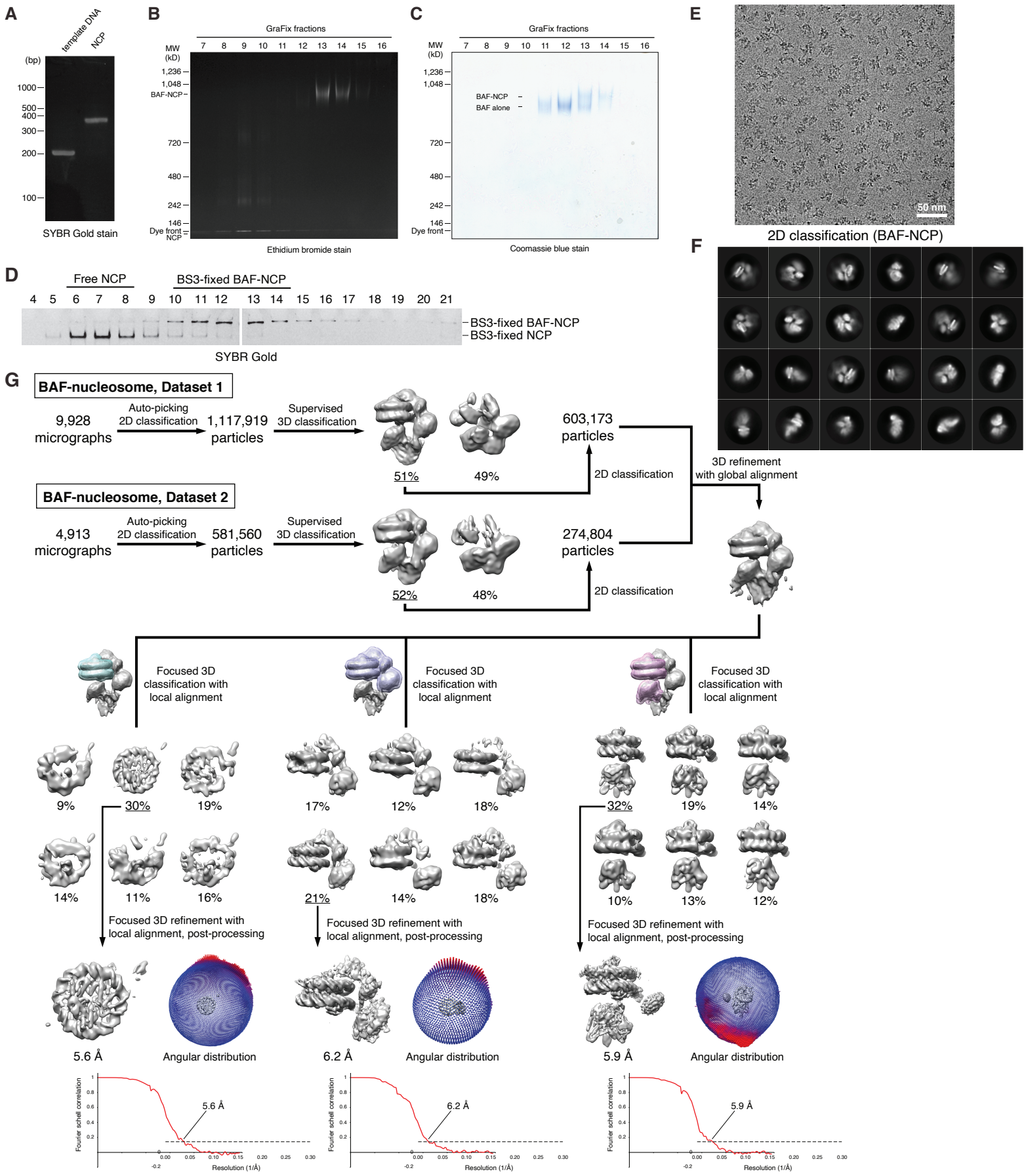
Figure S2


A
template DNA
NCP
(bp)
1000
500
400
300
200
100
SYBR Gold stain
B
GraFix fractions
7 8 9 10 11 12 13 14 15 16
MW (kD)
1,236
1,048
BAF-NCP
720
480
242
146
Dye front
NCP
Ethidium bromide stain
C
GraFix fractions
7 8 9 10 11 12 13 14 15 16
MW (kD)
1,236
1,048
BAF-NCP
BAF alone
720
480
242
146
Dye front
Coomassie blue stain
E
50 nm
2D classification (BAF-NCP)
F
D
Free NCP
BS3-fixed BAF-NCP
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
BS3-fixed BAF-NCP
BS3-fixed NCP
SYBR Gold
G
BAF-nucleosome, Dataset 1
9,928 micrographs
Auto-picking 2D classification
1,117,919 particles
Supervised 3D classification
51%
49%
603,173 particles
2D classification
BAF-nucleosome, Dataset 2
4,913 micrographs
Auto-picking 2D classification
581,560 particles
Supervised 3D classification
52%
48%
274,804 particles
2D classification
3D refinement with global alignment
Focused 3D classification with local alignment
9%
30%
19%
14%
11%
16%
Focused 3D refinement with local alignment, post-processing
5.6 Å
Angular distribution
Focused 3D classification with local alignment
17%
12%
18%
21%
14%
18%
Focused 3D refinement with local alignment, post-processing
6.2 Å
Angular distribution
Focused 3D classification with local alignment
32%
19%
14%
10%
13%
12%
Focused 3D refinement with local alignment, post-processing
5.9 Å
Angular distribution
Fourier schell correlation
Resolution (1/Å)
5.6 Å
6.2 Å
5.9 Å