```
                                 (((((((..((((.........)))).(((((.......)))))).....(((((((...
chr-1.trna39-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-4.trna39-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-5.trna6-Ile-AAT      GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-6.trna7-Ile-AAT      GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-6.trna11-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-6.trna103-Ile-AAT    GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-6.trna104-Ile-AAT    GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-8.trna11-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-8.trna49-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-8.trna57-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-9.trna1-Ile-AAT      GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-5.trna34-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-5.trna41-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-5.trna42-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-6.trna49-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-6.trna77-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-6.trna99-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-9.trna15-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-10.trna37-Ile-AAT    GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-11.trna36-Ile-AAT    GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-11.trna37-Ile-AAT    GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-11.trna84-Ile-AAT    GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCAA 59
chr-11.trna81-Ile-AAT    GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCAA 59
chr-5.trna70-Ile-AAT     GGCCUAUUAGCUCAG-CUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-11.trna35-Ile-AAT    GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-11.trna86-Ile-AAT    GGCCUAUUAGCUCUG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUUGUAGGUUCAA 59
chr-11.trna97-Ile-AAT    GGCCUAUAAGCUCAG-UUGGUUAGAACGUCAUGCUAAUAACAUGAAAGUCGCAGGUUCAA 59
chr-11.trna93-Ile-AAT    GGCCUAUUAGCUCAA-UUGGUUAGAGCGUCGUGCUAAUAACACGAAGGUCAUAGGUUCAA 59
chr-4.trna57-Ile-TAT     GAUCCCGUAGCUCAG-UUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGA 59
chr-11.trna3-Ile-TAT     GGUCCCGUAGCUCAG-UUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGA 59
chr-6.trna78-Ile-TAT     GGUCCCGUAGCUCAG-UUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGA 59
chr-11.trna92-Ile-AAT    GGCCUAUUAGCUCAU-UUGGUUAGAGUGUCAUGCUAAUUACGUGAAGCUCGUAGGUUCAA 59
chr-11.trna79-Ile-AAT    GGCCUAUUAGCUCAG-UUGGUUAGAGCAUCUUGCUAAUAACGCGAAGGUCGCAGGUUCAA 59
chr-11.trna77-Ile-AAT    GGCCUAUUAGCUCAG-UUGGUUAGAGCAUCUUGCUAAUAACGCGAAGGUCGCAGGUUCAA 59
chr-11.trna85-Ile-GAT    GGCCUAUUAGUUCAG-UUGGUUCGAGCGUCGUGUUGAUUACGCGAAGGUCGUAGGUUCAA 59
chr-11.trna73-Ile-AAT    GGCCUAUUAGCUCAGUUUGUUUAGAGUGUCGUGCUAAUAACGCGAAGGUCGUAGGUUCAA 60
chr-11.trna72-Ile-AAT    GGCCUAUUAGCUUAG-UUGGUUAAAGCGUCAUGCUAAUUACGCGAAGGUCGUAGGUUCAA 59
chr-11.trna95-Ile-AAT    GGCUUAUUAGCUCAG-UUGGUUAGAGCGUUGUGCUAAUUACGUGAAGGUUGUAGGUUCAA 59
chr-5.trna33-Ile-AAT     GGCCUAUUAGCUCAG-UUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGA 59
chr-4.trna24-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGA 60
chr-8.trna36-Ile-TAT     GGUCCCGUAGCUCAGUUGGUCUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGA 60
chr-10.trna44-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGUAGCAUCGGUCUUAUGAGCCGAAGGUCGCGGGUUCGA 60
chr-11.trna76-Ile-AAT    GGCCUAUUAGUUCAG-UUGGUUAGAGCGUCGUGAUAAUUACGCGAAGGUCGUAUGUUCAA 59
chr-11.trna64-Ile-AAT    AGCCUAUUAGCUUAG-UUGGGUAGAGCAUCAUGUUAAUAACGCGAAGGUUGCAAGUUCGU 59
chr-11.trna105-Ile-AAT   AGCCUAUUAGCUCAG-UUGAUUAGAGCGUUAUGCUAAUAACUUGAAUAUUGUAGGUUCGA 59
chr-11.trna96-Ile-AAT    GGCCUAUAAGCUCAG--UUGUUAGAACGUCAUGCUAAUAACAUGAAAGUCGCAGGUUCAA 58
chr-11.trna65-Ile-AAT    GGCCUAUUAGCUUAG-UUGUUUAGAGUGUUGAGCUAAUAACAUAAAUAUUGUAAAUUCGA 59
chr-11.trna94-Ile-AAT    GGCCUAUUACCUCAG-UUGGUUAGAGCGUCGUGCUAAUAAUGCGAAAUUUAUAAGCUCGA 59
chr-11.trna106-Ile-AAT   AGCCUAUUAGCUCAA-UUGAUUAGAGCGUUAUGCUAAUAACACAAAGGUCAUAUAUAUUC 59
                         .........10........20........30........40........50.........

