```
                         (((((((..((((.........)))).).(((((((...))))))).....(((((....
chr-2.trna502-Thr-AGT    UGCUUCAUAGCUCAGUUGGUUAGAGCACACCGUUU-AGUAAAGCGGA-GUCUUGAGUUCA 58
chr-2.trna3-Thr-AGT      GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-2.trna161-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-2.trna162-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-3.trna145-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-3.trna625-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-3.trna626-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-4.trna249-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-4.trna380-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-7.trna108-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-4.trna381-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-6.trna263-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-4.trna382-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-5.trna234-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-5.trna235-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-5.trna305-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-5.trna506-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-1.trna41-Thr-AGT     GCUCUCGUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-2.trna153-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAG--CACCUGUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-5.trna61-Thr-AGT     GCUCUCGUAGCUUAGUUGGUUAGAG--CACCGCUUAGUAAGCGGAGGUCUUGAGUUCA 58
chr-5.trna306-Thr-AGT    GCUUCCAUAGCUCAGUUGGUUAGAG--CACCGUUUAGUAAGCGGAGGUCUUGAGCUCA 58
chr-1.trna542-Thr-GGT    GCCCUUUUAACUCAGU--GGUAGAG--UAAUGCCAUGGUAAGGCAUAAGUCAUCGGUUCA 56
chr-5.trna14-Thr-GGT     GCCCUUUUAACUCAGU--GGUAGAG--UAAUGCCAUGGUAAGGCAUAAGUCAUCGGUUCA 56
chr-4.trna13-Thr-GGT     GCCCUUUUAACUCAGU--GGUAGAG--UAAUGCCAUGGUAAGGCAUAAUUCAUCGGUUGA 56
chr-1.trna114-Thr-TGT    GCCCCUAUAGCUCAGU--GGUAGAG--CGUCAGUCUUGUAAACUGAAGGUCUGUAGUUCG 56
chr-4.trna372-Thr-TGT    GCCCCUAUAGCUCAGU--GGUAGAG--CGUCAGUCUUGUAAACUGAAGGUCUGUAGUUCG 56
chr-4.trna374-Thr-TGT    GCCCCUAUAGCUCAGU--GGUAGAG--CGUCAGUCUUGUAAACUGAAGGUCUGUAGUUCG 56
chr-5.trna362-Thr-TGT    GCCCUUAUAGCUCAGU--GGUAGAG--CGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCG 56
chr-6.trna265-Thr-TGT    GCCCUUAUAGCUCAGU--GGUAGAG--CGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCG 56
chr-4.trna193-Thr-TGT    GCCCUUAUAGCUCAGU--GGUAGAG--CGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCG 56
