```
                                 (.((((((..((((.........)))).((((((....).)))))).....(((((.....
chr-9.trna106-Trp-CCA    G-CGCUCUUAGUUCAGUUCGAUAGAACGUGGGUUUCCAAAACCCGAUGUCCUAGGUUCAA 59
chr-13.trna192-Trp-CCA   A-CCCUCUUAAUUCAGUUCGGUAGGAUGUGGGUCUCCAAAACCCAAUGUCAUAGUUUCAA 59
chr-14.trna214-Trp-CCA   G-CAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-2.trna187-Trp-CCA    G-UAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-12.trna206-Trp-CCA   G-UAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-4.trna220-Trp-CCA    G-GAUCUGUGGCGCAAU--GGUAGCGCGUUUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-4.trna222-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUGUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-10.trna108-Trp-CCA   G-GAUUCGUGGCGUAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-11.trna138-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUUACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-5.trna162-Trp-CCA    G-GAUCUGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-3.trna103-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-3.trna104-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUACGUGUUCGA 57
chr-4.trna248-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-6.trna88-Trp-CCA     G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-2.trna41-Trp-CCA     G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-2.trna50-Trp-CCA     G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-15.trna19-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-2.trna188-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-14.trna176-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-14.trna175-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-3.trna78-Trp-CCA     G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-14.trna131-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-3.trna79-Trp-CCA     G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-14.trna125-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-14.trna14-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-3.trna98-Trp-CCA     G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-3.trna99-Trp-CCA     G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-3.trna101-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-3.trna102-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-15.trna172-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-12.trna205-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-4.trna199-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-12.trna203-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-12.trna202-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-4.trna200-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-11.trna211-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-11.trna179-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-11.trna174-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-4.trna218-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-11.trna130-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-4.trna219-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-11.trna71-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-2.trna5-Trp-CCA      G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-10.trna18-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-4.trna221-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-15.trna173-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-10.trna14-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-4.trna223-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-8.trna233-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-8.trna232-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-8.trna230-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-8.trna229-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-8.trna211-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-8.trna210-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-8.trna209-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-8.trna208-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-8.trna202-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-8.trna168-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-4.trna247-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-15.trna74-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-5.trna3-Trp-CCA      G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-5.trna5-Trp-CCA      G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-5.trna9-Trp-CCA      G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-15.trna55-Trp-CCA    G-GAUCUGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-12.trna204-Trp-CCA   G-GAUCUGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-5.trna161-Trp-CCA    G-GAUCUGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-14.trna130-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-12.trna208-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-3.trna100-Trp-CCA    G-GAUCUGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-12.trna207-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAAAGGUUGCGUGUUCGA 57
chr-14.trna132-Trp-CCA   G-GAUCCGUGGCGCAAU--GGUAGCGCGACUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-15.trna66-Trp-CCA    G-GAUCCGUGGCCCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-5.trna160-Trp-CCA    G-GAUCUGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAUAUGGUUGCGUGUUCGA 57
chr-10.trna16-Trp-CCA    G-GAUCCGUGGCGCAAU--GGUAGCUCGUCUGACUCCAGAUCAGAAGGUUGCGUUUUCGA 57
chr-5.trna2-Trp-CCA      G-GAUCCGUGGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGGGUUCGA 57
chr-10.trna15-Trp-CCA    U-AAUCCGUGGCGCAAU--GGUAGCGCGUCGGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-11.trna104-Trp-CCA   G-GAUCCAUGGAGCAAA--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 57
chr-13.trna65-Trp-CCA    G------GUAGCGCAAU--GGUAGCGCGUCUGACUCCAGAUCAGAAGGUUGCGUGUUCGA 52
chr-12.trna105-Trp-CCA   UCUUAGUUCAGUUC-----GGUAGAACGUAGGUUUCCAAAUCC-AAUGUCGUAGGUUCAA 54
                                 .........10........20........30........40........50.........

