```
                                 ((((((((((.......((....((.((((((.((((......)))).)))))))).....
chr-11.trna219-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCGGGUUC---- 55
chr-10.trna134-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCUGGGUUC---- 55
chr-5.trna292-Glu-TTC     UUCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACUCGGGUUC---- 55
chr-12.trna169-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCUAGGAGACCCGGGUUC---- 55
chr-10.trna88-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAAGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-12.trna88-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAAGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-6.trna17-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUACGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-10.trna132-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAAGAGACCCGGGUUC---- 55
chr-4.trna11-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUUGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-3.trna44-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-15.trna10-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-15.trna8-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-15.trna105-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-15.trna6-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-3.trna107-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-3.trna213-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-15.trna15-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-14.trna11-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-14.trna10-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-13.trna59-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-13.trna32-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-12.trna170-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-15.trna12-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-12.trna141-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-4.trna13-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-12.trna75-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-12.trna40-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-4.trna14-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-4.trna82-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-4.trna141-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-10.trna142-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-10.trna135-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-4.trna143-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-15.trna13-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-10.trna115-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-2.trna23-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-4.trna245-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-10.trna53-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna23-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-7.trna182-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-7.trna180-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-7.trna177-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna99-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-7.trna14-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-6.trna244-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna209-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna212-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna294-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna214-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna290-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna261-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna259-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna257-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna255-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna253-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna251-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna249-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna247-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna216-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-5.trna123-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCGCCCAGGAGACCCGGGUUC---- 55
chr-8.trna71-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUU---- 55
chr-6.trna230-Glu-TTC     UCCGUUGUCGUCCAG-UGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGAUUC---- 55
chr-4.trna20-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-6.trna15-Glu-TTC      UCCGUUGUUGUCCAG-CGAUUAGGAUAUCUGGCUUUCACUCAGGAGACCCGGGUUC---- 55
chr-14.trna117-Glu-TTC    UCCGUUGUUGUCCAG-CGGUUAGGAUGCCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-14.trna33-Glu-TTC     UCCGUUGUUGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-15.trna7-Glu-TTC      UCCGUUGUUGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-4.trna68-Glu-TTC      UCCAUUGUCGUCCAG-UGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-7.trna175-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGUUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-11.trna230-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACCCGGGUUU---- 55
chr-4.trna145-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGUAUAUCUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-14.trna116-Glu-TTC    UUCGUUGUCGUCCAG-UGGUUAGGAUGUAUGGCUUUCACCCAGGAGACCCGGGUUC---- 55
chr-11.trna121-Glu-TTC    UCUGUUGUAGUCUAGUUGGUUAGGAUAUUCAGCUUUCACCCGAAGGACUUGGUUUC---- 56
chr-4.trna212-Glu-TTC     GCGUUUGUAGUCCAA-CGGUUAAGAUAAUUGUCUUUCAAGCAAUAGACCCGGAUUCAACU 59
chr-4.trna92-Glu-TTC      GUCCCUUUCGUCCCG-UGGUUAGGACAUCGUCUUUUCGCGUCGAAGACACAGGUUC---- 55
chr-10.trna62-Glu-TTC     UUUGUAGUCCAAC----GGUUAGGAUAAUUGUCUUUCAAGCAAUAGACCUGGGUUCAA-U 55
                          .........10........20........30........40........50.........

                          ....))))))))))))).
chr-11.trna219-Glu-TTC    GAUUCUCGGCAACGGAA 72
chr-10.trna134-Glu-TTC    GAUUCUCGGCAACGGAA 72
chr-5.trna292-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-12.trna169-Glu-TTC    GAUUCCCGGCAACGGAA 72
chr-10.trna88-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-12.trna88-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-6.trna17-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-10.trna132-Glu-TTC    GAUUCCCGGCAACGGAA 72
chr-4.trna11-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-3.trna44-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-15.trna10-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-15.trna8-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-15.trna105-Glu-TTC    GAUUCCCGGCAACGGAA 72
chr-15.trna6-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-3.trna107-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-3.trna213-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-15.trna15-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-14.trna11-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-14.trna10-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-13.trna59-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-13.trna32-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-12.trna170-Glu-TTC    GAUUCCCGGCAACGGAA 72
chr-15.trna12-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-12.trna141-Glu-TTC    GAUUCCCGGCAACGGAA 72
chr-4.trna13-Glu-TTC      GAUUCCCGGCAGCGGAA 72
chr-12.trna75-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-12.trna40-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-4.trna14-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-4.trna82-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-4.trna141-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-10.trna142-Glu-TTC    GAUUCCCGGCAACGGAA 72
chr-10.trna135-Glu-TTC    GAUUCCCGGCAACGGAA 72
chr-4.trna143-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-15.trna13-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-10.trna115-Glu-TTC    GAUUCCCGGCAACGGAA 72
chr-2.trna23-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-4.trna245-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-10.trna53-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna23-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-7.trna182-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-7.trna180-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-7.trna177-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna99-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-7.trna14-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-6.trna244-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna209-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna212-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna294-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna214-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna290-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna261-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna259-Glu-TTC     GAUUCCCGGCAAUGGAA 72
chr-5.trna257-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna255-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna253-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna251-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna249-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna247-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna216-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-5.trna123-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-8.trna71-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-6.trna230-Glu-TTC     AAUUCCCGGCAACAGAN 72
chr-4.trna20-Glu-TTC      AAUUCCCGGCAACGGAU 72
chr-6.trna15-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-14.trna117-Glu-TTC    AAUUCCCGGCAACGGAA 72
chr-14.trna33-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-15.trna7-Glu-TTC      GAUUCCCGGCAACGGAA 72
chr-4.trna68-Glu-TTC      GGUUCCCGGCAAUGGAA 72
chr-7.trna175-Glu-TTC     GAUUCCCGGCAACGGAA 72
chr-11.trna230-Glu-TTC    GAUUCCCGGCACCGGAA 72
chr-4.trna145-Glu-TTC     GAUUCCCGGCAACAGAA 72
chr-14.trna116-Glu-TTC    AAUUCCCGGCAACGGAA 72
chr-11.trna121-Glu-TTC    AAUUCCCGGCAACGGAA 73
chr-4.trna212-Glu-TTC     GACUCCCGACGAAUGCA 76
chr-4.trna92-Glu-TTC      GAUUCCCAUAAGGGAUA 72
chr-10.trna62-Glu-TTC     UUGGUCUAACUGAAAAA 72
                          .........70......
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