```
                                 ......(((((((...((((........)))).(((((((...)))))))).....((((
chr-2.trna98-Thr-CGT             ------GCUUCCG-UAGCAUAGU--GGUAGUGCGUUCGCUUCGUAAGCGAAAGGUCGCGA 51
chr-2.trna91-Thr-TGT             ------GCCCCUA-UAGCUCAGU--GGUAGAGCGCCAGUCUUGUAAACUGGAGGUCUGUA 51
chr-2.trna111-Thr-TGT            ------GCCCCUA-UAGCUCAGU--GGUAGAGCGCCAGUCUUGUAAACUGGAGGUCUGUA 51
chr-3.trna133-Thr-TGT            ------GCCCCUA-UAGCUCAGU--GGUAGAGCGCCAGUCUUGUAAACUGGAGGUCUGUA 51
chr-11.trna159-Thr-TGT           ------UCCCCUA-UAGCUCAGU--GAUAGAGCACUAGUCUUGUAAACUGGAGGUCUGUA 51
chr-1.trna28-Thr-TGT             ------GCCCCUA-UAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUA 51
chr-3.trna82-Thr-TGT             ------GCCCCUA-UAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUA 51
chr-6.trna53-Thr-TGT             ------GCCCCUA-UAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUA 51
chr-4.trna78-Thr-TGT             ------GUCCCUA-UAGCUCAGU--GGUAGAGCGCCAGUCUUGUAAACUGGACGUCUGUA 51
chr-1.trna12-Thr-AGT             ------GCUUUCA-UAGAUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUCGA 53
chr-1.trna13-Thr-TGT             ------GCUUUCA-UAGCUCAGUUGGUUAGAGCACCUGUUUUGUAAGCGGGAGGUCUUGA 53
chr-1.trna22-Thr-AGT             ------GCUCUUG-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGA 53
chr-1.trna175-Thr-AGT            ------GCUCUUG-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGA 53
chr-12.trna55-Thr-AGT            ------GCUCUCG-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGA 53
chr-2.trna76-Thr-AGT             ------GCUCUCG-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGA 53
chr-2.trna109-Thr-AGT            ------GCUCUUG-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGA 53
chr-8.trna173-Thr-AGT            ------GCUCUUG-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGA 53
chr-10.trna115-Thr-AGT           ------GCUCUCG-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGA 53
chr-1.trna23-Thr-AGT             ------GCUUUCA-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGA 53
chr-8.trna7-Thr-AGT              ------GCUUUCA-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGA 53
chr-6.trna41-Thr-AGT             ------GCUUUCA-UAGCUAAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGA 53
chr-4.trna41-Thr-AGT             ------GCUCUUG-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGUGGGAGGUCUUGA 53
chr-6.trna103-Thr-AGT            ------GCUUUCA-UAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAAAUCUUGA 53
chr-4.trna39-Thr-AGT             ------ACUUUCG-UAGUUCCGUUGGUUAGAGCACCUGUUUAGUAAGUGGGAGGUCUUGC 53
chr-6.trna38-Thr-AGT             ------GCUUUCA-UAGCUCAGUUGGCUAGAGCACUCGUUCAGUAAGCAGGAGGUCUUGA 53