                                 ......)))))))..)))..).
chr-9.trna106-Trp-CCA    A----UCCUACAGA--CAGACU 75
chr-13.trna192-Trp-CCA   A----UCCUACAAA--GCGA-A 74
chr-14.trna214-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-2.trna187-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-12.trna206-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-4.trna220-Trp-CCA    U----UCACGUCAG--GUU-CA 72
chr-4.trna222-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-10.trna108-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-11.trna138-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-5.trna162-Trp-CCA    U----UCACAUCAG--GUU-CA 72
chr-3.trna103-Trp-CCA    U----UCACGUUGG--GUU-CA 72
chr-3.trna104-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-4.trna248-Trp-CCA    U----UCACGUUGG--GUU-CA 72
chr-6.trna88-Trp-CCA     U----UCACGUUGG--GUU-CA 72
chr-2.trna41-Trp-CCA     U----UCACGUCGG--GUU-CA 72
chr-2.trna50-Trp-CCA     U----UCACGUCGG--GUU-CA 72
chr-15.trna19-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-2.trna188-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-14.trna176-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-14.trna175-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-3.trna78-Trp-CCA     U----UCACGUCGG--GUU-CA 72
chr-14.trna131-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-3.trna79-Trp-CCA     U----UCACGUCGG--GUU-CA 72
chr-14.trna125-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-14.trna14-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-3.trna98-Trp-CCA     U----UCACGUCGG--GUU-CA 72
chr-3.trna99-Trp-CCA     U----UCACGUCGG--GUU-CA 72
chr-3.trna101-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-3.trna102-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-15.trna172-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-12.trna205-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-4.trna199-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-12.trna203-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-12.trna202-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-4.trna200-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-11.trna211-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-11.trna179-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-11.trna174-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-4.trna218-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-11.trna130-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-4.trna219-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-11.trna71-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-2.trna5-Trp-CCA      U----UCACGUCGG--GUU-CA 72
chr-10.trna18-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-4.trna221-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-15.trna173-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-10.trna14-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-4.trna223-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-8.trna233-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-8.trna232-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-8.trna230-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-8.trna229-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-8.trna211-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-8.trna210-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-8.trna209-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-8.trna208-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-8.trna202-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-8.trna168-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-4.trna247-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-15.trna74-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-5.trna3-Trp-CCA      U----UCACGUCGG--GUU-CA 72
chr-5.trna5-Trp-CCA      U----UCACGUCGG--GUU-CA 72
chr-5.trna9-Trp-CCA      U----UCACGUCGG--GUU-CA 72
chr-15.trna55-Trp-CCA    U----UCACGUCAG--GUU-CA 72
chr-12.trna204-Trp-CCA   U----UCACGUCAG--GUU-CA 72
chr-5.trna161-Trp-CCA    U----UCACGUCAG--GUU-CA 72
chr-14.trna130-Trp-CCA   U----UCACGUCGG--GUU-UA 72
chr-12.trna208-Trp-CCA   U----UCAUGUCGG--GUU-CA 72
chr-3.trna100-Trp-CCA    U----UCAUGUCAG--GUU-CA 72
chr-12.trna207-Trp-CCA   U----UCAUGUCGG--GUU-CA 72
chr-14.trna132-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-15.trna66-Trp-CCA    C----UCACGUCGG--GUU-CA 72
chr-5.trna160-Trp-CCA    U----UCACGUCAG--GUU-CA 72
chr-10.trna16-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-5.trna2-Trp-CCA      U----UCACGUCGG--GUU-CA 72
chr-10.trna15-Trp-CCA    U----UCACGUCGG--GUU-CA 72
chr-11.trna104-Trp-CCA   U----UCACGUCGG--GUU-CA 72
chr-13.trna65-Trp-CCA    U----UCACGUCGG--GUU-CA 67
chr-12.trna105-Trp-CCA   GGAAACUGCAUGACCAGAAGAA 76
                                 .........70........80.
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