```
                          (((((((.................(((((((((.......)))))))...)))(((((.....
chr-3.trna49-Pro-CGG      -GGUGGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGACAGGUUGUGAUUUCGA 56
chr-2.trna46-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-17.trna21-Pro-AGG     GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-18.trna14-Pro-AGG     GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-17.trna31-Pro-AGG     GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-5.trna19-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-18.trna38-Pro-AGG     GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-5.trna64-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-5.trna69-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-9.trna23-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-9.trna14-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-6.trna36-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-8.trna57-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-6.trna38-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-7.trna1-Pro-AGG       GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-6.trna77-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-7.trna63-Pro-AGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-3.trna74-Pro-TGG      GGGCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-9.trna2-Pro-TGG       GGGCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-9.trna26-Pro-TGG      GGGCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-10.trna5-Pro-TGG      GGGCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-14.trna33-Pro-TGG     GGGCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-2.trna22-Pro-TGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-3.trna14-Pro-TGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-1.trna81-Pro-TGG      GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-18.trna36-Pro-TGG     GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-17.trna12-Pro-TGG     GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-12.trna27-Pro-TGG     GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-3.trna51-Pro-CGG      GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-4.trna2-Pro-CGG       GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-18.trna31-Pro-CGG     GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-4.trna66-Pro-CGG      GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-4.trna68-Pro-CGG      GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-14.trna30-Pro-CGG     GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-16.trna28-Pro-CGG     GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-17.trna2-Pro-CGG      GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-12.trna36-Pro-AGG     GGGCAUUUGGUAUAG--UGGU-AUGAUUUUCGCUUAGGAUGCGAGAGGUCCCGAGUUCAA 57
chr-10.trna29-Pro-AGG     AGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGAUCCCGAGUUCAA 57
chr-10.trna26-Pro-AGG     GGACAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-6.trna23-Pro-CGG      GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGUGAAUUCGA 57
chr-17.trna16-Pro-AGG     GGGGAUUUAGUCUAG--UGGU-AAGAUGUACGCUUAGGGAGCGUAAGGUCCCGAGUUCAA 57
chr-17.trna15-Pro-AGG     GGGGAUUUAGUCUAG--UGGU-AAGAUGUACGCUUAGGGAGCGUAAGGUCCCGAGUUCAA 57
chr-17.trna14-Pro-AGG     GGGGAUUUAGUCUAG--UGGU-AAGAUGUACGCUUAGGGAGCGUAAGGUCCCGAGUUCAA 57
chr-5.trna74-Pro-AGG      GGGCAUUUAGUCUGG--UGGU-AUGAUUCUCUCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-4.trna57-Pro-TGG      GGGCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGACUUCGA 57
chr-6.trna55-Pro-GGG      GUGCAUUUGGUCUAG--UGGU-AUGAUUCUCGAUUGGGGUGCGAGAGGUCCGGAGUUCAA 57
chr-18.trna32-Pro-CGG     -GGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGAUCGA 56
chr-3.trna34-Pro-TGG      AGGGAUGUAGCGCAGCUUGGU-AGCGCGUUUGUUUUGGGUACAAAAUGUCACGGGUUCAA 59
chr-10.trna36-Pro-TGG     AGGGAUGUAGCGCAGCUUGGU-AGCGCGUUUGUUUUGGGUACAAAAUGUCACGGGUUCAA 59
chr-17.trna4-Pro-TGG      AGGGAUGUAGCGCAGCUUGGU-AGCGCGUUUGUUUUGGGUACAAAAUGUCACGGGUUCAA 59
chr-18.trna15-Pro-TGG     AGGGAUGUAGUGCAGCUUGGU-AGCGCGUUUGUUUUGGGUACAAAAUGUCACAGGUUCAA 59
chr-2.trna86-Pro-TGG      CGAGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUCGA 60
chr-16.trna57-Pro-TGG     CGAGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUCGA 60
chr-9.trna34-Pro-CGG      ----GUUUGGUUUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 53
                          .........10........20........30........40........50.........
