AtREM1.1

Sequence: MTLEEQKKVIMPEAVASEPSPPSKEEKSDDSKAIVLVVAAKEPTEDKKVGSVHRDAVLVRLEQDKRISLIKAWEEAEKSKVENKAQKKISSVGAWENSKKASVEAELKKIEEQLNKKKAHYTEQMKNKIAQIHKEAEEKRAMTEAKRGEDVLKAEEMAAKYRATGTAPTKLFGFF

Coiled Coil

Registers

CC probability

20   40   60   80   100   120   140   160

AtREM1.2

Sequence: MAEEQKIALESESPAKVTTPAPADTPAPAPAEIPAPAPAPTPADVTKDVAEEKIQNPPPEQIFDDSKALTVVEKPVEEPAPAKPASASLDRDVKLADLSKEKRLSFVRAWEESEKSKAENKAEKKIADVHAWENSKKAAVEAQLKKIEEQLEKKKAEYAERMKNKVAAIHKEAEERRAMIEAKRGEDVLKAEETAAKYRATGIVPKATCGCF

Coiled Coil

Registers

CC probability

20   40   60   80   100   120   140   160   180   200

AtREM1.3

Sequence: MAEEQKTSKVDVESPAVLAPAKEPTPAPVEVADEKIHNPPPVESKALAVVEKPIEEHTPKKASSGSADRDVILADLEKEKKTSFIKAWEESEKSKAENRAQKKISDVHAWENSKKAAVEAQLRKIEEKLEKKKAQYGEKMKNKVAAIHKLAEEKRAMVEAKKGEELLKAEEMGAKYRATGVVPKATCGCF

Coiled Coil

Registers

CC probability

20   40   60   80   100   120   140   160   180

AtREM1.4

Sequence: MAEEEPKKVTETVSEPTPTPEVPVEKPAAAADVAPQEKPVAPPPVLPSPAPAEEKQEDSKAIVPVVPKEVEEEKKEGSVNRDAVLARVETEKRMSLIKAWEEAEKCKVENKAEKKLSSIGSWENNKKAAVEAELKKMEEQLEKKKAEYVEQMKNKIAQIHKEAEEKRAMIEAKRGEEILKAEELAAKYRATGTAPKKLFGCM

Coiled Coil

Registers

CC probability

20   40   60   80   100   120   140   160   180   200

AtREM1.5

Sequence: MHMGQNKPVQKKSPLYEESTIIFASSQNEKLVEIEKEKRLALIDAWEENEKAKAQTKAYKELCSIESWENNMKTALELDLKKMEENLQVEKTEFSKKFKKKIPEIEKIAEAKREKIEKQKEQESIKVEKISEKLIATPNAYPPNTKTCGCFAEELAAKYRATGTAPKKLFGCM

Coiled Coil

Registers

CC probability

20   40   60   80   100   120   140   160

AtREM3.1

Sequence: MNESTVQRAKPEHMAAVVDQWKETEISKSRKKYEKLSEKIVSWEDKKRKKAKRKLHRTERSVEKTKLKATQRFRDENERIEIIVASARAHAYESRIKEELKVKEKANLMRTTGRKPSTCLAEELAAKYRATGTAPKKLFGCM

