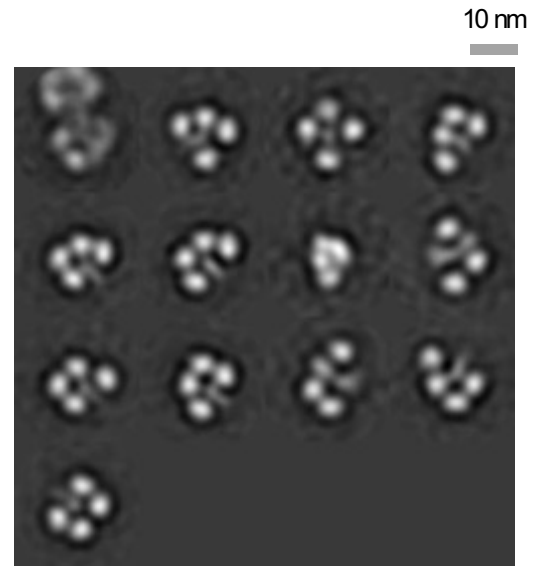
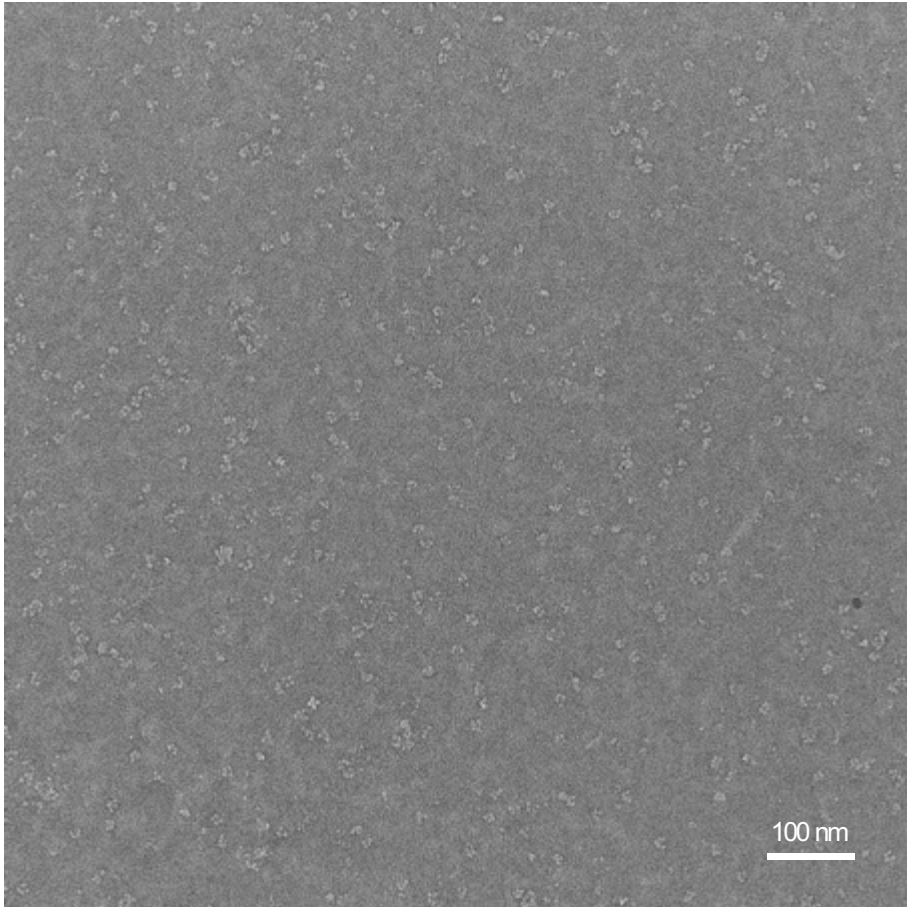


N1-CA09-WT

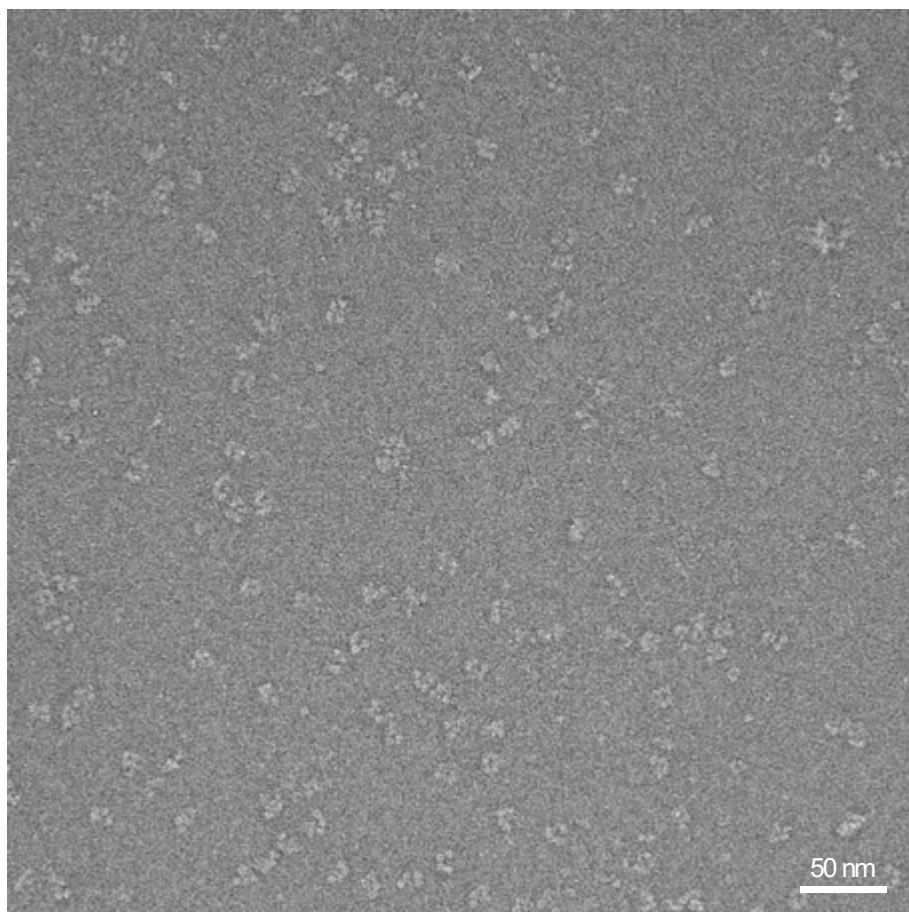


Total particles picked: 5271

Total particles clearly in closed state: 0

Total particles clearly in open state: 3974

N1-MI15-WT



10 nm

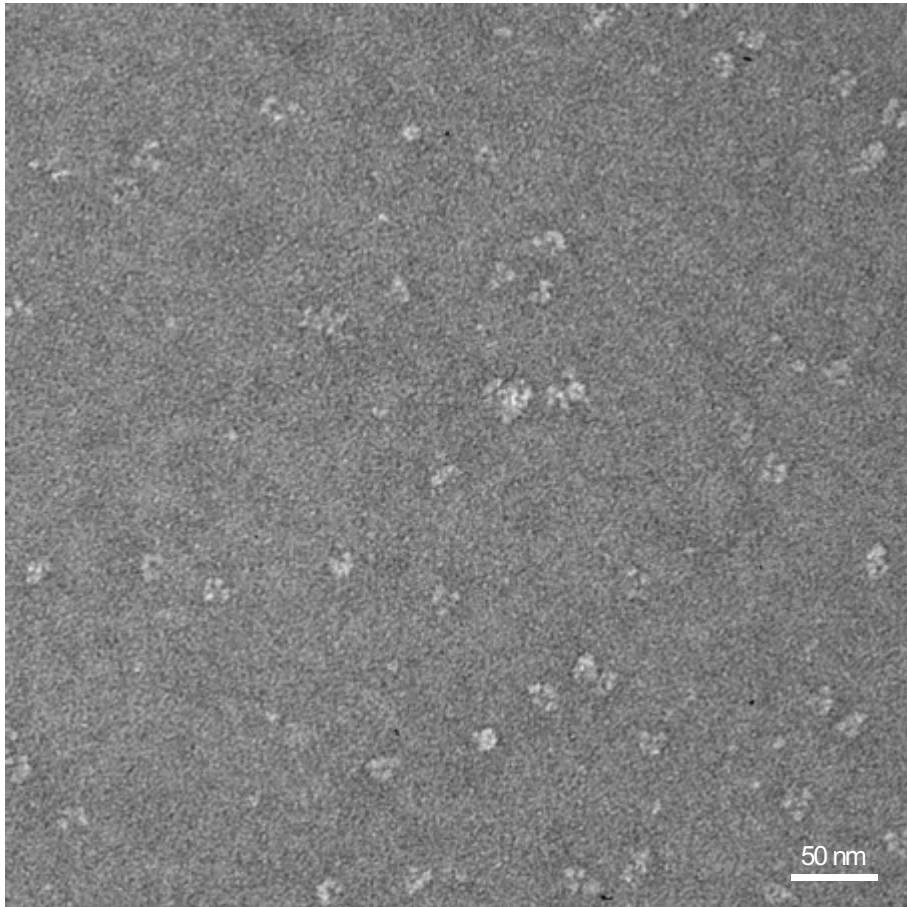


Total particles picked: 11230

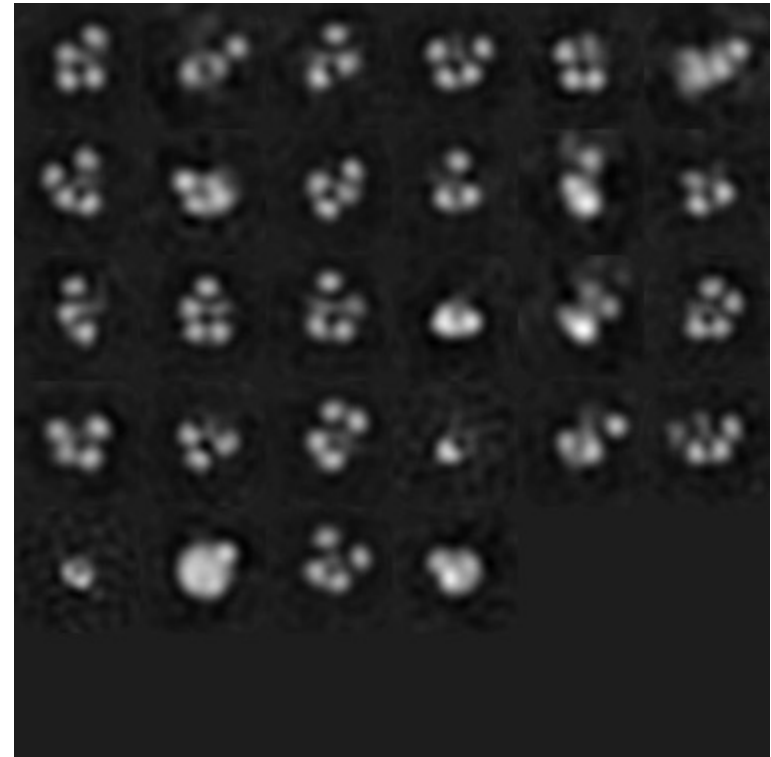
Total particles clearly in closed state: 0

Total particles clearly in open state: 10076

N1-NC99-WT



10 nm

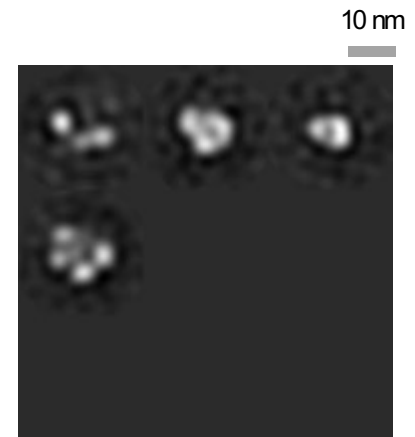
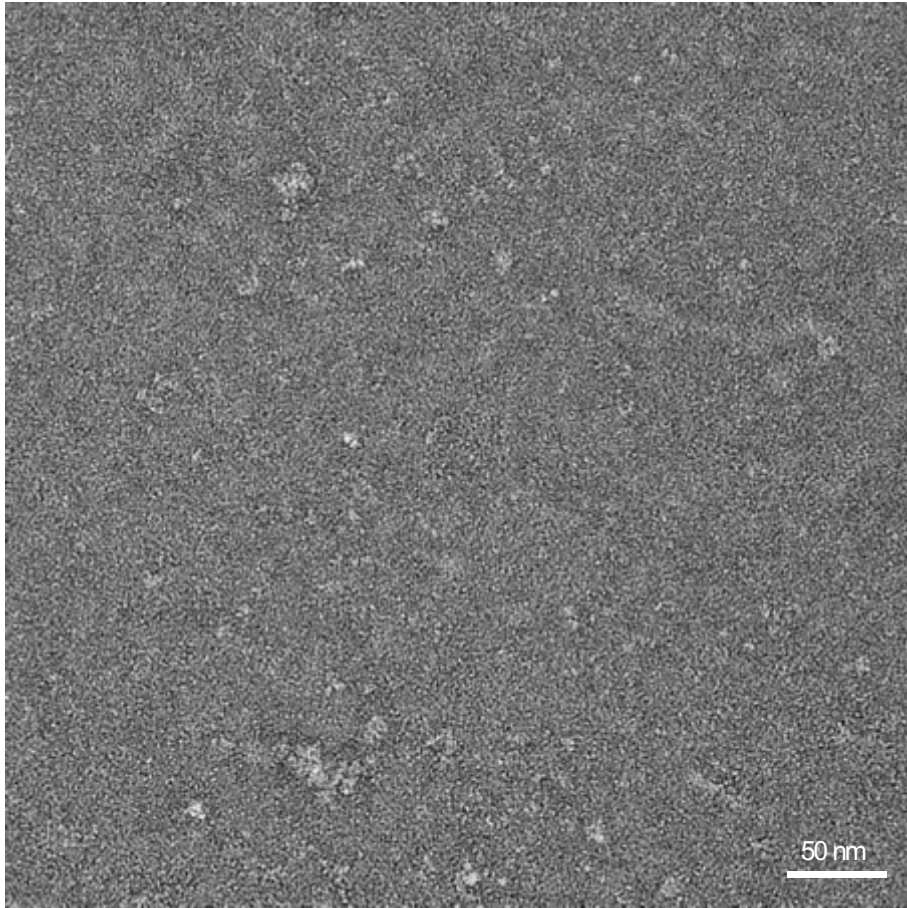


Total particles picked: 5273:

Total particles clearly in closed state: 101

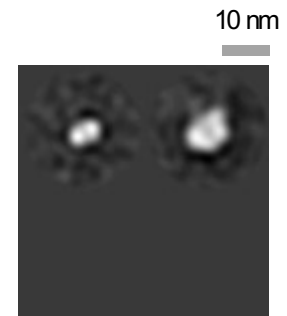
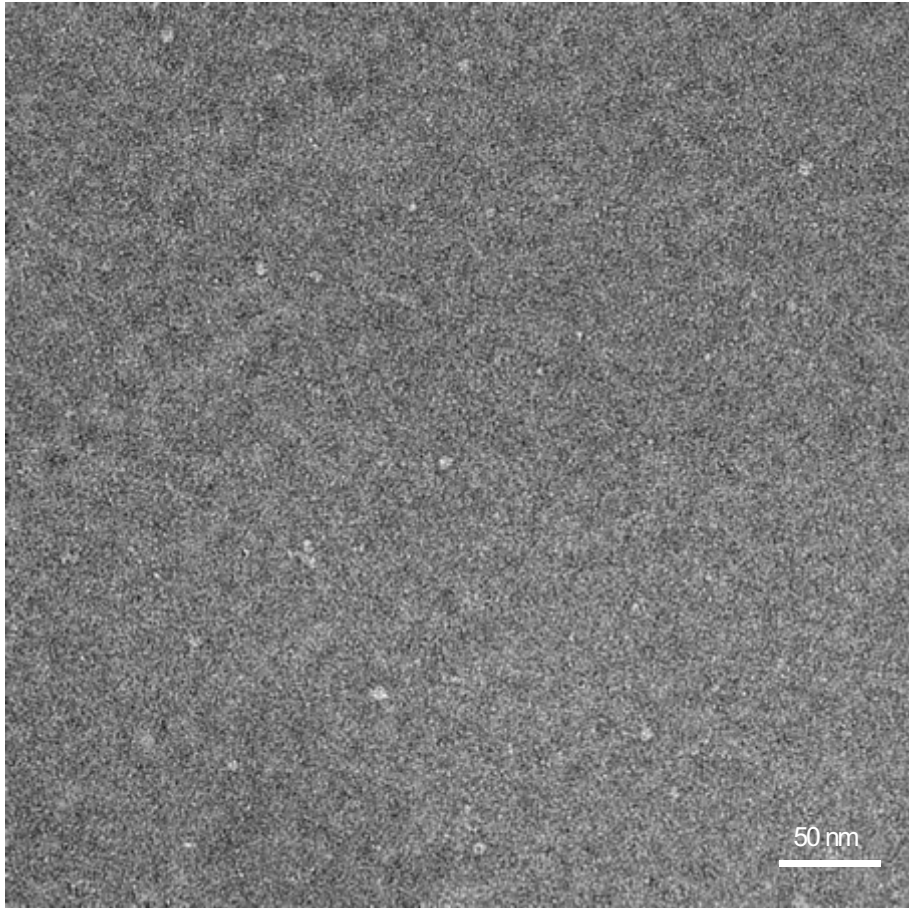
Total particles clearly in open state: 3452

N1-WSN33-WT



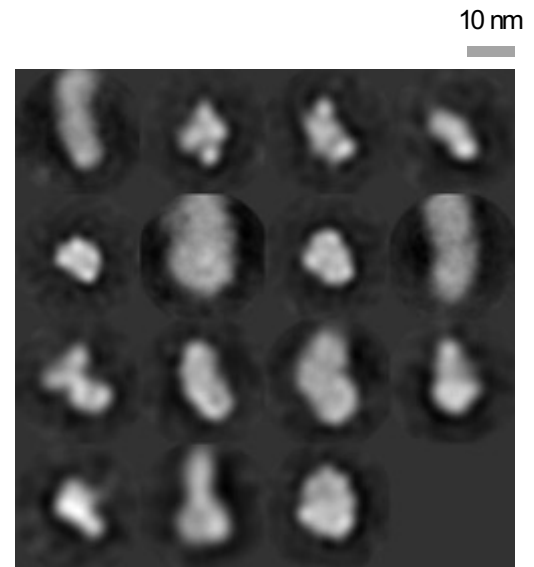
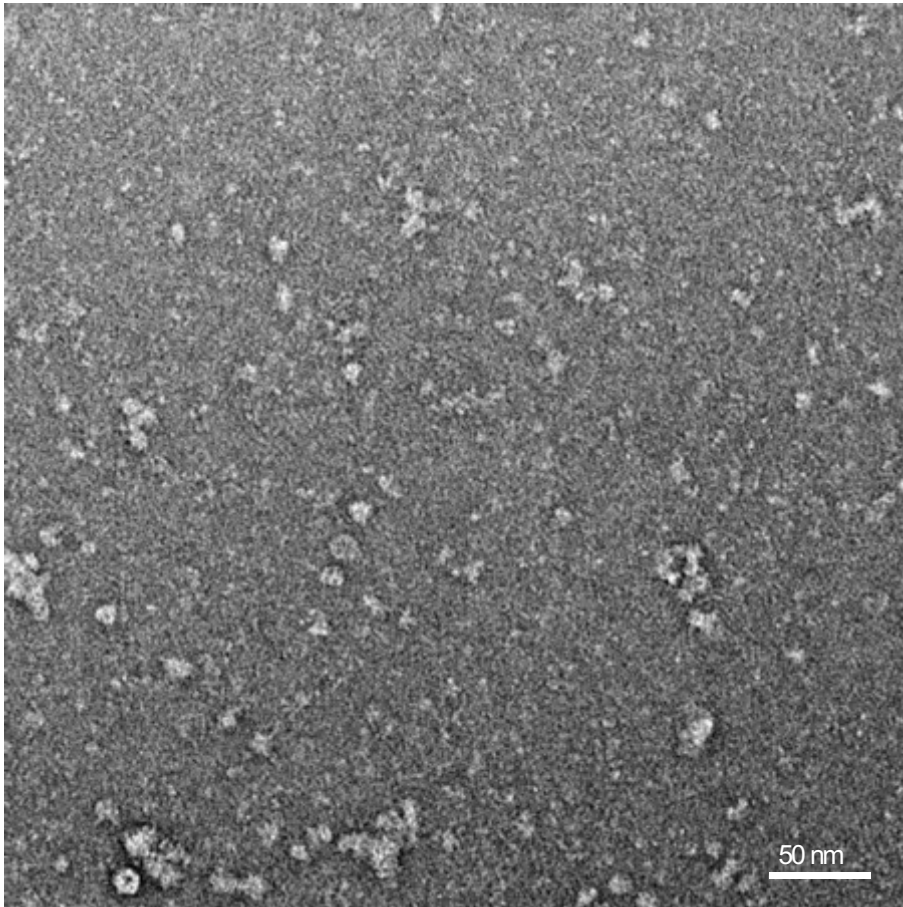
Total particles picked: 2320
Total particles clearly in closed state: 0
Total particles clearly in open state: 238

N1-BV18-WT



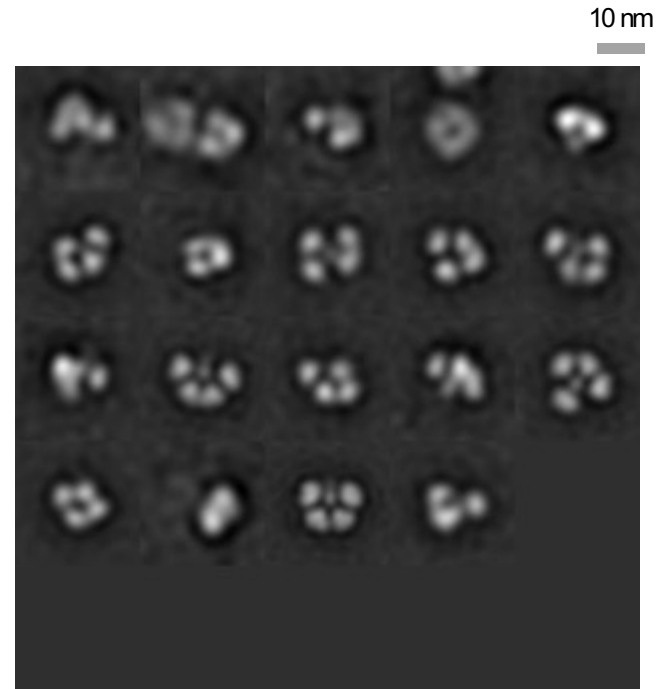
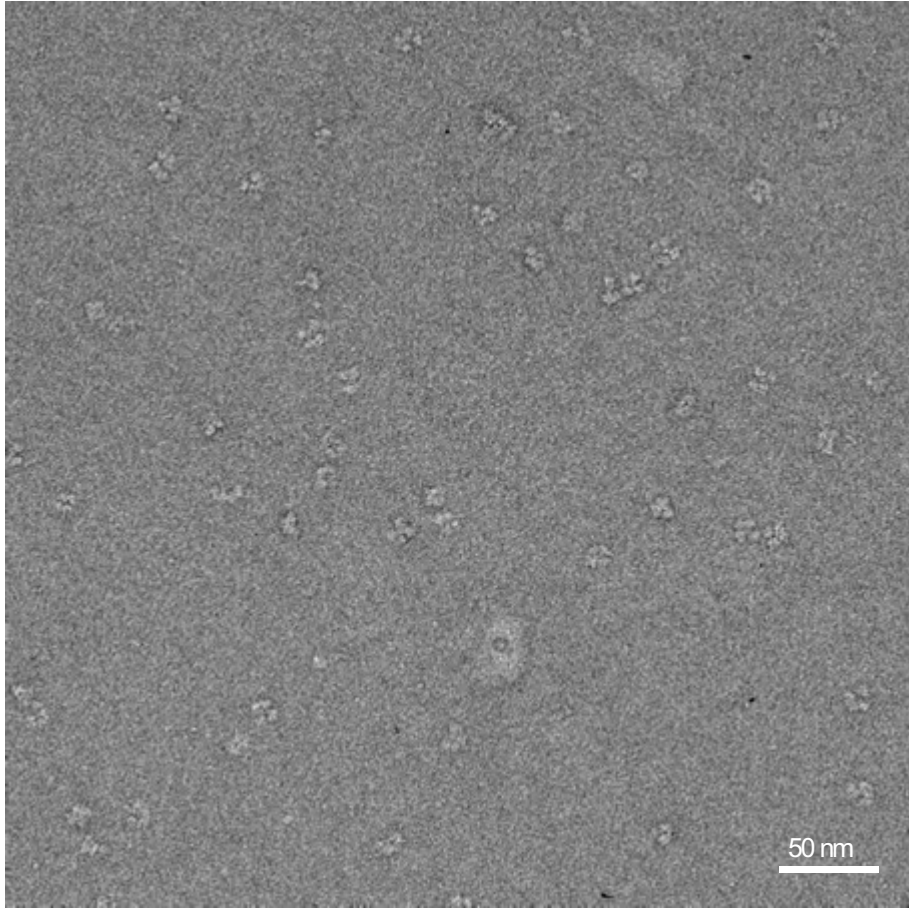
Total particles picked: 2281
No clear tetramers observed to quantify

N1-VN04-WT



Total particles picked: 5722
No clear tetramers observed to quantify

N6-SI14-WT

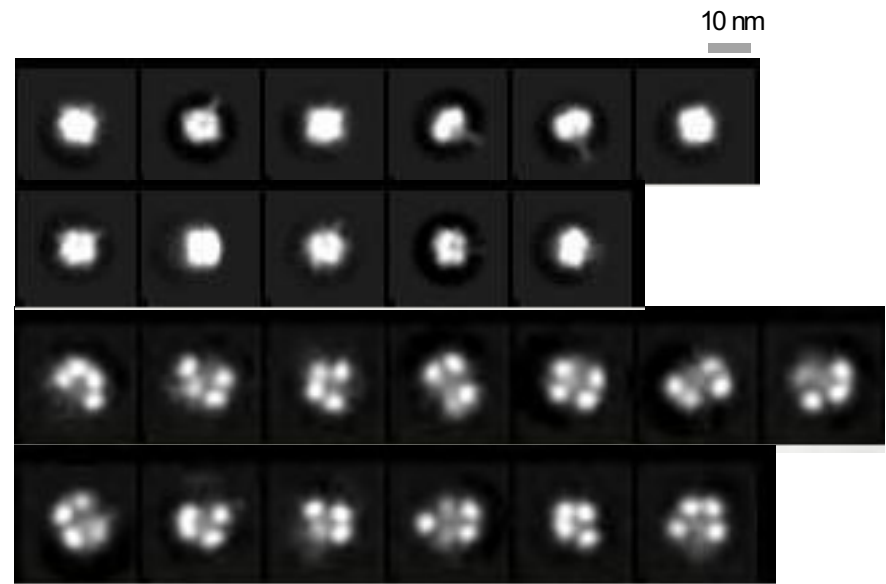
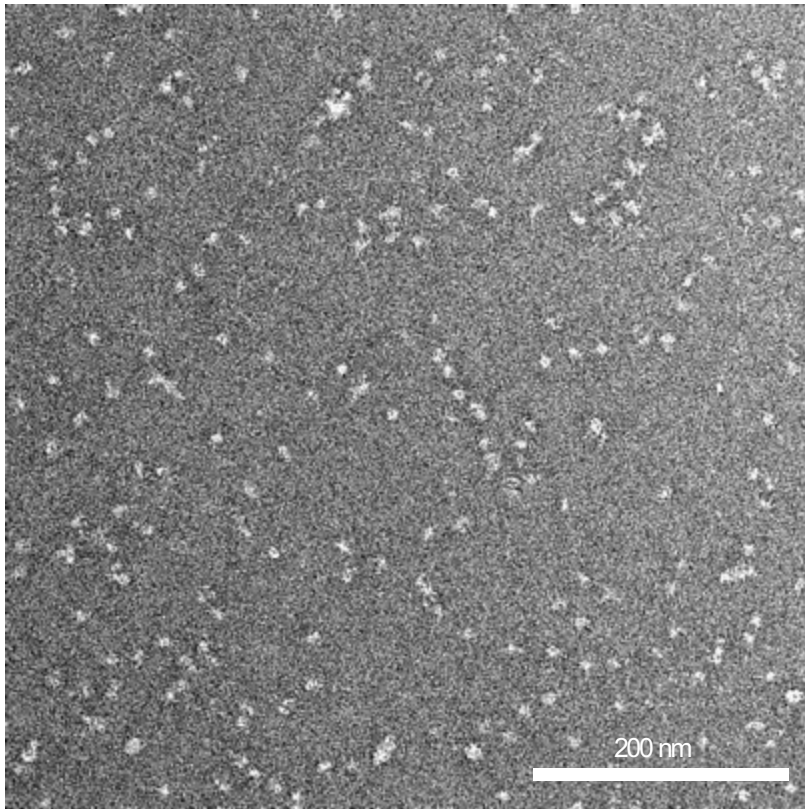


