```
                        (((((((..(((.........))).(((((.......)))))).....(((((.......
chr-1.trna56-Gln-TTG    UGGGGUGUGGCCAAGUGG-UAAGGCAACAGGUUUUGGUCCCGUUACUCGAAGGUUCGAAU 59
chr-6.trna38-Gln-TTG    UGGGGCGUGAUCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCGUUACUCGGAGGUUCGAAU 59
chr-5.trna189-Gln-TTG   UGGGGCGUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCACGUUACUCGGAGGUUCGAAU 59
chr-1.trna445-Gln-TTG   UGGGGCGUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUACCGUUACUCGGAGGUUCGAAU 59
chr-5.trna200-Gln-TTG   UGGGGCGUGGCCAAGUGG-UAAGGCAGCUGGUUUUGGUCCCGUUACUCGGAGGUUGGAAU 59
chr-5.trna355-Gln-TTG   UGGGGCGUGGCCAAGUGA-UAAGGUAGUGGGUUUUGGUCCCGUUACUCGUAGGUUCGAAU 59
chr-1.trna424-Gln-TTG   UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-3.trna69-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-6.trna273-Gln-TTG   UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-6.trna170-Gln-TTG   UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-2.trna100-Gln-TTG   UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-1.trna22-Gln-TTG    UGGAAUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGUCAUGCAAAGGUUCGAAU 59
chr-1.trna152-Gln-TTG   UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-6.trna223-Gln-TTG   UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAGAGGUUCGAAU 59
chr-2.trna403-Gln-TTG   UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-4.trna127-Gln-TTG   UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-4.trna87-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGAUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-1.trna427-Gln-TTG   UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-3.trna242-Gln-TTG   UGGAGUAUAGCCAAGUGG-UAAGGCAUCGUUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-2.trna258-Gln-TTG   UGGAGUAUAGCCAAAUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-2.trna320-Gln-TTG   GGUUCUAUGGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna183-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna186-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCAAAU 59
chr-3.trna188-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCAAAU 59
chr-3.trna433-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCAAAU 59
chr-3.trna435-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCAAAU 59
chr-3.trna438-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCAAAU 59
chr-3.trna180-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna436-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna437-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna434-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna182-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna184-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna431-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna430-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna429-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna185-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna187-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-5.trna236-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna439-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna432-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCAAAU 59
chr-3.trna181-Gln-TTG   GGUUUCGUAGUAUAGUGGUUAGCACUCCAGACUUUGAAUCUAGCG-ACCUGGGUUUGAAU 59
chr-3.trna189-Gln-TTG   GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-6.trna305-Gln-TTG   GG---CGUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCGUUACUCGGAGGUUCGAAU 56
                        .........10........20........30........40........50.........

                        ))))))))))).
chr-1.trna56-Gln-TTG    CCUUCCGUCCCAG 72
chr-6.trna38-Gln-TTG    CCUUCCGUCCCAG 72
chr-5.trna189-Gln-TTG   CCUUCCGUCCCAG 72
chr-1.trna445-Gln-TTG   CCUUCCAUCCCAG 72
chr-5.trna200-Gln-TTG   CCUUCCGUCCCAG 72
chr-5.trna355-Gln-TTG   CCUUUCGUCCCAG 72
chr-1.trna424-Gln-TTG   CCUUUUACUCCAG 72
chr-3.trna69-Gln-TTG    CCUUUUACUCCAG 72
chr-6.trna273-Gln-TTG   CCUUUUACUCCAG 72
chr-6.trna170-Gln-TTG   CCUUUUACUCCAG 72
chr-2.trna100-Gln-TTG   CCUUUUACUCUAG 72
chr-1.trna22-Gln-TTG    CCUUUUACUCCAG 72
chr-1.trna152-Gln-TTG   CCUUUUACUCCAG 72
chr-6.trna223-Gln-TTG   CCUUUUACUCCAG 72
chr-2.trna403-Gln-TTG   CCUUUUACUCCAG 72
chr-4.trna127-Gln-TTG   CCUUUUACUCCAG 72
chr-4.trna87-Gln-TTG    CCUUUUACUCCAG 72
chr-1.trna427-Gln-TTG   CCUUUUACUCCUG 72
chr-3.trna242-Gln-TTG   CCUUUUACUCCAG 72
chr-2.trna258-Gln-TTG   CCUU-UACUCCAG 71
chr-2.trna320-Gln-TTG   CCCGGUAGGACCU 72
chr-3.trna183-Gln-TTG   CCCUGCGAGACCU 72
chr-3.trna186-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna188-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna433-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna435-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna438-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna180-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna436-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna437-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna434-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna182-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna184-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna431-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna430-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna429-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna185-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna187-Gln-TTG   CCCGGCGAGACCU 72
chr-5.trna236-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna439-Gln-TTG   UCCGGCGAGACCU 72
chr-3.trna432-Gln-TTG   CCGGGCGAGACCU 72
chr-3.trna181-Gln-TTG   CCCGGCGAGACCU 72
chr-3.trna189-Gln-TTG   CCCGGCGAGACCU 72
chr-6.trna305-Gln-TTG   CCUUCCGUGAACU 69
                        .........70..
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