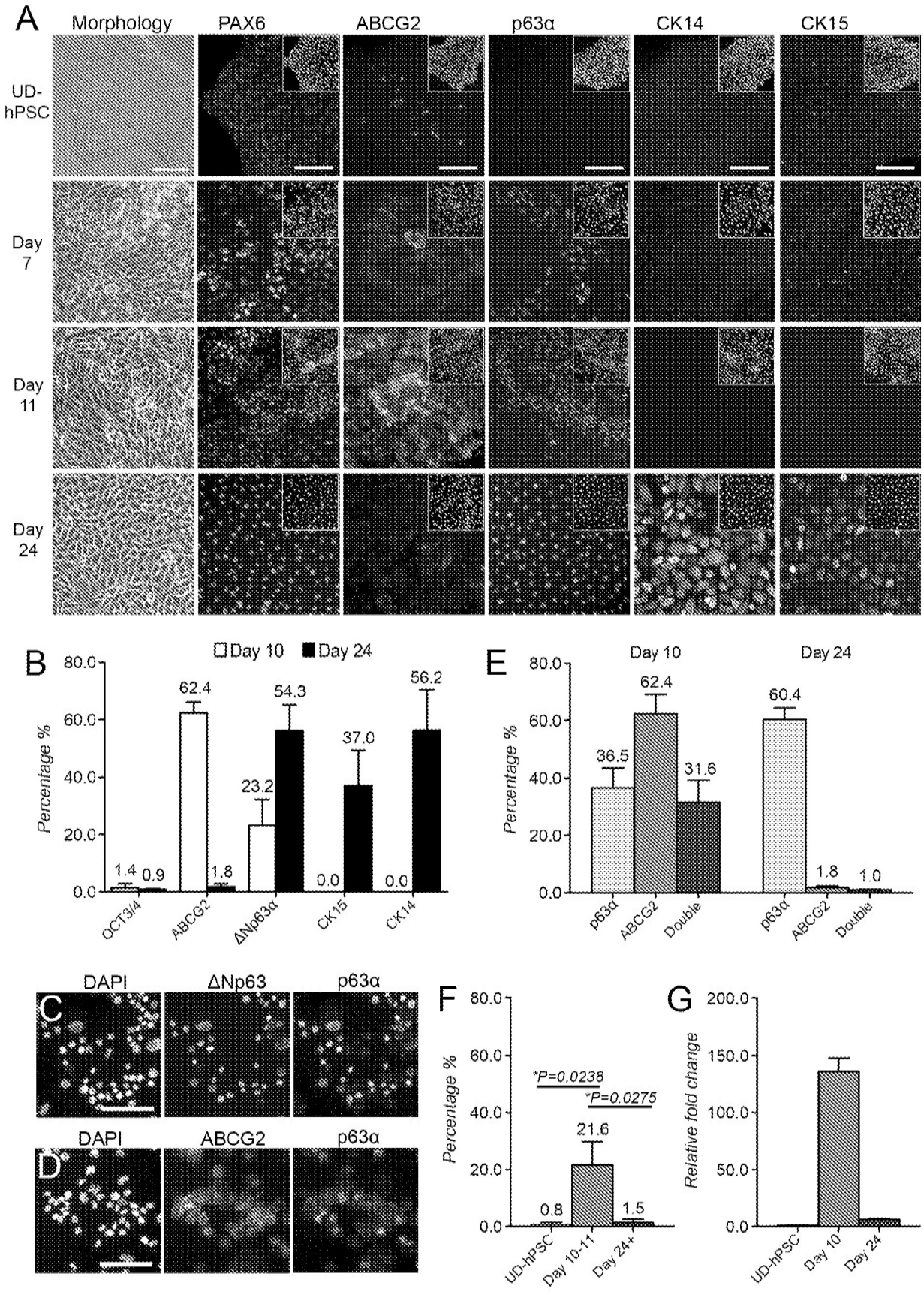

A
Morphology
PAX6
ABCG2
p63α
CK14
CK15
UD-hPSC
Day 7
Day 11
Day 24
B
Day 10
Day 24
Percentage %
80.0
60.0
40.0
20.0
0.0
62.4
54.3
56.2
37.0
23.2
1.4
0.9
1.8
0.0
0.0
OCT3/4
ABCG2
ΔNp63α
CK15
CK14
E
Day 10
Day 24
Percentage %
36.5
62.4
31.6
60.4
1.8
1.0
p63α
ABCG2
Double
C
DAPI
ΔNp63
p63α
D
DAPI
ABCG2
p63α
F
Percentage %
*P=0.0238
*P=0.0275
21.6
0.8
1.5
UD-hPSC
Day 10-11
Day 24+
G
Relative fold change
200.0
150.0
100.0
50.0
0.0
UD-hPSC
Day 10
Day 24

