```
                                (((((((..((((.........)))).((((((....).)))))).....(((((.......
chr-22.trna31-Arg-TCT    GCUCCCGGGGCCUGAUGGA-UAAGGCUUCUGACUUCUAAUCAGGGGAUUGUGGGACCGAG 59
chr-2.trna3-Arg-TCT      GCUCCCGUGGCCUAAUGGA-UAAGGCAUCUGACUUCUAAUCAGGGGAUUGUGGGUUCGAG 59
chr-5.trna1-Arg-TCT      GCUCCCGUGGCCUAAUGGA-UAAGGCAUCUGACUUCUAAUCAGGGGAUUGUGGGUUCGAG 59
chr-19.trna8-Arg-TCT     GCUCCCGUGGCCUAAUGGA-UAAGGCAUCUGACUUCUAAUCAGGGGAUUGUGGGUUCGAG 59
chr-27.trna8-Arg-TCT     GCUCCCGUGGCCUAAUGGA-UAAGGCAUCUGACUUCUAAUCAGGGGAUUGUGGGUUCGAG 59
chr-27.trna3-Arg-TCT     GCUCCCGUGGCCUAAUGGA-UAAGGCAUCUGACUUCUAAUCAGGGGAUUGUGGGUUCGAG 59
chr-27.trna14-Arg-TCT    GCUCCCGUGGCCUAAUGGA-UAUGGCAUUUGACUUCUAAUCAGGGGAUUGUGGAUUCGAG 59
chr-3.trna1-Arg-ACG      GACCGUGUGGCCCAAUGGA-UAAGGCGCUUGCCUACGGAGCAAGAGAUUCUGGGUUCGAU 59
chr-21.trna14-Arg-ACG    GACCGUGUGGCCCAAUGGA-UAAGGCGCUUGCCUACGGAGCAAGAGAUUCUGGGUUCGAU 59
chr-7.trna4-Arg-ACG      GACCGUGUGGCCCAAUGGA-UAAGGCGCUUGCCUACGGAGCAAGAGAUUCUGGGUUCGAU 59
chr-7.trna7-Arg-ACG      GACCGUGUGGCCCAAUGGA-UAAGGCGCUUGCCUACGGAGCAAGAGAUUCUGGGUUCGAU 59
chr-7.trna10-Arg-ACG     GACCGUGUGGCCCAAUGGA-UAAGGCGCUUGCCUACGGAGCAAGAGAUUCUGGGUUCGAU 59
chr-7.trna24-Arg-ACG     GACCGUGUGGCCCAAUGGA-UAAGGCGCUUGCCUACGGAGCAAGAGAUUCUGGGUUCGAU 59
chr-7.trna27-Arg-ACG     GACCGUGUGGCCCAAUGGA-UAAGGCGCUUGCCUACGGAGCAAGAGAUUCUGGGUUCGAU 59
chr-15.trna2-Arg-ACG     GACCGUGUGGCCCAAUGGA-UAAGGCGCUUGCCUACGGAGCAAGAGACUCUGGGUUCGAU 59
chr-16.trna5-Arg-ACG     GACCGUGUGGCCCAAUGGA-UAAGGCGCCUGCCUACGGAGCAGGAGACUCUGGGUUCGAA 59
chr-8.trna5-Arg-CCG      GGUCGCGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUUCGAG 59
chr-18.trna5-Arg-CCG     GGUCGCGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUUCGAG 59
chr-20.trna11-Arg-CCG    GGUCGCGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUUCGAG 59
chr-4.trna23-Arg-CCG     GGUCGCGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGACUGUGGGUUCGAG 59
chr-23.trna1-Arg-TCG     GGCCGCGUAGCGCAGUGGAUUAGCGCGUCAGACUUCGGAUCUGAAGGUCGUGGGUUCGAA 60
chr-18.trna3-Arg-TCG     GGCCGCGUAGCGCAGUGGAUUAGCGCGUCAGACUUCGGAUCUGAAGGUCGAGGGUUCGAA 60
chr-23.trna9-Arg-TCG     GGCCGCGUAGCGCAGUGGAUUAGCGCGUCAGACUUCGGAUCUGAAGGUCGUGGGUUCGAA 60
chr-24.trna20-Arg-TCG    GGCCGCGUAGCGCAGUGGAUUAGCGCGUCAGACUUCGGAUCUGAAGGUCGUGGGUUCGAA 60
chr-21.trna1-Arg-TCG     GGCCGCGUAGCGCAGUGGAUUAGCGCGUCAGACUUCGGAUCUGAAGGUCGUGGGUUCGAA 60
chr-22.trna32-Arg-TCG    GGCCGCGUAGCGCAGUGGAUUAGCGCGUCAGACUUCGGAUCUGAAGGUCGGGGGUUCGAA 60
chr-22.trna1-Arg-TCG     GGCCGCGUAGCGCAGUGGAUUAGCGCGUCAGACUUCGGAUCUGAAGGUCGGGGGUUCGAA 60
chr-3.trna2-Arg-CCT      GCGCCUGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCGAC 59
