```
                         ((.((((((((((.....))))))(.(.(((((.......))))).).))))))).
chr-1.trna42-Ile-AAT     GG-CCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-1.trna13-Ile-AAT     GG-CCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-3.trna56-Ile-AAT     GG-CCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-8.trna44-Ile-AAT     GG-CCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-7.trna69-Ile-AAT     GG-CCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-11.trna39-Ile-AAT    GG-CCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-11.trna18-Ile-AAT    GG-CCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-4.trna24-Ile-AAT     GG-CCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-4.trna23-Ile-AAT     GG-CCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-2.trna89-Ile-AAT     GG-CCCAUUAGCUCAGUUGGUUAGAGCGUGGUGCUAAUAACGCCAAGGUCGCAGGUUCGA 59
chr-3.trna65-Ile-AAT     GG-CCCAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-4.trna22-Ile-AAT     GG-CCCAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-5.trna27-Ile-AAT     GG-CCCAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-7.trna36-Ile-AAT     GG-CCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGUAGGUUCGA 59
chr-6.trna36-Ile-AAT     GG-CCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-4.trna27-Ile-AAT     GG-CCUAUUAGCUCAGUUGGUUAAAGCGUCGUGCUAAUAACGCGAAGGUCACGGGUUCGA 59
chr-1.trna37-Ile-TAT     GG-UUCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGA 59
chr-7.trna41-Ile-TAT     GG-UCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGA 59
chr-3.trna21-Ile-TAT     GG-UCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGAGUUCGA 59
chr-6.trna5-Ile-TAT      GG-UCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGAGUUCGA 59
chr-6.trna35-Ile-TAT     GG-UCCCGUAGCUCAGUUGGUUAGAGCGCUGGUCUUAUGAGCCGGAGGUCGCGAGUUCGA 59
chr-3.trna3-Ile-TAT      GG-UCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGA 59
chr-2.trna85-Ile-TAT     GG-UCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGG 59
chr-11.trna17-Ile-AAT    GG-CCUAUUAGCUCAGCUGGUUAGAGCGUUGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-3.trna14-Ile-TAT     GGACCUAUUGGCUGAGUUAGUUAUAGUGUCGUGCUUAUAACGCGAAGGUUGCAGAUUCGA 60
chr-4.trna31-Ile-AAT     GG-CCCAUUAGCUCAGUUGGUUAGAGCGUGGUGCUAAUAACGCCAAGGUCGCAG-----A 54
                         .........10........20........30........40........50.........
                         ))))))))))))).
chr-1.trna42-Ile-AAT     GACCUGCAUGGGCCA 74
chr-1.trna13-Ile-AAT     GACCUGCAUGGGCCA 74
chr-3.trna56-Ile-AAT     GACCUGCAUGGGCCA 74
chr-8.trna44-Ile-AAT     GACCUGCAUGGGCCA 74
chr-7.trna69-Ile-AAT     GACCUGCAUGGGCCA 74
chr-11.trna39-Ile-AAT    GACCUGCAUGGGCCA 74
chr-11.trna18-Ile-AAT    GACCUGCAUGGGCCA 74
chr-4.trna24-Ile-AAT     GACCUGCAUGGGCCA 74
chr-4.trna23-Ile-AAT     AACCUGCAUGGGCCA 74
chr-2.trna89-Ile-AAT     GACCUGCAUGGGCCA 74
chr-3.trna65-Ile-AAT     GACCUGCAUGGGCCA 74
chr-4.trna22-Ile-AAT     AACCUGCAUGGGCCA 74
chr-5.trna27-Ile-AAT     AACCUGCAUGGGCCA 74
chr-7.trna36-Ile-AAT     GACCUGCAUGGGCCA 74
chr-6.trna36-Ile-AAT     AACCUGUAUGGGCCA 74
chr-4.trna27-Ile-AAT     GACCUGUAUAGGCCA 74
chr-1.trna37-Ile-TAT     GCCCCGCCGGAACCA 74
chr-7.trna41-Ile-TAT     GCCCCGCCGGGACCA 74
chr-3.trna21-Ile-TAT     GCCUCGCCGGGACCA 74
chr-6.trna5-Ile-TAT      GCCUCGCCGGGACCA 74
chr-6.trna35-Ile-TAT     GCCUCGCCGGGACCA 74
chr-3.trna3-Ile-TAT      GCCCCGCCGGAACCA 74
chr-2.trna85-Ile-TAT     UCCCCGCCGGGACCA 74
chr-11.trna17-Ile-AAT    GACCUACAUGGGCCA 74
chr-3.trna14-Ile-TAT     GAUCUGCAUGGGCUG 75
chr-4.trna31-Ile-AAT     GACCUGCAUGGGCCA 69
                         .........70....
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