```
                        (((((((..(((((...))).))(((((((((.......)))))))).)))(((((.....
chr-17.trna34-Pro-TGG   CGAGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUCGA 60
chr-15.trna27-Pro-TGG   AGGGAUGUAGCGCAGCUUGGU-AGCGUGUUUGUUUUGGGUACAAAAUGUCAUGGGUUCAA 59
chr-10.trna18-Pro-TGG   GGGCAUUUGGUCUGG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-4.trna28-Pro-TGG    GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-4.trna39-Pro-TGG    GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-5.trna1-Pro-TGG     GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-6.trna63-Pro-TGG    GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-20.trna24-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-20.trna23-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-6.trna65-Pro-TGG    GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-7.trna24-Pro-TGG    GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-9.trna44-Pro-TGG    GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-20.trna29-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-19.trna1-Pro-TGG    GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-10.trna16-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-20.trna30-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-10.trna19-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-17.trna53-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-20.trna28-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-20.trna31-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-13.trna69-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-15.trna53-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-14.trna30-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-15.trna11-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAGUUCGA 57
chr-17.trna28-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUUGCUUUGGGUGCAAGAGGUCCCGAGUUCGA 57
chr-3.trna22-Pro-CGG    GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-10.trna11-Pro-CGG   GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-11.trna15-Pro-CGG   GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-20.trna15-Pro-CGG   GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGCGAGUUCGA 57
chr-10.trna21-Pro-TGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCUCGAGUUCGA 57
chr-7.trna13-Pro-AGG    GGGCAUUUGGUCUAG--UGGC-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-13.trna19-Pro-AGG   GGGCAUUUGGUCUAG--UGGC-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-18.trna54-Pro-AGG   GGGCAUUUGGUCUAG--UGGC-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-20.trna25-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-5.trna44-Pro-AGG    GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-13.trna51-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-13.trna31-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-15.trna60-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-12.trna21-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-11.trna35-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-11.trna31-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-15.trna5-Pro-AGG    GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-10.trna50-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-20.trna16-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-2.trna16-Pro-AGG    GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-10.trna20-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-18.trna58-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-18.trna16-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-19.trna16-Pro-CGG   GGGUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUCGGGUGCGAGAGGUCGUGAGUUCGA 57
chr-20.trna26-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 57
chr-20.trna22-Pro-AGG   GAGCAUUUGGUCUAG--UGGU-AUGAUUCUUGCUUAGGGUGUGAGAGGUCCCGAGUUCAA 57
chr-10.trna22-Pro-AGG   GGGCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUAGGGUGUUAGAGGUCCUGAGUUCAA 57
chr-20.trna27-Pro-AGG   GGGCAUUUAGUCUAG---GGU-AUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGAGUUCAA 56
                        .........10.........20.........30.........40.........50.........

                        ..)))))))))))).
chr-17.trna34-Pro-TGG   AUCCUGUCACCUUGA 75
chr-15.trna27-Pro-TGG   AUCCUGUCAUCCCUA 74
chr-10.trna18-Pro-TGG   UUCUCAGAAUGCCCC 72
chr-4.trna28-Pro-TGG    UUCUCGGAAUGCCCC 72
chr-4.trna39-Pro-TGG    UUCUCGGAAUGCCCC 72
chr-5.trna1-Pro-TGG     UUCUCGGAAUGCCCC 72
chr-6.trna63-Pro-TGG    UUCUCGGAAUGCCCC 72
chr-20.trna24-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-20.trna23-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-6.trna65-Pro-TGG    UUCUCGGAAUGCCCC 72
chr-7.trna24-Pro-TGG    UUCUCGGAAUGCCCC 72
chr-9.trna44-Pro-TGG    UUCUCGGAAUGCCCC 72
chr-20.trna29-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-19.trna1-Pro-TGG    UUCUCGGAAUGCCCC 72
chr-10.trna16-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-20.trna30-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-10.trna19-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-17.trna53-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-20.trna28-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-20.trna31-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-13.trna69-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-15.trna53-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-14.trna30-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-15.trna11-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-17.trna28-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-3.trna22-Pro-CGG    UUCUCGCAACACCCC 72
chr-10.trna11-Pro-CGG   UUCUCGCAACACCCC 72
chr-11.trna15-Pro-CGG   UUCUCGCAACACCCC 72
chr-20.trna15-Pro-CGG   UUCUCGCAACACCCC 72
chr-10.trna21-Pro-TGG   UUCUCGGAAUGCCCC 72
chr-7.trna13-Pro-AGG    UUCUCGGAAUGCCCC 72
chr-13.trna19-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-18.trna54-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-20.trna25-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-5.trna44-Pro-AGG    UUCUCGGAAUGCCCC 72
chr-13.trna51-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-13.trna31-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-15.trna60-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-12.trna21-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-11.trna35-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-11.trna31-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-15.trna5-Pro-AGG    UUCUCGGAAUGCCCC 72
chr-10.trna50-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-20.trna16-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-2.trna16-Pro-AGG    UUCUCGGAAUGCCCC 72
chr-10.trna20-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-18.trna58-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-18.trna16-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-19.trna16-Pro-CGG   UUCUCGCAACACCCC 72
chr-20.trna26-Pro-AGG   UUCUCGGAAUACCCC 72
chr-20.trna22-Pro-AGG   UUCUCGGAAUGCCCC 72
chr-10.trna22-Pro-AGG   UUUUCGAAAUGCCCC 72
chr-20.trna27-Pro-AGG   UUCUCGGAAUUCCCC 71
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