```
                         (((((((.((((.........)))))(((((.......)))))).....(((((.......
chr-2C.trna92-Gln-TTG    UGGGGGCGUGGCCAAGUGGUAA-GGCAGCGGGUUUUGGUCCCGUUACUCGGAGGUUCGAAU 59
chr-2B.trna71-Gln-TTG    UGGGGCGUGGCCAAGUGGUAA-GGCAGCGGAUUUUGGUCCCGUUACUCGGAGGUUUGAAU 59
chr-6B.trna12-Gln-TTG    UGGGGUGUGGCCAAGUGGUAA-GGCAGCGGAUUUUGGUCCCGUUAUUCGGAGGUUUGAAU 59
chr-1A.trna22-Gln-TTG    UGGAGUAUAGCCAAGUGGUAA-GGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCAAAU 59
chr-7D.trna39-Gln-TTG    UGGAGUAUAGCCAAGUGGUAA-GGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCAAAU 59
chr-1B.trna17-Gln-TTG    UGGAGUAUAGCCAAGUGGUAA-GGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUGAAU 59
chr-1D.trna98-Gln-TTG    UGGAGUAUAGCCAAGUGGUAA-GGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUGAAU 59
chr-4C.trna8-Gln-TTG     UGGAGUAUAGCCAAGUGGUAA-GGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCGAAU 59
chr-1C.trna60-Gln-TTG    UGGAUUAUAGCCAAGUGGUAA-GGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCAAAU 59
chr-1A.trna21-Gln-TTG    UGGAUUAUAGCCAAGUGGUAA-GGCAUCGGUUUUUGGUACCGGCAUGCAAAGGUUCAAAU 59
chr-1A.trna53-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-1B.trna41-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-5C.trna22-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-4B.trna59-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-5D.trna44-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-4C.trna57-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-1D.trna74-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-4D.trna62-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-5A.trna17-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3A.trna5-Gln-TTG     GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3C.trna73-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3C.trna74-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-5D.trna43-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-3D.trna12-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-5B.trna16-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-4A.trna27-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-7D.trna45-Gln-TTG    GGUUCCAUGGUGUAGUGGUAAUCACUCCAGACUUUGAAUCUGGUA-ACCUGGGUUCGAAU 59
chr-7D.trna46-Gln-TTG    GGUUCCAUGGUGUAGUGGUAAUCACUCCAGACUUUGAAUCUGGUA-ACCUGGGUUCGAAU 59
chr-7D.trna24-Gln-TTG    GGUUCCAUGGUGUAGUGGUAAUCACUCCAGACUUUGAAUCUGGUA-ACCUGGGUUCGAAU 59
chr-7C.trna39-Gln-TTG    GGUUCCAUGGUGUAGUGGUAAUCACUCCAGACUUUGAAUCUGGUA-ACCUGGGUUCGAAU 59
chr-7A.trna58-Gln-TTG    GGUUCCAUGGUGUAGUGGUAAUCACUCCAGACUUUGAAUCUGGUA-ACCUGGGUUCGAAU 59
chr-7A.trna53-Gln-TTG    GGUUCCAUGGUGUAGUGGUAAUCACUCCAGACUUUGAAUCUGGUA-ACCUGGGUUCGAAU 59
chr-4A.trna31-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4B.trna30-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4B.trna31-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4C.trna27-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4C.trna28-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4D.trna34-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4D.trna35-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4A.trna30-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-4B.trna26-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-4B.trna28-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-4D.trna33-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-4A.trna32-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4C.trna26-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-5D.trna62-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-5A.trna1-Gln-TTG     GGUUCCAUGGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-4D.trna32-Gln-TTG    GGUUCCAUGGUGUAGCGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-4A.trna29-Gln-TTG    GGUUCCAUGGUGUAGCGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-4C.trna25-Gln-TTG    GGUUCCAUGGUGUAGCGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-4B.trna29-Gln-TTG    GGUUCCAUGGUGUAGUGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCAAAU 59
chr-4A.trna26-Gln-TTG    GGUUCCAUAGUGUAGUGGUUAGCACUCCAGACUUUGAAUCUGGCG-ACCUGGGUUCGAAU 59
chr-4B.trna25-Gln-TTG    GGUUCCAUGAUGUAGCGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-4B.trna27-Gln-TTG    GGUUCCAUGAUGUAGCGGUUAUCACUCCAGACUUUGAAUCUGGCA-ACCUGGGUUCGAAU 59
chr-6B.trna31-Gln-TTG    GGGCAUUUGGUCUAGGGGU-AUGAUUCUUGAUUUUGGAUCUAGAGGUCUCGAGUUCGAUU 59
                         .........10........20........30........40........50.........

