```
                          (((((((..((((..((((...(((........)))...))))..))))(((((.....
chr-3.trna33-Glu-TTC      UUUGUUGUAGUCUAGUUGAUUAGGAUAUUUGGCUUUCAUCCAAAAAGACAUGGGUUCAAG 60
chr-3.trna48-Glu-TTC      UUUGUUGUAGUCUAGUUGGUUAGGAUAUUUGGCUUUCAUCCAAAAAGACAUGGAUUCAAG 60
chr-4.trna88-Glu-CTC      UCCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACUUGGGUUCAAG 60
chr-1.trna11-Glu-CTC      UCCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-2.trna137-Glu-CTC     UCCAUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-5.trna87-Glu-CTC      UCCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-4.trna67-Glu-CTC      UCCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-5.trna44-Glu-CTC      UCCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-6.trna103-Glu-CTC     UCCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-6.trna114-Glu-CTC     UCCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-6.trna95-Glu-CTC      UCUGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-6.trna15-Glu-CTC      UUCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-1.trna46-Glu-CTC      UCCGUUGUAGUGUAAUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-7.trna12-Glu-CTC      UCCGUUGUAGUGUAAUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-1.trna95-Glu-CTC      UCCGUUGUAGUGUAGUUGGUUAAGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-7.trna82-Glu-CTC      UCCGUUGUAGUGAAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-1.trna31-Glu-CTC      UCCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCAUCAAAAAAGACCUGGGUUCAAG 60
chr-5.trna120-Glu-CTC     UUCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACUUGGGUUCAAG 60
chr-6.trna101-Glu-CTC     UCCGUUGUAGUGUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUGGGUUCAAG 60
chr-2.trna111-Glu-CTC     UCCAUUGUAAUGUAGUUGGUUAGGAUAUUUGGUUCUCACCAAAAAAGACCUGAGUUCAAG 60
chr-2.trna115-Glu-CTC     UCCGUUGUAGUGUAGUUGGUUAUGAUAUUUGGUUCUCAUCCAAAAAGACCUGAGUUCAAG 60
chr-5.trna41-Glu-CTC      UUUGUUGUAGUCUAGUUGGUUAGGAUAUUUGGUUCUCAUCCAAAAAGACCUGAGUUCAAU 60
chr-1.trna6-Glu-CTC       UCCGUUGCACUCUAGUUGGUUAGGAUACUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-1.trna9-Glu-CTC       UCCGUUGCACUCUAGUUGGUUAGGAUACUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-1.trna4-Glu-CTC       UCCGUUGCACUCUAGUUGGUUAGGAUACUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-6.trna31-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGA-GAGACCCGGGUUCAAG 59
chr-6.trna102-Glu-CTC     UCCGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGA-GAGACCCGGGUUCAAG 59
chr-1.trna72-Glu-CTC      UCCGUUGUAGUCUAGUUGGUUAGGAUACUCGGCUCUCACCCGA-GAGACCCGGGUUCAAG 59
chr-5.trna75-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-6.trna115-Glu-CTC     UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-2.trna15-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-2.trna18-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-5.trna11-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-7.trna27-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-6.trna54-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-6.trna53-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-2.trna100-Glu-CTC     UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-6.trna14-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-2.trna104-Glu-CTC     UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-7.trna30-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-2.trna144-Glu-CTC     UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-3.trna13-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGA-AAGACCCGGGUUCAAG 59
chr-1.trna7-Glu-CTC       UCUGUUGUAGUCUAGUUGGUCAGGAUACUCGGCUCUCACCCGA-AAGACCCGCGUUCAAG 59
chr-2.trna108-Glu-CTC     UCUGUUGUAGUCUAAUUGGUUAAAAUAUUUGGCUCUCGCCCAAAAAGACCCGGAUUCAAG 60
chr-1.trna8-Glu-CTC       UCUGUUGUAGUCUAGCUGGUUAGGAUAUUCAGCUCUCACCCGA-AAGACCCAGGUUCAAG 59
chr-4.trna85-Glu-TTC      UUUGUUGUAGUCCUG-UGGUUAGGAUAUCUGGCUUUCACCCUA-AUAACCGGGGUUCAAG 58
chr-1.trna28-Glu-TTC      UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-2.trna12-Glu-TTC      UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-2.trna17-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-2.trna73-Glu-TTC      UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-2.trna81-Glu-TTC      UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-6.trna69-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-2.trna93-Glu-TTC      UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-2.trna138-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-6.trna104-Glu-TTC     UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-4.trna66-Glu-TTC      UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-7.trna32-Glu-TTC      UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-5.trna94-Glu-TTC      UCCAUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAG-GAGACCCGGGUUCGAU 58
chr-5.trna125-Glu-CTC     UCUGUUGUAGUAUAGU---UUAGGAUAUUUGGCACUCGCCCAAAAAGAUCUGGGUUCAAG 57
chr-7.trna64-Glu-TTC      UCCGUUGUCAUCUAGUUUGGUCAGAUGUCUGGGUUUCACCCAG-UUUUCCCGGGUUCAAA 59
chr-7.trna58-Glu-CTC      UUUGUUGUAGUCUAAUUGGUUACGAUAUUUGGCUCUCAUUCAA-AAAACCUGGGUUCAAA 59
chr-1.trna10-Glu-CTC      --GU-UGUAGUCUAAUUGGUUAGGAUAUUUGGCUCUCAUUCAAAAAG-CCUGGGUUCAAA 56
chr-3.trna53-Glu-CTC      ----UUAUAGUCUAGUUGGUUAGGAUAUUUGGUUCUCACCCAAAAAGACCUAGGUUCAAA 56
chr-4.trna80-Glu-CTC      ----GUCA-GUUCAGUUGGU-AGAGCACAGAGCUCUCAACUUUGUUGUUGUGGGUUCGAU 54
                          .........10........20........30........40........50.........