chr-8.trna129-Thr-TGT            ------GCCCCGCU-UAGCUUAGA-GGUUAGAGCAUCGCAUUUGUAAUGCGAUGGUCAUCG 52
chr-11.trna153-Thr-TGT           ------GUCCCGCU-UAUCUCAGA-GGUUAGAGCAUUGCAUUUGUAAUGCGAUGCUCAUCG 52
chr-11.trna69-Thr-TGT            ------GCCCCGCU-UAGCUCAGA-GGUUAGAGCAUCACAUUUGUAAUGCGAUGGUCAUCG 52
chr-10.trna24-Thr-TGT            ------GCCCCGCU-UAGCUCAGA-GGUUAGAGCAUUGCAUUUGUAAUGCGAUGGUCAUCG 52
chr-10.trna81-Thr-TGT            ------GUCUCGCU-UAGCUCAGA-GGUUAGAGCAUCGUAUUUGUAAUGCGAUGGUCAUCG 52
chr-11.trna129-Thr-TGT           ------UCCUCGCU-UAGCUCAGA-GGUUAGAGCAUCGCAUUUGUAAUGCGAUGGUCAUCG 52
chr-11.trna74-Thr-GGT            ------GCCCCGCU-UAGCUCAUA-GGUUAGAGCAUCGCAUUGGUAAUGCGAUGGUCAUCG 52
chr-1.trna144-Thr-TGT            ------GCCCCGCU-UAGCUCAGA-GGUUAGAGAAUCGCAUUUGUAAUGCGAUGGUCAUCG 52
chr-1.trna40-Thr-TGT             ------GCCCCGCU-UAGCUCAGA-GGUUAGAGCAUCGCAUUUGUAAUGCGAUGGUCAUCG 52
chr-1.trna82-Thr-TGT             ------GCCCCGCU-UAGCUCAGA-GGUUAGAGCAUCGCAUUUGUCAUGCGAUGGUCAUCG 52
chr-10.trna53-Thr-GGT            ------GCCCAUUU-UAACUCAGU--GUUAGAGUAAUGUCAUGGUAAGGCGUAAGUCAUCA 51
chr-1.trna157-Thr-TGT            ------GCCCUUU-UAACUUAGU--GGUAGGGUAACACCAUUGUAAGGCGUAAGUCAUCG 51
chr-1.trna117-Thr-GGT            ------GUCCUUU-UAACUCAGU--GGUAGAGUAACACCAUGGUAAGGCGUAAGUCAUCG 51
chr-1.trna130-Thr-GGT            ------GCCCUUU-UAACUCAGU--GGUAGAGUAACACCAUGGUAAGGCGUAAGUCAUCG 51
chr-11.trna23-Thr-GGT            ------GCCCUUU-UAACUCAGU--GGUAGAGUAAUGCCAUGGUAAGGCGUAAGUCAUCG 51
chr-6.trna12-Thr-GGT             ------GCCCUUU-UAACUCAGU--GGUAGAGUAAUGCCAUGGUAAGGCGUAAGUCAUCU 51
chr-2.trna145-Thr-GGT            ------GCCUUUU-UAACUCAGU--GGUAGAGUAACGCCAUGGUAAGGCGUAAGUCAUCG 51
chr-8.trna139-Thr-GGT            ------GCCCUUU-UAACUCAGU--GGUAGAGUAACGCCAUGGUAAGGCGUAAGUCAUCG 51
chr-8.trna147-Thr-GGT            ------GCCCUUU-UAACUGAGU--AGUAGAGUAACGCCAUGGUAAGGCGUAAGUCAUCG 51
chr-11.trna58-Thr-GGT            ------GCCAUUU-UAACUCAGU--GGUAGAGUAAAGCCAUGGUAAGGCGUAAGUCAUCG 51
chr-7.trna51-Thr-GGT             ------GCCCUUU-UAACUCAGU--GGUAGAGUAAUGCCAUGGUAAGGCGUAAUUCAUCG 51
chr-1.trna8-Thr-GGT              ------GUCCCUUUUAACUCAGU--GGUAGAGUAACGCCAUGGUAAGGCAUAAGUCAUCG 52
chr-11.trna35-Thr-GGT            ------GCCCCUUUUUAACUCAGU--UGUAGAGUAACACCAUGGUAAGGCAUAAGUCAUCG 52
chr-8.trna92-Thr-GGT             ------GCCUCUUUUAACUCAGU--GGUAGAGUAACACCAUGGUAAGGCGUAAGUCAUCG 52
chr-2.trna114-Thr-TGT            ------GCCUCUA-UAGUUCAGU--GGUGGAGCAUCAAUCUUGUAAAUCGGAGGUCUUUA 51
chr-11.trna114-Thr-TGT           GAUGUGGGCCUGCUUAGCUUAGA-GGUUAGAGCAUCGCAUUUGUAAUACGAUGGUCAUCG 59
                                 .........10........20........30........40........50.........
                                 (.......))))...)))))).))))
