```
                         (((((((..(((.........))).(((((.......)))))).....(((((.......
chr-4.trna51-Gln-TTG     GCGAGCGUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCGUUACUCGGAGGUUCGAAU 59
chr-2.trna1-Gln-TTG      UGGGGCAUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCGUUACUCGGAGGUUCGAAU 59
chr-1.trna88-Gln-TTG     UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-1.trna498-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-2.trna540-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-2.trna543-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-3.trna518-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-7.trna442-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-3.trna277-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-6.trna138-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-1.trna188-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUAUCGGCAUGCAAAGGUUCGAAU 59
chr-7.trna532-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGGGUUGCAAAGGUUCGAAU 59
chr-4.trna393-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUUGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-1.trna3-Gln-TTG      UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-4.trna494-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-6.trna382-Gln-TTG    UGGAGUAUAGCCAAGUGG-UAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-3.trna93-Gln-TTG     UGGAGUAUAGCCAAGUGG-UAAGGCAUUGGUUUUUGGUACCGGCAUGCAAAGGUUCAAAU 59
chr-2.trna476-Gln-TTG    UGGAGUAUAUCCAAGUGG-UAAGGCAUCAGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-2.trna251-Gln-TTG    UGGGGCGUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCGUUACUCGGAGGUUCGAAU 59
chr-3.trna165-Gln-TTG    GGUUUUGGAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-2.trna495-Gln-TTG    GGUUCUAUGGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-7.trna254-Gln-TTG    GGUUCUAUGGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna397-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna400-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna167-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCAAAU 59
chr-3.trna404-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCAAAU 59
chr-3.trna160-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna162-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna398-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna163-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna168-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna173-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna170-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna396-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGUG-ACCUGGGUUCGAAU 59
chr-3.trna406-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-3.trna401-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-3.trna164-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna166-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna402-Gln-TTG    GGUUUCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3.trna171-Gln-TTG    GGUUUCGUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGUG-ACCUGGUUUCAAAU 59
chr-7.trna278-Gln-TTG    -G---CGUAGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCGUUACUCGGAGGUUCGAAU 55
chr-2.trna234-Gln-TTG    GG---UGUGGCCAAGUGG-UAAGGCAGCGGGUUUUGGUCCCUUUACUCGGAGGUUCGAAU 56
                         .........10.........20.........30.........40.........50.........

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chr-4.trna51-Gln-TTG     CCUUCCGUCCCAGA----UUGUU 78
chr-2.trna1-Gln-TTG      CCUUCCCUCCCAGAUUGUUUCAA 82
chr-1.trna88-Gln-TTG     CCUUU----------UACUCCAG 72
chr-1.trna498-Gln-TTG    CCUUU----------UACUCCAG 72
chr-2.trna540-Gln-TTG    CCUUU----------UACUCCAG 72
chr-2.trna543-Gln-TTG    CCUUU----------UACUCCAG 72
chr-3.trna518-Gln-TTG    CCUUU----------UACUCCAG 72
chr-7.trna442-Gln-TTG    CCUUU----------UACUCCAG 72
chr-3.trna277-Gln-TTG    CCUUU----------UACUCCAG 72
chr-6.trna138-Gln-TTG    CCUUU----------UACUCUAG 72
chr-1.trna188-Gln-TTG    CCUUG----------UACUCCAA 72
chr-7.trna532-Gln-TTG    CCUUU----------UACUCCAG 72
chr-4.trna393-Gln-TTG    CCUUU----------UACUCCAC 72
chr-1.trna3-Gln-TTG      CCUUU----------UACUCCAG 72
chr-4.trna494-Gln-TTG    CCUUU----------UACUCCAG 72
chr-6.trna382-Gln-TTG    CCUUU----------UACUCCAG 72
chr-3.trna93-Gln-TTG     CCUUU----------UACUCCAG 72
chr-2.trna476-Gln-TTG    CCUUU----------UACUCCAG 72
chr-2.trna251-Gln-TTG    CCUUC----------CAUCCCAG 72
chr-3.trna165-Gln-TTG    CCCGG----------CGAGACCU 72
chr-2.trna495-Gln-TTG    CCCGG----------UAGGACCU 72
chr-7.trna254-Gln-TTG    CCCGG----------UAGGACCU 72
chr-3.trna397-Gln-TTG    CCCUG----------CGAGACCU 72
chr-3.trna400-Gln-TTG    CCCUG----------CGAGACCU 72
chr-3.trna167-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna404-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna160-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna162-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna398-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna163-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna168-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna173-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna170-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna396-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna406-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna401-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna164-Gln-TTG    CCCGG----------GGAGACCU 72
chr-3.trna166-Gln-TTG    CCCAG----------CGAGACCU 72
chr-3.trna402-Gln-TTG    CCCGG----------CGAGACCU 72
chr-3.trna171-Gln-TTG    CCAGG----------CGAGACCU 72
chr-7.trna278-Gln-TTG    CUUUCCA--------UCGAAACU 70
chr-2.trna234-Gln-TTG    CCUUCCA--------UGGGUA-- 69
                         .........70.........80..
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