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                          .)))))))))))...).
chr-3.trna33-Glu-TTC      UCCCAACGAUGG---AA 74
chr-3.trna48-Glu-TTC      UCCUAGCGAUGA---AU 74
chr-4.trna88-Glu-CTC      UCCCAGCGAUGG---AA 74
chr-1.trna11-Glu-CTC      UCCCAGUGAUGG---AA 74
chr-2.trna137-Glu-CTC     UCCCAGCGAUGG---AA 74
chr-5.trna87-Glu-CTC      UCCCAGCGAUGG---AA 74
chr-4.trna67-Glu-CTC      UCCCAGCGAUGG---AA 74
chr-5.trna44-Glu-CTC      UCCCAGCGAUGG---AA 74
chr-6.trna103-Glu-CTC     UCCCAGCGAUGG---AA 74
chr-6.trna114-Glu-CTC     UCCCAGCGAUGG---AA 74
chr-6.trna95-Glu-CTC      UCCCAGCGAUGG---AA 74
chr-6.trna15-Glu-CTC      UCCCAGCGAUGG---AA 74
chr-1.trna46-Glu-CTC      UCCCAGCGAUGG---AA 74
chr-7.trna12-Glu-CTC      UCCCAGCGAUGG---AA 74
chr-1.trna95-Glu-CTC      UCCCAGUGAUGG---AA 74
chr-7.trna82-Glu-CTC      UCCCAGCGAUGG---AA 74
chr-1.trna31-Glu-CTC      UCCCAGCGAUGG---AA 74
chr-5.trna120-Glu-CTC     UUCCAGCGAUGA---AA 74
chr-6.trna101-Glu-CTC     UCCCAACGAUGG---AA 74
chr-2.trna111-Glu-CTC     UCCCAGCGAUGG---AA 74
chr-2.trna115-Glu-CTC     UCCCAGCGAUGG---AA 74
chr-5.trna41-Glu-CTC      UCCCAACGAUGG---AA 74
chr-1.trna6-Glu-CTC       UCCCGGCAAUGA---AA 73
chr-1.trna9-Glu-CTC       UCCCGGCAAUGA---AA 73
chr-1.trna4-Glu-CTC       UCCCGGCAAUGA---AA 73
chr-6.trna31-Glu-CTC      UCCCGGCAACGG---AA 73
chr-6.trna102-Glu-CTC     UCCCGGCAACGG---AA 73
chr-1.trna72-Glu-CTC      UCCCGGCAACGG---AA 73
chr-5.trna75-Glu-CTC      UCCCGGCAACGG---AA 73
chr-6.trna115-Glu-CTC     UCCCGGCAACGG---AA 73
chr-2.trna15-Glu-CTC      UCCCGGCAACGG---AA 73
chr-2.trna18-Glu-CTC      UCCCGGCAACGG---AA 73
chr-5.trna11-Glu-CTC      UCCCGGCAACGG---AA 73
chr-7.trna27-Glu-CTC      UCCCGGCAACGG---AA 73
chr-6.trna54-Glu-CTC      UCCCGGCAACGG---AA 73
chr-6.trna53-Glu-CTC      UCCCGGCAACGG---AA 73
chr-2.trna100-Glu-CTC     UCCCGGCAACGG---AA 73
chr-6.trna14-Glu-CTC      UCCCGGCAACGG---AA 73
chr-2.trna104-Glu-CTC     UCCCGGCAACGG---AA 73
chr-7.trna30-Glu-CTC      UCCCGGCAACGG---AA 73
chr-2.trna144-Glu-CTC     UCCCGGCAACGG---AA 73
chr-3.trna13-Glu-CTC      UCCCGGCAACGG---AA 73
chr-1.trna7-Glu-CTC       UCCCGGCAAUGA---AA 73
chr-2.trna108-Glu-CTC     UCCCCGCAAUAG---AA 74
chr-1.trna8-Glu-CTC       UCUCGGCAAUGA---AU 73
chr-4.trna85-Glu-TTC      UCCCCGCAAUAG---AA 72
chr-1.trna28-Glu-TTC      UCCCGGCAAUGG---AA 72
chr-2.trna12-Glu-TTC      UCCCGGCAAUGG---AA 72
chr-2.trna17-Glu-TTC      UCCCGGCAACGG---AA 72
chr-2.trna73-Glu-TTC      UCCCGGCAAUGG---AA 72
chr-2.trna81-Glu-TTC      UCCCGGCAAUGG---AA 72
chr-6.trna69-Glu-TTC      UCCCGGCAACGG---AA 72
chr-2.trna93-Glu-TTC      UCCCGGCAAUGG---AA 72
chr-2.trna138-Glu-TTC     UCCCGGCAACGG---AA 72
chr-6.trna104-Glu-TTC     UCCCGGCAAUGG---AA 72
chr-4.trna66-Glu-TTC      UCCCGGCAAUGG---AA 72
chr-7.trna32-Glu-TTC      UCCCGGCAAUGG---AA 72
chr-5.trna94-Glu-TTC      UCCCGGCAAUGG---AA 72
chr-5.trna125-Glu-CTC     UCCCAGCAACAG---AA 71
chr-7.trna64-Glu-TTC      UCCCGGCAACGG---AU 73
chr-7.trna58-Glu-CTC      UCCCAGCAAUGG-GAAA 75
chr-1.trna10-Glu-CTC      UCCCAGCAAGC-----A 68
chr-3.trna53-Glu-CTC      UCCCAACGAUGGAAAAA 73
chr-4.trna80-Glu-CTC      UCCCUUGGC-------A 64
                          .........70......
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