Figure 2

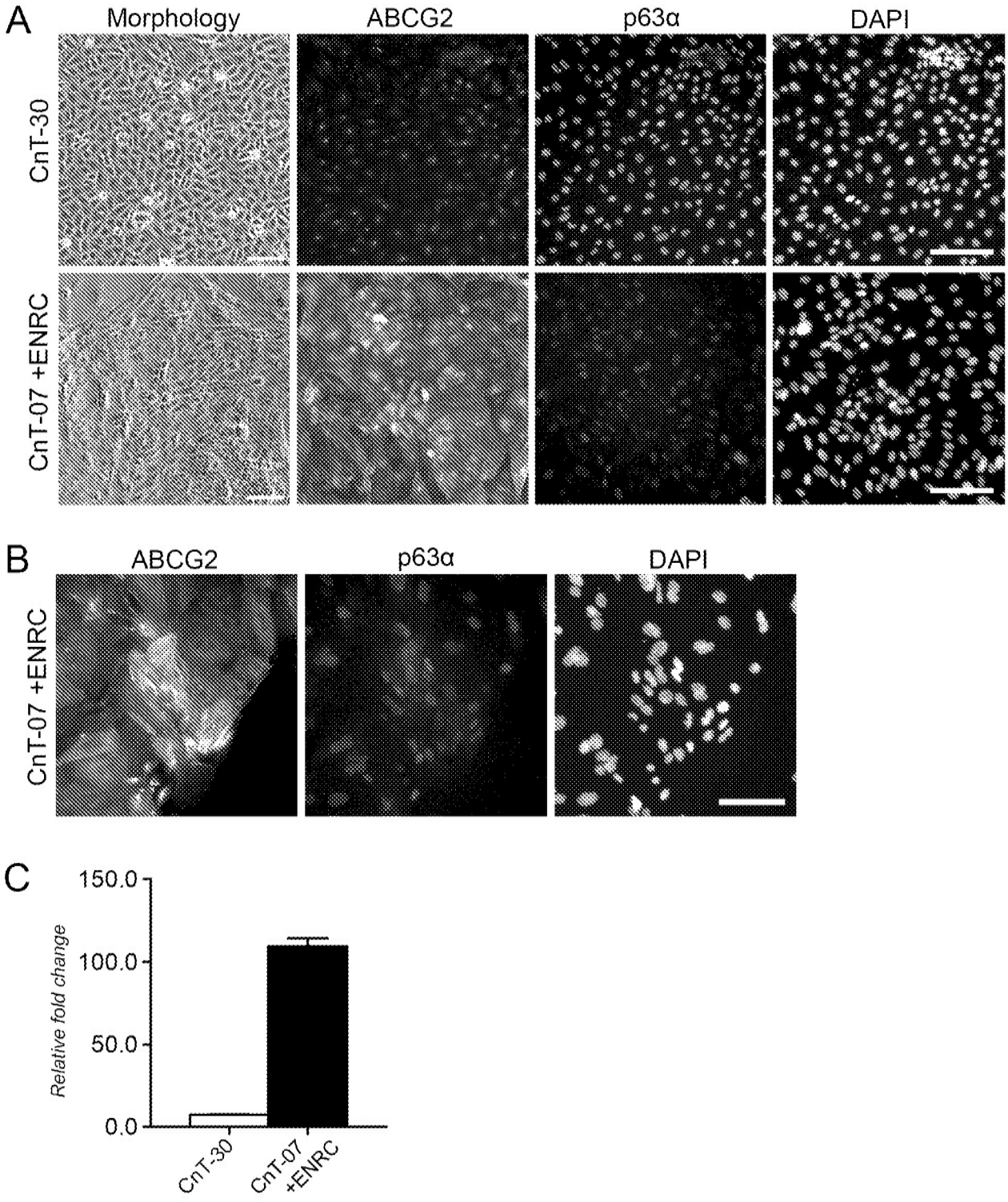

A
Morphology
ABCG2
p63α
DAPI
CnT-30
CnT-07 +ENRC
B
ABCG2
p63α
DAPI
CnT-07 +ENRC
C
150.0
100.0
50.0
0.0
Relative fold change
CnT-30
CnT-07 +ENRC