Coiled Coil

Registers

CC probability

20   40   60   80   100   120   140

AtREM3.2

Oligomerization state:
- Parallel dimer
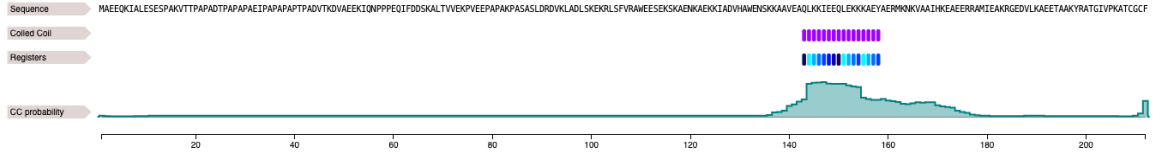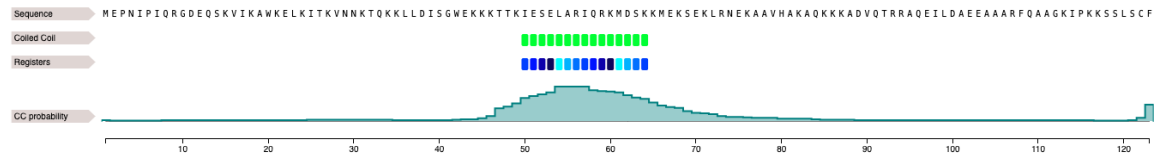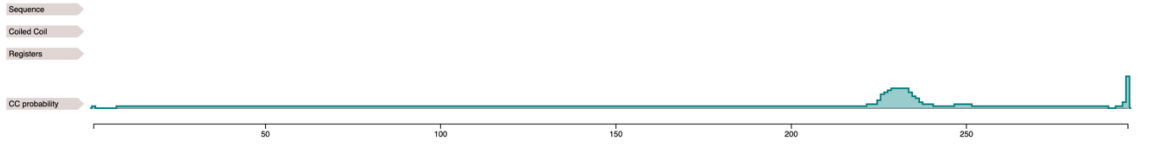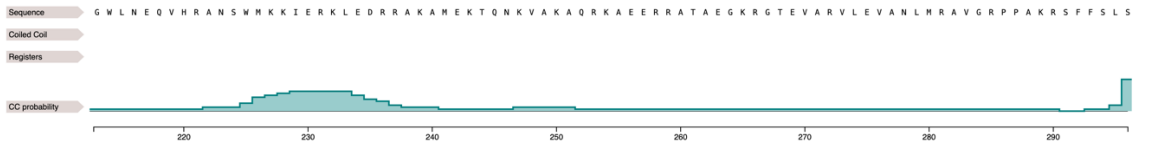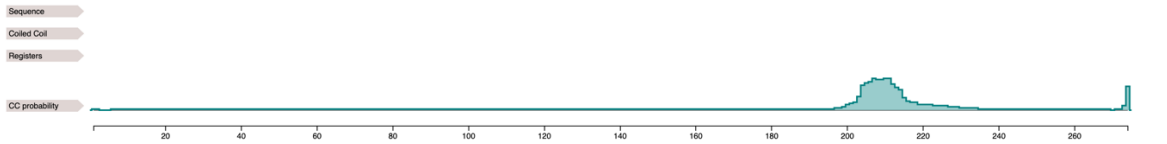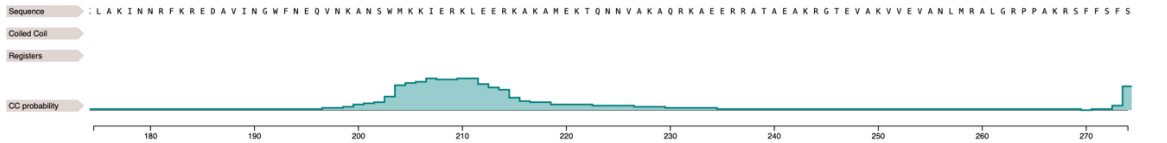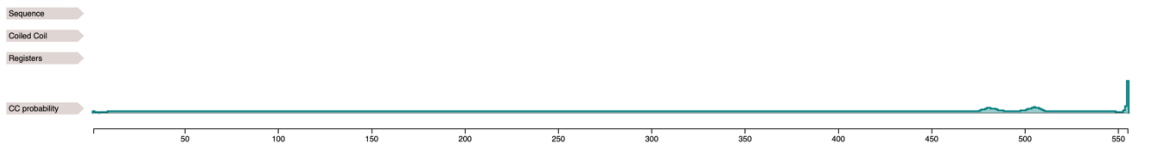- Antiparallel dimer
- Trimer
- Tetramer

Registers:
a b c d e f g H

AtREM4.1

Sequence: MEPNIPIQRGDEQSKVIKAWKELKITKVNNKTQKKLLDISGWEKKKTTKIESELARIQRKMDSKKMEKSEKLRNEKAAVHAKAQKKKADVQTRRAQEILDAEEAAARFQAAGKIPKKSSLSCF
Coiled Coil
Registers
CC probability

AtREM4.1 Zoom

Sequence
Coiled Coil
Registers
CC probability

AtREM4.2

Sequence: GWLNEQVHRANSWMKKIERKLEDRRAKAMEKTQNKVAKAQRKAEERRATAEGKRGTEVARVLEVANLMRAVGRPPAKRSFFSLS
Coiled Coil
Registers
CC probability

AtREM4.2 Zoom

Sequence
Coiled Coil
Registers
CC probability

AtREM5.1

Sequence: LAKINNRFKREDAVINGWFNEQVNKANSWMKKIERKLEERKAKAMEKTQNNVAKAQRKAEERRATAEAKRGTEVAKVVEVANLMRALGRPPAKRSFFSFS
Coiled Coil
Registers
CC probability

