```
                         (((((((..((((........)))).(((((.......)))))).....(((((.......
chr-3.trna129-Gln-TTG    UAGGGCGUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCGUUACUCGGAGGUUCGAAU 59
chr-3.trna76-Gln-TTG     UGGGGCAUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCGUUACUCGGAGGUUCGAAU 59
chr-9.trna109-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-1.trna158-Gln-TTG    UGUGGCGUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCGUUACUCGGAGGUUCGAAU 59
chr-8.trna24-Gln-TTG     UGGGGCAUAGCCAAGCGG-UAAGGCAACGAGUUUUGGUCCCGUUACUUGGAGGUUCGAAU 59
chr-10.trna69-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAGCACUUCAGACUUUGAAUCUGGCG-ACCUGGGUUCAAAU 59
chr-5.trna63-Gln-TTG     GGUUCCAUGGUAUAGUGGUUAGCACUGUAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-4.trna84-Gln-TTG     GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4.trna87-Gln-TTG     GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4.trna89-Gln-TTG     GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-5.trna61-Gln-TTG     GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-5.trna62-Gln-TTG     GGUUCCAUGGUGUAGUGGUUAUCACUCUAGACUUUGAAUCUAGCA-ACCUGGGUUCGAAU 59
chr-4.trna83-Gln-TTG     GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAGU 59
chr-4.trna85-Gln-TTG     GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAGU 59
chr-4.trna86-Gln-TTG     GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAGU 59
chr-4.trna88-Gln-TTG     GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAGU 59
chr-5.trna64-Gln-TTG     GGUUCCAUGGUGUAGUAGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-1.trna137-Gln-TTG    GGUUUCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna83-Gln-TTG     GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-5.trna75-Gln-TTG     GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-10.trna98-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-8.trna82-Gln-TTG     GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-1.trna120-Gln-CTG    GGUUCCAUGGUCUAGUGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-6.trna109-Gln-CTG    GGUUCCAUGGUCUAGUGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-3.trna143-Gln-CTG    GGUCCCAUGGUCUAGUGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-1.trna119-Gln-CTG    GGUCCCAUGGUCUAGUGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-5.trna99-Gln-CTG     GGUCCCAUGGUCUAGUGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-8.trna96-Gln-CTG     GGUCCCAUGGUCUAGUGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-4.trna93-Gln-CTG     GGUCCCAUGGUCUAGCGGUUAGGACAUUAGACUCUGAAUCUAGUA-ACCCGAGUUCAAAU 59
chr-1.trna203-Gln-CTG    GGUCCCAUGGUCUAGCGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-3.trna1-Gln-CTG      GGUUCCAUGGUCUAGCGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-8.trna170-Gln-CTG    GGUUCCAUGGUCUAGCGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-2.trna115-Gln-CTG    GGUCCCAUGGUCUAGCGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-5.trna165-Gln-CTG    GGUCCUAUGGUCUAGCGGUUAGGACAUUGGACUCUGAAUCCAGUA-ACCCGAGUUCAAAU 59
chr-2.trna68-Gln-TTG     GGUUGUUUCGUCUAGUGG-UAGGAUUCUUGCUUUUGGUUC-AAAGGCCGUAAGUUCAAUU 58
chr-1.trna168-Gln-TTG    ACUUGUCUAGCUCAGUCGGUAGAGUGCAAGGUUUUGAACCUUGUGGUUGUGGGUUCAAGC 60
chr-1.trna253-Gln-CTG    GCUUGUCUAGCUCAUUCGGUAGAGCGUAAGACUCUGAAUCUUGAGGUCUUGGGUUCGAGC 60
chr-7.trna101-Gln-TTG    G----CAUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCGUUACUCGAG-GUUCGAAU 54
                         .........10........20........30........40........50.........

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chr-3.trna129-Gln-TTG    CCUUUCGUCCCAG 72
chr-3.trna76-Gln-TTG     CCUUUCGUCCCAG 72
chr-9.trna109-Gln-TTG    CCUUUUACUCCAG 72
chr-1.trna158-Gln-TTG    CCUUUCGUCCCAG 72
chr-8.trna24-Gln-TTG     CCUUUCGUCCUAG 72
chr-10.trna69-Gln-TTG    CCCGGUGGAACCU 72
chr-5.trna63-Gln-TTG     CCCGAUGGGACCU 72
chr-4.trna84-Gln-TTG     CCCGGUGGGACCU 72
chr-4.trna87-Gln-TTG     CCCGGUGGGACCU 72
chr-4.trna89-Gln-TTG     CCCGGUGGGACCU 72
chr-5.trna61-Gln-TTG     CCCGGUGGGACCU 72
chr-5.trna62-Gln-TTG     CCCGGUGGGACCU 72
chr-4.trna83-Gln-TTG     CCCAGUGGGACCU 72
chr-4.trna85-Gln-TTG     CCCAGUGGGACCU 72
chr-4.trna86-Gln-TTG     CCCAGUGGGACCU 72
chr-4.trna88-Gln-TTG     CCCAGUGGGACCU 72
chr-5.trna64-Gln-TTG     CCCGGUGGGACCU 72
chr-1.trna137-Gln-TTG    CCCGGUGAGACCU 72
chr-3.trna83-Gln-TTG     CCCGGUGGGACCU 72
chr-5.trna75-Gln-TTG     CCCGGUGGAACCU 72
chr-10.trna98-Gln-TTG    CCCGGUGGGACCU 72
chr-8.trna82-Gln-TTG     CCCGGUGGAACCU 72
chr-1.trna120-Gln-CTG    CUCGGUGGGACCU 72
chr-6.trna109-Gln-CTG    CUCGGUGGAACCU 72
chr-3.trna143-Gln-CTG    CUCGGUGGGACCU 72
chr-1.trna119-Gln-CTG    CUCGGUGGGACCU 72
chr-5.trna99-Gln-CTG     CUCGGUGGGACCU 72
chr-8.trna96-Gln-CTG     CUCGGUGGGACCU 72
chr-4.trna93-Gln-CTG     CUCGGUGGGACCU 72
chr-1.trna203-Gln-CTG    CUCGGUGGGACCU 72
chr-3.trna1-Gln-CTG      CUCGGUGGAACCU 72
chr-8.trna170-Gln-CTG    CUCGGUGGAACCU 72
chr-2.trna115-Gln-CTG    CUCGGUGGGACCU 72
chr-5.trna165-Gln-CTG    CUCGGUAGGACCU 72
chr-2.trna68-Gln-TTG     CUGACAACAUCCC 71
chr-1.trna168-Gln-TTG    CCUAUGGUGGGUG 73
chr-1.trna253-Gln-CTG    CCCAUGGUAGGCG 73
chr-7.trna101-Gln-TTG    CCUUU--GAAACA 65
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