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chr-1.trna39-Ile-AAT     G--ACCUGCAUGGGCCA 74
chr-4.trna39-Ile-AAT     G--ACCUGCAUGGGCCA 74
chr-5.trna6-Ile-AAT      G--ACCUGCAUGGGCCA 74
chr-6.trna7-Ile-AAT      G--ACCUGCAUGGGCCA 74
chr-6.trna11-Ile-AAT     G--ACCUGCAUGGGCCA 74
chr-6.trna103-Ile-AAT    G--ACCUGCAUGGGCCA 74
chr-6.trna104-Ile-AAT    G--ACCUGCAUGGGCCA 74
chr-8.trna11-Ile-AAT     G--ACCUGCAUGGGCCA 74
chr-8.trna49-Ile-AAT     G--ACCUGCAUGGGCCA 74
chr-8.trna57-Ile-AAT     G--ACCUGCAUGGGCCA 74
chr-9.trna1-Ile-AAT      G--ACCUGCAUGGGCCA 74
chr-5.trna34-Ile-AAT     A--ACCUGCAUGGGCCA 74
chr-5.trna41-Ile-AAT     A--ACCUGCAUGGGCCA 74
chr-5.trna42-Ile-AAT     A--ACCUGCAUGGGCCA 74
chr-6.trna49-Ile-AAT     A--ACCUGCAUGGGCCA 74
chr-6.trna77-Ile-AAT     A--ACCUGCAUGGGCCA 74
chr-6.trna99-Ile-AAT     A--ACCUGCAUGGGCCA 74
chr-9.trna15-Ile-AAT     A--ACCUGCAUGGGCCA 74
chr-10.trna37-Ile-AAT    A--ACCUGCAUGGGCCA 74
chr-11.trna36-Ile-AAT    A--ACCUGCAUGGGCCA 74
chr-11.trna37-Ile-AAT    A--ACCUGCAUGGGCCA 74
chr-11.trna84-Ile-AAT    G--ACCUGCAUGGGCCA 74
chr-11.trna81-Ile-AAT    G--ACCUGCAUGGGCCA 74
chr-5.trna70-Ile-AAT     G--ACCUGCAUGGGCCA 74
chr-11.trna35-Ile-AAT    A--ACCUACAUGGGCCA 74
chr-11.trna86-Ile-AAT    G--ACUUGCAUGGGCCA 74
chr-11.trna97-Ile-AAT    G--ACCUGCAUGGGCCA 74
chr-11.trna93-Ile-AAT    G--ACCUGCAUGGGCCA 74
chr-4.trna57-Ile-TAT     G--CCCCGCCGGGAUCA 74
chr-11.trna3-Ile-TAT     G--CCCCGCCGGGACCA 74
chr-6.trna78-Ile-TAT     G--CCCCGCCGGGACCA 74
chr-11.trna92-Ile-AAT    G--ACUUGCAUGGGCCA 74
chr-11.trna79-Ile-AAT    G--ACCUGCAUGGGCCA 74
chr-11.trna77-Ile-AAT    G--ACCUGCAUGGGCCA 74
chr-11.trna85-Ile-GAT    G--ACCUGCAUGGGCCA 74
chr-11.trna73-Ile-AAT    G--ACCUGCAUGGGCCA 75
chr-11.trna72-Ile-AAT    G--ACUUGCAUGGGCCA 74
chr-11.trna95-Ile-AAT    G--AUUUGCAUGGGCCA 74
chr-5.trna33-Ile-AAT     A--ACCU-UGUGGGCCA 73
chr-4.trna24-Ile-TAT     G--CCCCGCCGGGACCA 75
chr-8.trna36-Ile-TAT     G--CCCCGCCGGGACCA 75
chr-10.trna44-Ile-TAT    G--CCCCGCUGGGACCA 75
chr-11.trna76-Ile-AAT    GA-ACCUGCAUGGGCCA 75
chr-11.trna64-Ile-AAT    G--ACCUGCAUGGGCUA 74
chr-11.trna105-Ile-AAT   G--GCCUACAUGGGCCA 74
chr-11.trna96-Ile-AAT    GAGACCUGCAUGGGCCA 75
chr-11.trna65-Ile-AAT    G--ACUUACGUAUGCCA 74
chr-11.trna94-Ile-AAT    G--ACUUGUAUGGACCA 74
chr-11.trna106-Ile-AAT   GAGACAUGCAUGGGCCA 76
                         .........70......
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