AtREM5.1 Zoom

Sequence
Coiled Coil
Registers
CC probability

AtREM6.1

Sequence: SWENLQKAKAEAAIRKLEKYFPQMKLEKKRSSSMEKIMRKVKSAEKRAEEMRRSVLDNRVSTASHGKASSFKRSGKKKIPSLSGCFTCHVF
Coiled Coil
Registers
CC probability

Sequence
Coiled Coil
Registers
CC probability

50 100 150 200 250 300 350 400 450

AtREM6.1 Zoom

Sequence N H Q K A K S E A E M K K T E V K V E R I K G R A Q D R L M K K L A T I E R K A E E K R A A A E A K K D H Q A A K T E K Q A E Q I R R T G K V P S L L F S C F S F C S
Coiled Coil
Registers
CC probability

410 420 430 440 450 460 470 480

AtREM6.2

Sequence
Coiled Coil
Registers
CC probability

50 100 150 200 250 300 350 400 450 500

AtREM 6.2 Zoom

Sequence : R I Q A W E S Q E K A K L E A E M R R I E A K V E Q M K A E A E A K I M K K I A L A K Q R S E E K R A L A E A R K T R D A E K A V A E A Q Y I R E T G R I P A S S Y K I C C G W F S
Coiled Coil
Registers
CC probability

420 430 440 450 460 470 480 490 500

AtREM6.3

Sequence
Coiled Coil
Registers
CC probability

50 100 150 200 250 300 350 400

AtREM6.3 Zoom

Sequence R E E A K I Q A W V N L E N A K A E A Q S R K L E V K I Q K M R S N L E E K L M K R M D M V H R R A E D W R A T A R Q Q H V E Q M Q K A A E T A R K L T N R R G Y L V T G R S S C G C L P C N N T C H
Coiled Coil
Registers
CC probability

350 360 370 380 390 400 410 420 430 440

AtREM6.4

Sequence
Coiled Coil
Registers
CC probability

50 100 150 200 250 300 350 400

AtREM6.4 Zoom

Sequence D I S E P A M T L S K L Q R E E A K I A A W E N L Q K A K A E A A I R K L E V K L E K K K S A S M D K I L N K L Q T A K I K A Q E M R R S S V S S E H E Q Q Q G N H Q I S R N S V K I T H L V R R H T F M T P F M T C F A P R V D C R K S S S A L
Coiled Coil
Registers
CC probability
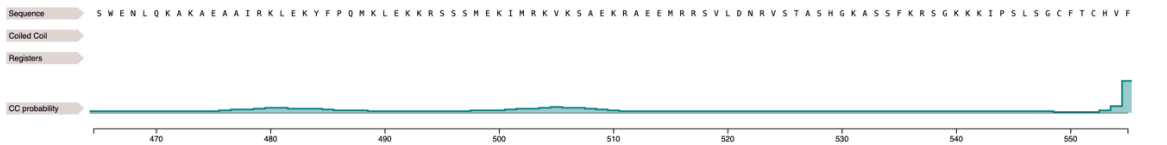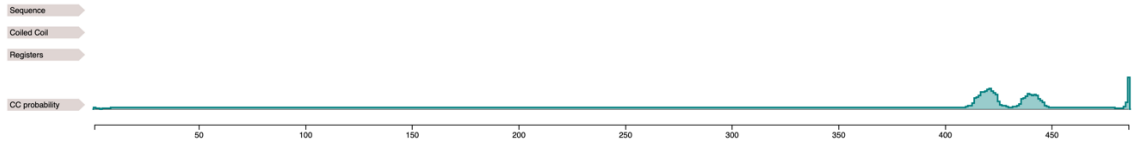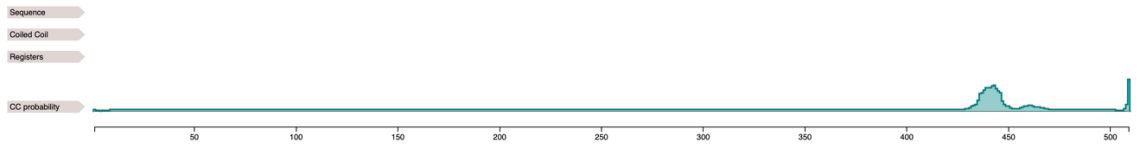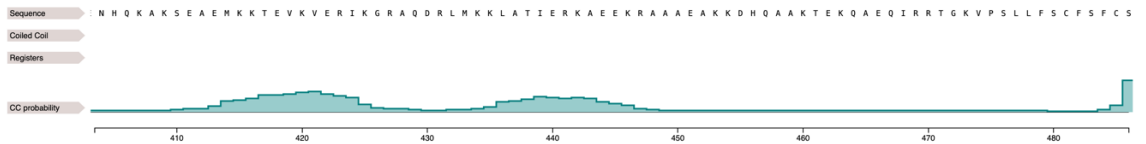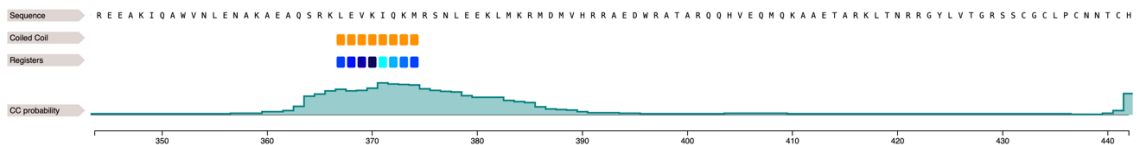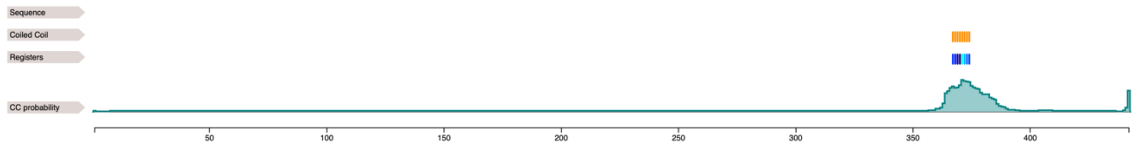
310 320 330 340 350 360 370 380 390 400 410 420

