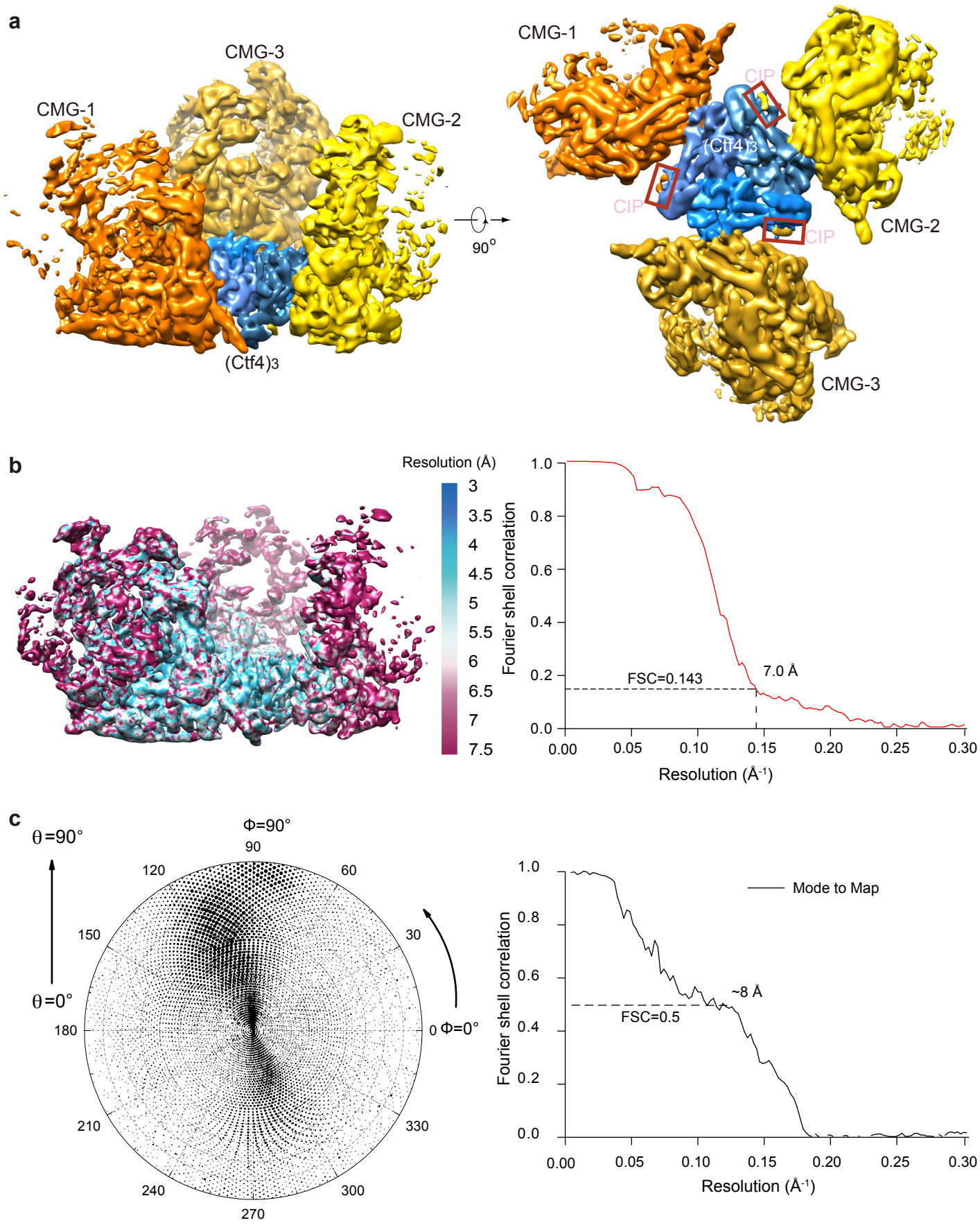

a
CMG-1
CMG-3
CMG-2
(Ctf4)3
90°
CMG-1
CIP
(Ctf4)3
CIP
CIP
CMG-2
CMG-3
b
Resolution (Å)
3
3.5
4
4.5
5
5.5
6
6.5
7
7.5
Fourier shell correlation
1.0
0.8
0.6
0.4
0.2
0.0
FSC=0.143
7.0 Å
0.00
0.05
0.10
0.15
0.20
0.25
0.30
Resolution (Å-1)
c
θ=90°
Φ=90°
θ=0°
Φ=0°
90
120
60
150
30
180
0
210
330
240
300
270
Mode to Map
Fourier shell correlation
1.0
0.8
0.6
0.4
0.2
0.0
~8 Å
FSC=0.5
0.00
0.05
0.10
0.15
0.20
0.25
0.30
Resolution (Å-1)