```
                        (((((((..((((.........)))).(((((.......)))))).....(((((.......
chr-5.trna6-Glu-CTC     UCCGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGAGAGACCCGGGUUCAAGU 60
chr-5.trna10-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGAGAGACCCGGGUUCAAGU 60
chr-5.trna12-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGAGAGACCCGGGUUCAAGU 60
chr-9.trna14-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGAGAGACCCGGGUUCAAGU 60
chr-10.trna3-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGAGAGACCCGGGUUCAAGU 60
chr-15.trna61-Glu-CTC   UCCGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGAGAGACCCGGGUUCAAGU 60
chr-10.trna8-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGAGAGACCCGGGUUCAAGU 60
chr-1.trna25-Glu-CTC    UCCGUUCUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGAGAGACCCGGGUUCAAGU 60
chr-5.trna21-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCAACCGAGAGACCUGGGUUCAAGU 60
chr-8.trna23-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUACUCUGCUCUCACCCGAGAGACCCGGGUUCAAGU 60
chr-2.trna10-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-11.trna74-Glu-CTC   UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-8.trna31-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-8.trna30-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-15.trna22-Glu-CTC   UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-10.trna25-Glu-CTC   UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-3.trna50-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-4.trna3-Glu-CTC     UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-4.trna33-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-5.trna34-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-15.trna68-Glu-CTC   UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-15.trna67-Glu-CTC   UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-6.trna36-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCUGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-12.trna27-Glu-CTC   UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAAU 60
chr-8.trna10-Glu-CTC    UCCAUUUUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACCCGGGUUCAAGU 60
chr-2.trna7-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-2.trna11-Glu-TTC    UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-15.trna18-Glu-TTC   UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-15.trna10-Glu-TTC   UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-3.trna4-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-3.trna16-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-3.trna18-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-11.trna14-Glu-TTC   UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-11.trna4-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-8.trna28-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-15.trna64-Glu-TTC   UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-10.trna4-Glu-TTC    UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-15.trna34-Glu-TTC   UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-7.trna31-Glu-TTC    UCCGUUGUUGUCUAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUCGAUU 59
chr-14.trna30-Glu-TTC   GCCCCCAUCGUCUAGCGGUUUAGGACAUCUCUCUUUCAAGGAGGCAGCGGGGAUUCGACU 60
chr-3.trna17-Glu-TTC    UCCAUUGUCGUCCAGCUG-UUAGGAUAUAUGGCUUUCACCCAGGAAACCUGGGUUCGAUU 59
                        .........10........20........30........40........50.........

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chr-5.trna6-Glu-CTC     CCCGGCAAC--GGAA 73
chr-5.trna10-Glu-CTC    CCCGGCAAC--GGAA 73
chr-5.trna12-Glu-CTC    CCCGGCAAC--GGAA 73
chr-9.trna14-Glu-CTC    CCCGGCAAC--GGAA 73
chr-10.trna3-Glu-CTC    CCCGGCAAC--GGAA 73
chr-15.trna61-Glu-CTC   CCCGGCAAC--GGAA 73
chr-10.trna8-Glu-CTC    CCCGGCAAC--GGAA 73
chr-1.trna25-Glu-CTC    CCCGGCAAC--GGAA 73
chr-5.trna21-Glu-CTC    CCCGGCAAC--GGAA 73
chr-8.trna23-Glu-CTC    CCCGGCAAC--GGAA 73
chr-2.trna10-Glu-CTC    CCCGGCAAC--GGAA 73
chr-11.trna74-Glu-CTC   CCCGGCAAC--GGAA 73
chr-8.trna31-Glu-CTC    CCCGGCAAC--GGAA 73
chr-8.trna30-Glu-CTC    CCCGGCAAC--GGAA 73
chr-15.trna22-Glu-CTC   CCCGGCAAC--GGAA 73
chr-10.trna25-Glu-CTC   CCCGGCAAC--GGAA 73
chr-3.trna50-Glu-CTC    CCCGGCAAC--GGAA 73
chr-4.trna3-Glu-CTC     CCCGGCAAC--GGAA 73
chr-4.trna33-Glu-CTC    CCCGGCAAC--GGAA 73
chr-5.trna34-Glu-CTC    CCCGGCAAC--GGAA 73
chr-15.trna68-Glu-CTC   CCCGGCAAC--GGAA 73
chr-15.trna67-Glu-CTC   CCCGGCAAC--GGAA 73
chr-6.trna36-Glu-CTC    CCCGGCAAC--GGAA 73
chr-12.trna27-Glu-CTC   CCCGGCAAC--GGAA 73
chr-8.trna10-Glu-CTC    CCCGGCAAC--GGAA 73
chr-2.trna7-Glu-TTC     CCCGGCAAC--GGAA 72
chr-2.trna11-Glu-TTC    CCCGGCAAU--GGAA 72
chr-15.trna18-Glu-TTC   CCCGGCAAC--GGAA 72
chr-15.trna10-Glu-TTC   CCCGGCAAC--GGAA 72
chr-3.trna4-Glu-TTC     CCCGGCAAC--GGAA 72
chr-3.trna16-Glu-TTC    CCCGGCAAC--GGAA 72
chr-3.trna18-Glu-TTC    CCCGGCAAC--GGAA 72
chr-11.trna14-Glu-TTC   CCCGGCAAU--GGAA 72
chr-11.trna4-Glu-TTC    CCCGGCAAC--GGAA 72
chr-8.trna28-Glu-TTC    CCCGGCAAC--GGAA 72
chr-15.trna64-Glu-TTC   CCCGGCAAC--GGAA 72
chr-10.trna4-Glu-TTC    CCCGGCAAU--GGAA 72
chr-15.trna34-Glu-TTC   CCCGGCAAC--GGAA 72
chr-7.trna31-Glu-TTC    CCCGGCAAC--AGAA 72
chr-14.trna30-Glu-TTC   UCCCCUGGG--UGUA 73
chr-3.trna17-Glu-TTC    CCUAGCAGUUAGGAU 74
                        .........70....
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