Total particles picked: 3306

Total particles clearly in closed state: 116

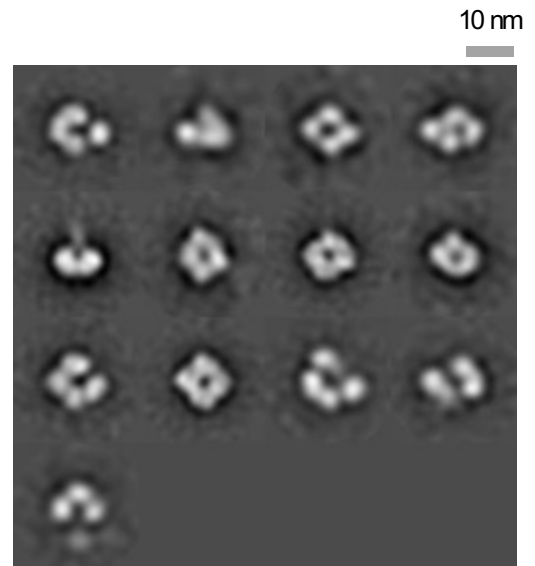
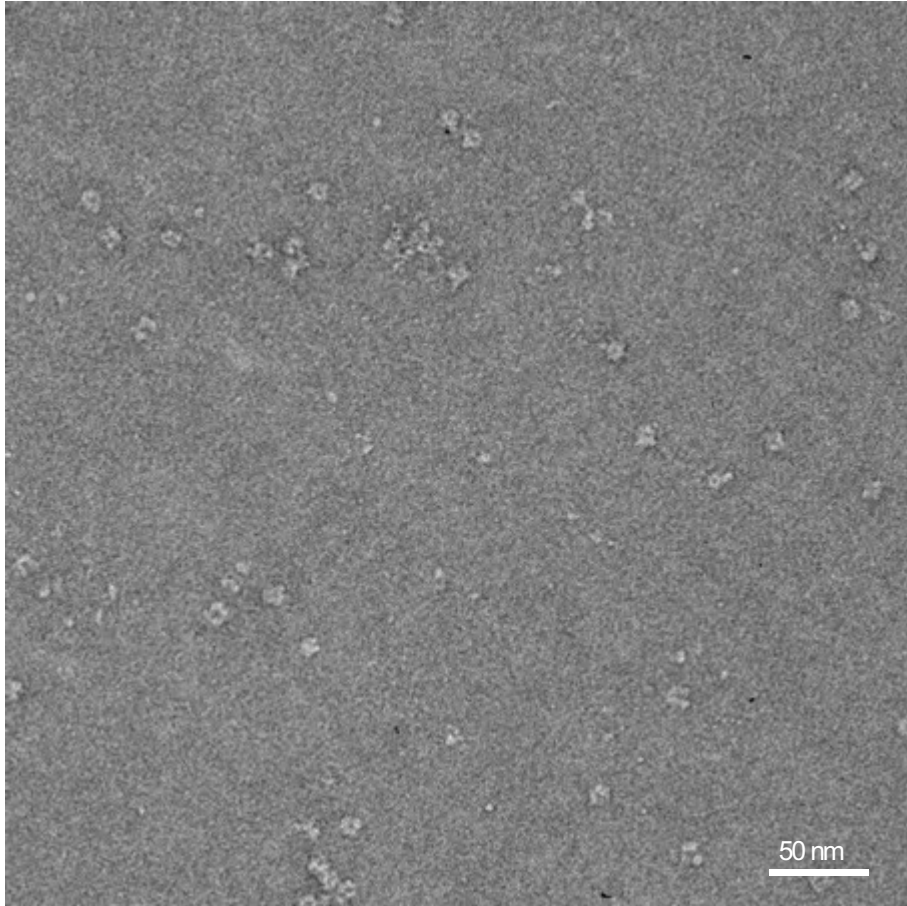
Total particles clearly in open state: 1708

N2-MO99-WT



Total particles picked: 60706
Total particles clearly in closed state: 24213
Total particles clearly in open state: 6424

N4-DB16-WT

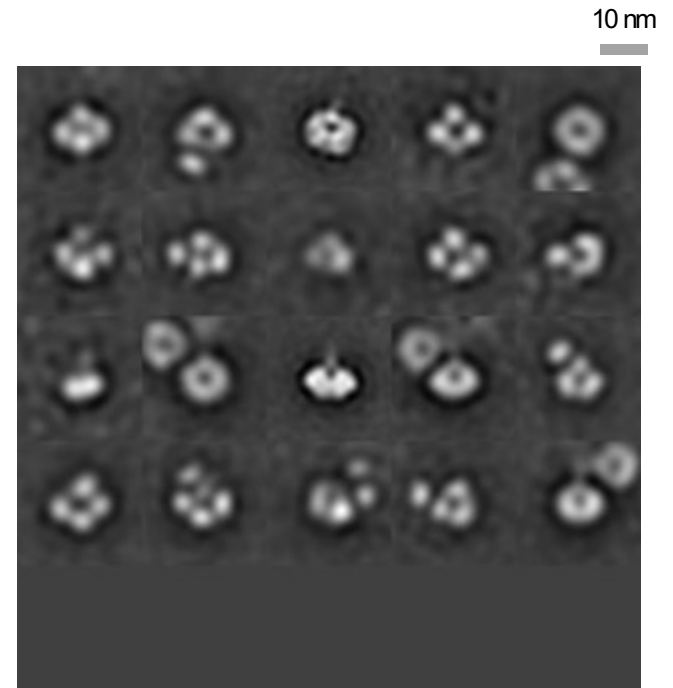
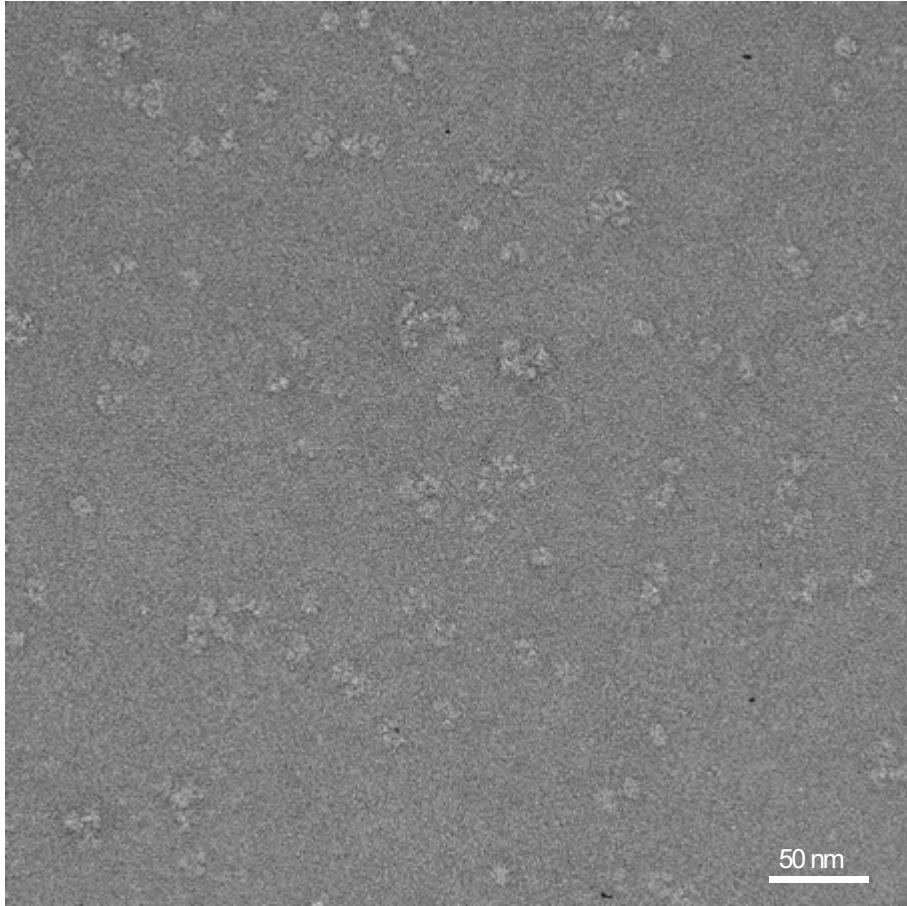


Total particles picked: 2604

Total particles clearly in closed state: 1395

Total particles clearly in open state: 619

N7-NE03-WT

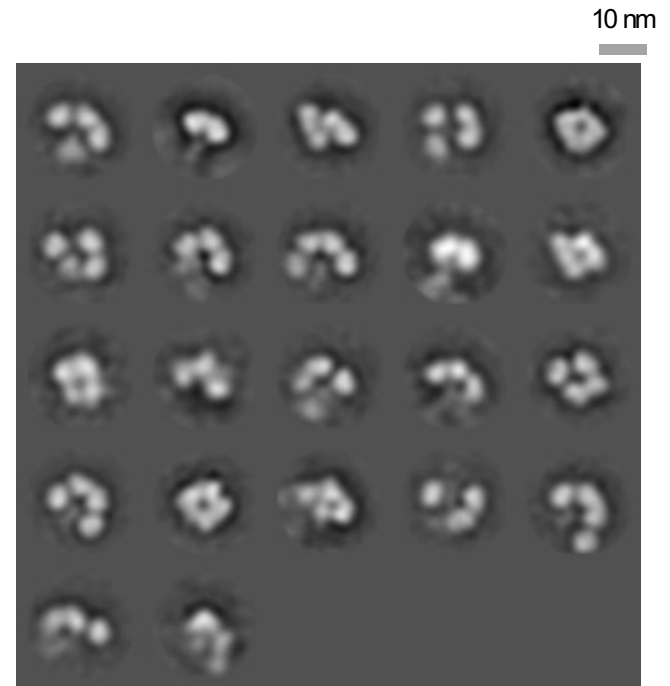
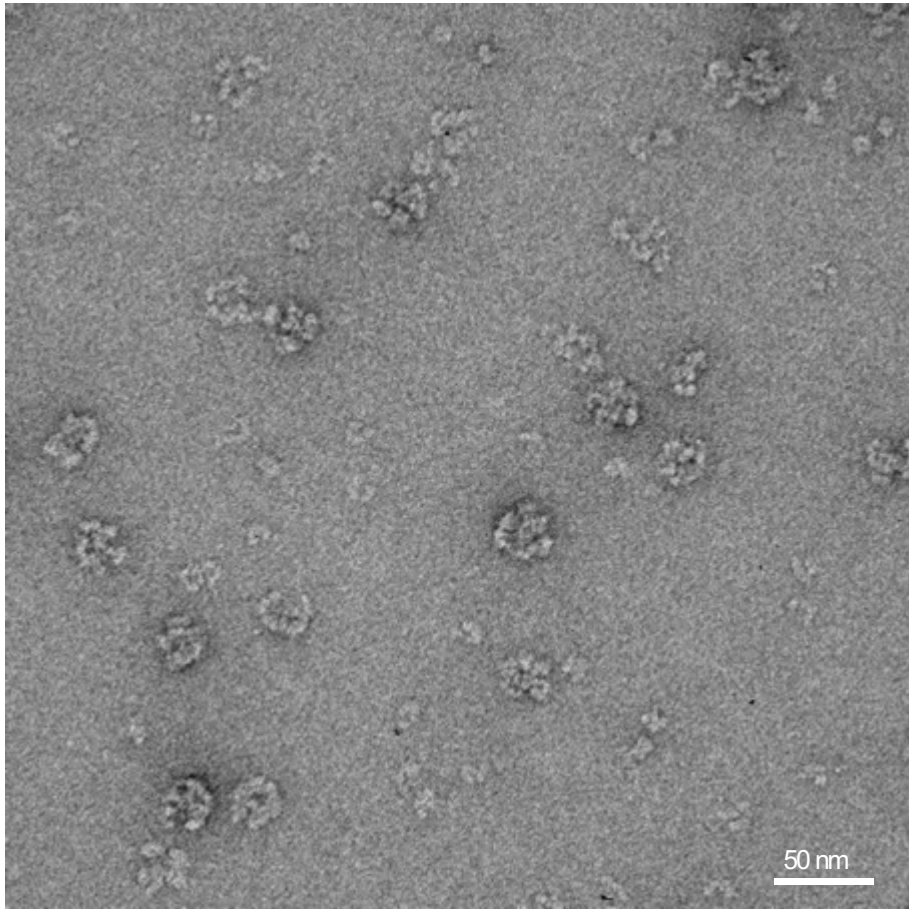


Total particles picked: 3933

Total particles clearly in closed state: 1413

Total particles clearly in open state: 570

N8-JD13-WT

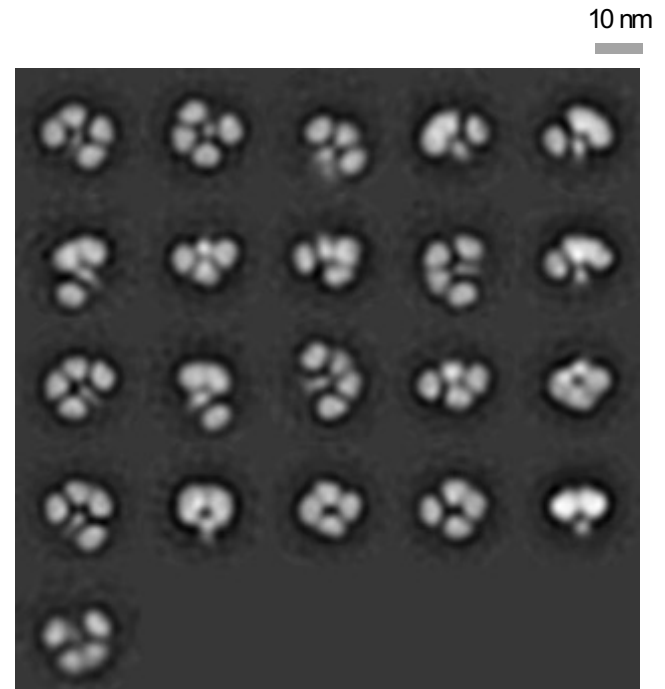
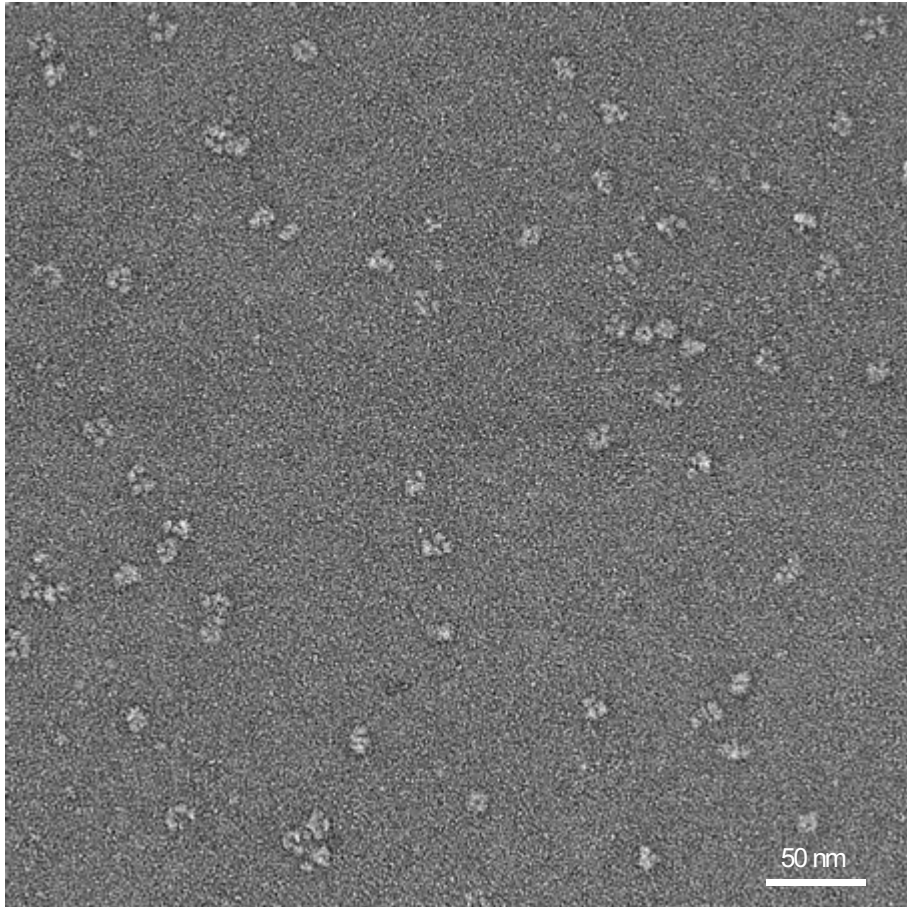


Total particles picked: 7599

Total particles clearly in closed state: 1688

Total particles clearly in open state: 3304

N9-AN13-WT

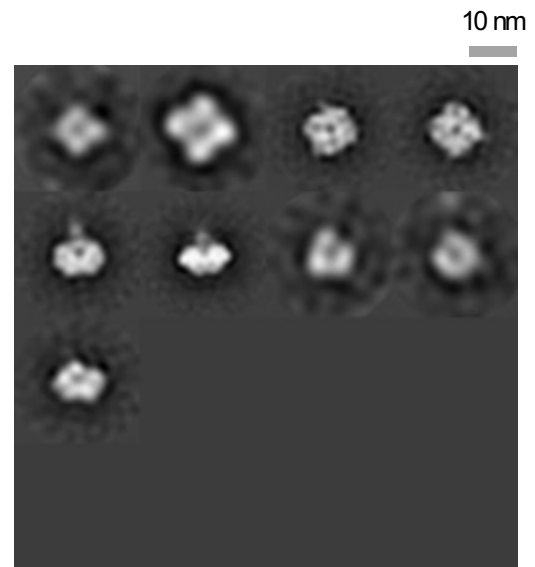
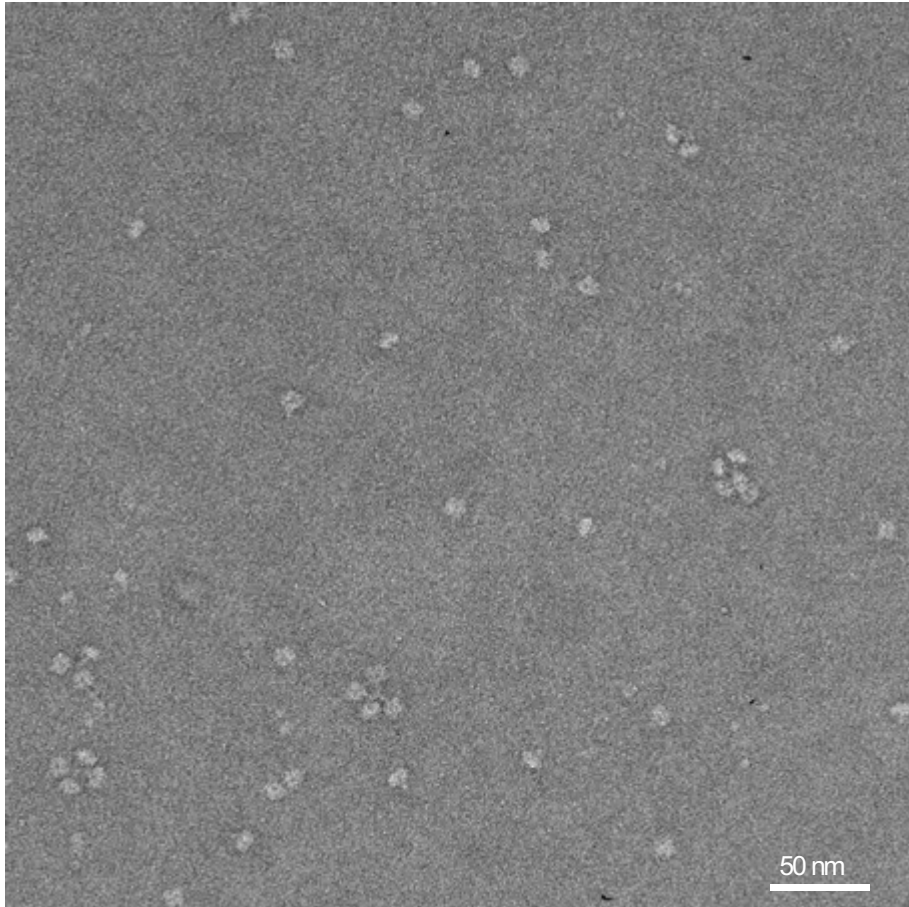


Total particles picked: 8020

Total particles clearly in closed state: 1435

Total particles clearly in open state: 5262

N2-WI05-WT

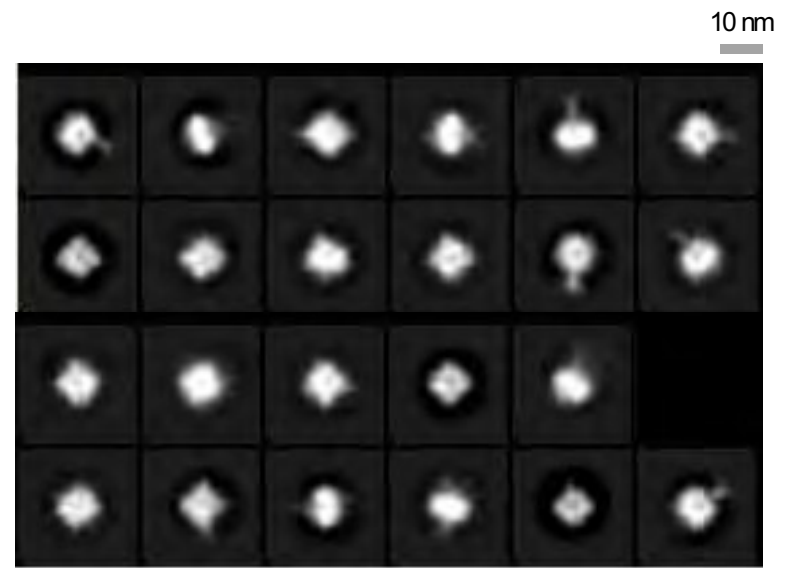
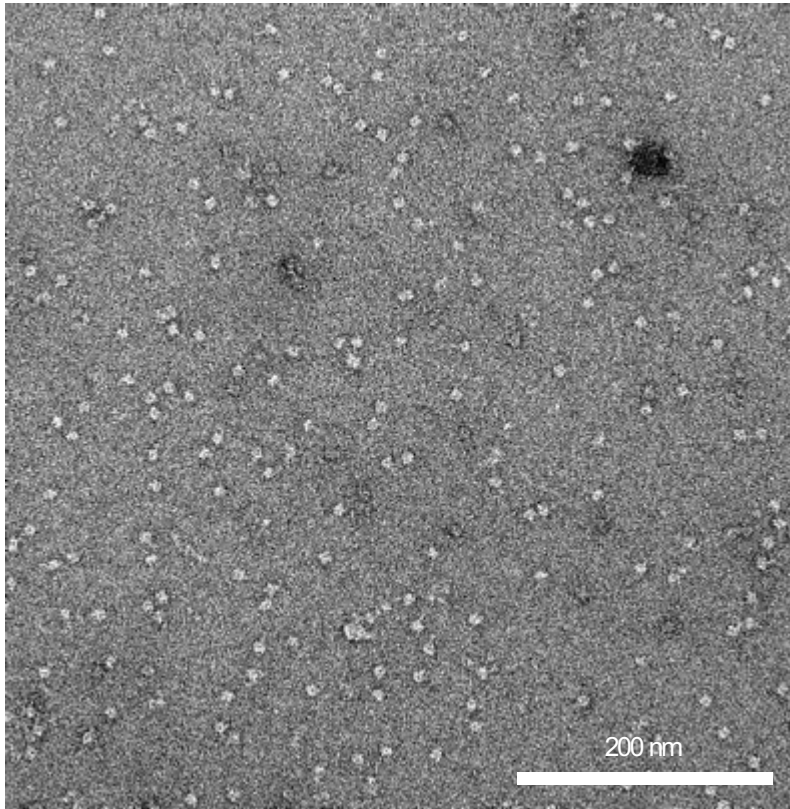


Total particles picked: 2386

Total particles clearly in closed state: 2117

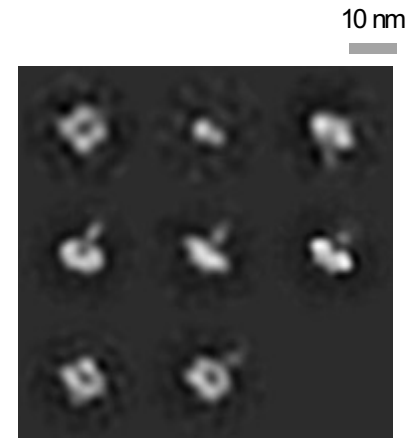
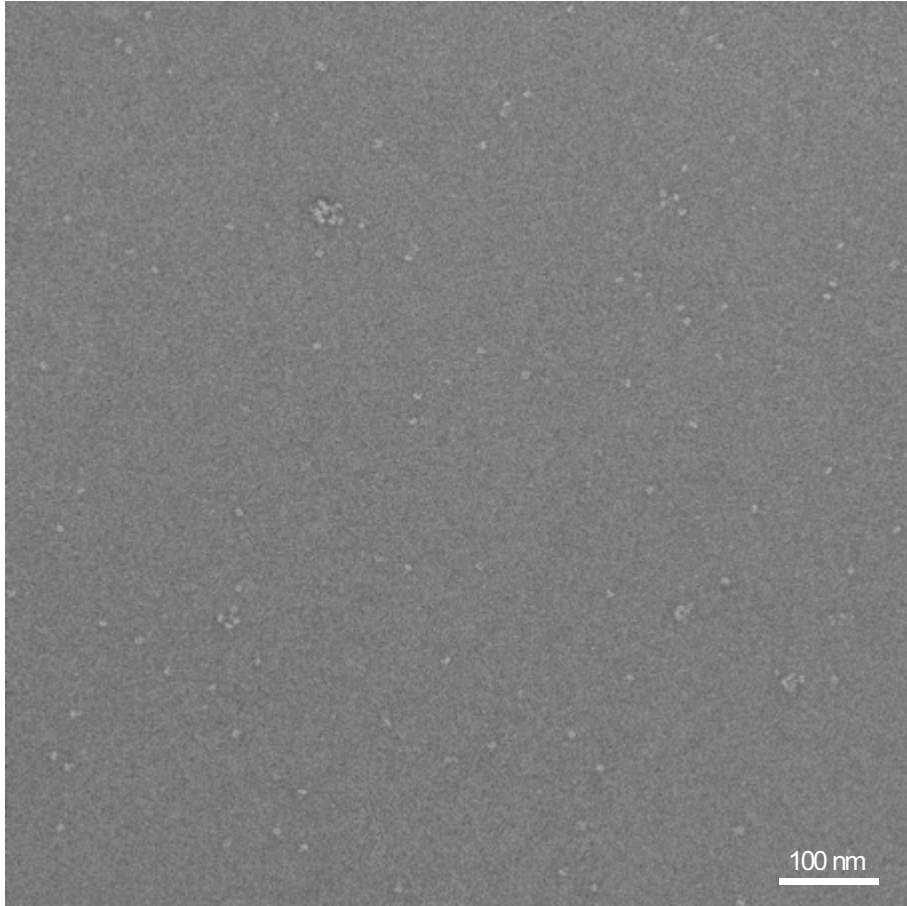
Total particles clearly in open state: 0

N2-IN11-WT



Total particles picked: 62551
Total particles clearly in closed state: 22866
Total particles clearly in open state: 0

N3-MI06-WT

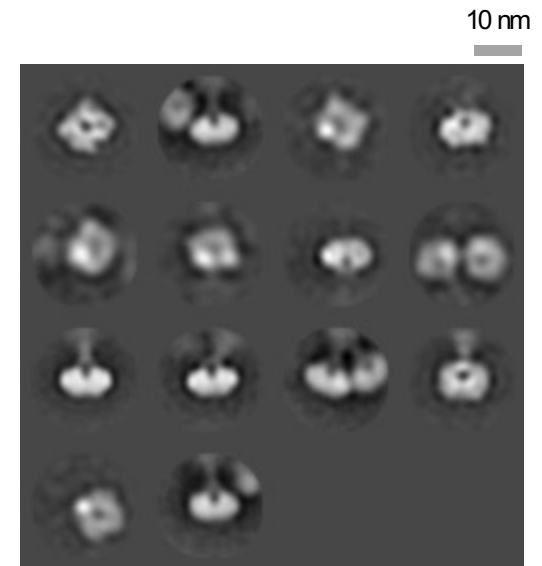
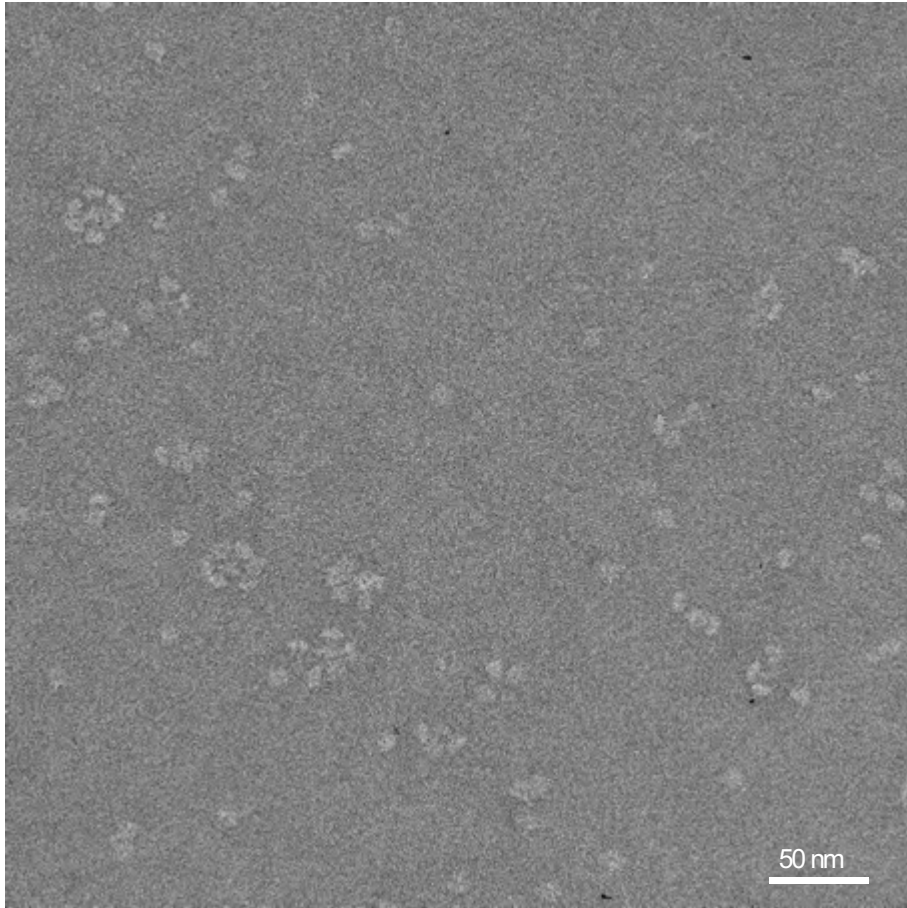


