```
                                 .........(((((((..(((((....)))))))))))).............(((((
chr-1.trna13-Gln-TTG     ------GGAAAAGUACUAGCUCAAGUGGUUAAGAGUACUUUGAUUGUGUGAGAGGACUUG 54
chr-6.trna6-Gln-TTG      ------GGAAAAGUACUAGCUCAAGUGGUUGAGAGUACUUUGGUUGUGUGAGAGGACUUG 54
chr-6.trna7-Gln-TTG      ------GGAAAAGUACUAGCUCAAGUGGUUGAGAGUACUUUGGUUGUGUGAGAGGACUUG 54
chr-6.trna116-Gln-TTG    ------GGAAAAGUACUAGCUCAAGUGGUUGAGAGUACUUUGGUUGUAUGAGAGGACUUG 54
chr-3.trna169-Gln-TTG    ------GGAAAAGUACUAGCUCAAGUGGUUGAGAGUACUUUGUUUGUGUGAGAGGACUUG 54
chr-1.trna16-Gln-TTG     ------GGAAAAGUACUAGCUCAAGUGGUUGAGAGUACUUUGAUUGUGUGAGAGGACUUG 54
chr-10.trna4-Gln-TTG     ------GGAAAAGUACUAGCUCAAGUGGUUGAGAGUACUUUGAUUGUGUGAGAGGACUUG 54
chr-11.trna151-Gln-TTG   ------GGAAAAGUACUAGCUUAAGUGGUUGAGAGUACUUUGUUUGUGUGAGAGGACUUA 54
chr-10.trna138-Gln-TTG   ------GGCAAAGUGCUAGCUCAUGUGGUUGAGAGUACUUUGAUUGUGUGAGAGGACUUG 54
chr-6.trna1-Gln-TTG      ------GGCAAAGUGCUAGCUCAUGUGGUUGAGAGCACUUUGAUUGUGUGAGAGGACUUG 54
chr-11.trna142-Gln-TTG   ------GGAAAAGUACUAGCUCAAGUGGUUGAAAGUACUUUGUUUGUGUGAGAGGAUUUG 54
chr-3.trna149-Gln-TTG    ------GGAAAAGUACUAGCUCAAAUGGUUGAGAGUACUUUGAUUGUGUGAGAGGACAUG 54
chr-10.trna142-Gln-TTG   ------GGAAAAUUACUAGCUCAAGUGGUUGAGAGUACUUUGAUUGUGAGAGAGGACUUA 54
chr-10.trna16-Gln-TTG    ------GGAAAAGUACUAGCUUAAUUGG-UGAGAGUACUUUGAUUGUGCGAGAGGACUUA 53
chr-10.trna13-Gln-TTG    ---------AAAGUACUAGCUCAAUUGG-UGAGAGUACUUUGAUUGUGUGAGAGGACUUG 50
chr-8.trna11-Gln-TTG     ---------AAAGUACUAGCUCAAUUGGUUGAGAGUACUUUGAUUGUGUGAGAGGACUUG 51
chr-3.trna52-Gln-TTG     -GACGUGGAAAAGUGCUAGCUCAUGUGGUUGAGAGUACUUUGAUUGUGUGAGAGGACUUG 59
chr-4.trna6-Gln-TTG      -GACGUGGAAAAGUGCUAGCUCAAGUGGUUGAGAGUACUUUGAUUGUGUGAGAGGACUUG 59
chr-1.trna119-Gln-TTG    -GACAUGGAAAAGUACUAGCUCAAGUGGUUGAGAGUACUUUGAUUGUGUGAGAGGACUUA 59
chr-8.trna35-Gln-TTG     -GACGUGGAAAAGUACUAGCUCAAGUGGUUGAGAGUACUUUGUUUGUGUUAGAGGACUUG 59
chr-11.trna43-Gln-TTG    -GACGUGAAAAAGUAUUAGCUCAAGUGGUUGAGAGUACUUCGUUUGUGUGAGAGGACUUG 59
chr-3.trna153-Gln-TTG    -GACGUGGAAAAGUACUAGCUCAUGUGGUUGAGAGUACUUUGGUUGAGUGAGAGGACCUG 59
chr-5.trna18-Gln-TTG     -GACGUGGAAAAAUACUAGCUUAAGUGGUUGAGAGUACUUUGAUUGUAUAAGAGGACUUG 59
chr-3.trna38-Gln-TTG     UGAUGUGGAAAAGUACUAGCUCAAAUGGUUGAGAGUACUUUGGUUGUGUGAGAGGACCUA 60
chr-2.trna19-Gln-TTG     ---------AACGUACUAGCUCAUGUGGUUGAGAGUACUUUGAUUGUGUGAGAGGACUUG 51
chr-8.trna8-Gln-TTG      ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-1.trna3-Gln-TTG      ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-1.trna5-Gln-TTG      ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-3.trna1-Gln-TTG      ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-3.trna17-Gln-TTG     ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-9.trna38-Gln-TTG     ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-5.trna105-Gln-TTG    ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-10.trna26-Gln-TTG    ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-6.trna87-Gln-TTG     ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-1.trna4-Gln-TTG      ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-3.trna2-Gln-TTG      ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACUUG 50
chr-10.trna25-Gln-TTG    ------GGUUCUAUGGU--GU--AGUGGCUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
chr-1.trna6-Gln-TTG      ------GGUUCUAUGGU--GU--AGUGGUUAGCACUUUGGACUUUGAAUCCAGUGACCUG 50
chr-3.trna22-Gln-TTG     ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCAGGACUUUGAAUCCUGCGACCUG 50
chr-1.trna2-Gln-TTG      ------GGUUCUAUGGU--GU--AGUGGUUAGCACUUUGGACUUUGAAUCCAACAACCUG 50
chr-1.trna7-Gln-TTG      ------GGUUCUAUGGU--GU--AGUGGUUAGCACUCUGGACUUUGAAUCCAGCGACCUG 50
                         .........10........20........30........40........50.........