chr-4.trna375-Thr-TGT    GCCUCCAUAGCUCAGU--GGUAGAG--CGUCCGUCUUGUAAACUGAAGGUCUGUAGAUCG 56
chr-4.trna373-Thr-TGT    GCCCCUAUAGCUCAGU--GGUAGAG--CGUCAGUCUUGUAAACUGAUGGUCUGUAGUUCG 56
chr-1.trna240-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAGUG--CGUUCCCUUCGUAAGGGAAAGGUCGUGAGUUCG 56
chr-2.trna6-Thr-CGT      GCCUCCGUAGCAUAGU--GGUAGUG--CGUUCCCUUCGUAAGGGAAAGGUCGUGAGUUCG 56
chr-6.trna5-Thr-CGT      GCCUCCGUAGCAUAGU--GGUAGUG--CGUUCCCUUCGUAAGGGAAAGGUCGUGAGUUCG 56
chr-2.trna298-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAGUG--CGUUCCCUUCGUAAGGGAAAGGUCGUGAGUUCG 56
chr-7.trna211-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAGUG--CGUUCCCUUCGUAAGGGAAAGGUCGUGAGUUCG 56
chr-6.trna7-Thr-CGT      GCCUCCGUAGCAUAGU--GGUAGUG--CGUUCCCUUCGUAAGGGAAAGGUCGUGAGUUCG 56
chr-6.trna6-Thr-CGT      GCCUCCGUAGCAUAGU--GGUAGUG--CGUUCCCUUCGUAAGGGAAAGGUCGUGAGUUCG 56
chr-6.trna4-Thr-CGT      GCCUCCGUAGCAUAGU--GGUAGUG--CGUUCCCUUCGUAAGGGAAAGGUCGUGAGUUCG 56
chr-2.trna328-Thr-CGT    GCUUCCGUAGCAUAGU--GGUAUUG--CGUUCGCUUCGUAAGCGAAAGGCCGCGAGUUCG 56
chr-7.trna278-Thr-TGT    GCCCACUUAGCUCAGA-GGUUAGAG--CAUUGCAUUUGUAAUGCGAGGGUCAUUGGUUCA 57
chr-5.trna518-Thr-TGT    GCCCACUUAGCUCAGA-GGUUAGCG--CAUCGCAUUUGUAAUGCGAGGGUCAUCGGUUCA 57
chr-3.trna87-Thr-TGT     GCCCACUUAGCUCAGA-GGUUAGAG--CAUCGCAUUUGUAAUGCGAGUGUCAUCGGUUCA 57
chr-1.trna471-Thr-TGT    GCCCACUUAGCUCAGA-GGUUAGAG--CAUCGCAUUUGUAAUGCGAGGGUCAUCGGUUUA 57
chr-1.trna477-Thr-TGT    GCCCACUUAUCUCAGA-GGUUAGAG--CAUCGCAUUUGUAAUGUGAGGGUCAUCGGUUCA 57
chr-1.trna452-Thr-TGT    GCCCACUUAGCUCAGA-GGUUAGAG--CAUCGCAUUUGUAAUGCGAGGGUCAUCGGUUCA 57
chr-1.trna467-Thr-TGT    GCCCACUUAUCUCAGA-GGUUAGAG--CAUCGCAUUUGUAAUGCGGGGUCAUCGGUUCA 57
chr-7.trna181-Thr-TGT    G-CCACUUAGCUCAGA-GGUUAGAG--CAUUGCAUUUGUAAUGCGAG-GUCAUUGGUUCA 55
chr-3.trna273-Thr-CGT    GCCCGUCUAGCUCAGCU-GGUAGAG---CCGAGGCUCGUAACCUUGUGGUCUUGGGUUCG 56
chr-1.trna472-Thr-CGT    GAGU--AUAUAGCAGUUUGGUAGCU--CAUAAGGCUCGUAACCUUGGGGUUGUGGGUUCG 56
chr-1.trna228-Thr-CGT    GUGAUGGUGGCGCGGUUGGCUAGCG--CGUAGGUUUCGUAAUCCUGAGAGUUCG 58
chr-1.trna194-Thr-AGT    CCACU----GCUCAGUU-GGUAAAG--CACAAAGCUAGUAACCUUGUGGACGUGGGUUCA 53
chr-7.trna463-Thr-AGT    CCACU----GCUCAGUU-GGUAAAG--CACAAAGCUAGUAACCUUGUGGACGUGGGUUCA 53
chr-3.trna333-Thr-AGT    CCACU----GCUCAGUU-GGUAAAG--CACAAAGCUAGUAACCUUGUGGACGUGGGUUCA 53
chr-1.trna504-Thr-AGT    CCACU----GCUCAGUU-GGUAAAG--CACAAAGCUAGUAACCUUGUGGACGUGGGUUCA 53
                         .........10........20........30........40........50.........