AtREM6.5

Oligomerization state:
- Parallel dimer
- Antiparallel dimer
- Trimer
- Tetramer

Registers:
- a
- b
- c
- d
- e
- f
- g
- H

Sequence
Coiled Coil
Registers
CC probability

50   100   150   200   250   300
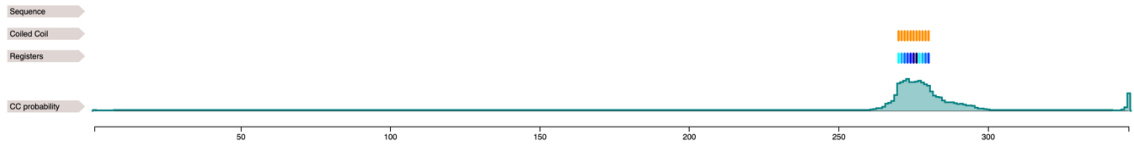
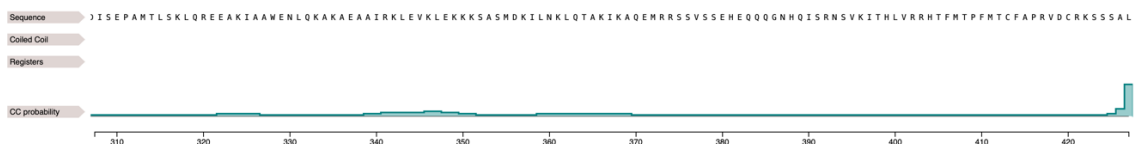**AtREM6.5 Zoom**

Oligomerization state:
- Parallel dimer
- Antiparallel dimer
- Trimer
- Tetramer

Registers:
- a
- b
- c
- d
- e
- f
- g
- H

Sequence   E E V K I Q A W E N H E K R K A E M E M K K M E V K A E R M K A R A E E K L A N K L A A T K R I A E E R R A N A E A K L N E K A V K T S E K A D Y I R R S G H L P S S F S F S F K L P S R C W C Q
Coiled Coil
Registers
CC probability
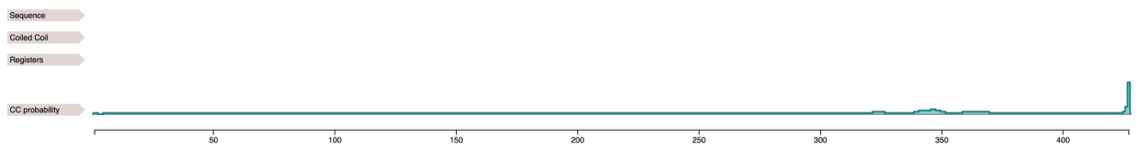
260   270   280   290   300   310   320   330   340
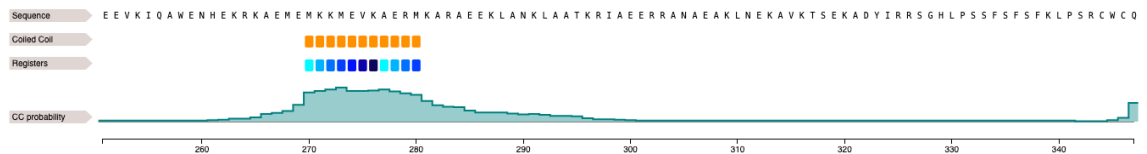
AtREM6.6