                          ..))))))))))))..
chr-3.trna49-Pro-CGG      UUCUCGCAACACCCCA 72
chr-2.trna46-Pro-AGG      UUCUCGGAAUGCCCC- 72
chr-17.trna21-Pro-AGG     UUCUCGGAAUGCCCC- 72
chr-18.trna14-Pro-AGG     UUCUCGGAAUGCCCC- 72
chr-17.trna31-Pro-AGG     UUCUCGGAAUGCCCC- 72
chr-5.trna19-Pro-AGG      UUCUCGGAAUGCCCC- 72
chr-18.trna38-Pro-AGG     UUCUCGGAAUGCCCC- 72
chr-5.trna64-Pro-AGG      UUCUCGGAAUGCCCC- 72
chr-5.trna69-Pro-AGG      UUCUCGGAAUGCCCC- 72
chr-9.trna23-Pro-AGG      UUCUCGGAAUGCCCC- 72
chr-9.trna14-Pro-AGG      UUCUCGGAAUGCCCC- 72
chr-6.trna36-Pro-AGG      UUCUCGGAAUGCCCC- 72
chr-8.trna57-Pro-AGG      UUCUCGGAAUGCCCC- 72
chr-6.trna38-Pro-AGG      UUCUCGGAAUGCCCC- 72
chr-7.trna1-Pro-AGG       UUCUCGGAAUGCCCC- 72
chr-6.trna77-Pro-AGG      UUCUCGGAAUGCCCC- 72
chr-7.trna63-Pro-AGG      UUUUCGGAAUGCCCC- 72
chr-3.trna74-Pro-TGG      UUCUCGCAACGCCCC- 72
chr-9.trna2-Pro-TGG       UUCUCGCAACGCCCC- 72
chr-9.trna26-Pro-TGG      UUCUCGCAACGCCCC- 72
chr-10.trna5-Pro-TGG      UUCUCGCAACGCCCC- 72
chr-14.trna33-Pro-TGG     UUCUCGCAACGCCCC- 72
chr-2.trna22-Pro-TGG      UUCUCGGAAUGCCCC- 72
chr-3.trna14-Pro-TGG      UUCUCGGAAUGCCCC- 72
chr-1.trna81-Pro-TGG      UUCUCGGAAUGCCCC- 72
chr-18.trna36-Pro-TGG     UUCUCGGAAUGCCCC- 72
chr-17.trna12-Pro-TGG     UUCUCGGAAUGCCCC- 72
chr-12.trna27-Pro-TGG     UUCUCGGAAUGCCCC- 72
chr-3.trna51-Pro-CGG      UUCUCGCAACACCCC- 72
chr-4.trna2-Pro-CGG       UUCUCGCAACACCCC- 72
chr-18.trna31-Pro-CGG     UUCUCGCAACACCCC- 72
chr-4.trna66-Pro-CGG      UUCUCGCAACACCCC- 72
chr-4.trna68-Pro-CGG      UUCUCGCAACACCCC- 72
chr-14.trna30-Pro-CGG     UUCUCGCAACACCCC- 72
chr-16.trna28-Pro-CGG     UUCUCGCAACACCCC- 72
chr-17.trna2-Pro-CGG      UUCUCGCAACACCCC- 72
chr-12.trna36-Pro-AGG     UUCUCGGAAUGCCCC- 72
chr-10.trna29-Pro-AGG     UUCUCGAAAUACCCC- 72
chr-10.trna26-Pro-AGG     UUCUCGGAAUGCCCC- 72
chr-6.trna23-Pro-CGG      UUCUCGCAACACCCC- 72
chr-17.trna16-Pro-AGG     UUCUCGGAAUCCCCA- 72
chr-17.trna15-Pro-AGG     UUCUCGGAAUCCCCA- 72
chr-17.trna14-Pro-AGG     UUCUCGGAAUCCCCA- 72
chr-5.trna74-Pro-AGG      UUCUCAGAAUGCCCC- 72
chr-4.trna57-Pro-TGG      UUCUCUCAACGGCCC- 72
chr-6.trna55-Pro-GGG      UUCUCGGAAUGCCCC- 72
chr-18.trna32-Pro-CGG     UUCUUUU-AUAUUCCU 71
chr-3.trna34-Pro-TGG      AUCCUGUCAUCCCUA- 74
chr-10.trna36-Pro-TGG     AUCCUGUCAUCCCUA- 74
chr-17.trna4-Pro-TGG      AUCCUGUCAUCCCUA- 74
chr-18.trna15-Pro-TGG     AUCCUGUCAUCCCUA- 74
chr-2.trna86-Pro-TGG      AUCCUGUCACCUUGA- 75
chr-16.trna57-Pro-TGG     AUCCUGUCACCUUGA- 75
chr-9.trna34-Pro-CGG      UUCUCGCAACA----- 64
                          .........70.....
```