Total particles picked: 6166

Total particles clearly in closed state: 3477

Total particles clearly in open state: 0

N5-DB16-WT

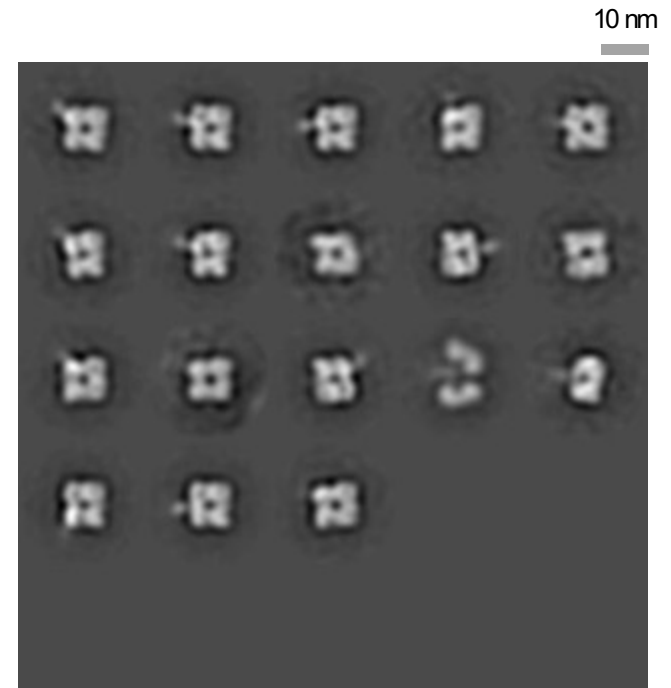
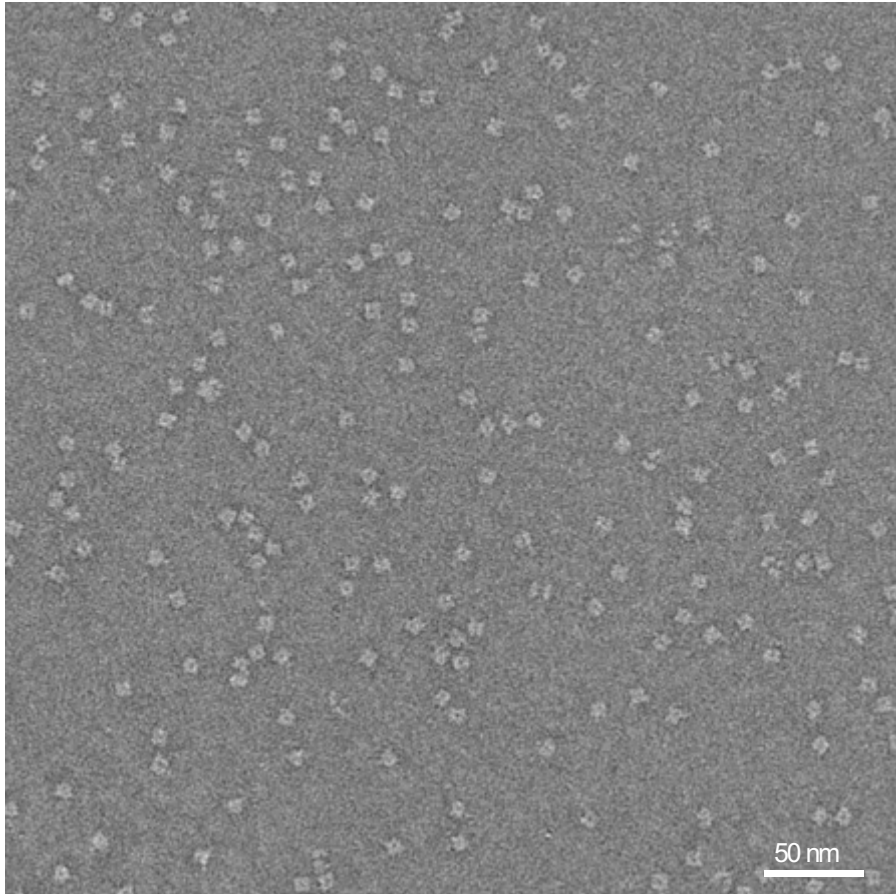


Total particles picked: 8042

Total particles clearly in closed state: 5576

Total particles clearly in open state: 0

B-CO17-WT

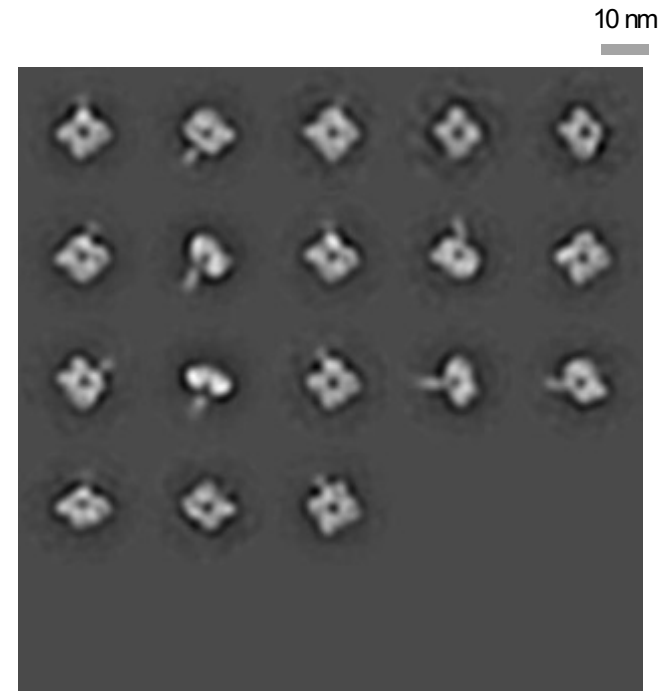
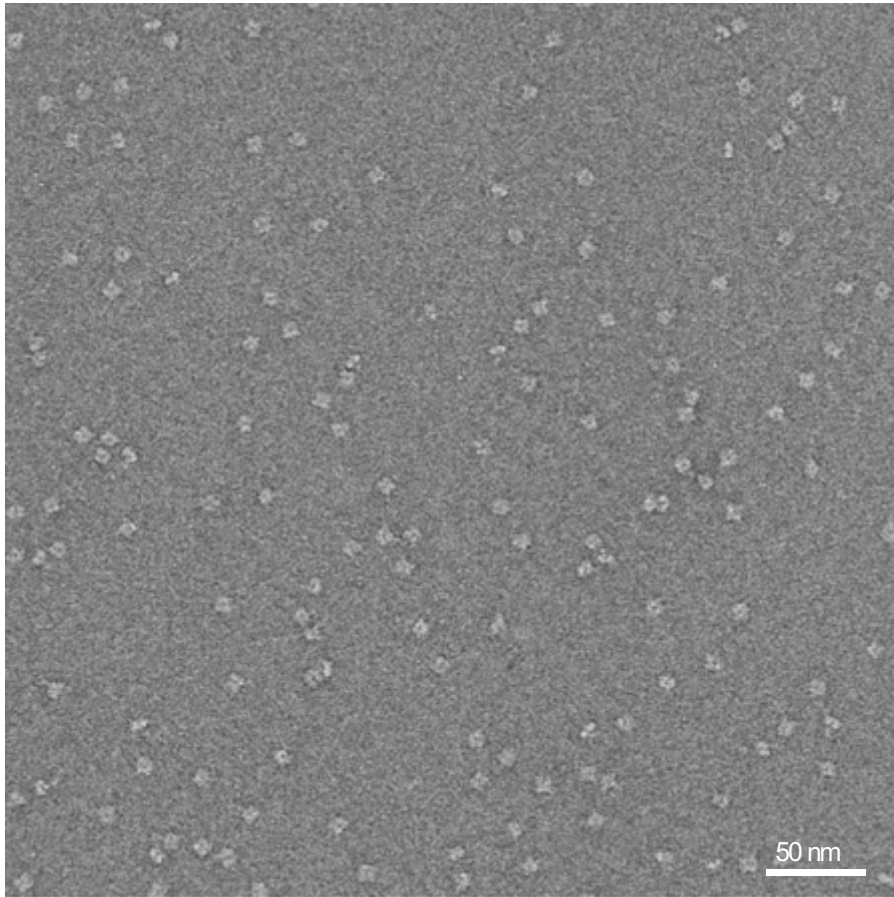


Total particles picked: 12896

Total particles clearly in closed state: 12328

Total particles clearly in open state: 425

B-PH13-WT

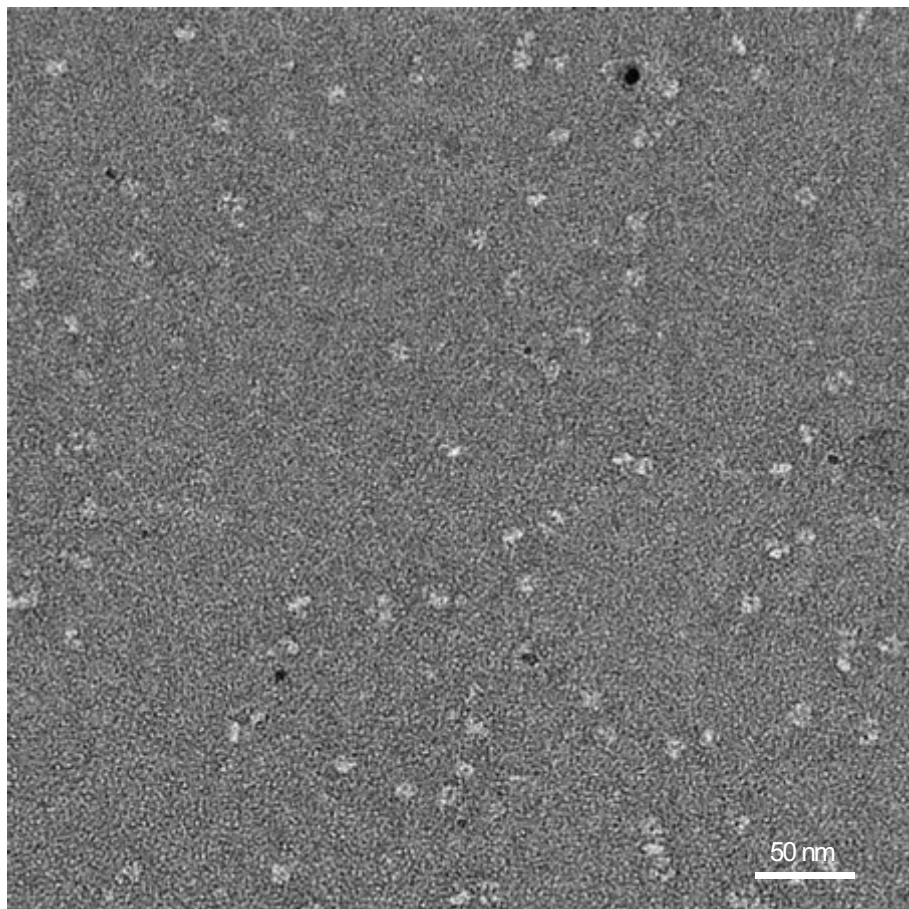


Total particles picked: 9972

Total particles clearly in closed state: 9817

Total particles clearly in open state: 0

N9-AN13-Y170H

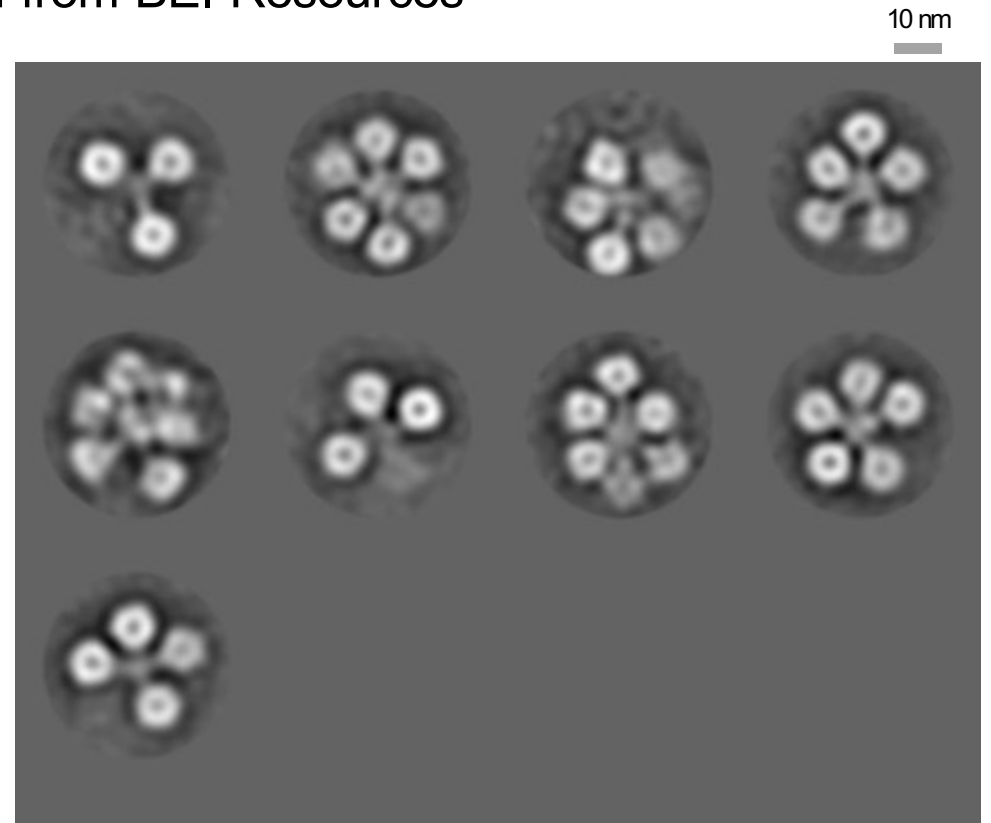
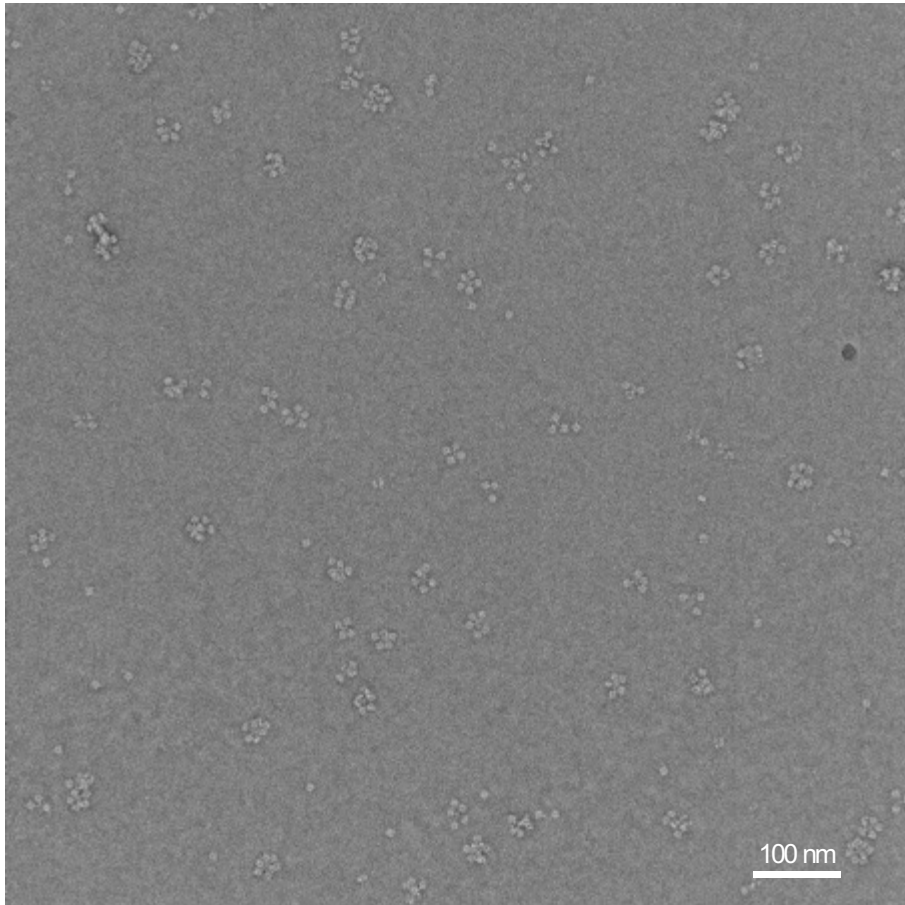


Total particles picked: 8592

Total particles clearly in closed state: 3059

Total particles clearly in open state: 1164

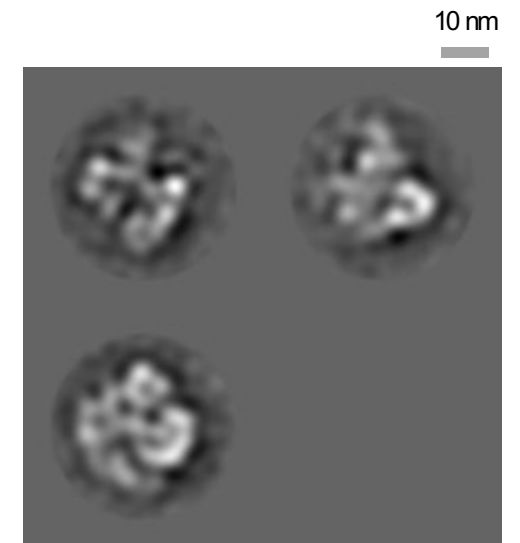
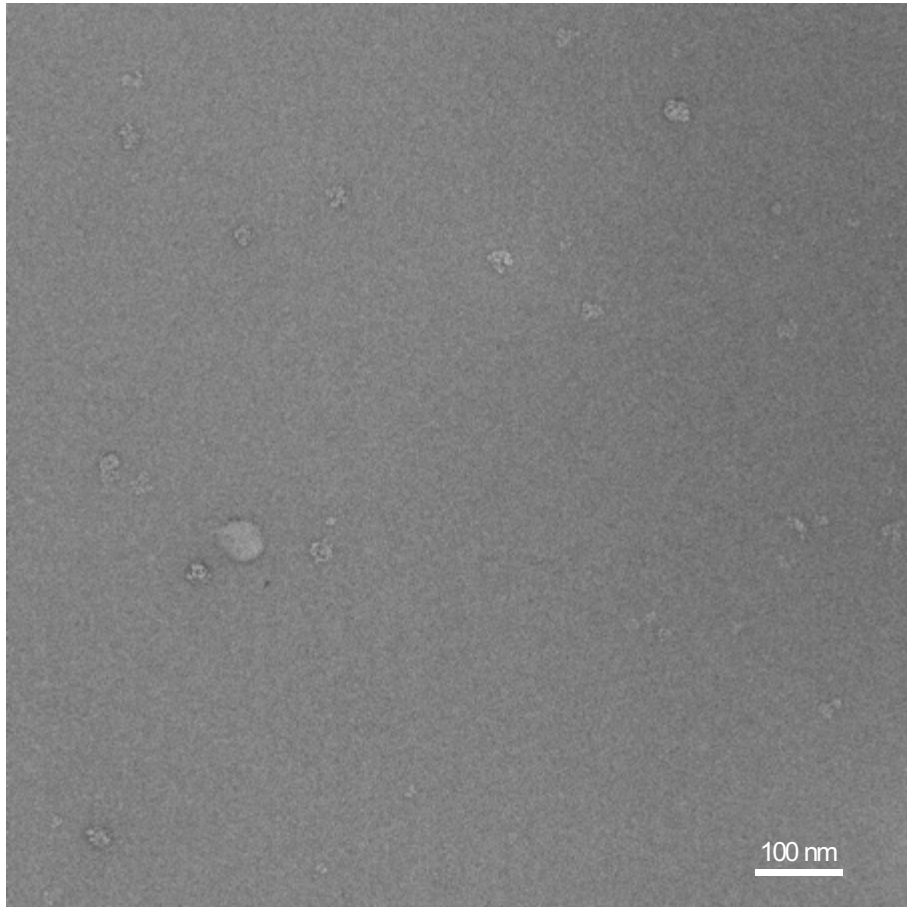
N2-WI05-WT, obtained from BEI Resources



Total particles picked: 1190

No tetramers quantified alone, however tetramers in clusters appear predominantly closed

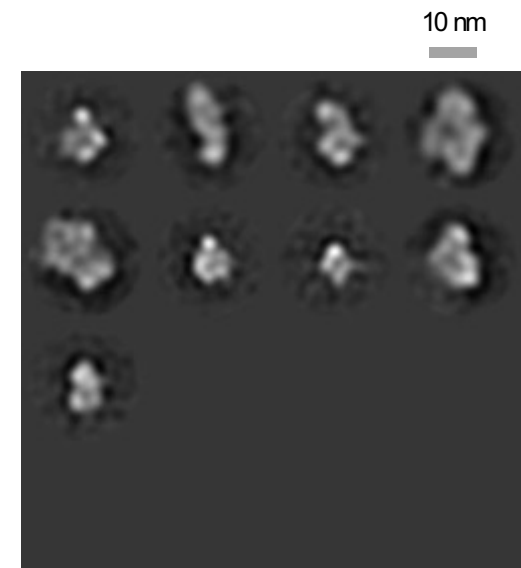
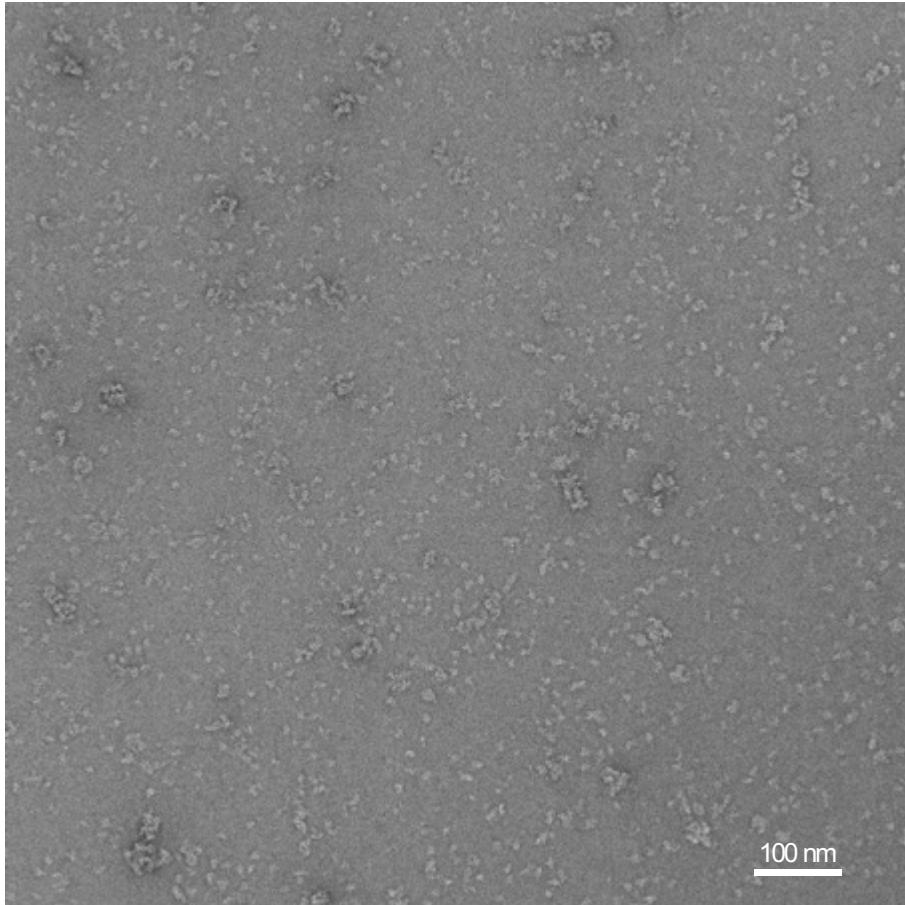
N1-NC99-WT, obtained from BEI Resources



Total particles picked: 1325

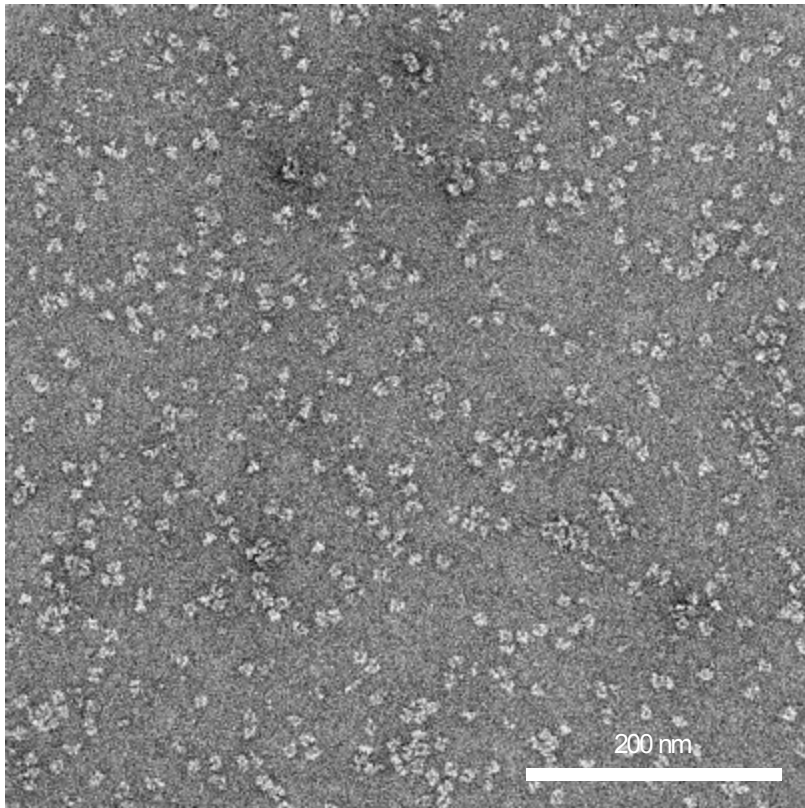
No tetramers quantified alone, however no clear tetramers were present in clusters

N1-CA09-WT, obtained from BEI Resources



Total particles picked: 6382
No clear tetramers observed to quantify

N1-CA09-WT with 1mM CaCl₂ added after purification

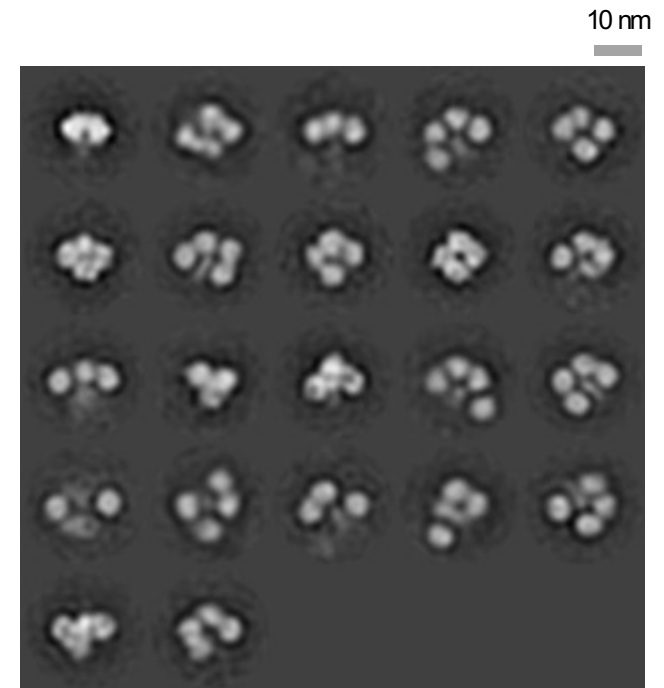
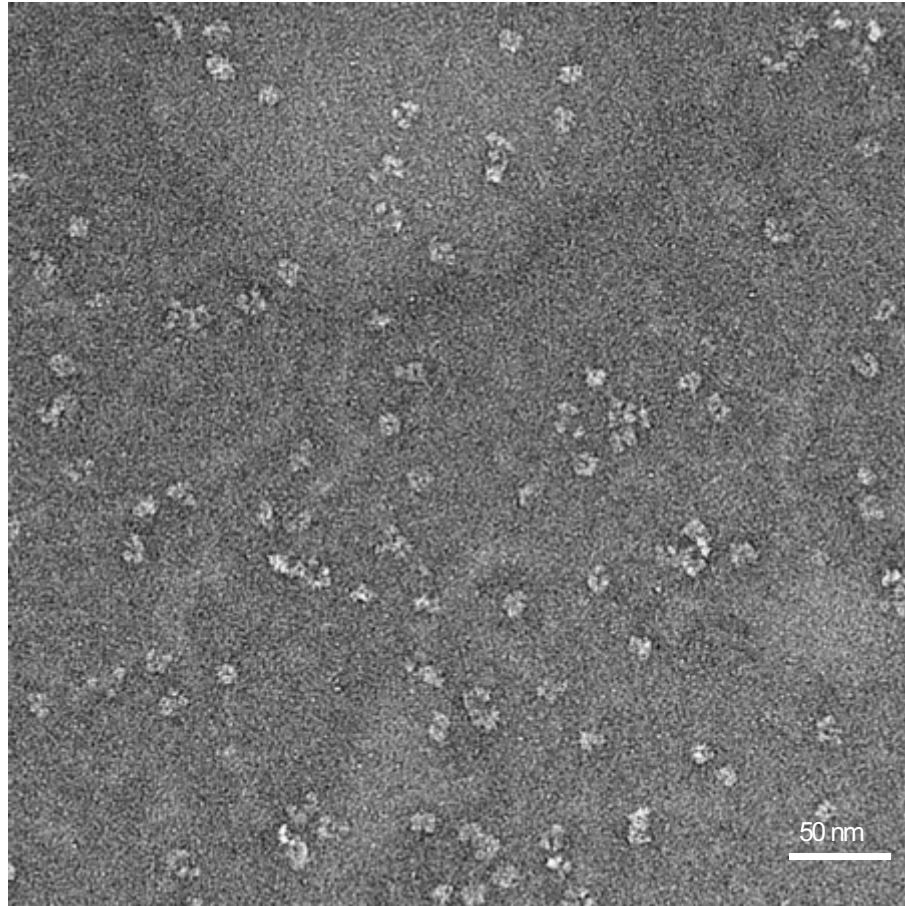