Oligomerization state:
- Parallel dimer
- Antiparallel dimer
- Trimer
- Tetramer

Registers:
- a
- b
- c
- d
- e
- f
- g
- H

Sequence
Coiled Coil
Registers
CC probability

50   100   150   200   250   300
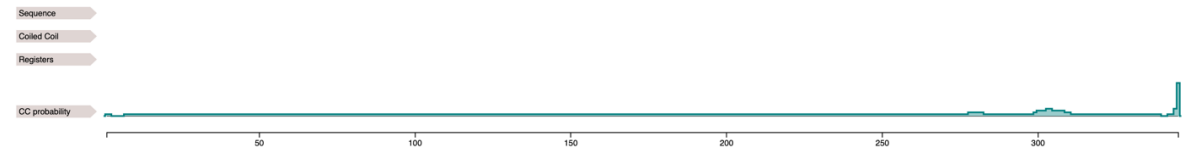
AtREM6.6 Zoom

Oligomerization state:
- Parallel dimer
- Antiparallel dimer
- Trimer
- Tetramer

Registers:
- a
- b
- c
- d
- e
- f
- g
- H

Sequence   A R R K L D I S E Q S E L E Q R R K R G L Q R F R E D T E Y I E Q I A A G A R A Q A E K D R Q S K E F K V K E K A G V I R S T G K L P G N A C C F
Coiled Coil
Registers
CC probability

280   290   300   310   320   330   340
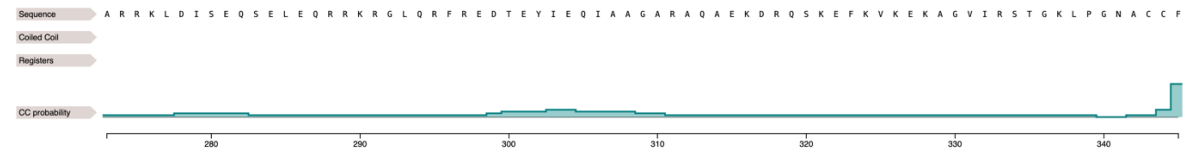
AtREM6.7

Oligomerization state:
- Parallel dimer
- Antiparallel dimer
- Trimer
- Tetramer

Registers:
- a
- b
- c
- d
- e
- f
- g
- H

Sequence   MDNLVKQRRRVSISENIKTDLPMLSELDITDYPALNWLKNQSYWYEKNDYYNEKESELAVSVAVAAFVIRSMEEADKQKSKRIREEIKRSRTKKSNLVIPNTQVKRLSKSYTQEVKIGEESFRKKLLEYPSENRRPQEIGSSSGTSGLASASSKADSWEKSQIKKIRLRYEKMKADIVGWENERKLAATLLMEKRKSELEKRKGINNQHYKSKLARIQLIADGAKKQLEEKRRSKEAQVHGKVKKMSRTGKVPNNYFCFRCY
Coiled Coil
Registers
CC probability

20   40   60   80   100   120   140   160   180   200   220   240   260
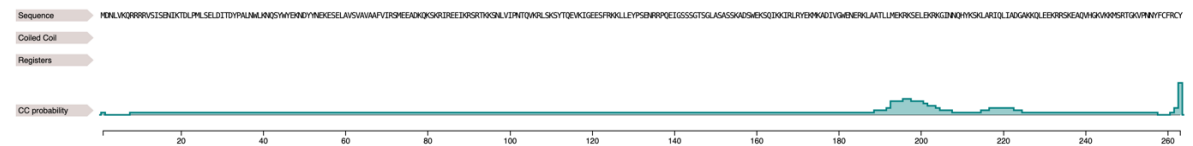
Supplementary Data: Coiled-coil oligomerization predicted by Coconat for the full-length REM proteins of several proteins from all REM groups (1-6). Color coding of the multimeric state and the register of the coiled-coil helical wheel is explained in the panel aside.