```
                         ((((((((((((.....))))))((.(.(((((.......)))))).).))))))).....
chr-1.trna53-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCAUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-2.trna52-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCAUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-1.trna34-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-1.trna62-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-2.trna22-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-2.trna25-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-2.trna108-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-2.trna110-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-2.trna112-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-10.trna67-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-11.trna59-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-11.trna3-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-2.trna105-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGUAGGUUCG-A 59
chr-11.trna45-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-10.trna56-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-10.trna49-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-5.trna67-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-7.trna32-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-11.trna56-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGUAGGUUCG-A 59
chr-2.trna23-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCA-A 59
chr-5.trna40-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-3.trna45-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGUAGGUUUG-A 59
chr-11.trna57-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUUGUGCUAAUAACGCGAAGGUCGUAGGUUUG-A 59
chr-2.trna106-Ile-AAT    GGCCUAUUAGCUUAGUUGGUUAGAGCGUCAUGCUAAUAACGCAAAGGUCGCAGGUUUG-A 59
chr-10.trna70-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCG-A 59
chr-9.trna99-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCG-A 59
chr-7.trna19-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCG-A 59
chr-3.trna54-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGCUGGUCUUAUGAGCCGGAGGUCGCGAGUUCG-A 59
chr-11.trna24-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUUGCGGGUUCG-A 59
chr-3.trna31-Ile-TAT     GGUCCCGUAGCUCAGUUGGUCAGAGCAUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCG-A 59
chr-12.trna23-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCAUGCUAAUAACGCGAAGGUCGCAGGUUCG-A 59
chr-10.trna48-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCAUUGUGCUAAUAAUGUGAAGGUUGCAGGUUCG-A 59
chr-9.trna54-Ile-TAT     UCCUACUUAACUCAA-UGGUUAGAGUAUCGCUUUUAUACGGCGGGAGUCAUUGGUUCA-A 58
chr-11.trna26-Ile-TAT    GGUCUUGUAGCUUAGUUGGUUAGAGCGUUGGUCUUAUGAGACAAAGGUUGUGGGUUCG-A 59
chr-10.trna29-Ile-TAT    GUUGUUGUGGUGUAA-UGGUUAUCACGGAUGUCUUAUAAACUAAAGAUCCCUACUUCG-A 58
                         .........10........20........30........40........50.........
                         ))))))))))))).
chr-1.trna53-Ile-AAT     AACCUGCAUGGGCCA 74
chr-2.trna52-Ile-AAT     GACCUGCAUGGGCCA 74
chr-1.trna34-Ile-AAT     GACCUGCAUGGGCCA 74
chr-1.trna62-Ile-AAT     GACCUGCAUGGGCCA 74
chr-2.trna22-Ile-AAT     GACCUGCAUGGGCCA 74
chr-2.trna25-Ile-AAT     GACCUGCAUGGGCCA 74
chr-2.trna108-Ile-AAT    GACCUGCAUGGGCCA 74
chr-2.trna110-Ile-AAT    GACCUGCAUGGGCCA 74
chr-2.trna112-Ile-AAT    GACCUGCAUGGGCCA 74
chr-10.trna67-Ile-AAT    GACCUGCAUGGGCCA 74
chr-11.trna59-Ile-AAT    AACCUGCAUAGGCCA 74
chr-11.trna3-Ile-AAT     AACCUGCAUGGGCCA 74
chr-2.trna105-Ile-AAT    AACCUGCAUGGGCCA 74
chr-11.trna45-Ile-AAT    AACCUGCAUGGGCCA 74
chr-10.trna56-Ile-AAT    AACCUGCAUGGGCCA 74
chr-10.trna49-Ile-AAT    AACCUGCAUGGGCCA 74
chr-5.trna67-Ile-AAT     AACCUGCAUGGGCCA 74
chr-7.trna32-Ile-AAT     AACCUGCAUGGGCCA 74
chr-11.trna56-Ile-AAT    GACCUGCAUGGGCCA 74
chr-2.trna23-Ile-AAT     AACCUGCAUGGGCCA 74
chr-5.trna40-Ile-AAT     AACCUGCAUGGGCCA 75
chr-3.trna45-Ile-AAT     GACUUGCGUAGGCCA 74
chr-11.trna57-Ile-AAT    GACUUGCAUGGGCCA 74
chr-2.trna106-Ile-AAT    GACCUGCAUGGGCCA 74
chr-10.trna70-Ile-TAT    GCCCCGCCGGGACCA 74
chr-9.trna99-Ile-TAT     GCCCCGCUGGGACCA 74
chr-7.trna19-Ile-TAT     GCCCCGCCGGGACCA 74
chr-3.trna54-Ile-TAT     GCCUCGCCGGGACCA 74
chr-11.trna24-Ile-TAT    GCCCCGCCGGGACCA 74
chr-3.trna31-Ile-TAT     GCCCCGCCGGGACCA 74
chr-12.trna23-Ile-AAT    GACCUGCAUUGGCCA 74
chr-10.trna48-Ile-AAT    AACCGGCAUGGGCCU 74
chr-9.trna54-Ile-TAT     AUCCAAUAGUAGGUA 73
chr-11.trna26-Ile-TAT    GCCCCGCUAUAACCA 74
chr-10.trna29-Ile-TAT    UCCUAGGCAAUAACA 73
                         .........70....
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