Total particles picked: 56046

Total particles clearly in closed state: 738

Total particles clearly in open state: 46410

N1-CA09-WT with 1mM CaCl₂ added throughout purification process

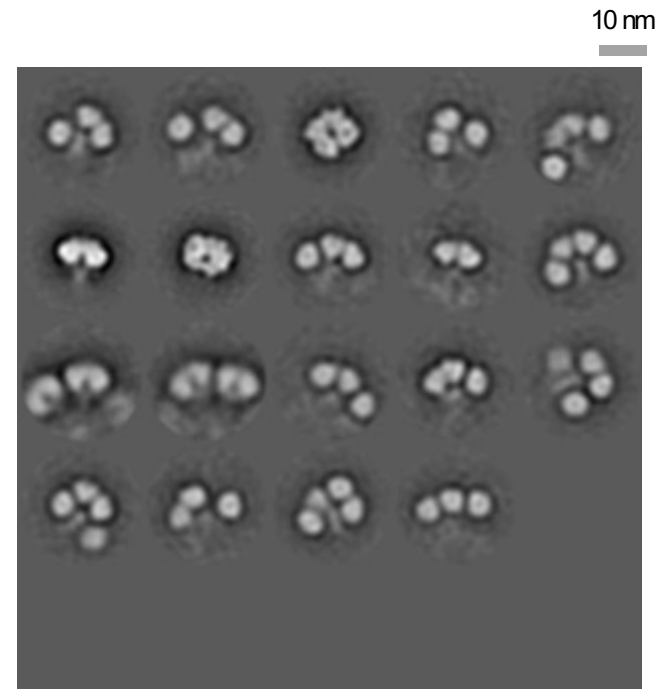
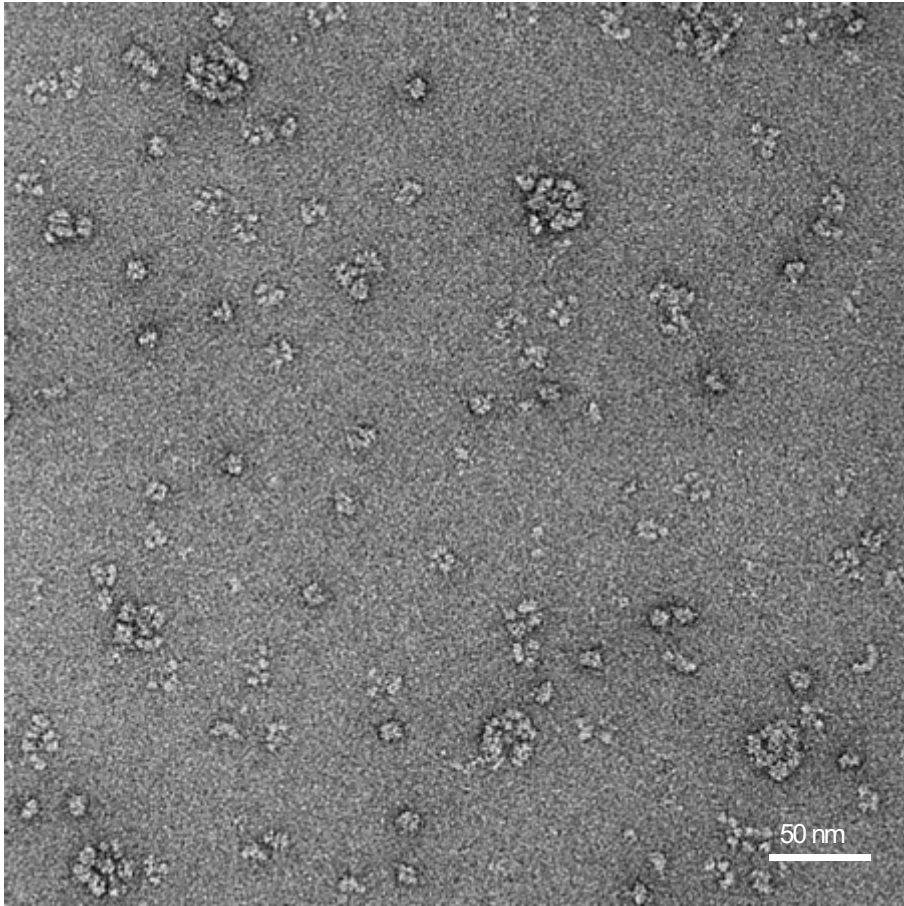


Total particles picked: 6847

Total particles clearly in closed state: 1051

Total particles clearly in open state: 4600

N1-MI15-WT with 1mM CaCl₂ added throughout purification process

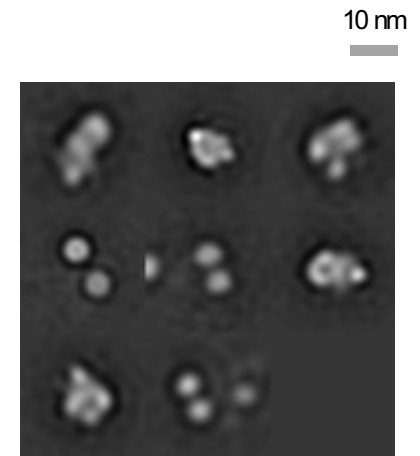
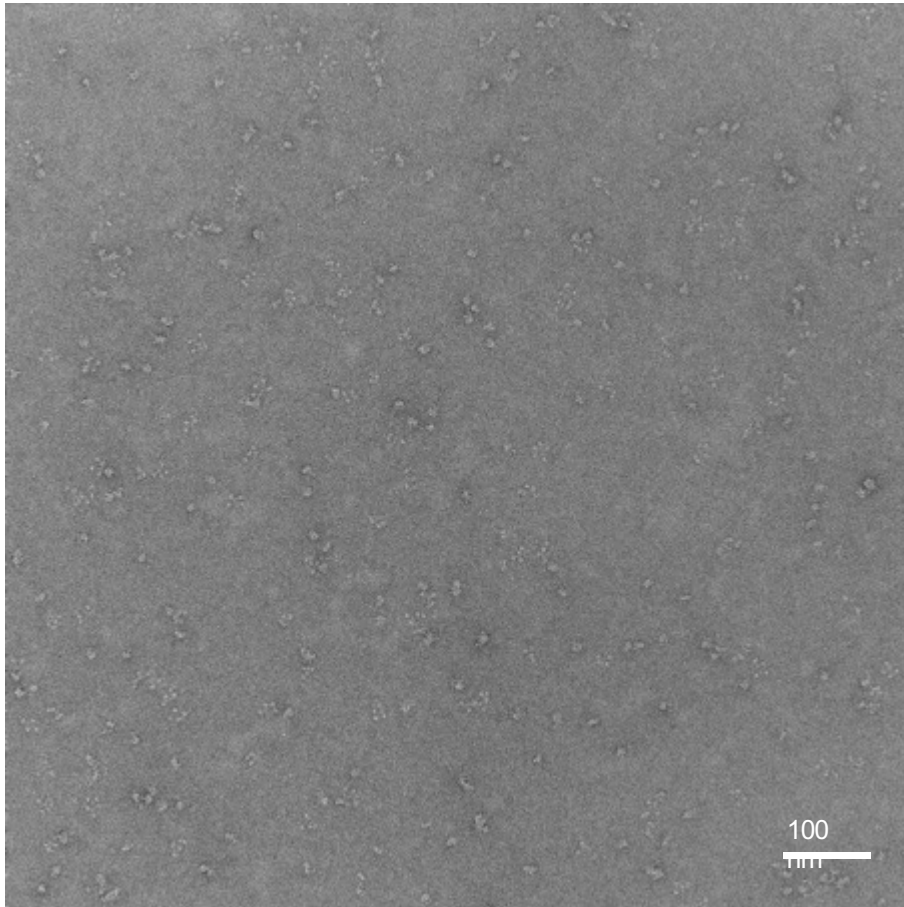


Total particles picked: 7756

Total particles clearly in closed state: 1760

Total particles clearly in open state: 4127

N1-CA09-WT + Stalk



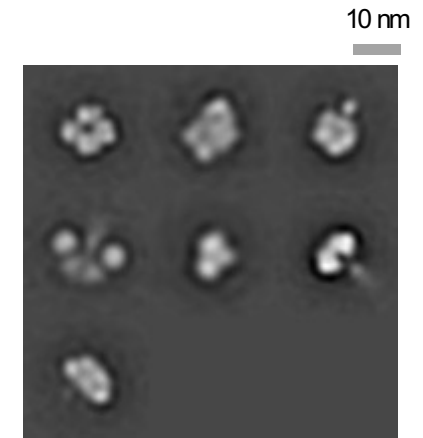
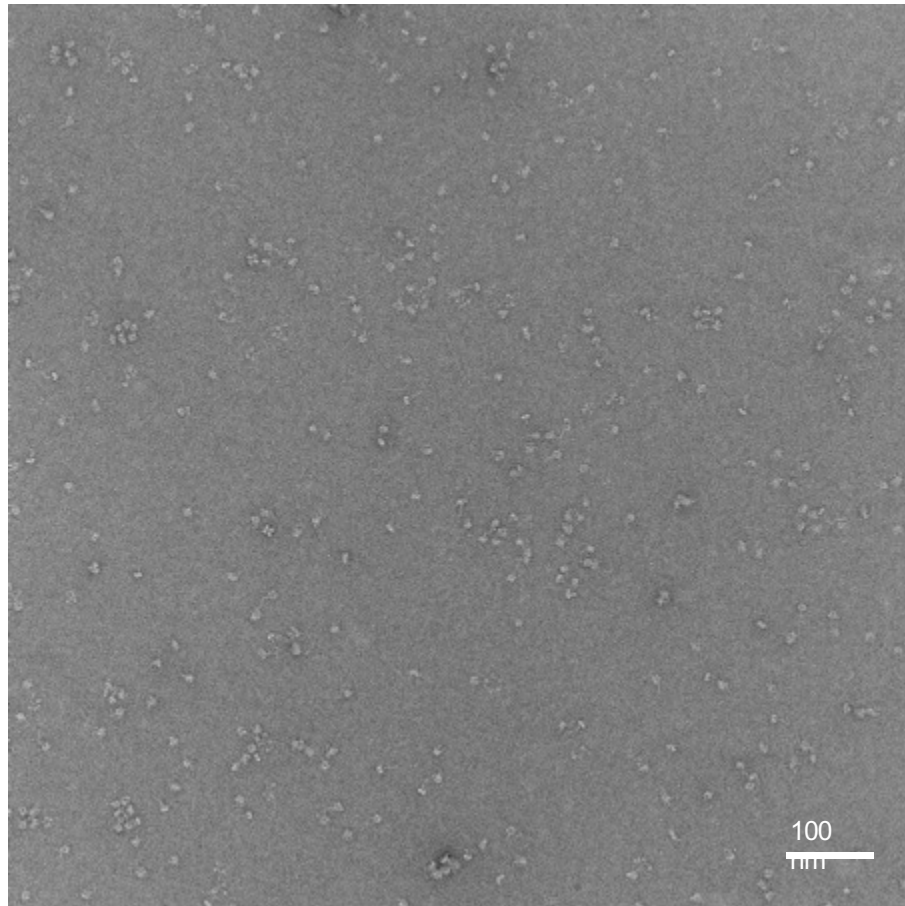
Total particles picked: 8619

Total particles clearly in closed state: 0

Total particles clearly in open state: 0

Classes appeared largely disordered

N1-CA09-WT + Stalk with 1mM CaCl₂ added throughout purification process



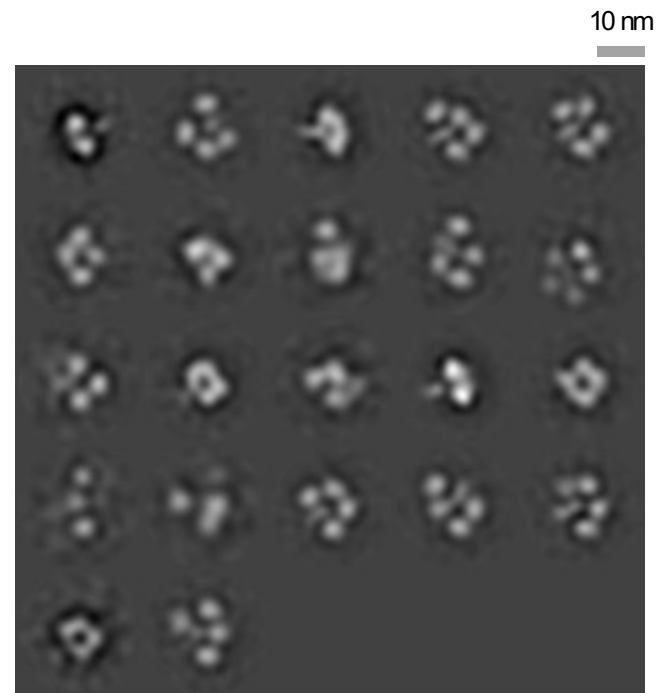
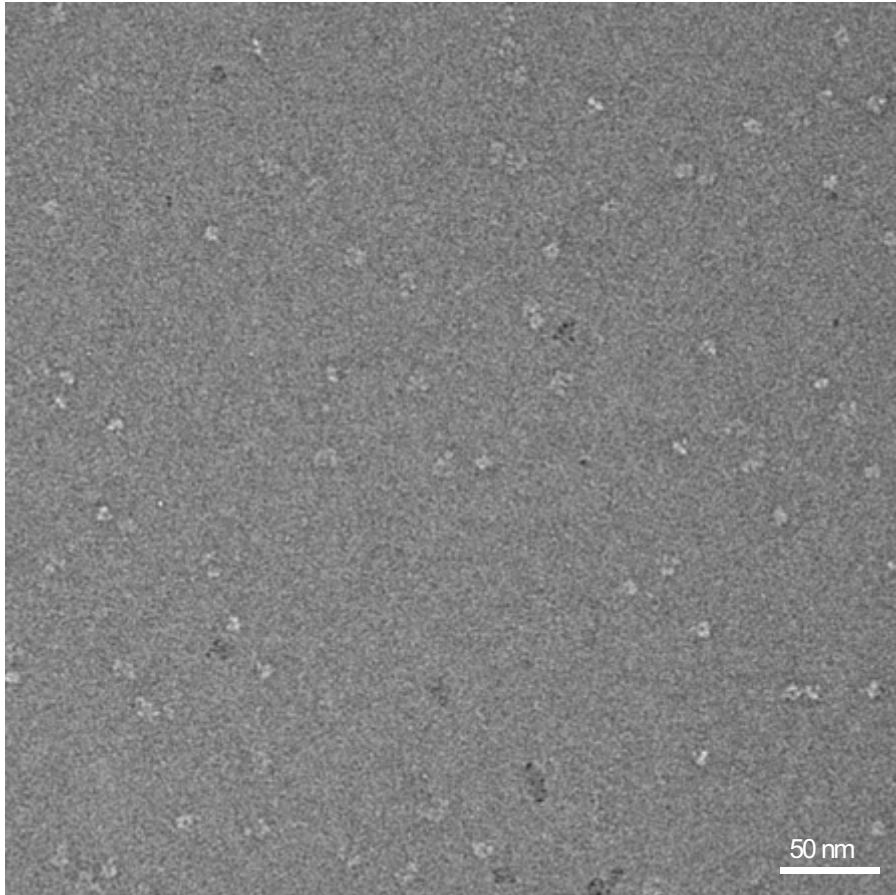
Total particles picked: 9097

Total particles clearly in closed state: 3335

Total particles clearly in open state: 389

Many particles appeared otherwise disordered

N1-CA09-sNAp-94

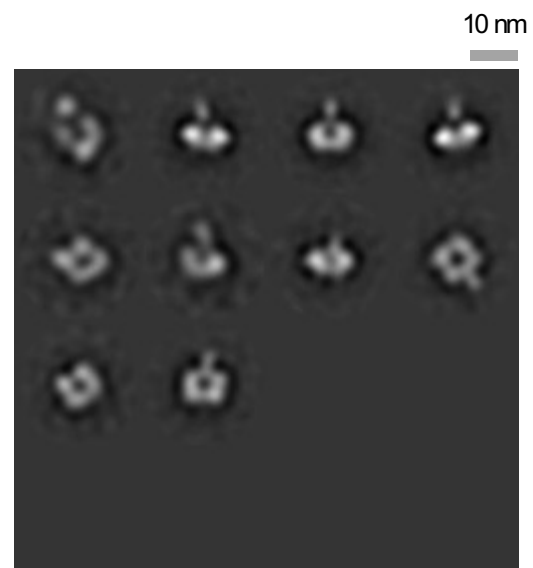
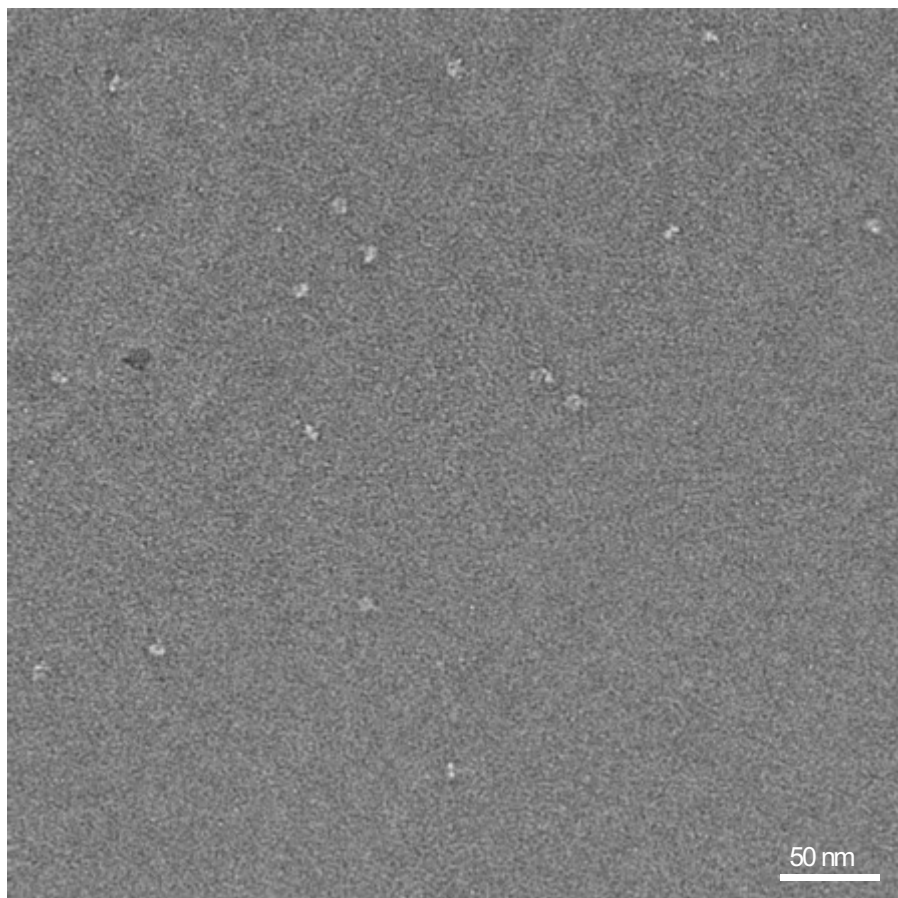


Total particles picked: 6596

Total particles clearly in closed state: 2471

Total particles clearly in open state: 2585

N1-CA09-sNAp-114

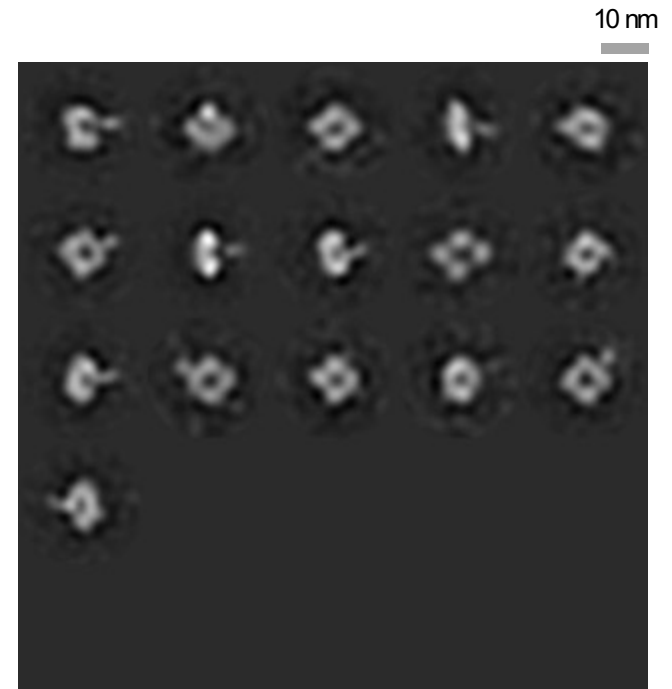
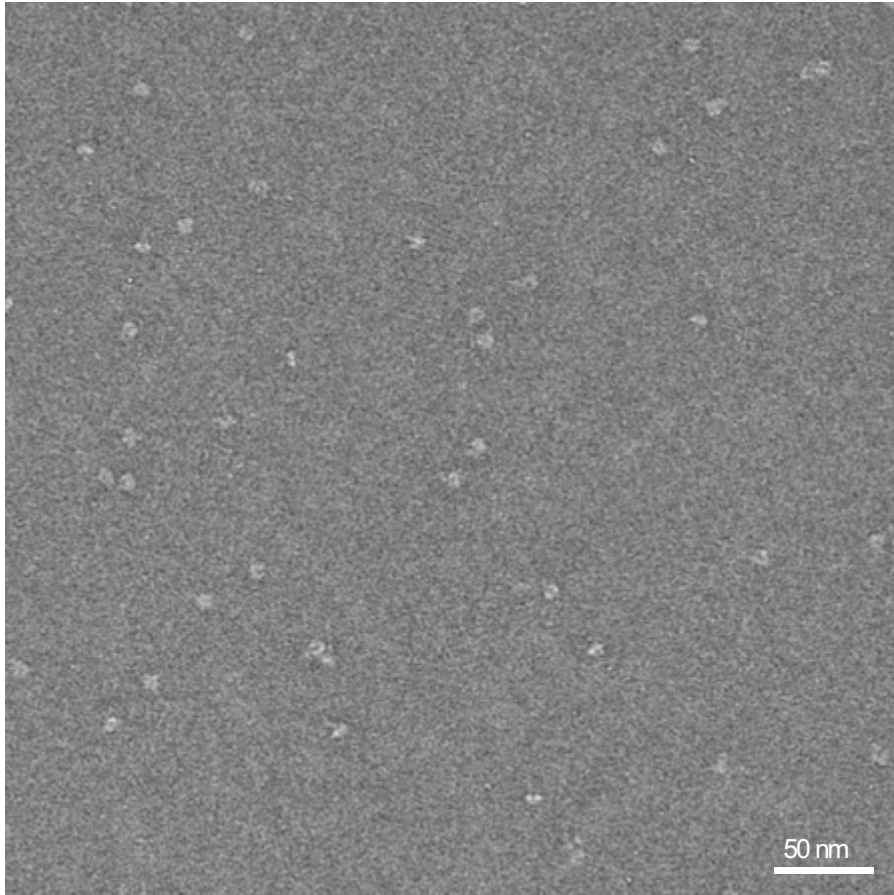


Total particles picked: 3155

Total particles clearly in closed state: 1647

Total particles clearly in open state: 41

N1-CA09-sNAp-130

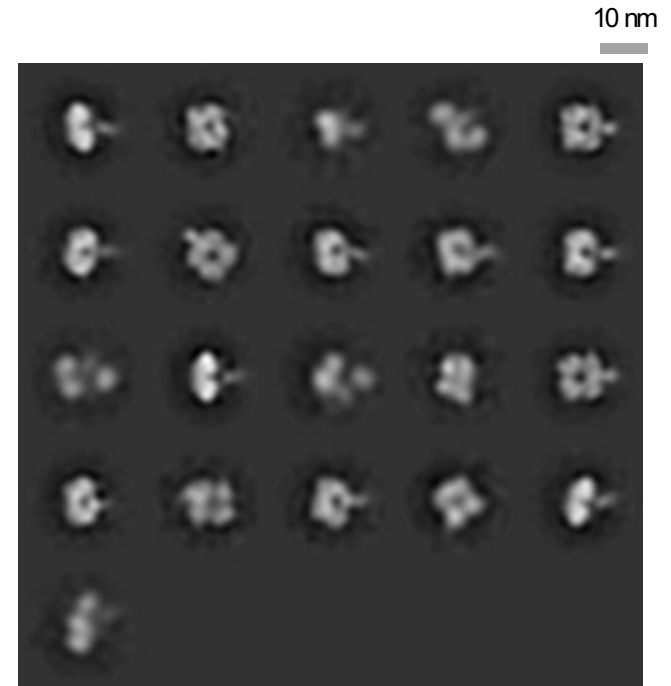
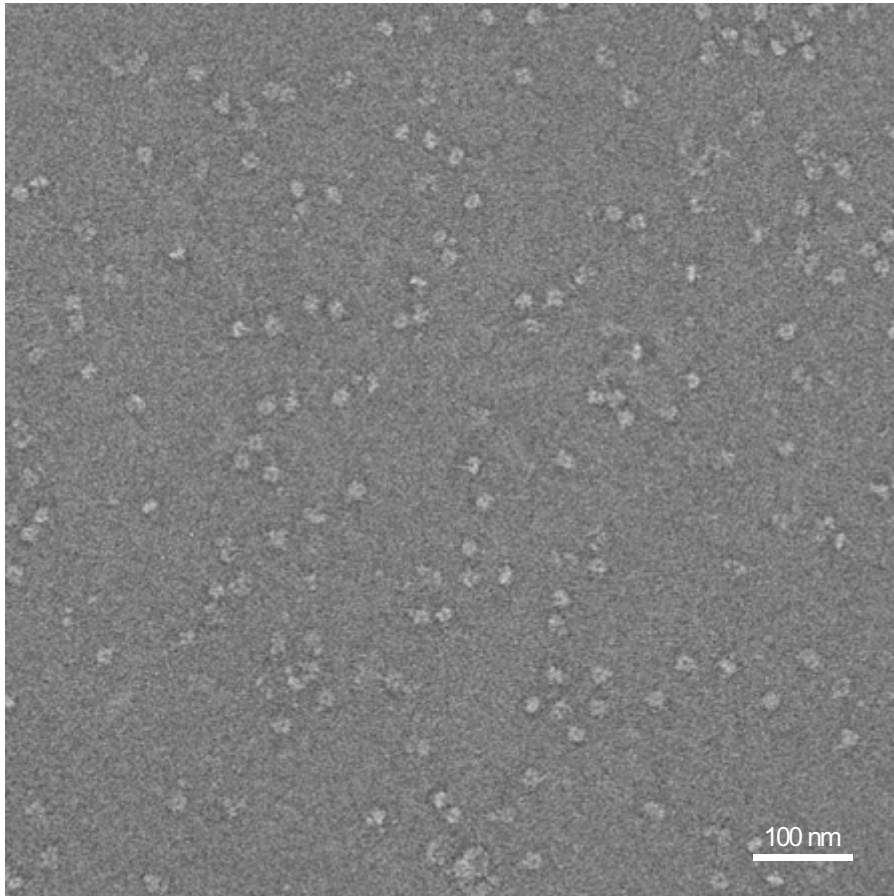