Figure 3

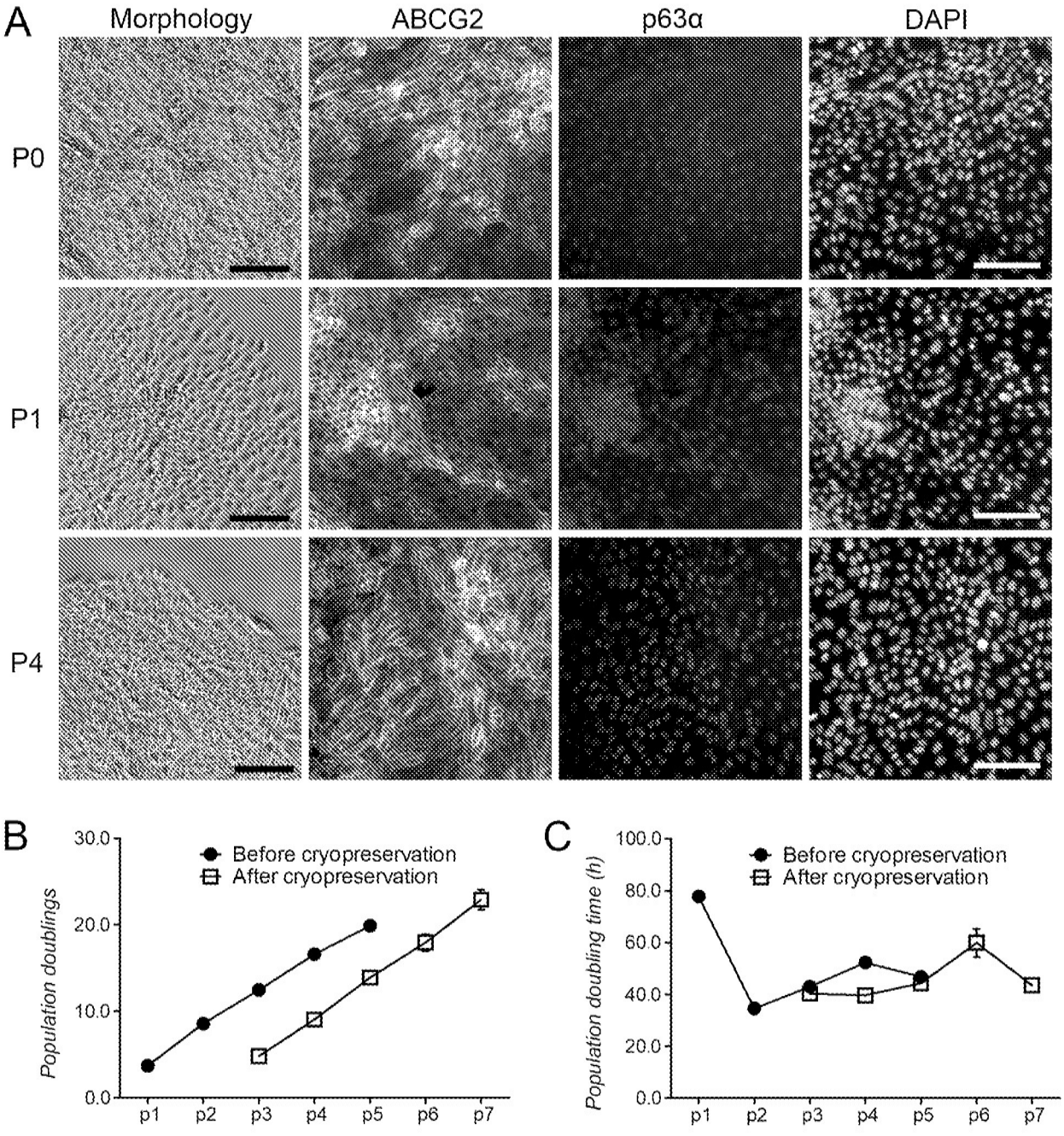

A
Morphology
ABCG2
p63α
DAPI
P0
P1
P4
B
Before cryopreservation
After cryopreservation
Population doublings
30.0
20.0
10.0
0.0
p1
p2
p3
p4
p5
p6
p7
C
Before cryopreservation
After cryopreservation
Population doubling time (h)
100.0
80.0
60.0
40.0
20.0
0.0
p1
p2
p3
p4
p5
p6
p7

Figure 4