```
                                .(((..((((..((((.........)))).(((((.......)))))).....(((((...
chr-1.trna113-Phe-GAA     -GCU--GGGAUAGCUC-GUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 55
chr-10.trna16-Phe-GAA     -GCC--GGGAUAGCUCAGUUAG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 56
chr-5.trna60-Phe-GAA      -GCC--GGGAUACCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 56
chr-8.trna142-Phe-GAA     -GCC--UGGAUAGCUCAGUUGG-UAGAGUAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 56
chr-8.trna150-Phe-GAA     -GCC--UGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 56
chr-11.trna37-Phe-GAA     -GCC--GGGAUAACUUAGUUGG-UAGAGUAGAGGAAUGAAAAUCCUUGUGUCACCAGUUC 56
chr-7.trna60-Phe-GAA      -GCC--AGGAUAGCUCAGUUGG-UAGAGAAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 56
chr-2.trna18-Phe-GAA      -GCC--GGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 56
chr-11.trna163-Phe-GAA    -GCC--AGGAUAGCUCAAUUGG-UAGAACAGAGGACUGAAAAUCCUUGUGUCACCAGUUC 56
chr-11.trna99-Phe-AAA     -GCC--GGGACAGCUCAAUUGG-UAGAGCAGAGGACUAAAAAUCCUCGUGUCACCAGUUC 56
chr-11.trna50-Phe-GAA     -GCC--GGGAUAUCUUAGUUGG-UAGAGCAGAGGACUGAAAAUCCUUGUGUCACCAGUUC 56
chr-8.trna51-Phe-GAA      -GCC--GGGAUAGCUCAGUUGG-UAAAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 56
chr-11.trna105-Phe-GAA    -GUU--GGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACUAGUUC 56
chr-8.trna88-Phe-GAA      -GCC--GGGAUAGCUCAGUUGG-UAGAGCAAAGGAUUGAAAAUCCUCGUGUCACCAGUUC 56
chr-7.trna54-Phe-GAA      -GCC--GGGAUAGCUUAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCAUCUCACCAGUUC 56
chr-5.trna85-Phe-GAA      -GCU--GGGAUAUCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCAAUAAUUC 56
chr-11.trna61-Phe-AAA     -GCC--GGGAUAGCUCAGUUGG-UAGAGCAGAGGACUAAAAAUCCUCGUGUCACCAGUUC 56
chr-6.trna42-Phe-GAA      -GCC--GGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 56
chr-11.trna22-Phe-AAA     -UAGCCAAGAUAGCUCAGUUGG-UAGAGUGGAGGAGUAAAAGUCCUCGUAUCACUAGUUC 58
chr-1.trna88-Phe-GAA      -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-1.trna100-Phe-GAA     -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-2.trna61-Phe-GAA      -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-10.trna124-Phe-GAA    -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-3.trna17-Phe-GAA      -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-4.trna9-Phe-GAA       -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-7.trna73-Phe-GAA      -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-10.trna5-Phe-GAA      -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-7.trna76-Phe-GAA      -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-7.trna92-Phe-GAA      -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-7.trna93-Phe-GAA      -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-7.trna94-Phe-GAA      -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-8.trna82-Phe-GAA      -GCG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-7.trna77-Phe-GAA      -GCG--AGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-10.trna112-Phe-GAA    -GUG--GGGAUAGCUCAGUUGG-GAGAGCGUCAGGCUGAAGAUCUGAAGGUCACGUGUUC 56
chr-1.trna27-Phe-GAA      -GUU--CAGGUAGCUCAGCUGGUUAGAGCAAAGGACUGAAAAUCCAUGUAUGAGUGGUUC 57
chr-1.trna141-Phe-GAA     -AUU--CAGGUAGCUCAGCUGGUUAGAGAAAAGGACUGAAAAUCCUUGUGUCAGUGGUUC 57
chr-2.trna86-Phe-GAA      -GUU--CAGGUAGCUCAGCUGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUC 57
chr-7.trna20-Phe-GAA      -GUU--CAGGUAGCUCAGCUGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUC 57
chr-8.trna24-Phe-GAA      -GUU--CAGGUAGCUCAGCUGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUC 57
chr-2.trna65-Phe-GAA      -GUU--CAGGUAGCUCAGCUGGUUAGAGCAAUGGACUGAAAAUACUUCUGUCAGUGGUUC 57
chr-1.trna92-Phe-GAA      -GUU--CAGGUAGCUCAGAUAAUUAGAGCAAAGGAAUGAAAAUCCUUGUGUCAAUGGUUC 57
chr-8.trna159-Phe-GAA     -GUU--CAGGUAGCUCAGUUGGUUAGAGCAAAGGACUGAAAAUCCUUGUAUCAAUCAUUU 57
chr-9.trna46-Phe-GAA      GGUU--CAGGUAGCUAAGCCGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUU 58
chr-11.trna176-Phe-GAA    GGUU--CAGGUAGCUAAGCCGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUU 58
chr-10.trna38-Phe-GAA     ---U--CAGGUAGCUCAGUUGGUUAGACCAAAGGAUUGAAAAUCCUUAUGUCAGUGGUUU 55
chr-1.trna159-Phe-GAA     -GUU--GAGGUAGCUCAGUUUC-UAGAGUAGAGGACUGAAAAUCCUCGUGUCACAAGUUC 56
chr-4.trna69-Phe-GAA      -GGA--GAGAUGGUCGAGUGGUUUAAGGCGGAGCAUUGAAAUUGUUUA--UCAAGGGUUC 55
chr-7.trna74-Phe-GAA      -GCG--AGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-7.trna75-Phe-GAA      -GCG--AGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-6.trna123-Phe-GAA     -GAG--UCCUUAGCUAAGU--GACAGAGUAUUUGACUGAAGAUCAAGAGGUCACUAGUUC 55
chr-4.trna66-Phe-GAA      GGA---GAGAUGGCUGAGUGGCUUAAGGACUAGCAUUGAAAUUGCUAUGUAGGCUUUUGU 57
chr-7.trna56-Phe-GAA      GGA---GAGAUGGUUGAGUGGUUUAAGGCGUAACAUUGAAACUGCUAUGUAGGCUUUUAU 57
chr-11.trna173-Phe-GAA    GUA---GAGAUGGCCGGGUGGUUCAAGGCGUAGCAUUGAACCUGCUAUGUAGGCUUUUGU 57
                          .........10.........20.........30.........40.........50.........