Total particles picked: 4334

Total particles clearly in closed state: 3152

Total particles clearly in open state: 0

N1-CA09-sNAp-155

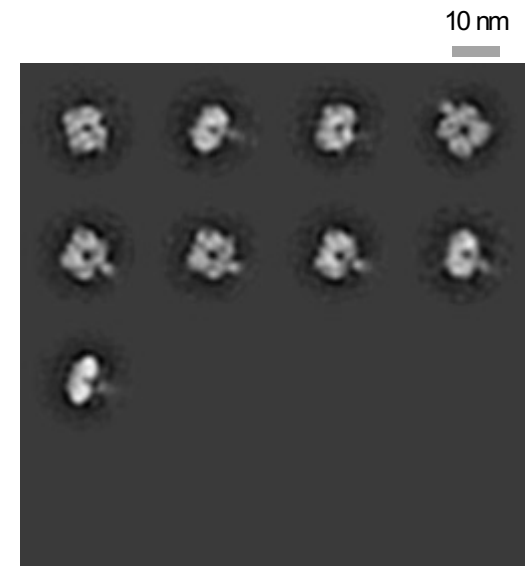
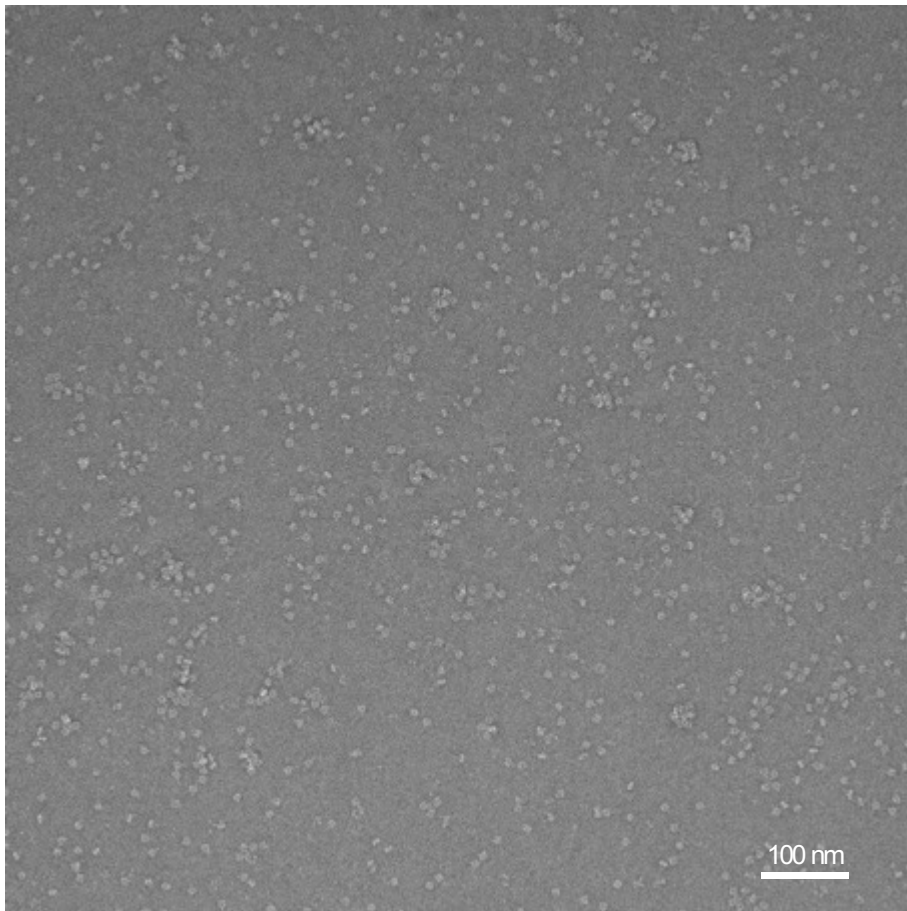


Total particles picked: 9724

Total particles clearly in closed state: 7603

Total particles clearly in open state: 1152

N1-CA09-sNAP-155, time course study - Day 0

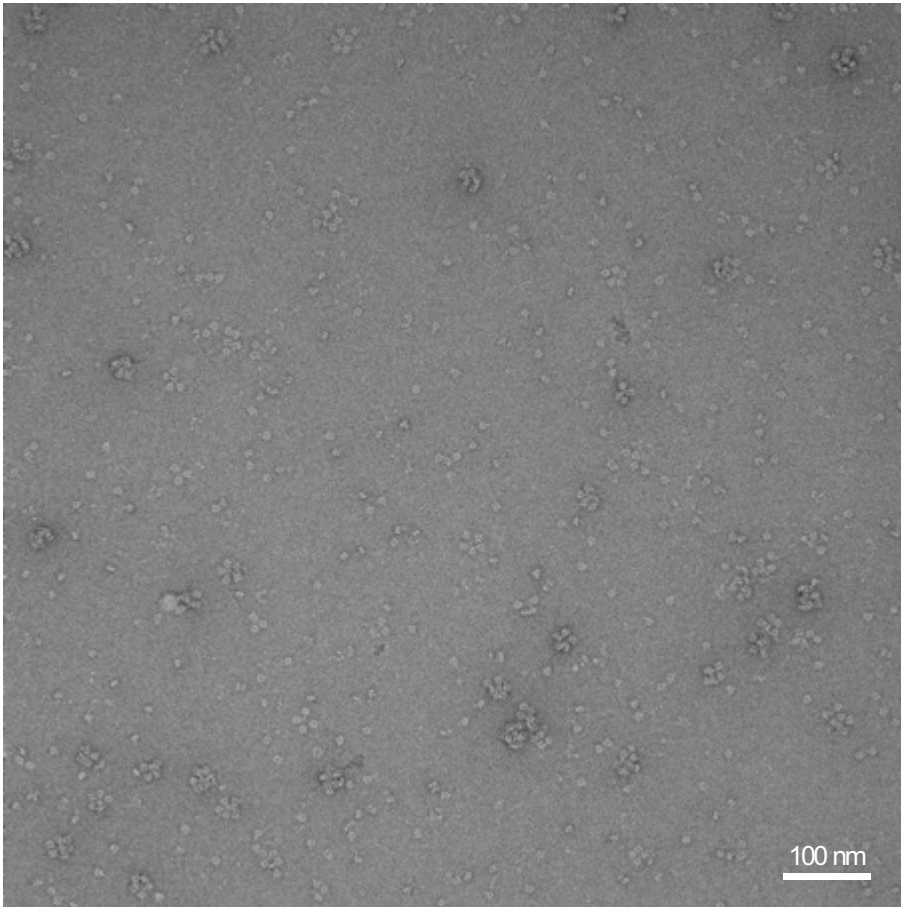


Total particles picked: 5727

Total particles clearly in closed state: 4853

Total particles clearly in open state: 0

N1-CA09-sNAp-155, time course study - Day 6

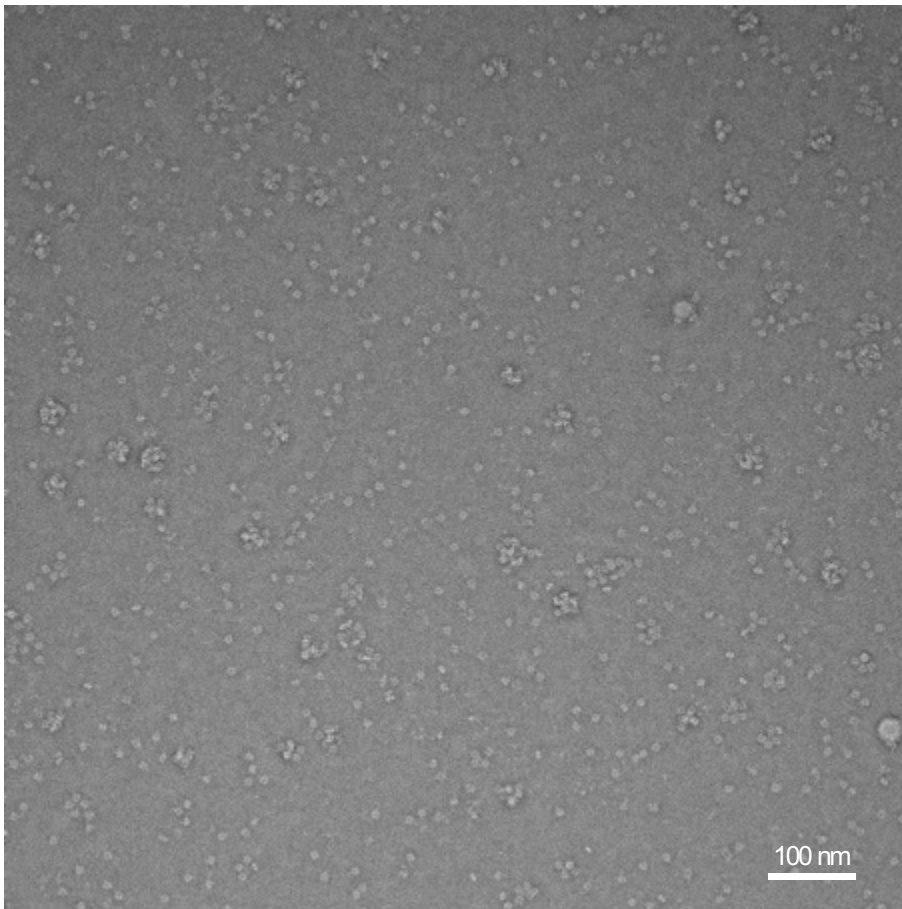


Total particles picked: 4503

Total particles clearly in closed state: 3205

Total particles clearly in open state: 0

N1-CA09-sNAP-155, time course study - Day 10

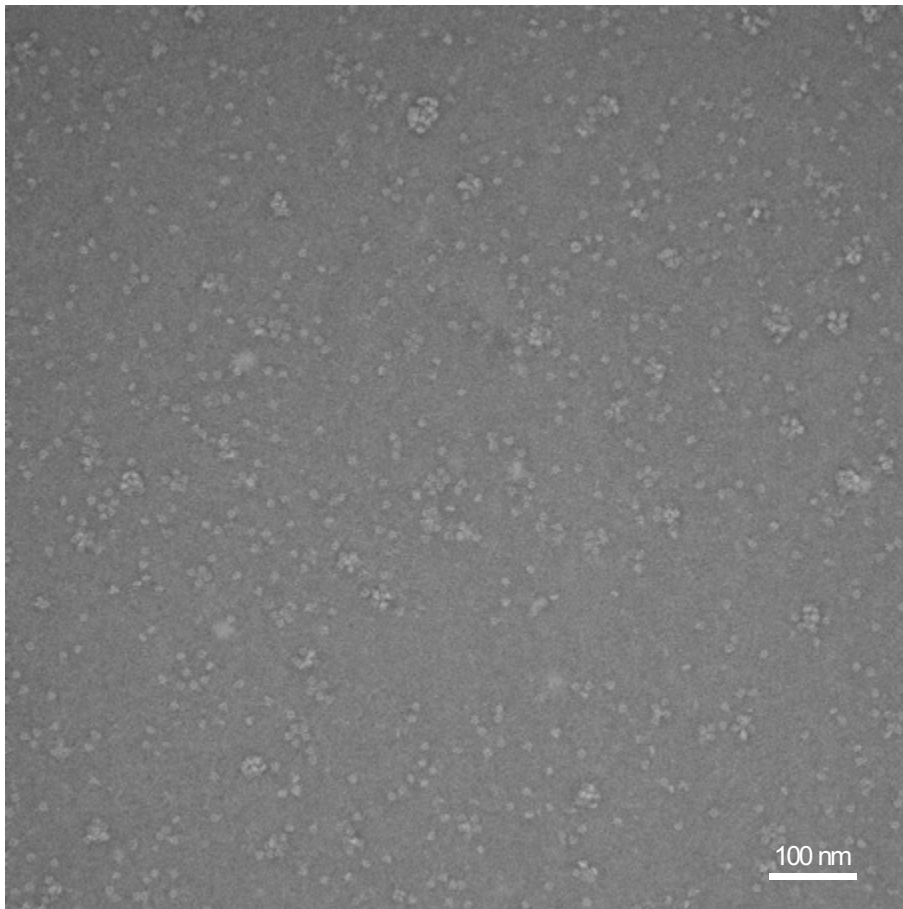


Total particles picked: 5179

Total particles clearly in closed state: 4010

Total particles clearly in open state: 0

N1-CA09-sNAp-155, time course study - Day 15

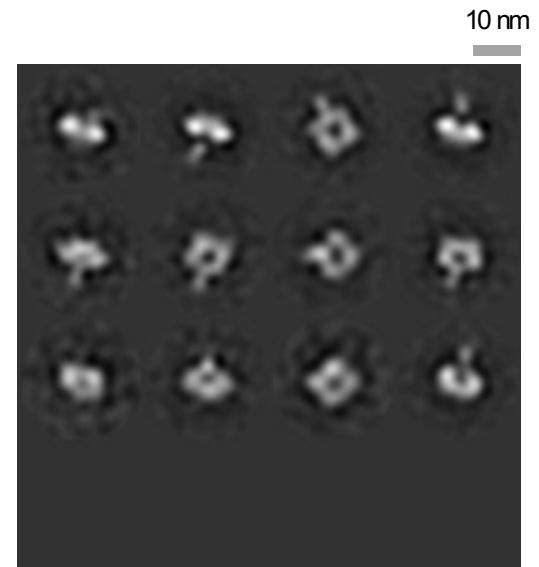
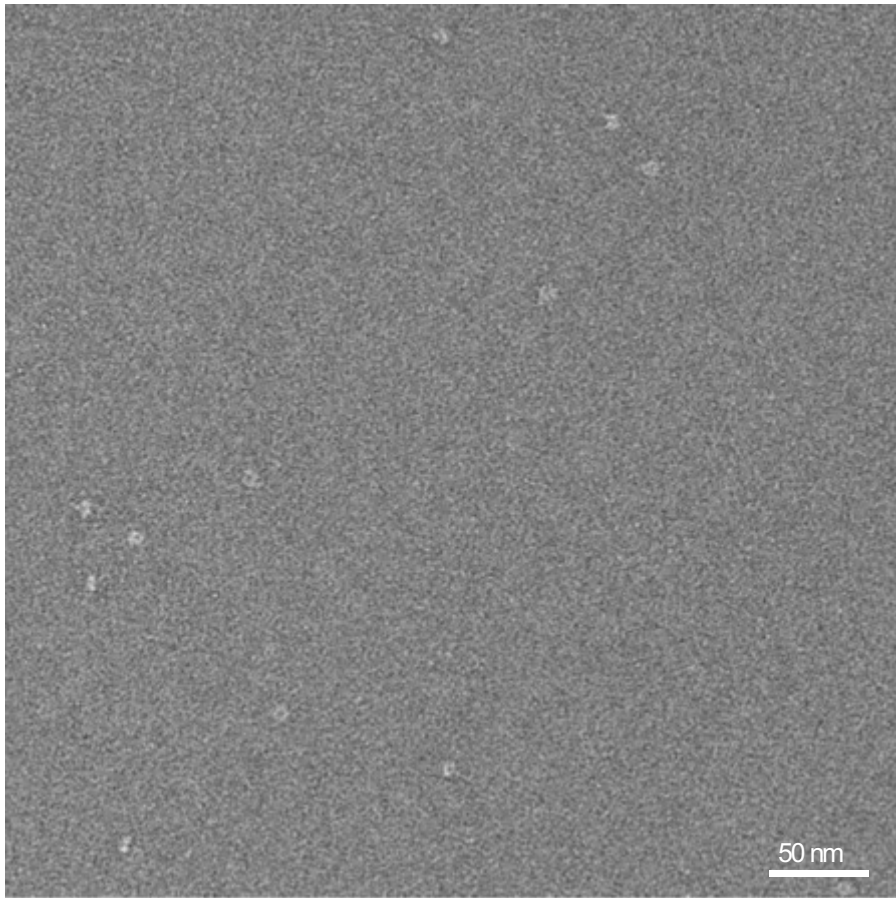


Total particles picked: 6941

Total particles clearly in closed state: 4670

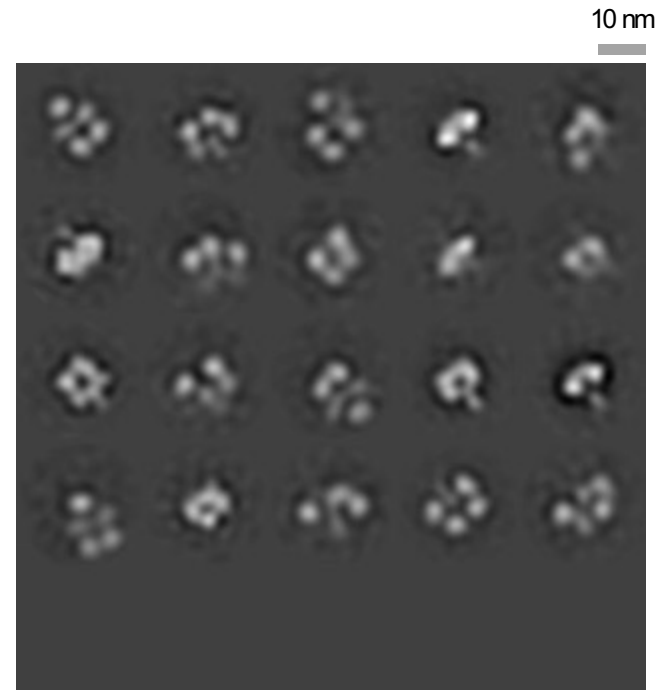
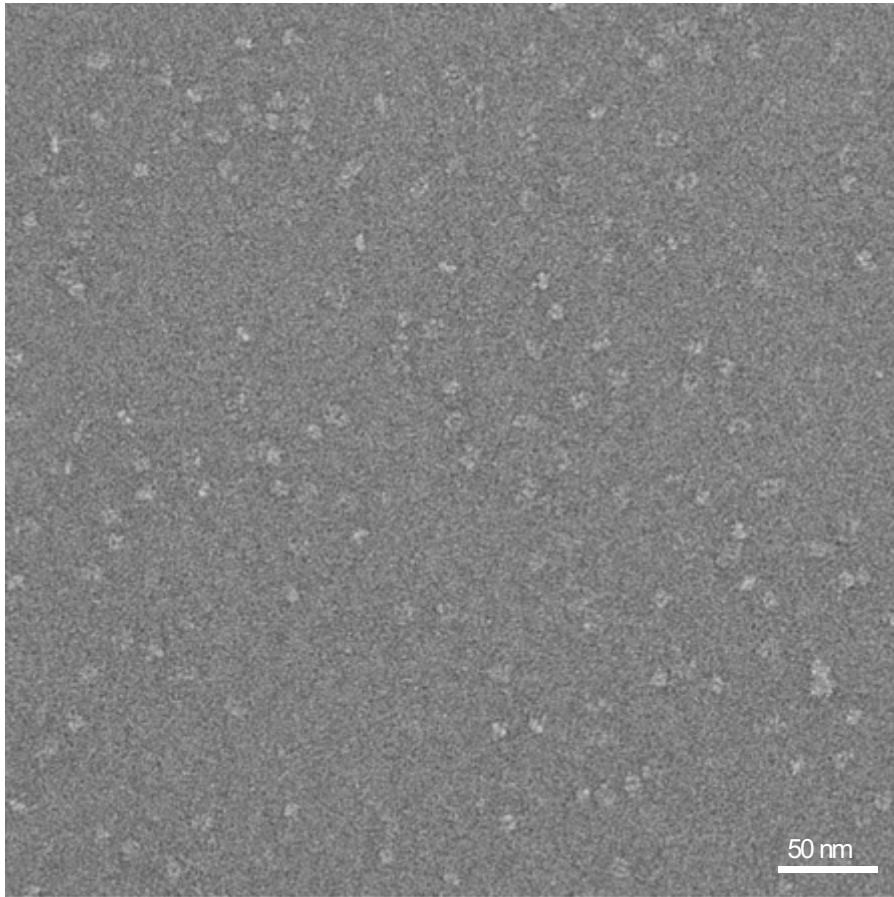
Total particles clearly in open state: 0

N1-CA09-sNAp-131



Total particles picked: 2004
Total particles clearly in closed state: 1508
Total particles clearly in open state: 0

N1-CA09-sNAp-134

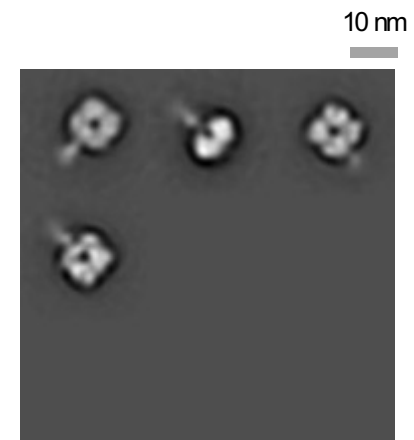
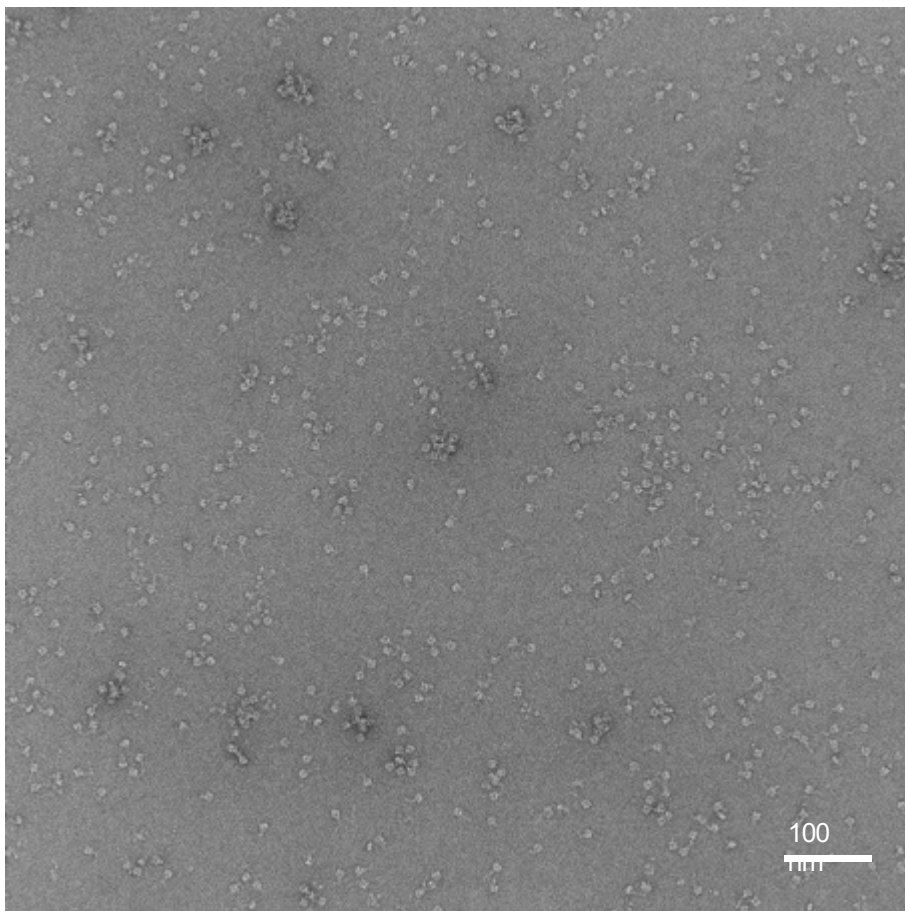


Total particles picked: 16073

Total particles clearly in closed state: 5389

Total particles clearly in open state: 4932

N1-CA09-sNAp-130 + Stalk

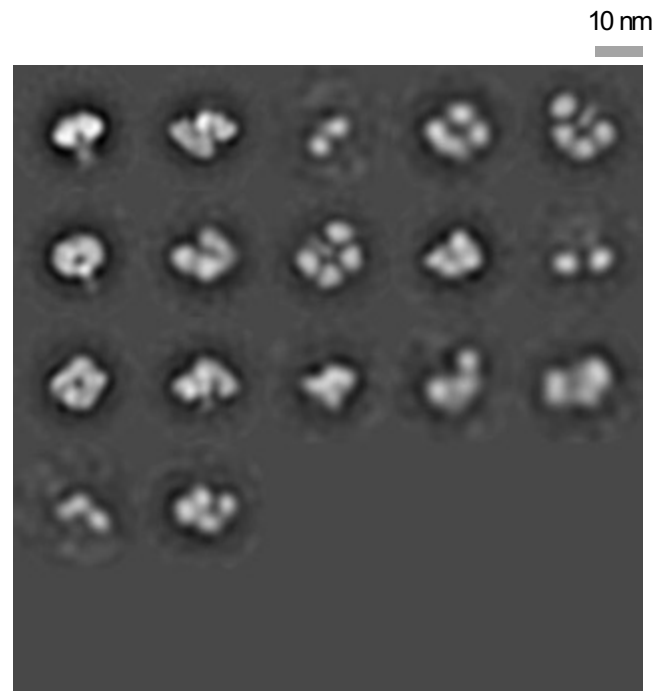
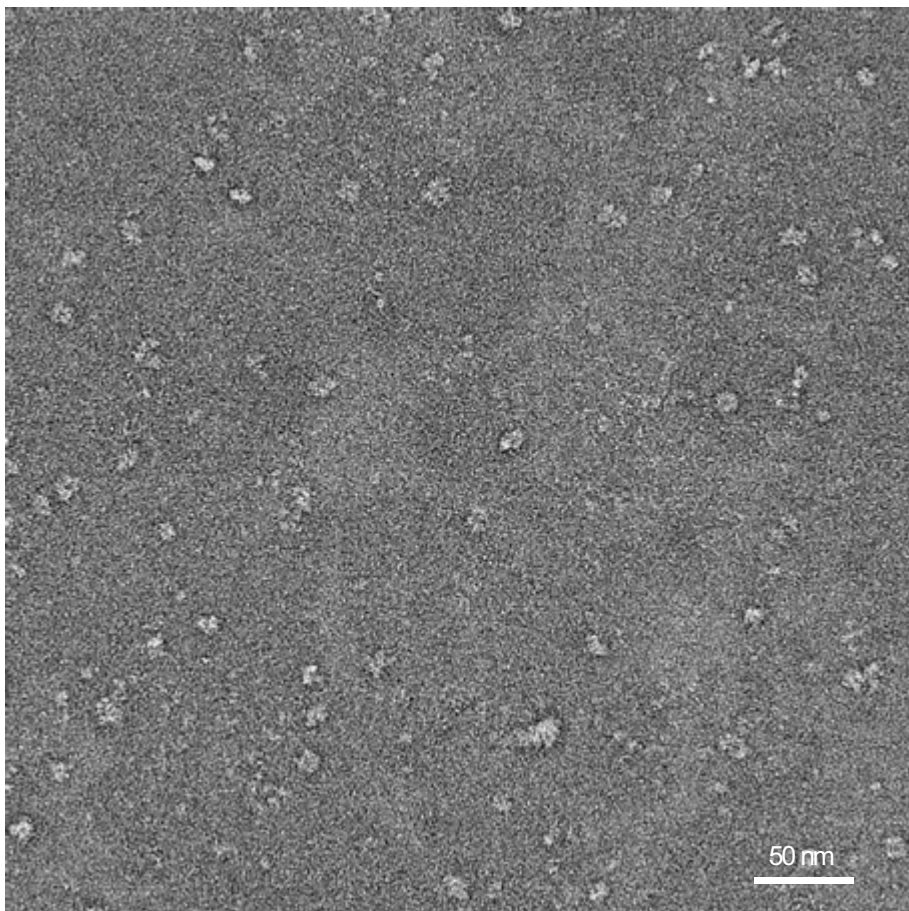


Total particles picked: 12656

Total particles clearly in closed state: 7405

Total particles clearly in open state: 0

N8-JD13-sNAp-282

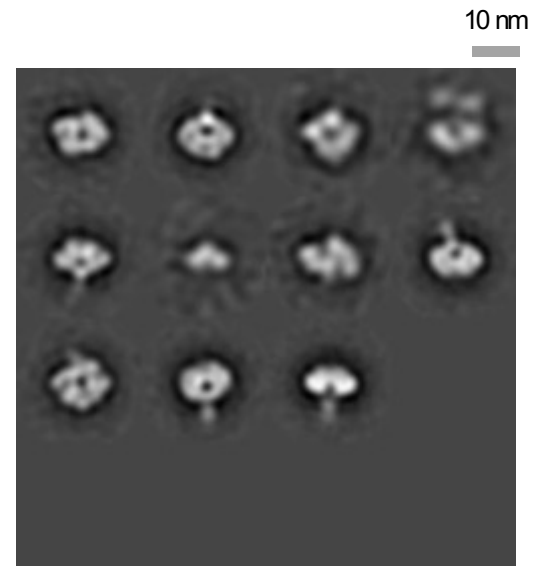
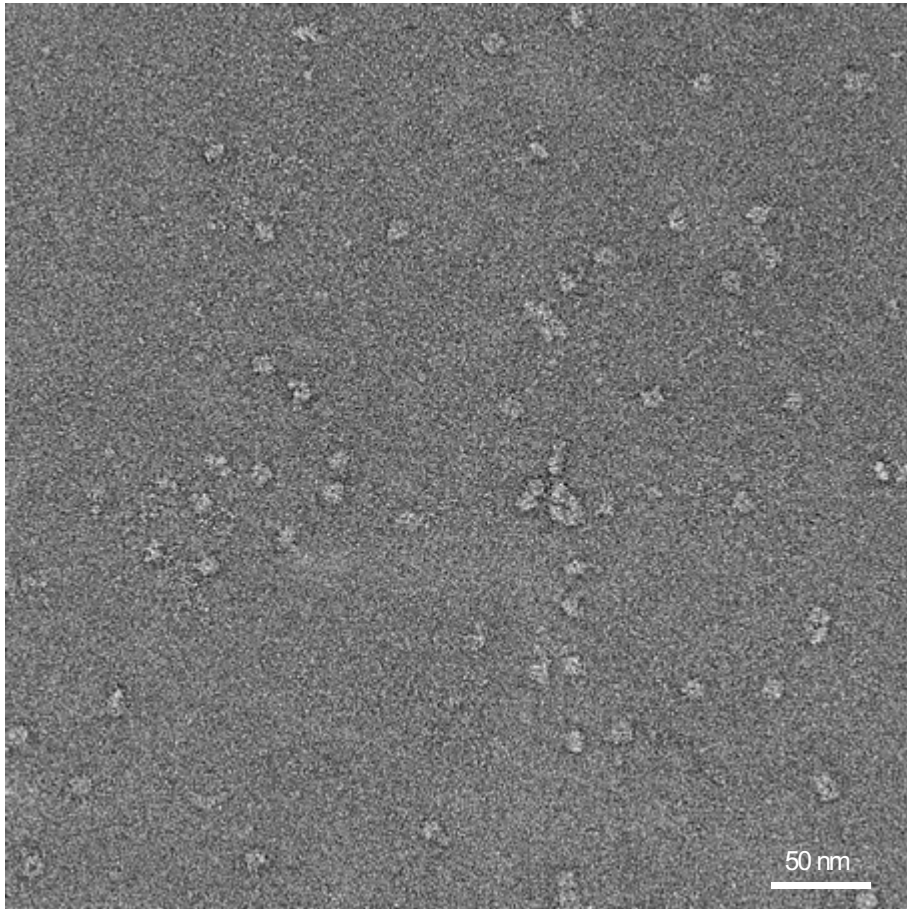


