```
                          (((.((((..((((........)))).(((((.......)))))).....(((((.....
chr-2.trna42-Phe-GAA      GUC-AGGAUAGCUUAUUUGGUAGAGCAGAGGACUGAAAAUCCUCAUGUCACCAGUUCAAA 59
chr-2.trna43-Phe-GAA      GUC-AGGAUAGCUUAUUUGGUAGAGCAGAGGACUGAAAAUCCUCAUGUCACCAGUUCAAA 59
chr-4.trna185-Phe-GAA     GUC-AGAAUAGCUCAGUUGGUAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-2.trna468-Phe-GAA     GUC-AGGAUAGCUUAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-1.trna392-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGCCACCAGUUCAAA 59
chr-2.trna526-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-2.trna582-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-7.trna576-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-3.trna499-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-4.trna34-Phe-GAA      GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-4.trna278-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-7.trna348-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-4.trna497-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-7.trna187-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-3.trna479-Phe-GAA     GUC-AGGAUAGCUCGGUUGGUAGAACAGAGGACUGAAAAUCCUUGUGUCGCCAGUUCAAA 59
chr-6.trna416-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAAAGGACUGAAAAUCCUUGUGUCACCAGUUCAAA 59
chr-2.trna169-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGACUGAAAAUUCUCGUGUCACCAGUUCAAA 59
chr-3.trna193-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAAA 59
chr-4.trna442-Phe-GAA     GUC-GGGAUAGCUCAGUUGGUAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAUUUCAAA 59
chr-4.trna444-Phe-GAA     GUC-GGGAUAGCUCAGUUGGUAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAUUUCAAA 59
chr-6.trna210-Phe-GAA     GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGGAUUGAAAAUCCUCGUGUCA-CAGUUCAAA 58
chr-3.trna97-Phe-GAA      GUC-AGGAUAGCUCAGUUGGUAGAGCAGAGCACUGAAAACACUCGUCUCACCAGUUCAAA 59
chr-4.trna27-Phe-GAA      GAUCAGGAUAGCUCAGUUGGUAGAGCAGAGGACUGAAAAUCCUCAUGUCACCAGUUCAAA 60
chr-4.trna28-Phe-GAA      GAUCAGGAUAGCUCAGUUGGUAGAGCAGAGGACUGAAAAUCCUCAUGUCACCAGUUCAAA 60
chr-4.trna313-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-3.trna669-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUAGAU 59
chr-3.trna241-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-3.trna261-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-5.trna402-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-5.trna401-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-5.trna192-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-7.trna201-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-3.trna393-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-6.trna175-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-3.trna403-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-4.trna312-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-7.trna328-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-4.trna233-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-4.trna232-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-4.trna195-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-4.trna194-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-7.trna478-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-7.trna351-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-3.trna668-Phe-GAA     GCG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-7.trna99-Phe-GAA      GUG-GGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-7.trna479-Phe-GAA     GCG-GUGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-2.trna348-Phe-GAA     GCA-GGGAUAGCUCAGUUGGGAUAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUCGAU 59
chr-6.trna406-Phe-GAA     ACC-AGAGUGGCGCAG-CAGAAGCGUGAUGGGCCGAAAACCCGUAGGUCCCAAGAUUGAA 58
                          .........10........20........30........40........50.........
                          .))))))))))))).
chr-2.trna42-Phe-GAA      CUUGGUUCCUGGCA 73
chr-2.trna43-Phe-GAA      CUUGGUUCCUGGCA 73
chr-4.trna185-Phe-GAA     UCUGGUUCCUGGCA 73
chr-2.trna468-Phe-GAA     UUUGGUUCCUGGCA 73
chr-1.trna392-Phe-GAA     UCUGGUUCCUGGCA 73
chr-2.trna526-Phe-GAA     UCUGGUUCCUGGCA 73
chr-2.trna582-Phe-GAA     UCUGGUUCCUGGCA 73
chr-7.trna576-Phe-GAA     UCUGGUUCCUGGCA 73
chr-3.trna499-Phe-GAA     UCUGGUUCCUGGCA 73
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chr-4.trna278-Phe-GAA     UCUGGUUCCUGGCA 73
chr-7.trna348-Phe-GAA     UCUGGUUCCUGGCA 73
chr-4.trna497-Phe-GAA     UCUGGUUCCUGGCA 73
chr-7.trna187-Phe-GAA     UCUGGUUCCUGGCA 73
chr-3.trna479-Phe-GAA     UCUGGUUCCUGGCA 73
chr-6.trna416-Phe-GAA     UCUGGUUCCUGGAA 73
chr-2.trna169-Phe-GAA     UCUGGUUCCUCGCA 73
chr-3.trna193-Phe-GAA     UCUGGUUCCUAGCA 73
chr-4.trna442-Phe-GAA     UCUGGUUCCUCGCA 73
chr-4.trna444-Phe-GAA     UCUGGUUCCUCGCA 73
chr-6.trna210-Phe-GAA     UCUGGUUCCUGGCA 72
chr-3.trna97-Phe-GAA      UCUGGUUCCUGGCA 73
chr-4.trna27-Phe-GAA      UCUGGUUCCCAUCG 74
chr-4.trna28-Phe-GAA      UCUGGUUCCCAUCG 74
chr-4.trna313-Phe-GAA     CCACCCUCACCGCA 73
chr-3.trna669-Phe-GAA     CCACGCUCACCGCA 73
chr-3.trna241-Phe-GAA     CCACGCUCACCGCA 73
chr-3.trna261-Phe-GAA     CCACGCUCACCGCA 73
chr-5.trna402-Phe-GAA     CCACGCUCACCGCA 73
chr-5.trna401-Phe-GAA     CCACGCUCACCGCA 73
chr-5.trna192-Phe-GAA     CCACGCUCACCGCA 73
chr-7.trna201-Phe-GAA     CCACGCUCACCGCA 73
chr-3.trna393-Phe-GAA     CCACGCUCACCGCA 73
chr-6.trna175-Phe-GAA     CCACGCUCACCGCA 73
chr-3.trna403-Phe-GAA     CCACGCUCACCGCA 73
chr-4.trna312-Phe-GAA     CCACGCUCACCGCA 73
chr-7.trna328-Phe-GAA     CCACGCUCACCGCA 73
chr-4.trna233-Phe-GAA     CCACGCUCACCGCA 73
chr-4.trna232-Phe-GAA     CCACGCUCACCGCA 73
chr-4.trna195-Phe-GAA     CCACGCUCACCGCA 73
chr-4.trna194-Phe-GAA     CCACGCUCACCGCA 73
chr-7.trna478-Phe-GAA     CCACGCUCACCGCA 73
chr-7.trna351-Phe-GAA     CCACGCUCACCGCA 73
chr-3.trna668-Phe-GAA     CCACGCUCACCGCA 73
chr-7.trna99-Phe-GAA      CCACGCUCACCGCA 73
chr-7.trna479-Phe-GAA     CCACGCUCACCGCA 73
chr-2.trna348-Phe-GAA     CCACGCUCACCGCG 73
chr-6.trna406-Phe-GAA     ACUUGGCUCUGAUA 72
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