                          ....)..))))))).........)))))..).
chr-1.trna113-Phe-GAA     AAAUC--UGGUUC---------CUGG--CA 72
chr-10.trna16-Phe-GAA     AAAUC--UGGUUC---------CUGG--CA 73
chr-5.trna60-Phe-GAA      AAAUC--UGGUUC---------CUGG--CA 73
chr-8.trna142-Phe-GAA     AAAUC--UGGUUC---------CUGG--CA 73
chr-8.trna150-Phe-GAA     AAAUC--UGGUUC---------CUGG--CA 73
chr-11.trna37-Phe-GAA     AAAUC--UGGUUC---------CUGG--CA 73
chr-7.trna60-Phe-GAA      AAAUU--UGGUUC---------CUGG--UA 73
chr-2.trna18-Phe-GAA      AAAUC--UGAUUC---------CUGG--CA 73
chr-11.trna163-Phe-GAA    AAAUU--UGGUUC---------UUGG--CA 73
chr-11.trna99-Phe-AAA     AAAUC--UGGUUC---------CUGG--CA 73
chr-11.trna50-Phe-GAA     AAAUA--UGGUUU---------CUGG--CA 73
chr-8.trna51-Phe-GAA      AAAUC--UGGUUC---------CUAG--CA 73
chr-11.trna105-Phe-GAA    AAAUC--UUGUUC---------CUGG--CA 73
chr-8.trna88-Phe-GAA      AAAUC--UGAUUC---------CUGG--CA 73
chr-7.trna54-Phe-GAA      AAAUC--UGUUUC---------CUGG--CA 73
chr-5.trna85-Phe-GAA      AAAUA--UGGUUC---------CUGG--UA 73
chr-11.trna61-Phe-AAA     AAAUC--UGGUUC---------CUGGAACA 75
chr-6.trna42-Phe-GAA      AAAUC--UGAUUU---------GUGA--CA 73
chr-11.trna22-Phe-AAA     AAAUC--UAGUUC---------UUCU--AA 75
chr-1.trna88-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-1.trna100-Phe-GAA     GAUCC--ACGUUC---------ACCG--CA 73
chr-2.trna61-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-10.trna124-Phe-GAA    GAUCC--ACGUUC---------ACCG--CA 73
chr-3.trna17-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-4.trna9-Phe-GAA       GAUCC--ACGUUC---------ACCG--CA 73
chr-7.trna73-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-10.trna5-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-7.trna76-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-7.trna92-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-7.trna93-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-7.trna94-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-8.trna82-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-7.trna77-Phe-GAA      GAUCC--ACGUUC---------ACCG--CA 73
chr-10.trna112-Phe-GAA    GAUCC--ACGUUC---------ACUG--CA 73
chr-1.trna27-Phe-GAA      GAAUC--CACUUC---------UAAG--CA 74
chr-1.trna141-Phe-GAA     GAAUC--CACUUC---------UAAG--CA 74
chr-2.trna86-Phe-GAA      GAAUC--CACUUC---------UAAG--CA 74
chr-7.trna20-Phe-GAA      GAAUC--CACUUC---------UAAG--CA 74
chr-8.trna24-Phe-GAA      GAAUC--CACUUC---------AAAG--CA 74
chr-2.trna65-Phe-GAA      GAAUC--CACUUC---------UAAG--CA 74
chr-1.trna92-Phe-GAA      GAAUC--CACUUC---------UAAG--CA 74
chr-8.trna159-Phe-GAA     GAAUC--CACUUC---------UAAG--CA 74
chr-9.trna46-Phe-GAA      GAAUC--CACUUC---------UAAC--CA 75
chr-11.trna176-Phe-GAA    GAAUC--CACUUC---------CAAC--CA 75
chr-10.trna38-Phe-GAA     GAAUC--CACUUC---------UAAG--AA 72
chr-1.trna159-Phe-GAA     AAAUA--UGGUUC---------UUGG--CA 73
chr-4.trna69-Phe-GAA      GAAUC--CCUCUC---------UUUC--CG 72
chr-7.trna74-Phe-GAA      GAUCC--ACGUUCGAUUCCCGGUUGGUGCA 84
chr-7.trna75-Phe-GAA      GAUCC--ACGUUCGAUUCCCGGUUGGUGCA 84
chr-6.trna123-Phe-GAA     AAAUU--UGGCAGGACGUUUUUUAUU--CA 81
chr-4.trna66-Phe-GAA      UUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-7.trna56-Phe-GAA      UUACUGAGGGUUCGAAUCCCUCUCUUUCCA 87
chr-11.trna173-Phe-GAA    UUACCGAAGGUUCGAAUCCCUCUCUUUUCG 87
                          .........70.........80.........
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