Total particles picked: 6305

Total particles clearly in closed state: 2049

Total particles clearly in open state: 1054

N8-JD13-sNAp-285

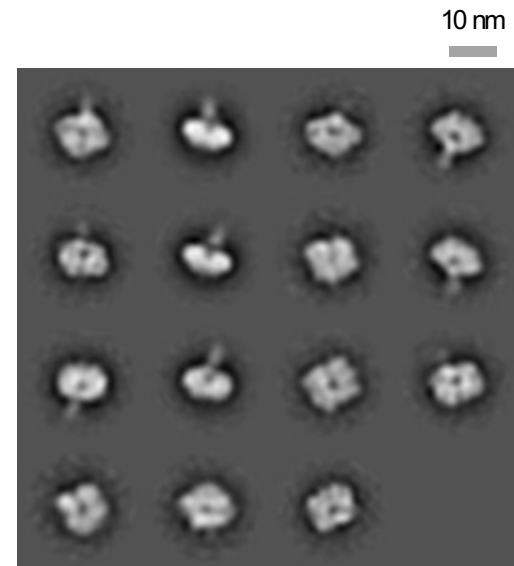
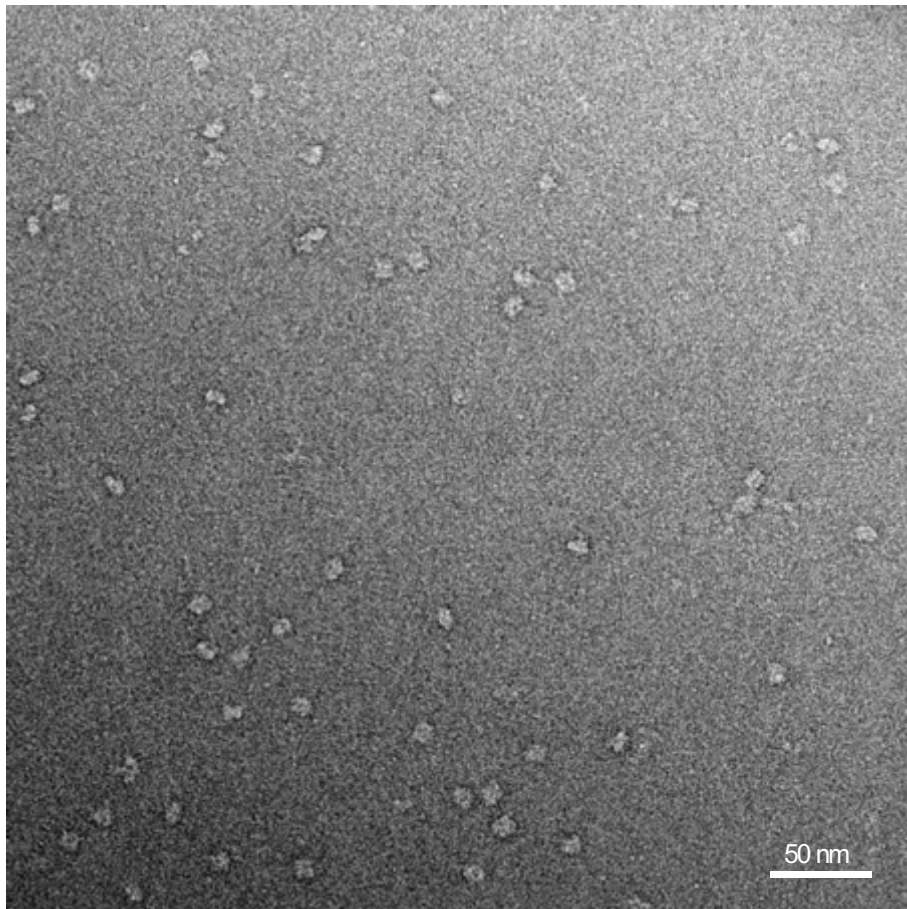


Total particles picked: 7923

Total particles clearly in closed state: 5493

Total particles clearly in open state: 0

N8-JD13-sNAp-285, time course study - Day 0

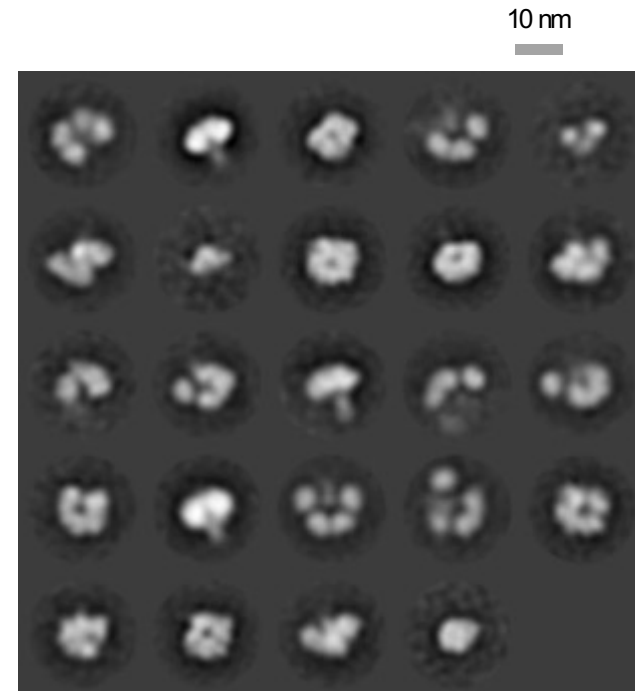
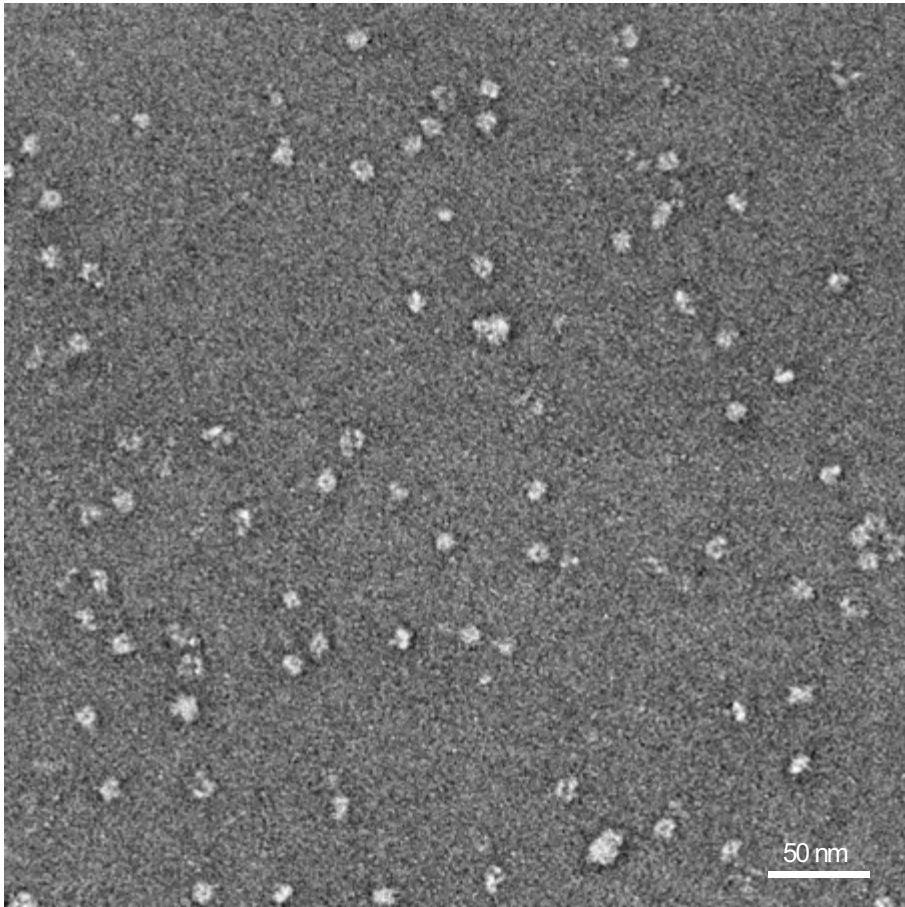


Total particles picked: 7275

Total particles clearly in closed state: 6055

Total particles clearly in open state: 201

N8-JD13-sNAp-285, time course study - Day 6

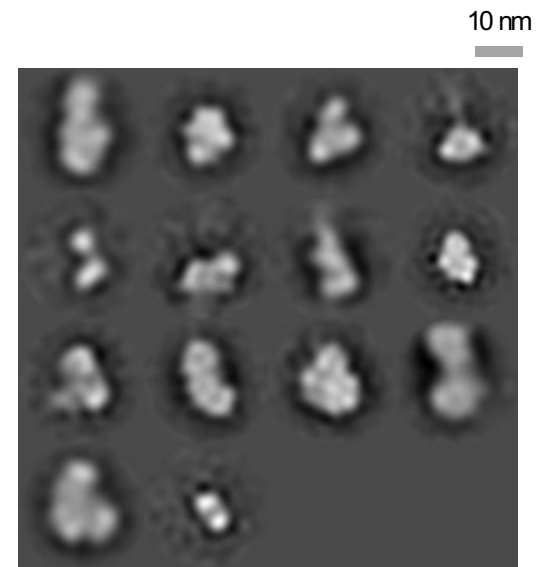
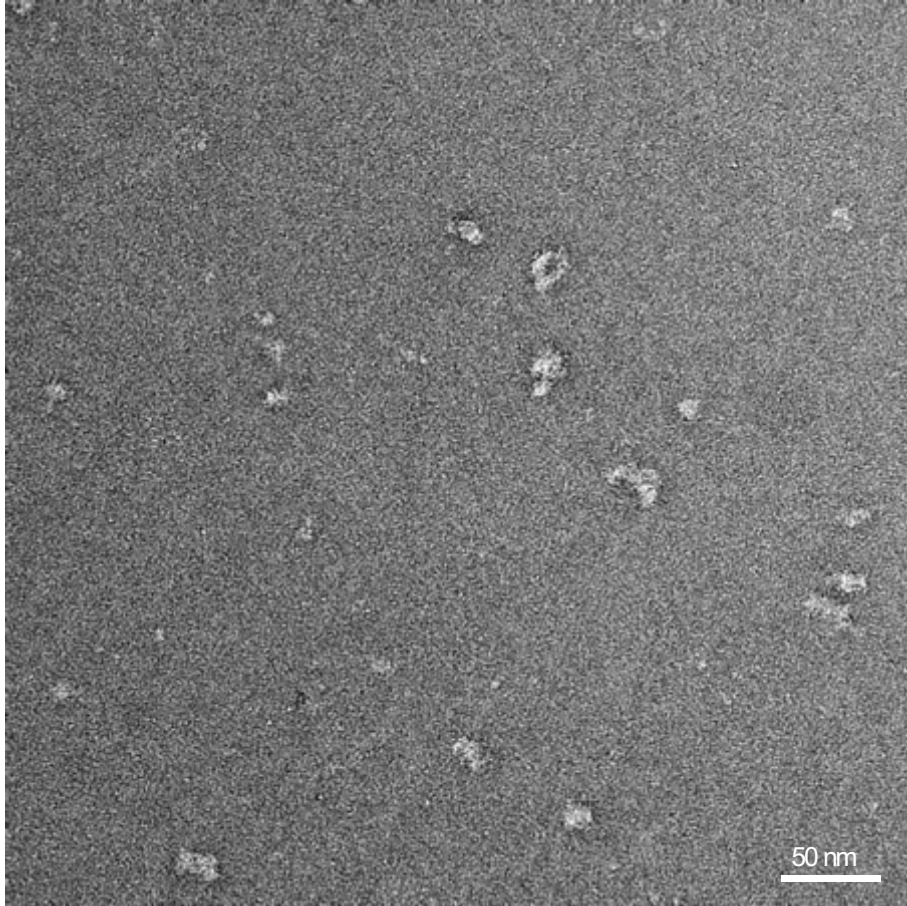


Total particles picked: 7000

Total particles clearly in closed state: 3477

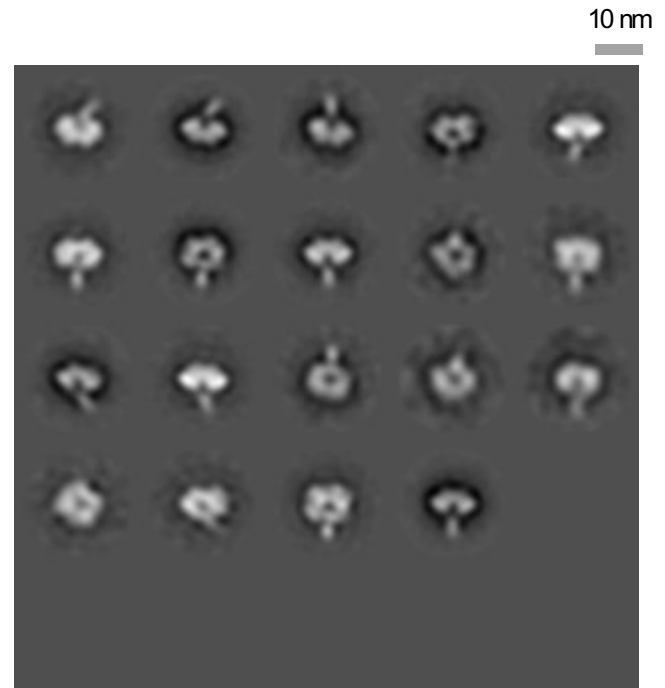
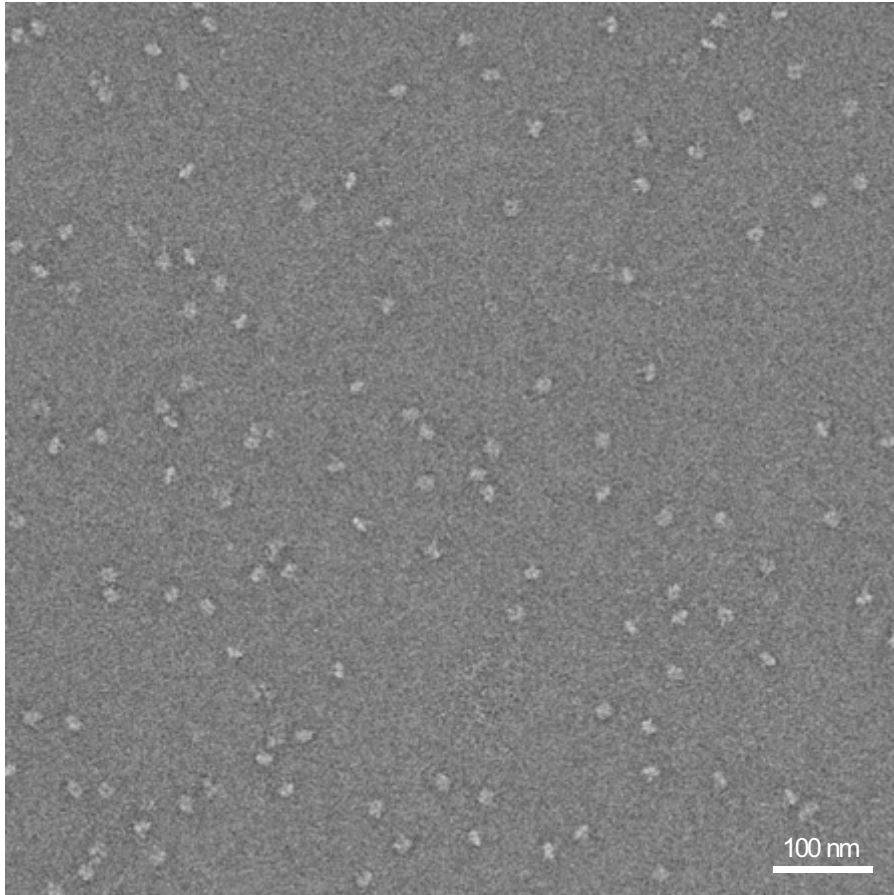
Total particles clearly in open state: 1634

N2-WI05-desNAp-156



Total particles picked: 5248
No clear tetramers observed to quantify

N2-WI05-desNAp-157

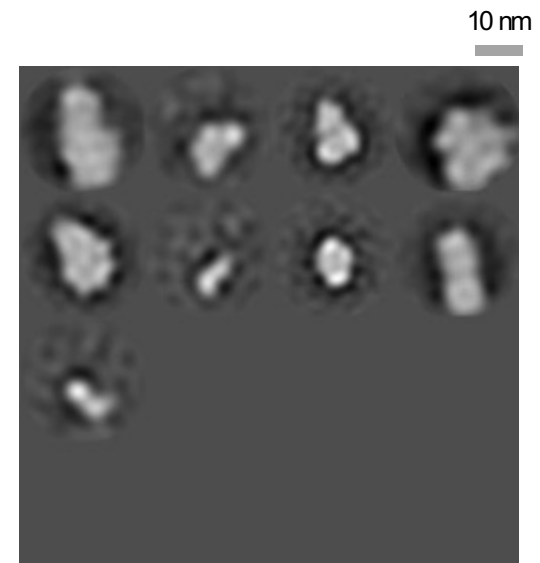
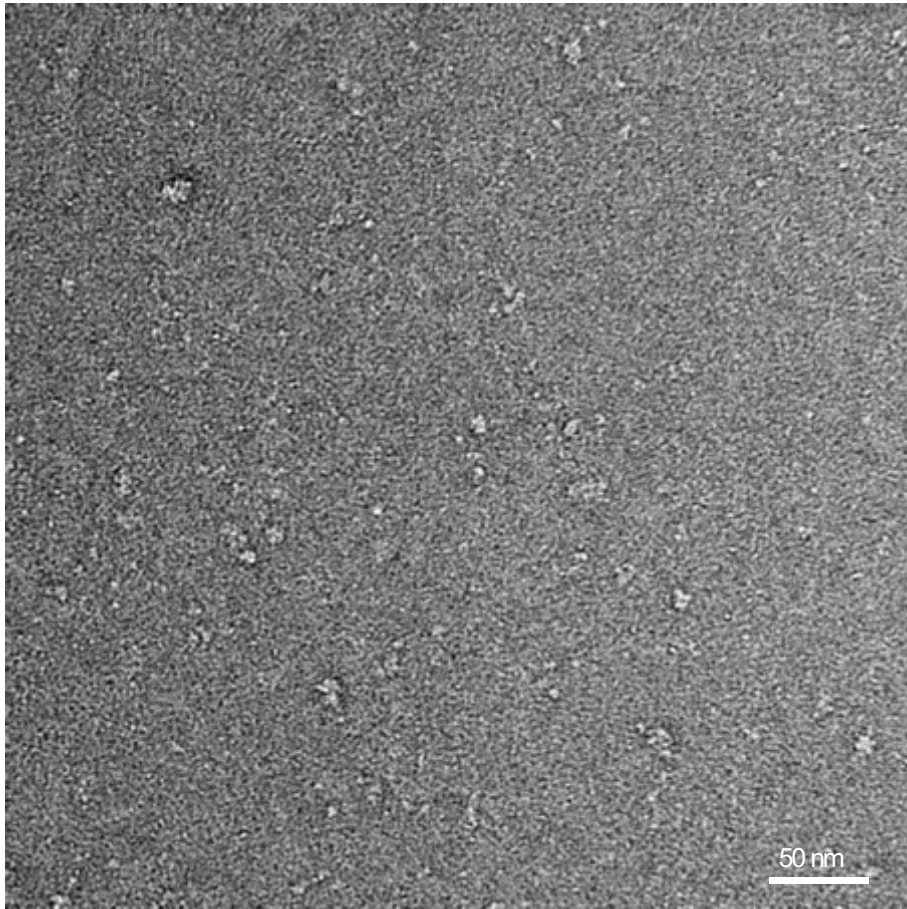


Total particles picked: 7203

Total particles clearly in closed state: 6190

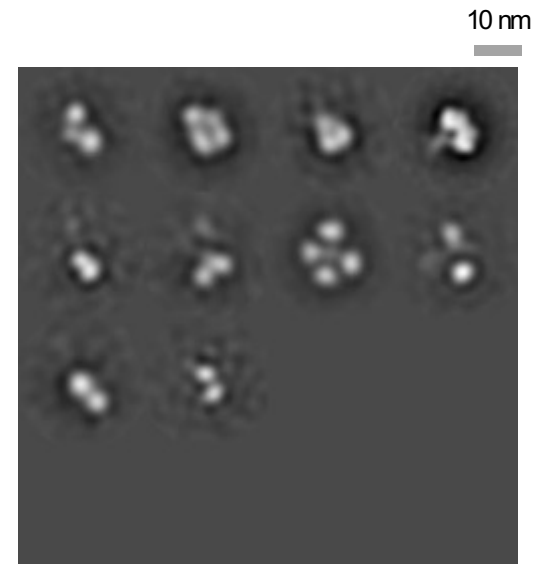
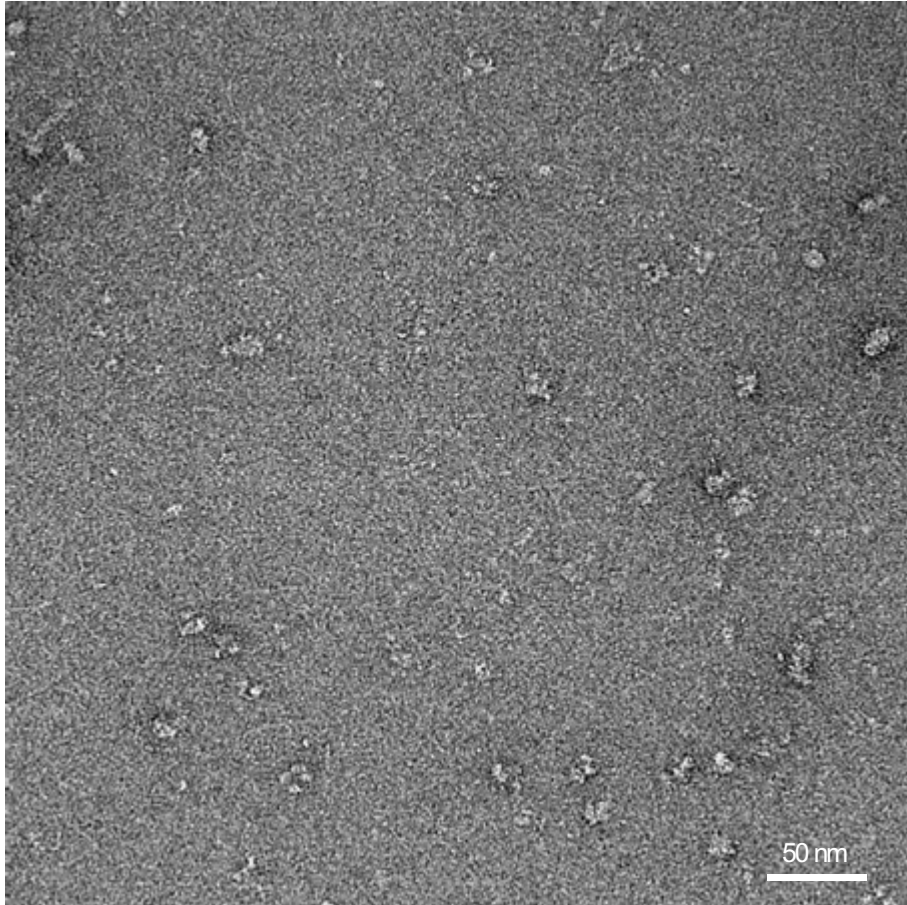
Total particles clearly in open state: 75

N2-WI05-desNAp-158



Total particles picked: 5916
No clear tetramers observed to quantify

N2-WI05-desNAp-249

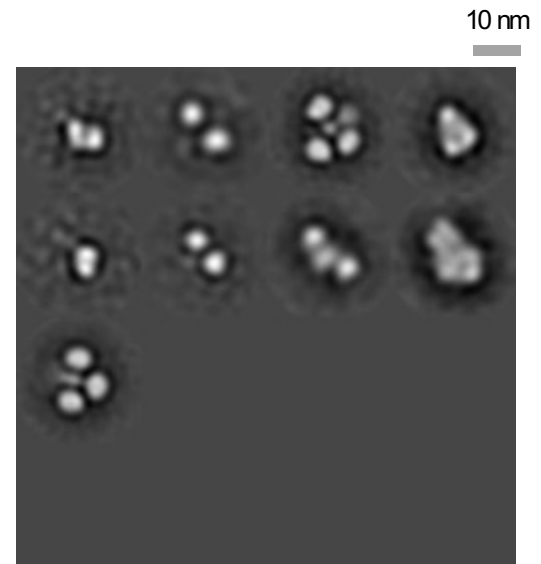
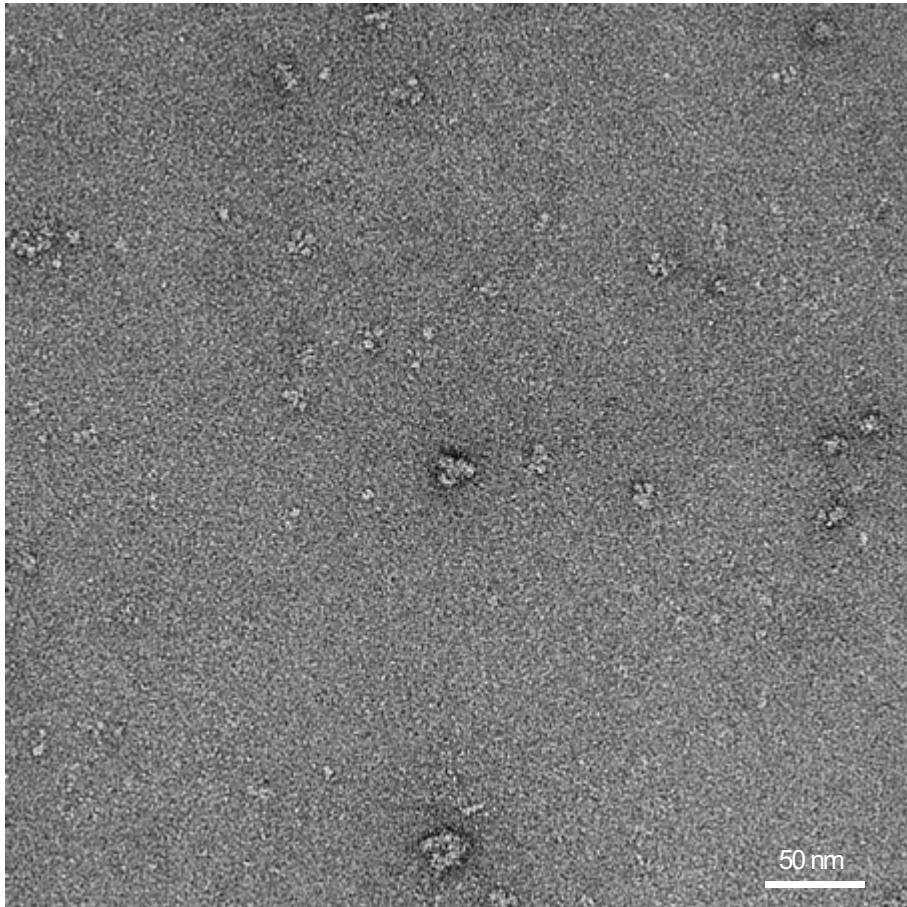