chr-10.trna17-Arg-CCT    GCGCCUGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCGAC 59
chr-13.trna10-Arg-CCT    GCGCCUGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCGAC 59
chr-19.trna1-Arg-CCT     GCGCCUGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCGAC 59
chr-19.trna3-Arg-CCT     GCGCCUGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCGAC 59
chr-22.trna29-Arg-CCT    GCGCCUGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCGAC 59
chr-17.trna2-Arg-CCT     GCGCCUGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCGAC 59
chr-17.trna4-Arg-CCT     GCGCCUGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCGAC 59
chr-17.trna1-Arg-CCT     GCGCCUGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUCCGAC 59
chr-6.trna1-Arg-GCG      GUAGCUGUAGUAUAGUGGU-GAAAAUUUUAUGAUGCGGCCGUGGAG-UCCUCGGCUCGAA 58
                         .........10........20........30........40........50.........
                         .))))))))))))).
chr-22.trna31-Arg-TCT    UCCUACUGGGAGUG 73
chr-2.trna3-Arg-TCT      UCCCACCGGGAGUG 73
chr-5.trna1-Arg-TCT      UCCCACCGGGAGUG 73
chr-19.trna8-Arg-TCT     UCCCACCGGGAGUG 73
chr-27.trna8-Arg-TCT     UCCCACCGGGAGUG 73
chr-27.trna3-Arg-TCT     UCCCACCGGGAGUG 73
chr-27.trna14-Arg-TCT    UUCUACUGGUAGUG 73
chr-3.trna1-Arg-ACG      CCCCAGCAUGGUCG 73
chr-21.trna14-Arg-ACG    CCCCAGCAUGGUCG 73
chr-7.trna4-Arg-ACG      CCCCAGCAUGGUCG 73
chr-7.trna7-Arg-ACG      CCCCAGCAUGGUCG 73
chr-7.trna10-Arg-ACG     CCCCAGCAUGGUCG 73
chr-7.trna24-Arg-ACG     CCCCAGCAUGGUCG 73
chr-7.trna27-Arg-ACG     CCCCAGCAUGGUCG 73
chr-15.trna2-Arg-ACG     CCCCAGCAUGGUCG 73
chr-16.trna5-Arg-ACG     CCCCAGCAUGGUCG 73
chr-8.trna5-Arg-CCG      UCCCACCGUGAUCG 73
chr-18.trna5-Arg-CCG     UCCCACCGUGAUCG 73
chr-20.trna11-Arg-CCG    UCCCACCGUGAUCG 73
chr-4.trna23-Arg-CCG     UCCCACCGUGAUCG 73
chr-23.trna1-Arg-TCG     UCCCACCGUGGUCG 74
chr-18.trna3-Arg-TCG     UCCCUCCGUGGUCG 74
chr-23.trna9-Arg-TCG     UCCCACCGUGGUCG 74
chr-24.trna20-Arg-TCG    UCCCAUCGUGGUCG 74
chr-21.trna1-Arg-TCG     UCCCAUCGUGGUCA 74
chr-22.trna32-Arg-TCG    UCCCCUCGUGGUCA 74
chr-22.trna1-Arg-TCG     UCCCCUCGUGGUCA 74
chr-3.trna2-Arg-CCT      CCCUACCUGGCGCG 73
chr-10.trna17-Arg-CCT    CCCUACCUGGCGCG 73
chr-13.trna10-Arg-CCT    CCCUACCUGGCGCG 73
chr-19.trna1-Arg-CCT     CCCUACCUGGCGCG 73
chr-19.trna3-Arg-CCT     CCCUACCUGGCGCG 73
chr-22.trna29-Arg-CCT    CCCUACCUGGCGCG 73
chr-17.trna2-Arg-CCT     CCCUAUCUGGCGCG 73
chr-17.trna4-Arg-CCT     CCCUAUCUGGCGCG 73
chr-17.trna1-Arg-CCT     CCCUACCUGGCGCG 73
chr-6.trna1-Arg-GCG      UCCUAGCAGCUAUA 72
                         .........70...
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