                         ...).)))))))))))....
chr-2.trna502-Thr-AGT    ACUC-UCAAUGAAGCA---C 74
chr-2.trna3-Thr-AGT      ACUC-UCAAUGAAAGC---A 74
chr-2.trna161-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-2.trna162-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-3.trna145-Thr-AGT    ACUC-UCAAUGGAAGC---A 74
chr-3.trna625-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-3.trna626-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-4.trna249-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-4.trna380-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-7.trna108-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-4.trna381-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-6.trna263-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-4.trna382-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-5.trna234-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-5.trna235-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-5.trna305-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-5.trna506-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-1.trna41-Thr-AGT     ACUC-UCAAUGAGAGC---A 74
chr-2.trna153-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-5.trna61-Thr-AGT     ACUC-UUAAUGAGAGC---A 74
chr-5.trna306-Thr-AGT    ACUC-UCAAUGAAAGC---A 74
chr-1.trna542-Thr-GGT    AAUC-UGAUAAAGGGC---U 72
chr-5.trna14-Thr-GGT     AAUA-CGAUAAAGGGC---U 72
chr-4.trna13-Thr-GGT     AAUC-UGAUAAAGGGC---U 72
chr-1.trna114-Thr-TGT    AUCC-UGCAUGGGGGC---A 72
chr-4.trna372-Thr-TGT    AUCC-UGCAUGGGGGC---A 72
chr-4.trna374-Thr-TGT    AUCC-UGCAUGGGGGC---A 72
chr-5.trna362-Thr-TGT    AUCC-UGCGUGAGGGC---A 72
chr-6.trna265-Thr-TGT    AUCC-UGCGUGAGGGC---A 72
chr-4.trna193-Thr-TGT    AUCC-UGCGUGAGGGC---A 72
chr-4.trna375-Thr-TGT    AUCC-UGCAUGGAGGC---A 72
chr-4.trna373-Thr-TGT    AUCC-UGCAUGGGGGC---A 72
chr-1.trna240-Thr-CGT    AUCC-UCACCGGGGGC---U 72
chr-2.trna6-Thr-CGT      AUCC-UCACCGGGGGC---U 72
chr-6.trna5-Thr-CGT      AUCC-UCACCGGGGGC---U 72
chr-2.trna298-Thr-CGT    AUCC-UCACCGGGGGC---U 72
chr-7.trna211-Thr-CGT    AUCC-UCACCGGGGGC---U 72
chr-6.trna7-Thr-CGT      AUCC-UCACCGGGGGC---U 72
chr-6.trna6-Thr-CGT      AUCC-UCACUGGGGGC---U 72
chr-6.trna4-Thr-CGT      AUCC-UCACUGGGGGC---U 72
chr-2.trna328-Thr-CGT    AUCC-UCGCCGGGAGC---U 72
chr-7.trna278-Thr-TGT    AAUC-CGAUAGUCGGC---U 73
chr-5.trna518-Thr-TGT    AAUC-CGAUAGUCGGC---U 73
chr-3.trna87-Thr-TGT     AAUC-CGAUAGUCGGC---U 73
chr-1.trna471-Thr-TGT    GAUC-CGAUAGUCGGC---U 73
chr-1.trna477-Thr-TGT    AAUC-CGAUAGUUGGC---U 73
chr-1.trna452-Thr-TGT    AAUC-CGAUAGUCGCC---U 73
chr-1.trna467-Thr-TGT    AAUC-CGAUAGUCGCC---U 73
chr-7.trna181-Thr-TGT    AAUCGCGAUAGUCGGC---U 72
chr-3.trna273-Thr-CGT    AGCC-CCAAGGCGGGC---A 72
chr-1.trna472-Thr-CGT    AUUC-CCCCUACCGGC---U 72
chr-1.trna228-Thr-CGT    AGCC----ACUCUCACCUCA 74
chr-1.trna194-Thr-AGT    AGCCCCAAGAUGGGG----G 69
chr-7.trna463-Thr-AGT    AGCCCCAAGAUGGGG----G 69
chr-3.trna333-Thr-AGT    AGCCCCAAGAUGGGG----G 69
chr-1.trna504-Thr-AGT    AGCCCCAAGAUGGGG----G 69
                         .........70.........

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