Total particles picked: 8258

Total particles clearly in closed state: 923

Total particles clearly in open state: 981

N2-WI05-desNAp-255

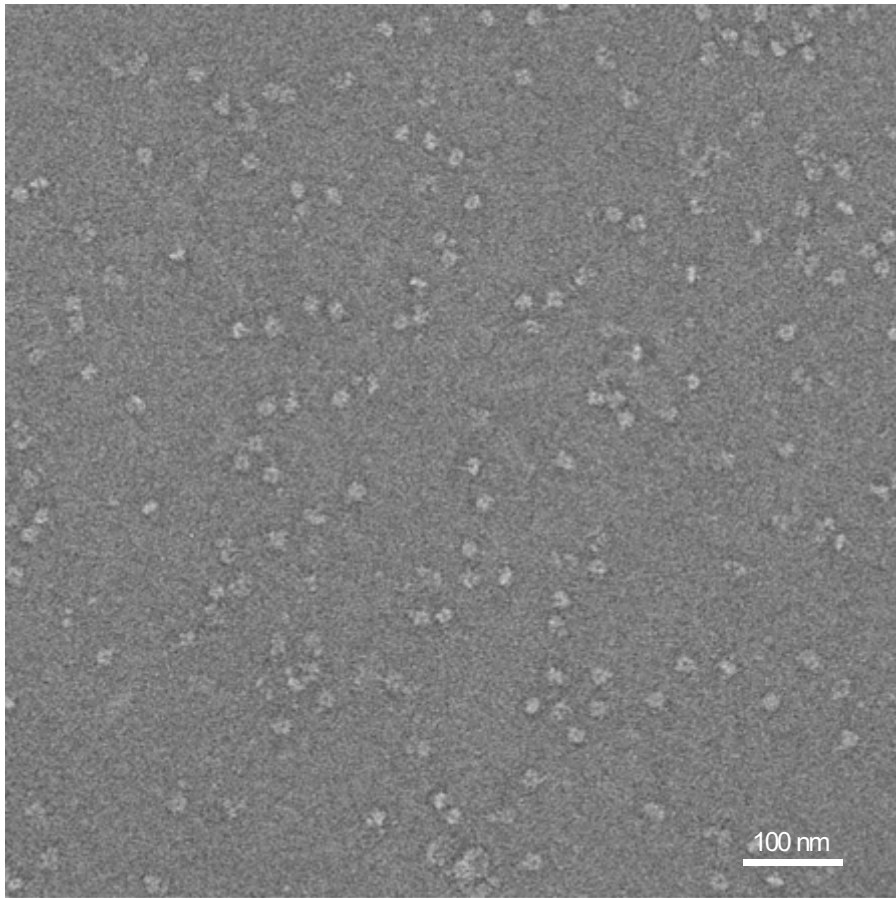


Total particles picked: 6458

Total particles clearly in closed state: 0

Total particles clearly in open state: 1215

N1-MI15-sNAp-155



10 nm

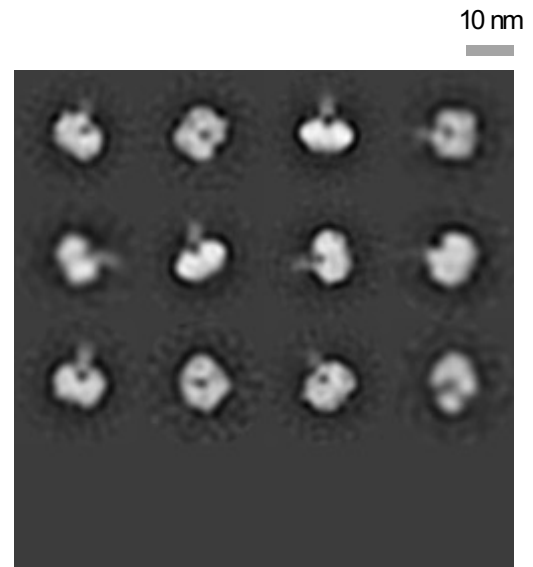
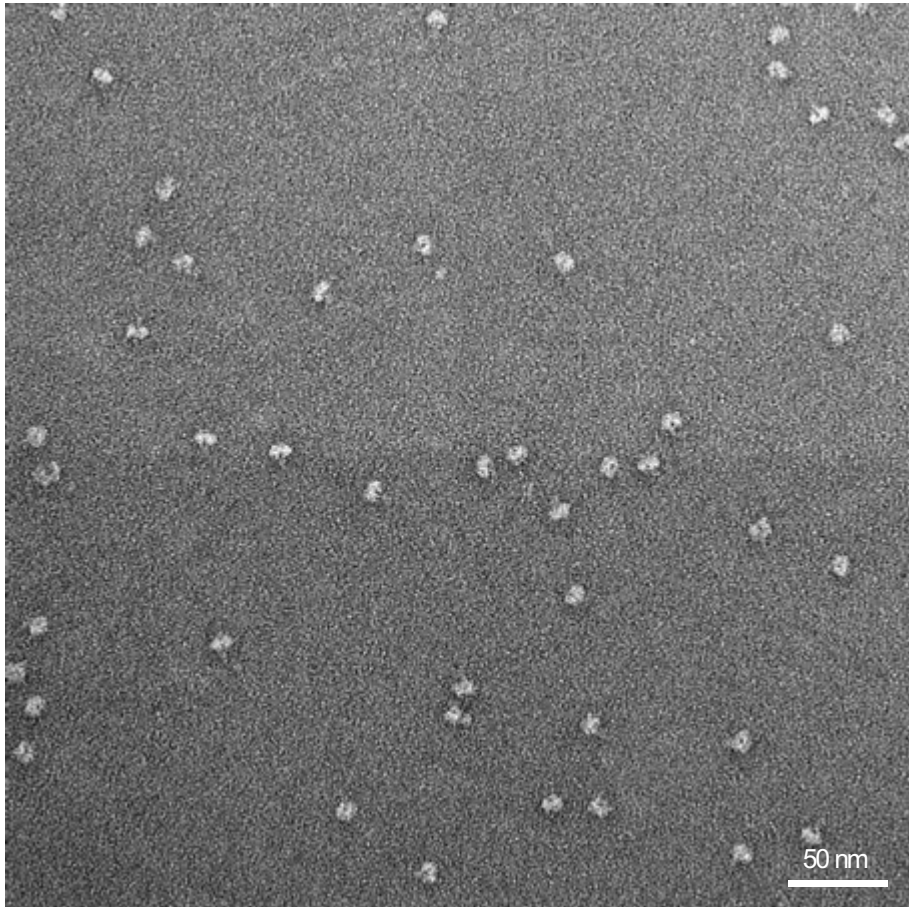


Total particles picked: 9724

Total particles clearly in closed state: 7603

Total particles clearly in open state: 1152

N1-MI15-sNAp-174

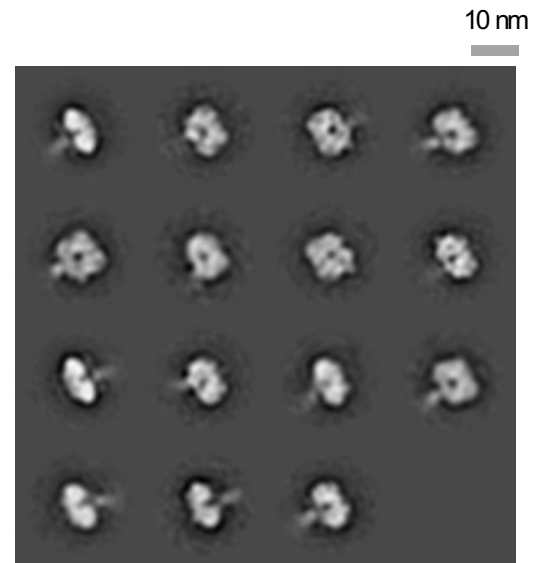
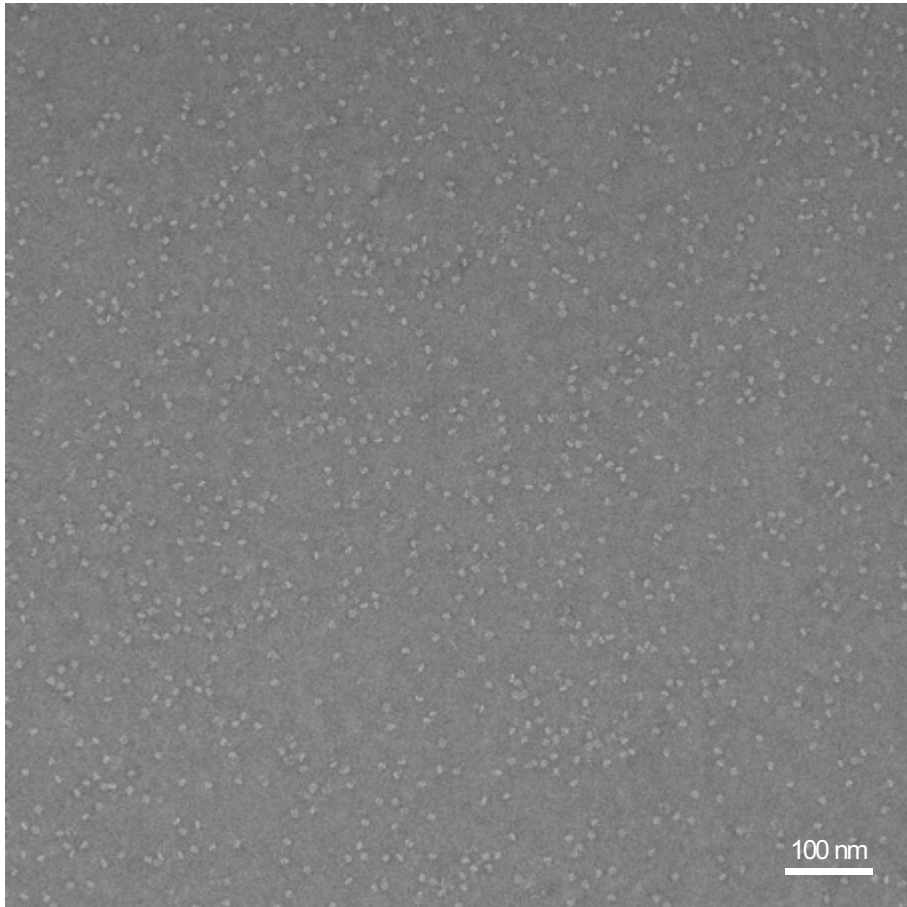


Total particles picked: 3241

Total particles clearly in closed state: 2875

Total particles clearly in open state: 178

N1-MI15-sNAp-174, time course study - Day 0

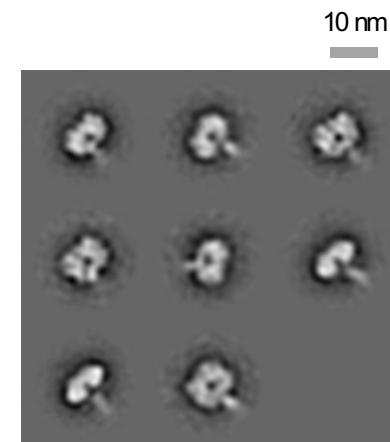
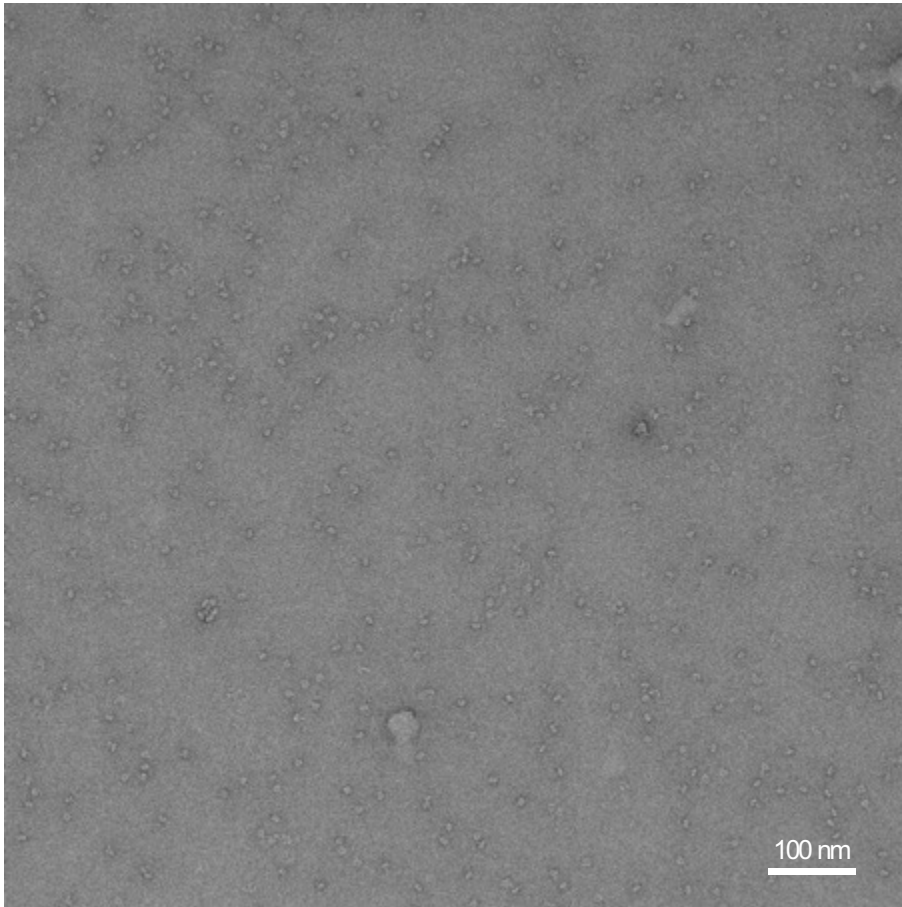


Total particles picked: 6698

Total particles clearly in closed state: 6300

Total particles clearly in open state: 280

N1-MI15-sNAp-174, time course study - Day 6

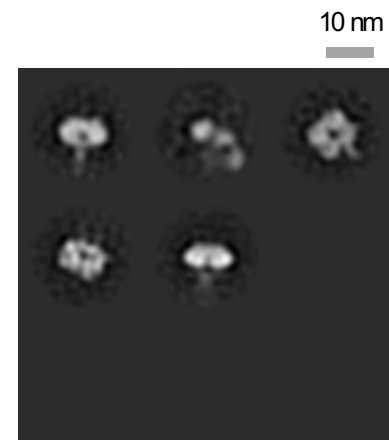
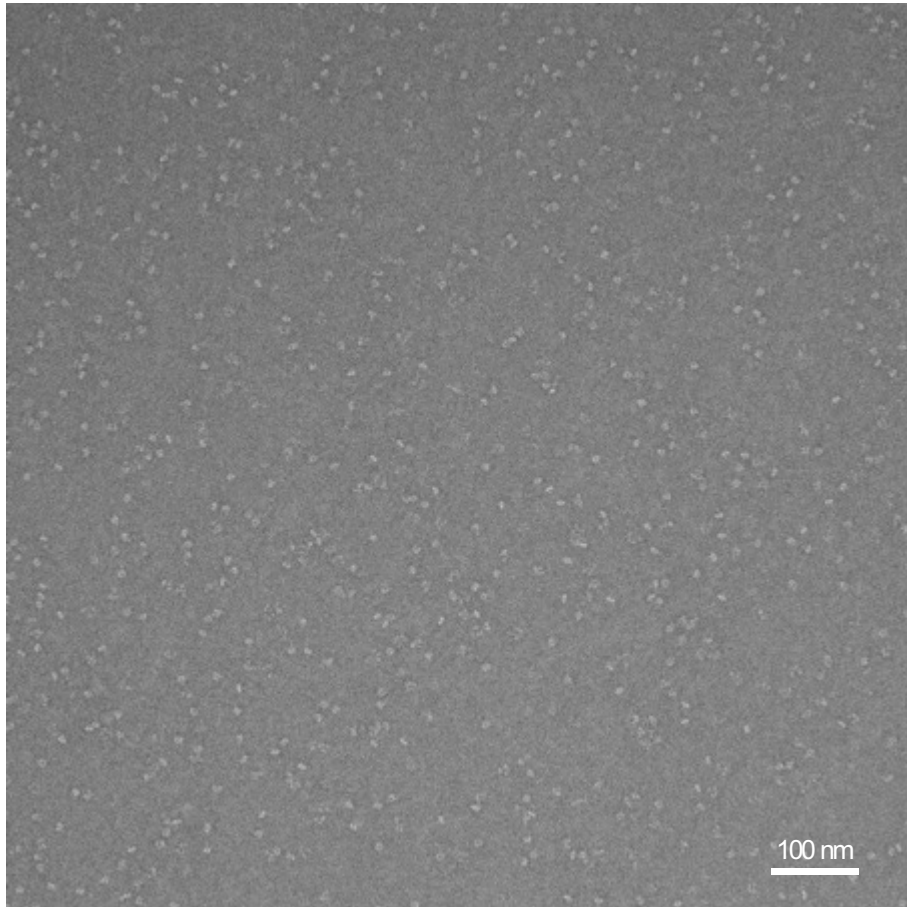


Total particles picked: 3549

Total particles clearly in closed state: 2702

Total particles clearly in open state: 93

N1-MI15-sNAp-174, time course study - Day 10

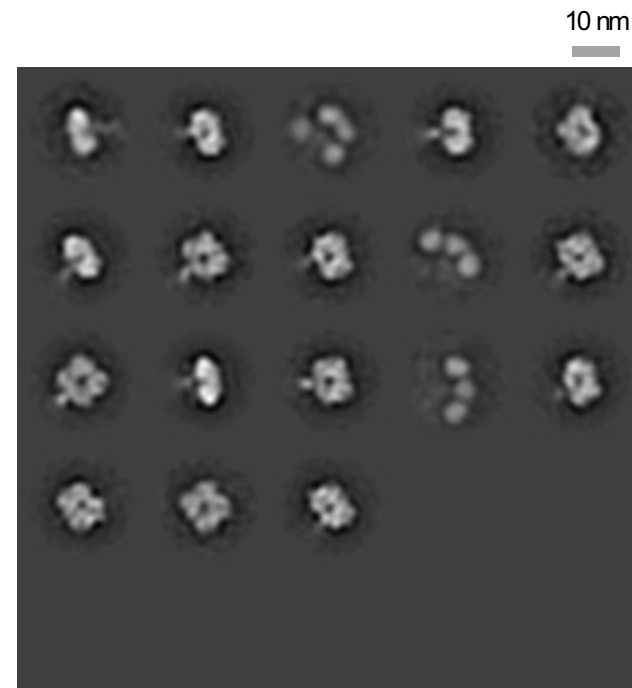
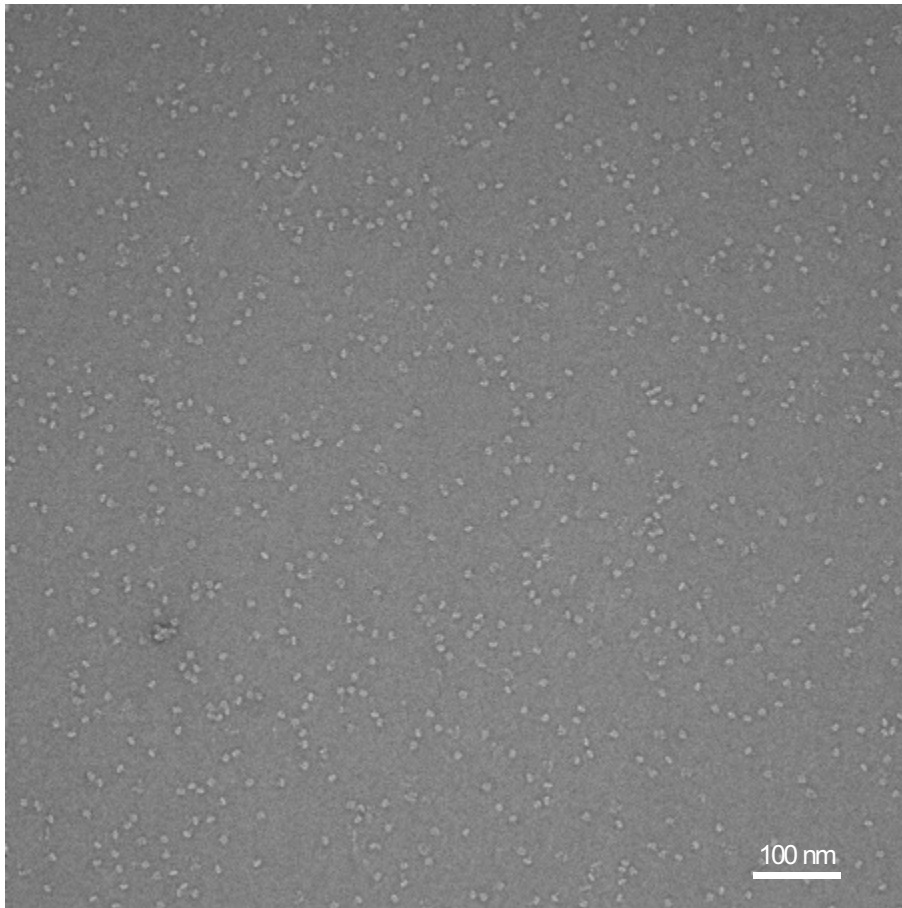


Total particles picked: 5314

Total particles clearly in closed state: 2108

Total particles clearly in open state: 330

N1-MI15-sNAp-174, time course study - Day 15

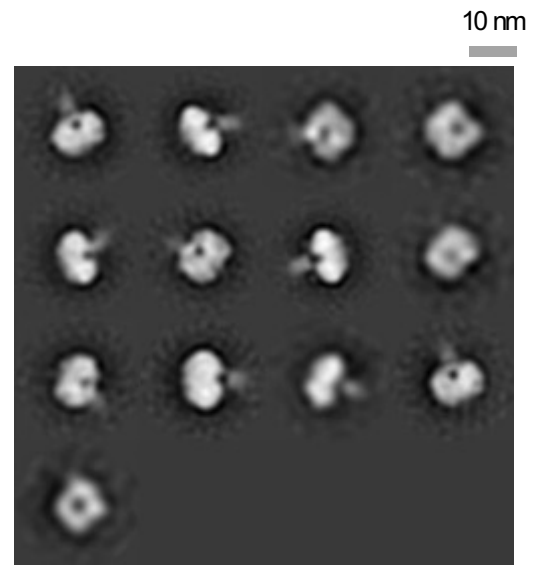
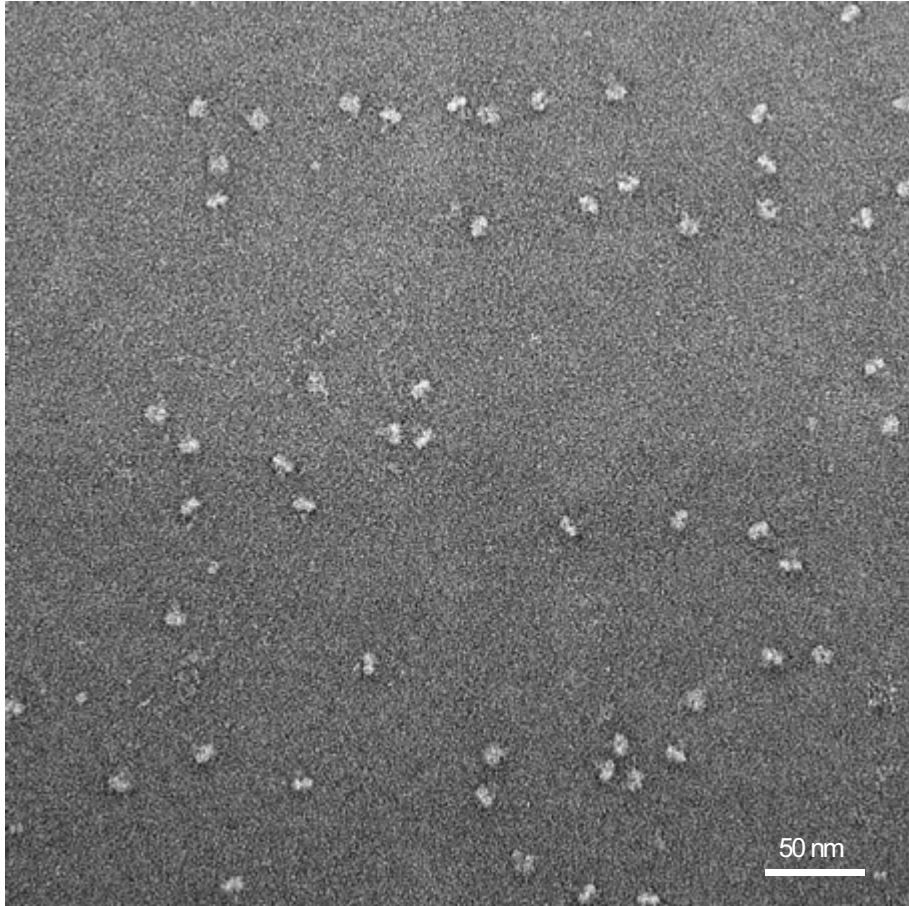


Total particles picked: 6564

Total particles clearly in closed state: 5639

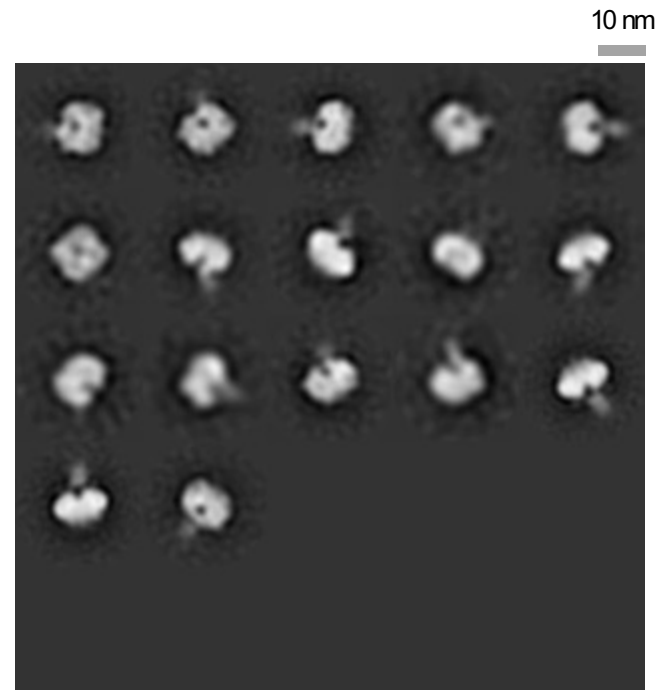
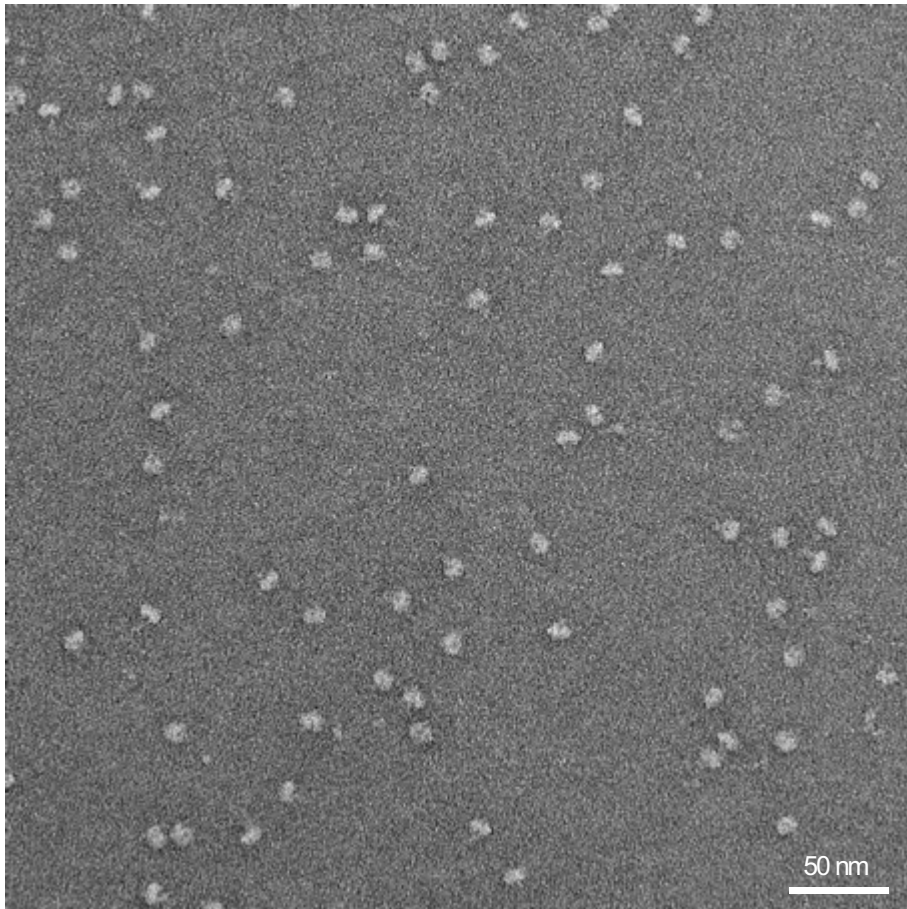
Total particles clearly in open state: 797

N1-MI15-sNAp-165



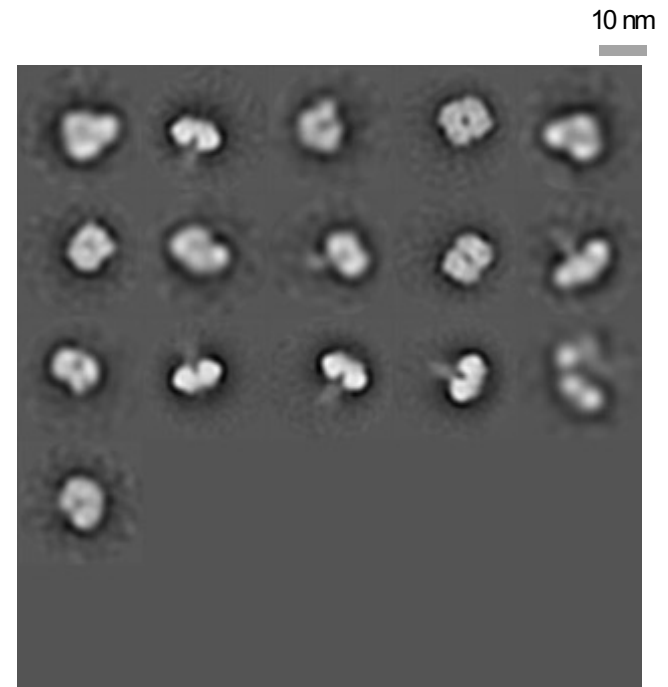
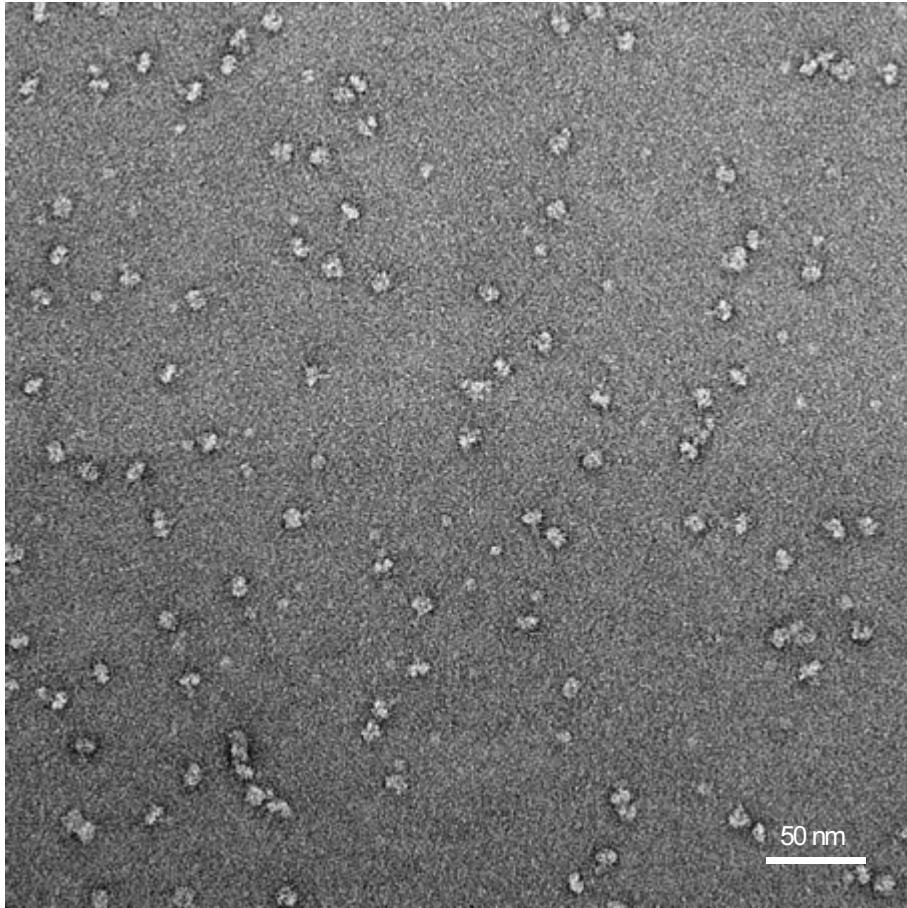
Total particles picked: 4557
Total particles clearly in closed state: 4202
Total particles clearly in open state: 0