chr-2.trna98-Thr-CGT             GUUCGAUCCUCG---CCGGG-AGCU 72
chr-2.trna91-Thr-TGT             GUUCGAUCCUGC---AUGGG-GGCA 72
chr-2.trna111-Thr-TGT            GUUCGAUCCUGC---AUGGG-GGCA 72
chr-3.trna133-Thr-TGT            GUUCGAUCCUGC---AUGGG-GGCA 72
chr-11.trna159-Thr-TGT           GUUCGAUCCUGC---AUAGG-GGCA 72
chr-1.trna28-Thr-TGT             GUUCGAUCCUGC---GUGAG-GGCA 72
chr-3.trna82-Thr-TGT             GUUCGAUCCUGC---GUGAG-GGCA 72
chr-6.trna53-Thr-TGT             GUUCGAUCCUGC---GUGAG-GGCA 72
chr-4.trna78-Thr-TGT             GUUCGAUCCUGC---AUGGA-GGCA 72
chr-1.trna12-Thr-AGT             GUUCGACACUCA---AUGAA-AGCA 74
chr-1.trna13-Thr-TGT             GUUCGACUCUCA---AUGAA-AGCA 74
chr-1.trna22-Thr-AGT             GUUCGACUCUCA---ACAAG-AGCA 74
chr-1.trna175-Thr-AGT            GUUCGACUCUCA---ACAAG-AGCA 74
chr-12.trna55-Thr-AGT            GUUCGACUCUCA---ACGAG-AGCA 74
chr-2.trna76-Thr-AGT             GUUCGACUCUCA---ACGAG-AGCA 74
chr-2.trna109-Thr-AGT            GUUCGACUCUCA---ACAAG-AGCA 74
chr-8.trna173-Thr-AGT            GUUCGACUCUCA---ACAAG-AGCA 74
chr-10.trna115-Thr-AGT           GUUCGACUCUCA---ACGAG-AGCA 74
chr-1.trna23-Thr-AGT             GUUCGACUCUCA---AUGAA-AGCA 74
chr-8.trna7-Thr-AGT              GUUCGACUCUCA---AUGAA-AGCA 74
chr-6.trna41-Thr-AGT             GUUCGACUCUCA---AUGAA-AGCA 74
chr-4.trna41-Thr-AGT             GUUCGAUUCUCA---ACAAA-AGCA 74
chr-6.trna103-Thr-AGT            GUUCGACUCUCA---AUGAA-AGCA 74
chr-4.trna39-Thr-AGT             GUUCGACUCUCA---ACGGG-AGAG 74
chr-6.trna38-Thr-AGT             UUUCAACUCUCA---A-GAA-AGCA 73
chr-8.trna129-Thr-TGT            GUUCGAUUACGA---UAGCCGGAUU 74
chr-11.trna153-Thr-TGT           GUUCGAUUUCGA---CAGCCGGAUU 74
chr-11.trna69-Thr-TGT            GUUUGAUUUCGA---UAGCC-GGCU 73
chr-10.trna24-Thr-TGT            GUUCGAUUUCGA---UAGUC-GGCU 73
chr-10.trna81-Thr-TGT            GUUCGAUUCCGA---UAGCC-GGCU 73
chr-11.trna129-Thr-TGT           GUUCGAUUCCGA---UAGUC-GGCU 73
chr-11.trna74-Thr-GGT            GUUCGAUUCCGA---UAGCC-GGCU 73
chr-1.trna144-Thr-TGT            GUUCAAUUCCGA---UAGUC-GGCU 73
chr-1.trna40-Thr-TGT             GUUUGAUUCUGA---UAUCC-GGCU 73
chr-1.trna82-Thr-TGT             GUUCGAUUCCCA---UAGCC-GGCU 73
chr-10.trna53-Thr-GGT            GUUCAAAUCCGA---UAAGG-GGCU 72
chr-1.trna157-Thr-TGT            GUUCAAAUCCGA---UAAAG-GGCU 72
chr-1.trna117-Thr-GGT            GUUCAAAUCCGA---UAAGG-GGCU 72
chr-1.trna130-Thr-GGT            GUUCAAAUCUGA---UAAGG-GGCU 72
chr-11.trna23-Thr-GGT            GUUCAAAUCCGU---UAAAG-GGCU 72
chr-6.trna12-Thr-GGT             GUUCAAAUCCGA---UAAGG-GGCU 72
chr-2.trna145-Thr-GGT            GUUCAAAUCCGA---UAAGG-GGCU 72
chr-8.trna139-Thr-GGT            GUUCAAAUACGA---UAAGG-GGCU 72
chr-8.trna147-Thr-GGT            GUUCAAAUCCGA---UAAGG-GGCU 72
chr-11.trna58-Thr-GGT            GUUCAAAUCCGA---UAAGG-GGCU 72
chr-7.trna51-Thr-GGT             GUUCAAAUCCGA---UAAAG-AGCU 72
chr-1.trna8-Thr-GGT              GUUCAAAUCCGA---UAAGG-GGCU 73
chr-11.trna35-Thr-GGT            GUUCAAAUCCGA---UAAGG-GGCU 73
chr-8.trna92-Thr-GGT             GUUCAAAUUUAA---UAAGG-GGCU 73
chr-2.trna114-Thr-TGT            GUUUGAUCCUGCAGGUCAGG-GGCU 75
chr-11.trna114-Thr-TGT           AUUCAAUUCCGA----UAGCCAUCU 80
                                 .........70........80....
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