                         )))))))))))).
chr-2C.trna92-Gln-TTG    CCUUCCAUCCUAG 72
chr-2B.trna71-Gln-TTG    CCUUCUUUCCUAG 72
chr-6B.trna12-Gln-TTG    CCAUCUGUCCUAG 72
chr-1A.trna22-Gln-TTG    CCUUUUACUCCAG 72
chr-7D.trna39-Gln-TTG    CCUUUUACUCCAG 72
chr-1B.trna17-Gln-TTG    CCUUUUACUCCAG 72
chr-1D.trna98-Gln-TTG    CCUUUUACUCCAG 72
chr-4C.trna8-Gln-TTG     CCUUUUACUCCAG 72
chr-1C.trna60-Gln-TTG    CCUUUUACUCCAG 72
chr-1A.trna21-Gln-TTG    CCUUUUACUCCAG 72
chr-1A.trna53-Gln-TTG    CCCGGUGGGACCU 72
chr-1B.trna41-Gln-TTG    CCCGGUGGGACCU 72
chr-5C.trna22-Gln-TTG    CCCGGUGGGACCU 72
chr-4B.trna59-Gln-TTG    CCCGGUGGGACCU 72
chr-5D.trna44-Gln-TTG    CCCGGUGGGACCU 72
chr-4C.trna57-Gln-TTG    CCCGGUGGGACCU 72
chr-1D.trna74-Gln-TTG    CCCGGUGGGACCU 72
chr-4D.trna62-Gln-TTG    CCCGGUGGGACCU 72
chr-5A.trna17-Gln-TTG    CCCGGUGGGACCU 72
chr-3A.trna5-Gln-TTG     CCCGGUGGGACCU 72
chr-3C.trna73-Gln-TTG    CCCGGUGGGACCU 72
chr-3C.trna74-Gln-TTG    CCCGGUGGGACCU 72
chr-5D.trna43-Gln-TTG    CCCGGUGGGACCU 72
chr-3D.trna12-Gln-TTG    CCCGGUGGGACCU 72
chr-5B.trna16-Gln-TTG    CCCGGUGGGACCU 72
chr-4A.trna27-Gln-TTG    CCCGGUGGGACCU 72
chr-7D.trna45-Gln-TTG    CCCGGUGGGACCU 72
chr-7D.trna46-Gln-TTG    CCCGGUGGGACCU 72
chr-7D.trna24-Gln-TTG    CCCGGUGGGACCU 72
chr-7C.trna39-Gln-TTG    CCCGGUGGGACCU 72
chr-7A.trna58-Gln-TTG    CCCGGUGGGACCU 72
chr-7A.trna53-Gln-TTG    CCCGGUGGGACCU 72
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chr-4C.trna27-Gln-TTG    CCCGGUGGGACCU 72
chr-4C.trna28-Gln-TTG    CCCGGUGGGACCU 72
chr-4D.trna34-Gln-TTG    CCCGGUGGGACCU 72
chr-4D.trna35-Gln-TTG    CCCGGUGGGACCU 72
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chr-4C.trna26-Gln-TTG    CCCAGUGGGACCU 72
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chr-5A.trna1-Gln-TTG     CCCGGUGGGACCU 72
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chr-4A.trna26-Gln-TTG    C-CGGUGGGACCU 71
chr-4B.trna25-Gln-TTG    CCCGGUGGGACCU 72
chr-4B.trna27-Gln-TTG    CCCGGUGGGACCU 72
chr-6B.trna31-Gln-TTG    CUCGGAAUGCCCC 72
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