N1-MI15-sNAp-176



Total particles picked: 6859
Total particles clearly in closed state: 6507
Total particles clearly in open state: 0

N1-MI15-sNAp-183

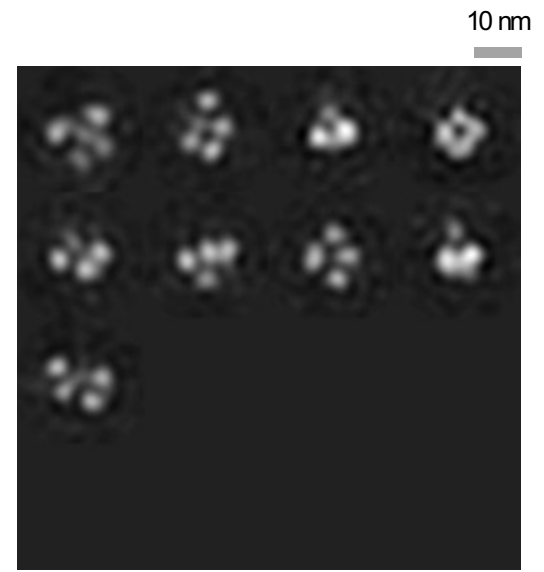
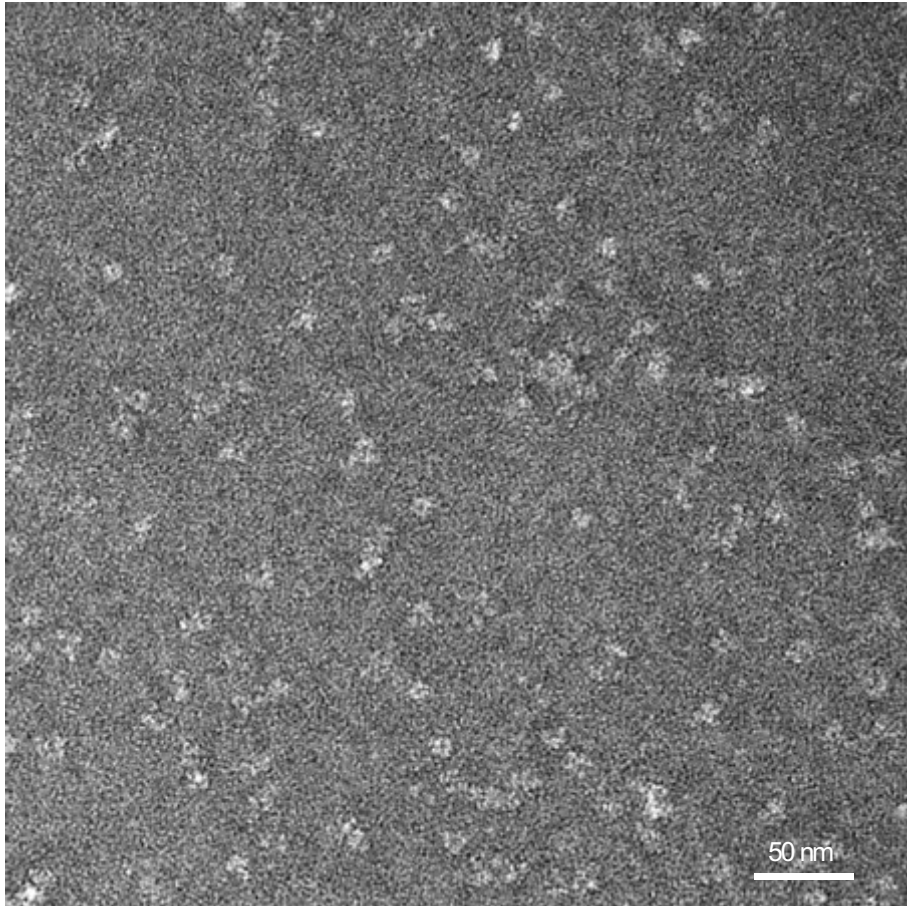


Total particles picked: 7247

Total particles clearly in closed state: 5602

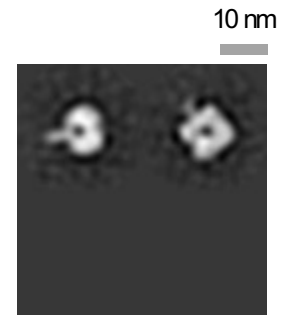
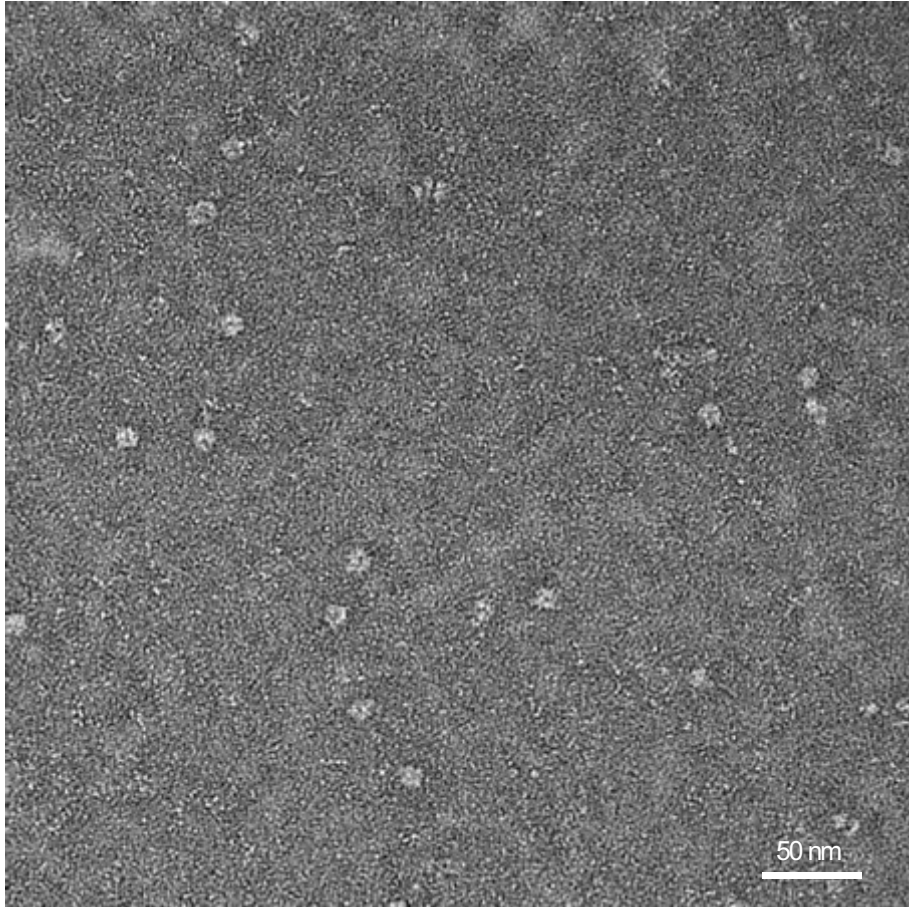
Total particles clearly in open state: 238

N1-VN04-sNAp-155



Total particles picked: 3469
Total particles clearly in closed state: 766
Total particles clearly in open state: 1578

N1-VN04-sNAp-354

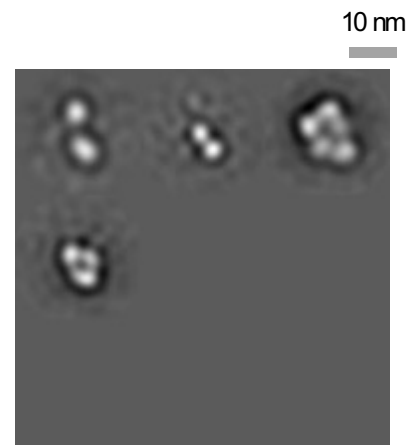
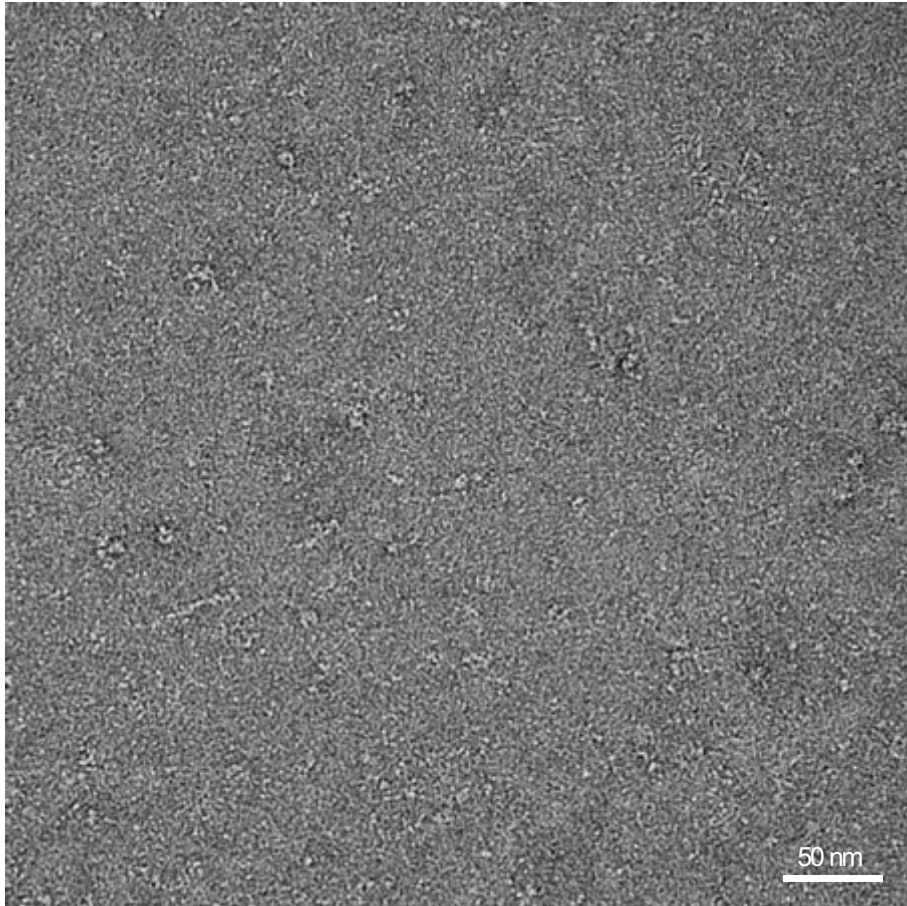


Total particles picked: 2408

Total particles clearly in closed state: 760

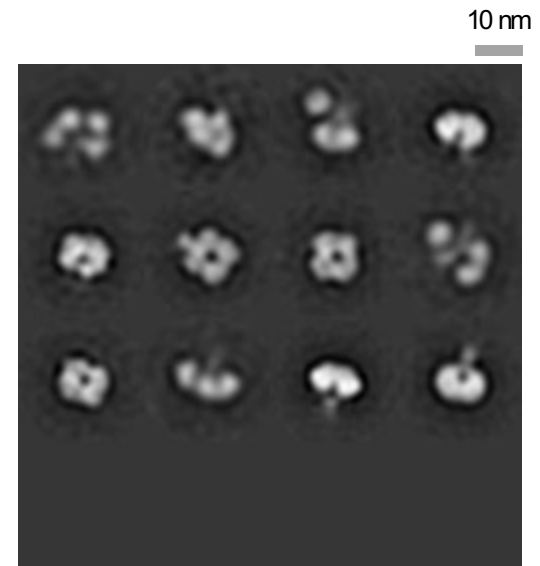
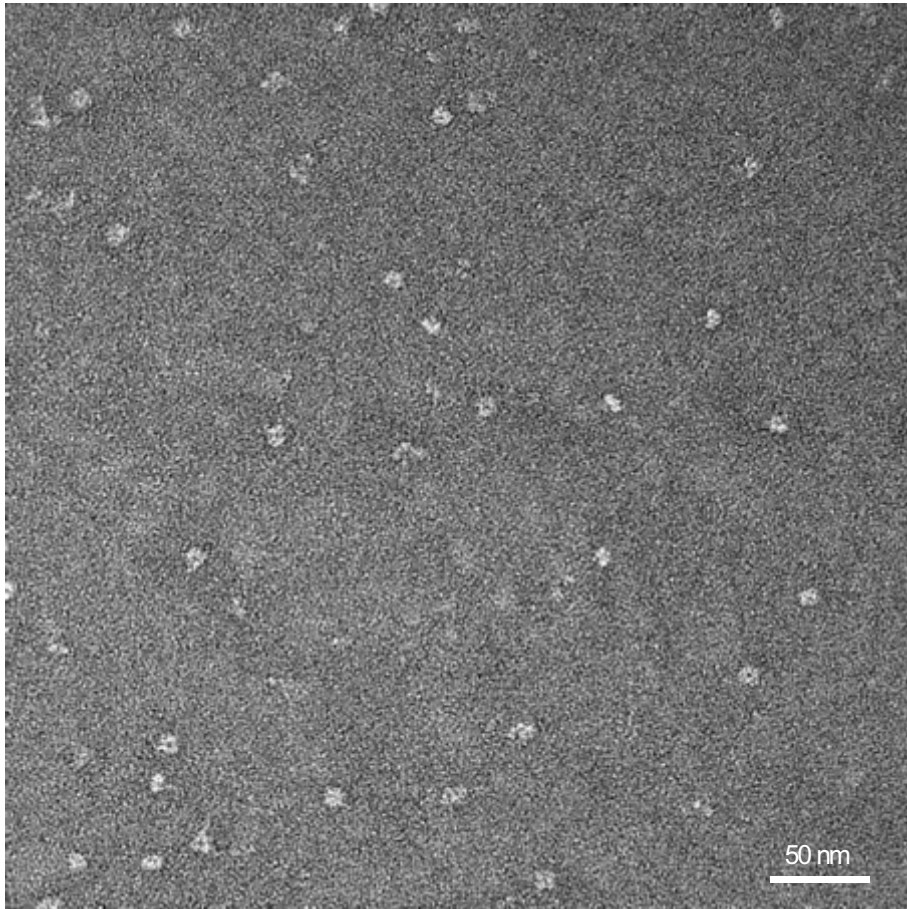
Total particles clearly in open state: 0

N1-WSN33-sNAp-155



Total particles picked: 9809
No clear tetramers observed to quantify

N1-WSN33-sNAp-366

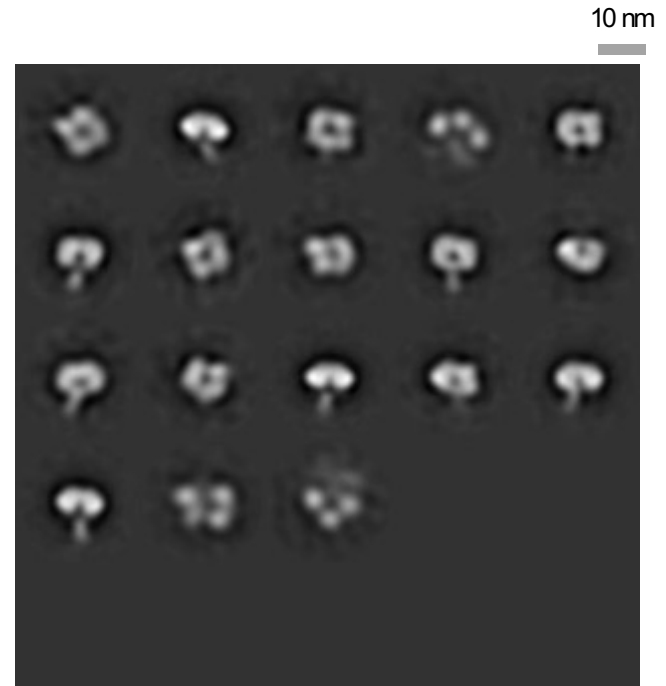
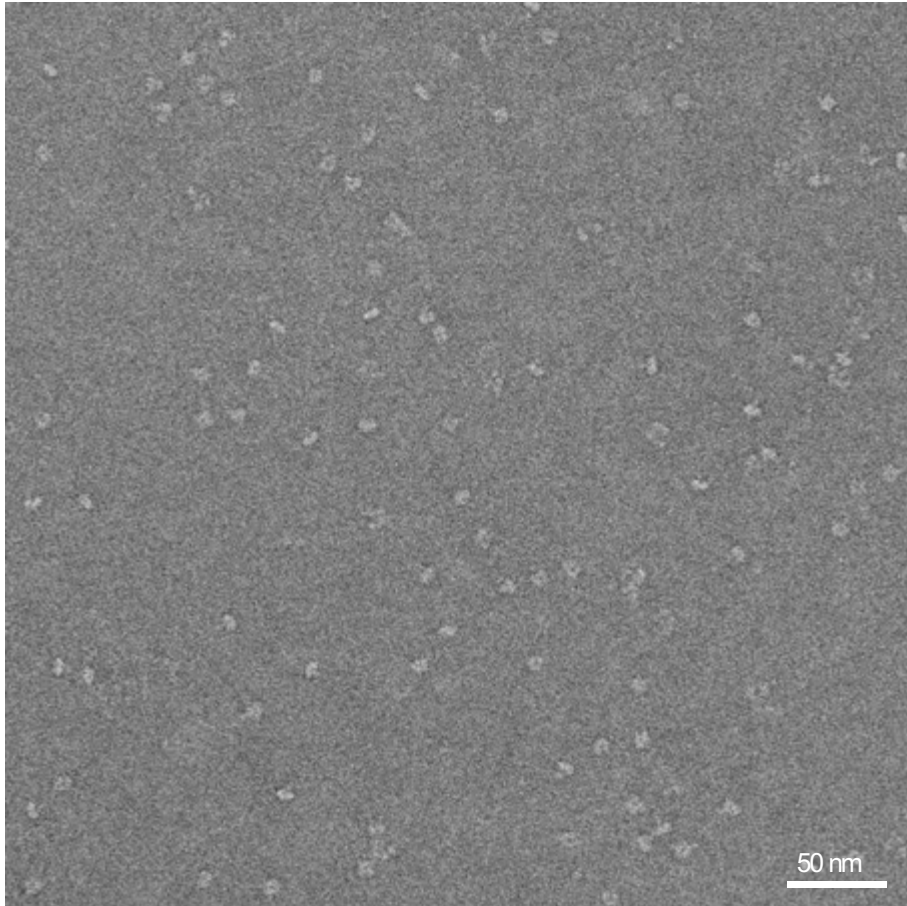


Total particles picked: 5272

Total particles clearly in closed state: 2963

Total particles clearly in open state: 662

N1-WSN33-sNAp-367

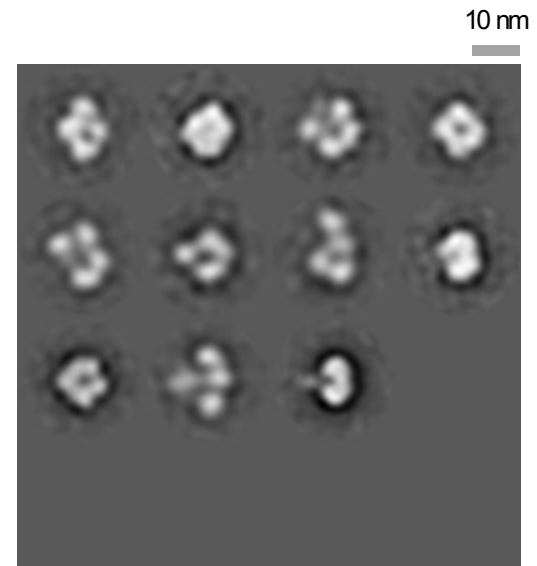
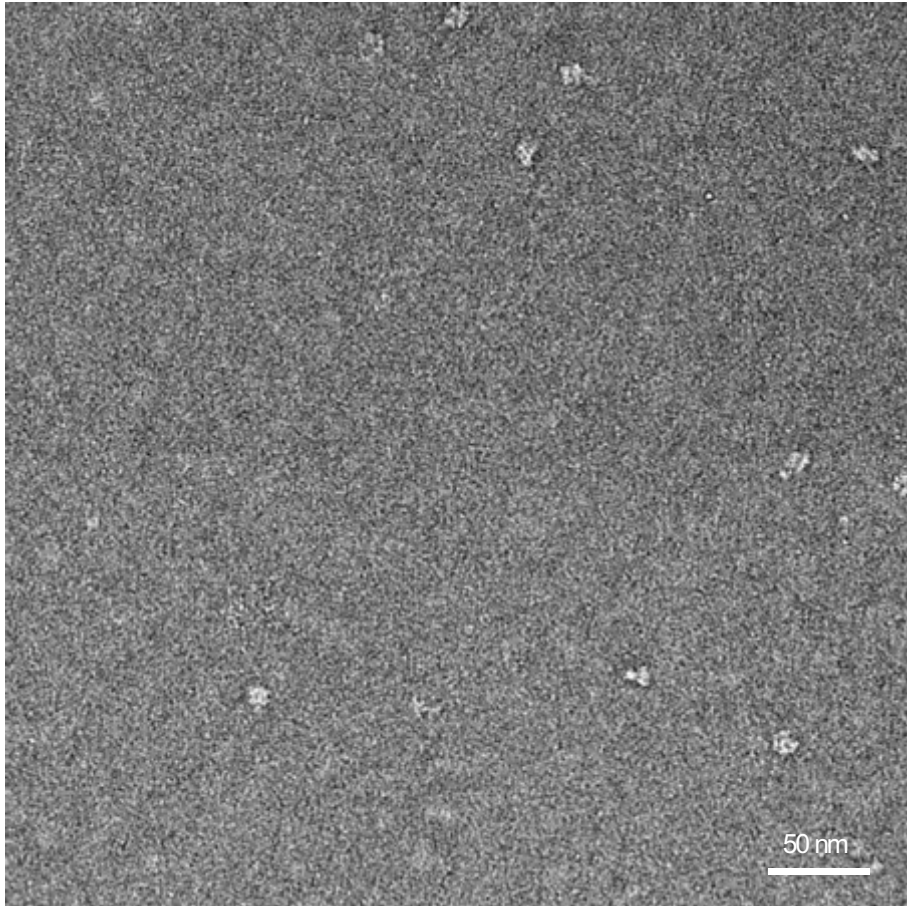


Total particles picked: 16395

Total particles clearly in closed state: 12678

Total particles clearly in open state: 856

N1-WSN33-sNAp-375

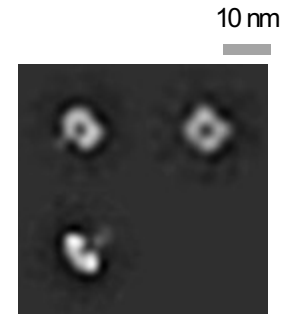
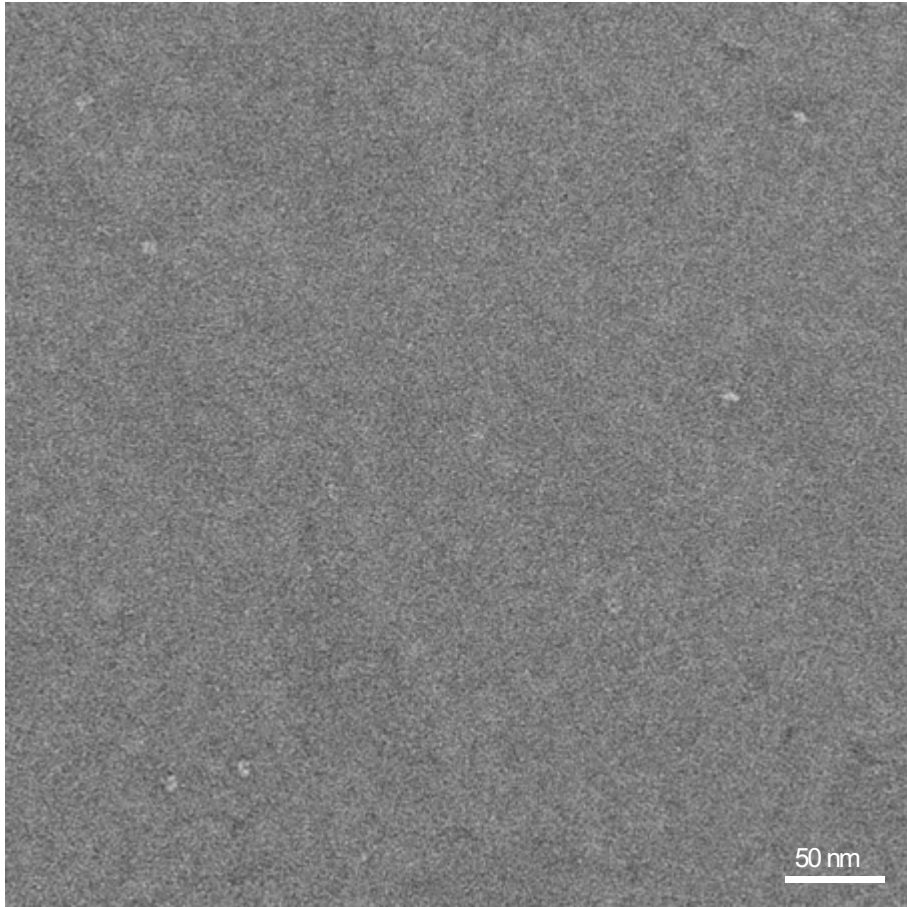


Total particles picked: 1198

Total particles clearly in closed state: 453

Total particles clearly in open state: 374

N1-WSN33-sNAp-378

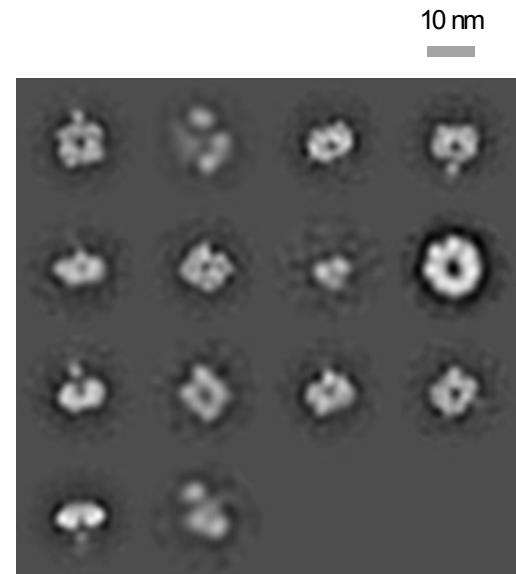
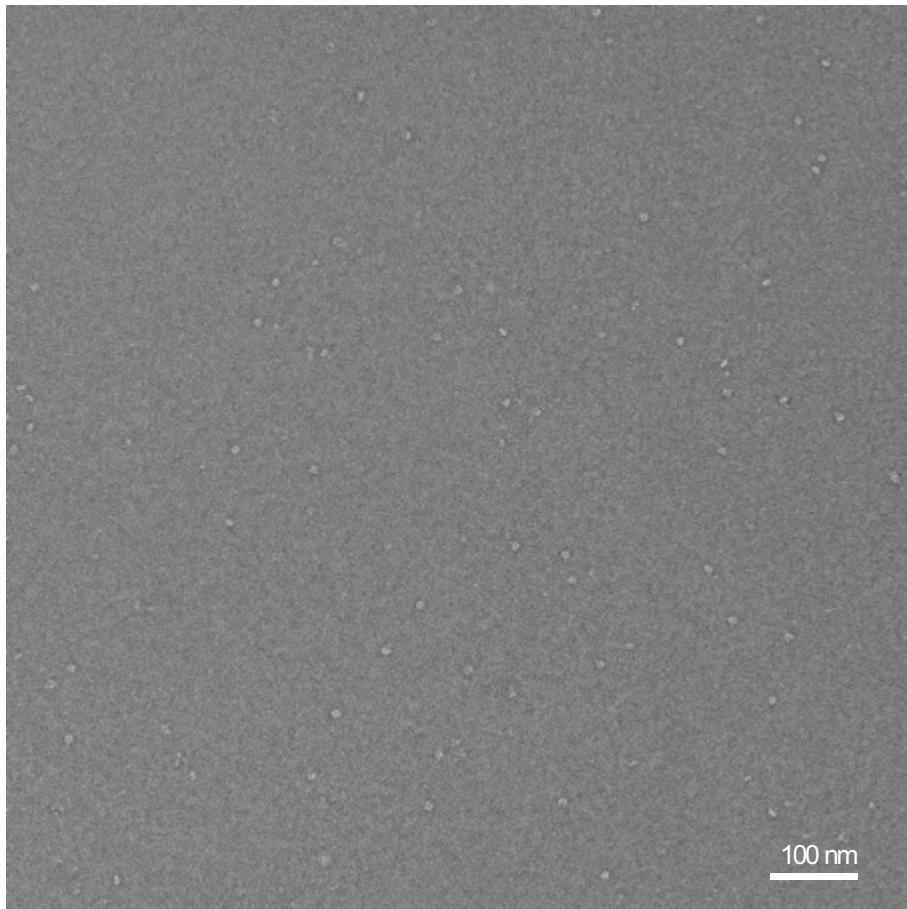


Total particles picked: 4065

Total particles clearly in closed state: 1213

Total particles clearly in open state: 0

N1-CA09-sNAp-155-T466A



Total particles picked: 4544

Total particles clearly in closed state: 2339

Total particles clearly in open state: 390