Figure S6. Nucleotide sequence of bacterial expression vector pET28a-mCherry-CNA35

```
   1 atgggcagcagccatcatcatcatcatcacagcagcggcctggtgccgcgcggcagccat
      M  G  S  S  H  H  H  H  H  H  S  S  G  L  V  P  R  G  S  H
  61 atggctagcatggtttctaagggcgaagaggacaatatggctatcatcaaagagttcatg
      M  A  S  M  V  S  K  G  E  E  D  N  M  A  I  I  K  E  F  M
 121 cgttttaaagtacacatggaaggctccgttaacggtcacgagtttgaaattgaaggtgag
      R  F  K  V  H  M  E  G  S  V  N  G  H  E  F  E  I  E  G  E
 181 ggcgaaggtcgcccgtacgaaggcactcaaacggcgaagctgaaagtgaccaaaggtggc
      G  E  G  R  P  Y  E  G  T  Q  T  A  K  L  K  V  T  K  G  G
 241 ccactgccgttcgcttgggacattctgtccccgcaattcatgtatggttctaaagcgtac
      P  L  P  F  A  W  D  I  L  S  P  Q  F  M  Y  G  S  K  A  Y
 301 gtgaaacacccggcggatattccggattacctgaaactgtctttcccggaaggtttcaaa
      V  K  H  P  A  D  I  P  D  Y  L  K  L  S  F  P  E  G  F  K
 361 tgggaacgtgttatgaacttcgaagacggtggtgttgtaacggttactcaggactctagc
      W  E  R  V  M  N  F  E  D  G  G  V  V  T  V  T  Q  D  S  S
 421 ctgcaggacggcgaatttatctataaagtaaaactgcgtggtactaacttcccgtctgat
      L  Q  D  G  E  F  I  Y  K  V  K  L  R  G  T  N  F  P  S  D
 481 ggcccggttatgcaaaagaaaactatgggttgggaagcttctagcgaacgcatgtacccg
      G  P  V  M  Q  K  K  T  M  G  W  E  A  S  S  E  R  M  Y  P
 541 gaggacggtgccctgaaaggtgaaatcaaacaacgcctgaaactgaaggacggcggccac
      E  D  G  A  L  K  G  E  I  K  Q  R  L  K  L  K  D  G  G  H
 601 tacgatgcggaagtgaaaaccacgtacaaagcgaagaaaccagtacagctgcctggtgcc
      Y  D  A  E  V  K  T  T  Y  K  A  K  K  P  V  Q  L  P  G  A
 661 tacaatgtgaatatcaaactggatattacctcccataacgaagactataccatcgtcgaa
      Y  N  V  N  I  K  L  D  I  T  S  H  N  E  D  Y  T  I  V  E
 721 cagtatgaacgtgctgaaggtcgccatagcaccggtggcatggatgagttatacaaggaa
      Q  Y  E  R  A  E  G  R  H  S  T  G  G  M  D  E  L  Y  K  E
 781 ttccacggatccgcacgagatatttcatcaacgaatgttacagatttaactgtatcaccg
      F  H  G  S  A  R  D  I  S  S  T  N  V  T  D  L  T  V  S  P
 841 tctaagatagaagatggtggtaaaacgacagtaaaaatgacgttcgacgataaaaatgga
      S  K  I  E  D  G  G  K  T  T  V  K  M  T  F  D  D  K  N  G
 901 aaaatacaaaatggtgacatgattaaagtggcatggccgacaagcggtacagtaaagata
      K  I  Q  N  G  D  M  I  K  V  A  W  P  T  S  G  T  V  K  I
 961 gagggttatagtaaaacagtaccattaactgttaaaggtgaacaggtgggtcaagcagtt
      E  G  Y  S  K  T  V  P  L  T  V  K  G  E  Q  V  G  Q  A  V
1021 attacaccagacggtgcaacaattacattcaatgataaagtagaaaaattaagtgatgtt
      I  T  P  D  G  A  T  I  T  F  N  D  K  V  E  K  L  S  D  V
1081 tcgggatttgcagaatttgaagtacaaggaagaaatttaacgcaaacaaatacttcagat
      S  G  F  A  E  F  E  V  Q  G  R  N  L  T  Q  T  N  T  S  D
1141 gacaaagtagctacgataacatctgggaataaatcaacgaatgttacggttcataaaagt
      D  K  V  A  T  I  T  S  G  N  K  S  T  N  V  T  V  H  K  S
1201 gaagcgggaacaagtagtgttttctattataaaacgggagatatgctaccagaagatacg
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      E  A  G  T  S  S  V  F  Y  Y  K  T  G  D  M  L  P  E  D  T
1261  acacatgtacgatggtttttaaatattaacaatgaaaaaagttatgtatcgaaagatatt
      T  H  V  R  W  F  L  N  I  N  N  E  K  S  Y  V  S  K  D  I
1321  actataaaggatcagattcaaggtggacagcagttagatttaagcacattaaacattaat
      T  I  K  D  Q  I  Q  G  G  Q  Q  L  D  L  S  T  L  N  I  N
1381  gtgacaggtacacatagcaattattatagtggacaaagtgcaattactgattttgaaaaa
      V  T  G  T  H  S  N  Y  Y  S  G  Q  S  A  I  T  D  F  E  K
1441  gcctttccaggttctaaaataactgttgataatacgaagaacacaattgatgtaacaatt
      A  F  P  G  S  K  I  T  V  D  N  T  K  N  T  I  D  V  T  I
1501  ccacaaggctatgggtcatataatagtttttcaattaactacaaaaccaaaattacgaat
      P  Q  G  Y  G  S  Y  N  S  F  S  I  N  Y  K  T  K  I  T  N
1561  gaacagcaaaaagagtttgttaataattcacaagcttggtatcaagagcatggtaaggaa
      E  Q  Q  K  E  F  V  N  N  S  Q  A  W  Y  Q  E  H  G  K  E
1621  gaagtgaacgggaaatcatttaatcatactgtgcacaatattaatgctaatgccggtatt
      E  V  N  G  K  S  F  N  H  T  V  H  N  I  N  A  N  A  G  I
1681  gaaggtactgtaaaaggtgaattaaaagttttaaaacaggataaagataccaaggcttca
      E  G  T  V  K  G  E  L  K  V  L  K  Q  D  K  D  T  K  A  S
1741  gacgtcctgtaaggcattgctcgag
      D  V  L  -
```