                         ((.......)))))))).......
chr-1.trna13-Gln-TTG     GGUUCGAGUCCUAAGUAUGCC-A 76
chr-6.trna6-Gln-TTG      GGUUCGAGUCCUAAGUAUGCC-A 76
chr-6.trna7-Gln-TTG      GGUUCGAGUCCUAAGUAUGCC-A 76
chr-6.trna116-Gln-TTG    GGUUCGAAUCCUAAGUAUGCC-A 76
chr-3.trna169-Gln-TTG    GGUUCGAGUCCUAAGUAUGCC-A 76
chr-1.trna16-Gln-TTG     GGUUCGAGUCCUAAGUAUGCC-A 76
chr-10.trna4-Gln-TTG     GGUUCGAGUCCUAAGUAUGCC-A 76
chr-11.trna151-Gln-TTG   GGUUCGAGUCCUAUGUAUGCC-A 76
chr-10.trna138-Gln-TTG   GGUUCGAGUCCUAAGUAUGUC-A 76
chr-6.trna1-Gln-TTG      GGUUCGAGUCCUAUGCAUGCU-A 76
chr-11.trna142-Gln-TTG   GGUUCGAGUCCUAUGUAUUCC-A 76
chr-3.trna149-Gln-TTG    GGUUCGAGUCCUAUGUAUGCC-A 76
chr-10.trna142-Gln-TTG   GGUUCGAGUCCUAUGUAUGCC-A 76
chr-10.trna16-Gln-TTG    GGUUCGAGUCCUAUGUAUGCC-A 75
chr-10.trna13-Gln-TTG    GGUUCAAGUCCUAAGUAUAUC-A 72
chr-8.trna11-Gln-TTG     GGUUCGAGUCCUAUGUAUGUU-A 73
chr-3.trna52-Gln-TTG     GGUUCGAGUCCUAAGUAUGUC-A 81
chr-4.trna6-Gln-TTG      GGUUCGAGUCCUAAGUAUGUC-A 81
chr-1.trna119-Gln-TTG    GGUUCAAGUCCUAUGUAUGUC-A 81
chr-8.trna35-Gln-TTG     GGUUCGAGUCCUAUGUAUGUC-A 81
chr-11.trna43-Gln-TTG    GGUUCGAGUCCUAAGUAUGUC-A 81
chr-3.trna153-Gln-TTG    GGUUCGAGUCCUAAGUAUGUC-A 81
chr-5.trna18-Gln-TTG     GGUUCGAGUCCUAUGUAUGUC-A 81
chr-3.trna38-Gln-TTG     GGUUCAAGUCCUAUGUAUGUCAA 83
chr-2.trna19-Gln-TTG     GGUUCGAGUCCCAAGUAUGCC-A 73
chr-8.trna8-Gln-TTG      GGUUCGACUCCC-GGUACGACCU 72
chr-1.trna3-Gln-TTG      GGUUCGACUCCC-GGUAGGACCU 72
chr-1.trna5-Gln-TTG      GGUUCGACUCCC-GGUAGGACCU 72
chr-3.trna1-Gln-TTG      GGUUCGACUCCC-GGUAGGACCU 72
chr-3.trna17-Gln-TTG     GGUUCGACUCCC-GGUAGGACCU 72
chr-9.trna38-Gln-TTG     GGUUCGACUCCC-GGUAGGACCU 72
chr-5.trna105-Gln-TTG    GGUUCGACUCCC-GGUAGGACCU 72
chr-10.trna26-Gln-TTG    GGUUCGACUCCC-GGUAGGACCU 72
chr-6.trna87-Gln-TTG     GGUUCGACUCCC-GGUAGGACCU 72
chr-1.trna4-Gln-TTG      GGUUCAACUCCC-GGUAGGACCU 72
chr-3.trna2-Gln-TTG      GGUUCGACUCCC-GGUAGGACCU 72
chr-10.trna25-Gln-TTG    GGUUCGACUCCC-GGUAGGACCU 72
chr-1.trna6-Gln-TTG      GGUUCGACUCCC-GGUAGGACCU 72
chr-3.trna22-Gln-TTG     GGUUCGACUCCC-GGUAGGACCU 72
chr-1.trna2-Gln-TTG      GGUUCGACUCCC-GGUAGGACCU 72
chr-1.trna7-Gln-TTG      GGUUCGACUCUC-GGUACGACCU 72
                         .........70........80..
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