```
                                 ((((((((((((.....))))))((.(.(((((.......)))))).).))(((((((...)
chr-4.trna21-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-10.trna44-Ile-AAT            GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-10.trna46-Ile-AAT            GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-7.trna42-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-7.trna77-Ile-AAT             GGCCCAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-2.trna67-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-2.trna102-Ile-AAT            GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-3.trna17-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-4.trna74-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-4.trna75-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-4.trna96-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-11.trna41-Ile-AAT            GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-7.trna80-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-7.trna79-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-7.trna52-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-7.trna75-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-7.trna20-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGUAGGUUCGAG 60
chr-5.trna117-Ile-AAT            GGCCUAUUAGCUCAGUUGGAUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-9.trna54-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUUGUGCUAAUAACGCAAAGGUUGCAGGUUCGAA 60
chr-4.trna82-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUUGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-9.trna55-Ile-AAT             GGCCUAUUAACUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGUAGGUUCGAG 60
chr-1.trna13-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGUAGGUUCGAG 60
chr-3.trna142-Ile-AAT            GACCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-5.trna112-Ile-AAT            GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGUGAAGGUUGCAGGUUUGAA 60
chr-2.trna9-Ile-TAT              GGUCCCGUAGCUCAGUUGGUUAGAGCAUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-2.trna6-Ile-TAT              GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-2.trna7-Ile-TAT              GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-11.trna51-Ile-TAT            GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-2.trna10-Ile-TAT             GGUCCCGUAGCUCAGUUGGUUAGAGCAUUGGUCUUAUGAGUCGAAGGUCGCGGGUUUGAG 60
chr-9.trna53-Ile-AAT             GGCCUAUUAGUUCAGUUGGUUAGAGCGUCGUGCUAAUAACACGAAGGUCGUAGGUUCGAG 60
chr-6.trna79-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAAUGCGAAGGUCGCAAGUUUGAG 60
chr-7.trna21-Ile-AAT             GGCUUAUUAGCUCAGUUGGUUAGAGUGUUGUGCUAAUAACGCGAAGGUUGUAGGUUCGAA 60
chr-9.trna56-Ile-AAT             GGCCUAUUAGCUUAGUUGGUUAGAGCGUCGUGUUAAUAAUGUGAAUGUUGCAA-UUUGAG 59
chr-5.trna16-Ile-TAT             GGUCCCGUGGCUCAGUCGGUUAGAGCGCUGGUCUUAUGAGCCGGAGGUCGCGAGUUCGAA 60
chr-10.trna1-Ile-TAT             GGUCCCGUAGCUCAGUUGGUUAGAGCGUU-GUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 59
chr-7.trna19-Ile-AAT             GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGUAGGUUCGAG 60
chr-2.trna103-Ile-AAT            G--CUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAAUGCGAAGGUCGCAGGUUCGAA 58
chr-5.trna20-Ile-TAT             GCCCGCUUAGCUCAG-AGGUUAGAGCAUCGCAUUUAUAAUGUGAUGGUCAUCUGUUCGAU 59
chr-7.trna73-Ile-TAT             AUUAGAGUGGCGCAG--AGGAAGCGUGGUGAGCCUAUAACCCACAGGUCCCAGGAUUGAA 58
chr-4.trna54-Ile-TAT             GGGAUGGUGGUGUAGUUGGCUAGUGCGAAGGUCUUAUAAUCUUGAGGUUGAGAGUUCAAC 60
chr-4.trna22-Ile-AAT             CU---AUUAGCUUAGUUGGUUAGAUUGUUGUGCUAAUAACGUGAAGGGUGCAUGUUUGAA 57
                                 .........10........20........30........40........50.........

                                 )))))))..)))))).
chr-4.trna21-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-10.trna44-Ile-AAT            ACCUGCA--UGGGCCA 74
chr-10.trna46-Ile-AAT            ACCUGCA--UGGGCCA 74
chr-7.trna42-Ile-AAT             ACCUGCA--UAGGCCA 74
chr-7.trna77-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-2.trna67-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-2.trna102-Ile-AAT            ACCUGCA--UGGGCCA 74
chr-3.trna17-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-4.trna74-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-4.trna75-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-4.trna96-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-11.trna41-Ile-AAT            ACCUGCA--UGGGCCA 74
chr-7.trna80-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-7.trna79-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-7.trna52-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-7.trna75-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-7.trna20-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-5.trna117-Ile-AAT            ACCUGCA--UGGGCCA 74
chr-9.trna54-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-4.trna82-Ile-AAT             ACCUGCA--UGGGCCA 74
chr-9.trna55-Ile-AAT             ACCUGCAU-UGGGCCA 75
chr-1.trna13-Ile-AAT             ACCUGUA--UGGGCCA 74
chr-3.trna142-Ile-AAT            ACCUGCA--UGGGCCA 74
chr-5.trna112-Ile-AAT            ACCUGCA--UGGGCCA 74
chr-2.trna9-Ile-TAT              CCCCGCC--GGGACCA 74
chr-2.trna6-Ile-TAT              CCCCGCC--GGGACCA 74
chr-2.trna7-Ile-TAT              CCCCGCC--GGGACCA 74
chr-11.trna51-Ile-TAT            CCCCGCC--GGGACCA 74
chr-2.trna10-Ile-TAT             CCCCGCC--GGGACCA 74
chr-9.trna53-Ile-AAT             ACCGGUA--UGGGCUA 74
chr-6.trna79-Ile-AAT             ACCUACA--UGGGCCA 74
chr-7.trna21-Ile-AAT             ACUUGCAUAUAGGCCA 76
chr-9.trna56-Ile-AAT             AUUUGCA--UAGGUCA 73
chr-5.trna16-Ile-TAT             CCUCGCC--GGGACCA 74
chr-10.trna1-Ile-TAT             CCCCGCC--GGGACCA 73
chr-7.trna19-Ile-AAT             ACCA-----UGGGCCA 71
chr-2.trna103-Ile-AAT            ACCUGCA--UGGGCCA 72
chr-5.trna20-Ile-TAT             UCAGAUA--CUAGGUU 73
chr-7.trna73-Ile-TAT             ACCUGGC--UCUGAUA 72
chr-4.trna54-Ile-TAT             CCUCUCU--CACCCCA 74
chr-4.trna22-Ile-AAT             ACUUGCA--UUGAAGA 71
                                 .........70.....
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