```
                         (((((((((.(........).)))(.(((((((.....)))))))).))))))..... 
chr-1.trna91-Lys-TTT     UCCGUUAUCGUCCAG--CGGUUAGGAUAUCUGGCUUUUACCCAGGA-GACCCGGGU--UC 55
chr-7.trna57-Lys-CTT     UCCGUUGUAGUCUAGU-UGGUUAGGAUACUCGGCUCUUACCCGAGA-GACCCGGGU--UU 56
chr-12.trna50-Lys-TTT    UCCGUUGUAUCUAGUAUGGUUAGAAUGUCUGGGUUUU-CCCAGGU-UUCCCGGGU--UC 56
chr-10.trna101-Lys-TTT   GGGUGUAUAGCUCAG--UUGGUAGAGCAUUGGGCUUUUAACCUAAUGGGCGCAGGU--UC 56
chr-10.trna46-Lys-TTT    GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-2.trna13-Lys-TTT     GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-2.trna26-Lys-TTT     GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-12.trna66-Lys-TTT    GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-6.trna6-Lys-TTT      GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-6.trna111-Lys-TTT    GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-12.trna67-Lys-TTT    GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-9.trna24-Lys-TTT     GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-5.trna42-Lys-TTT     GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-12.trna49-Lys-TTT    GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-1.trna4-Lys-TTT      GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-11.trna33-Lys-TTT    GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-10.trna47-Lys-TTT    GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-4.trna51-Lys-TTT     GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-6.trna110-Lys-TTT    GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-6.trna74-Lys-TTT     GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-3.trna1-Lys-TTT      GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-3.trna71-Lys-TTT     GCCGUCUUAGCUCAG---UGAUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGU--UC 55
chr-11.trna32-Lys-TTT    GCCGUCUUAGCUCAG---UGGUAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGAU--UC 55
chr-5.trna41-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCCUGUGGUCGUGGGU--UC 56
chr-5.trna52-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCCUGUGGUCGUGGGU--UC 56
chr-1.trna105-Lys-CTT    GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-2.trna46-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-2.trna62-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-12.trna55-Lys-CTT    GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-3.trna3-Lys-CTT      GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-3.trna13-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-12.trna8-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-4.trna26-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-4.trna43-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-4.trna76-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-10.trna72-Lys-CTT    GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-10.trna71-Lys-CTT    GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-10.trna58-Lys-CTT    GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-5.trna36-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-5.trna49-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-6.trna29-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-9.trna10-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-8.trna73-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-8.trna40-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-8.trna17-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-6.trna39-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-3.trna44-Lys-CTT     GCCUGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-4.trna11-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UC 56
chr-3.trna25-Lys-CTT     GCCCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGU--UU 56
chr-5.trna40-Lys-CTT     GCUCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGUUCUC 58
chr-5.trna51-Lys-CTT     GCUCGUCUAGCUCAG--UUGGUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUGGGUUCUC 58
chr-1.trna22-Lys-TTT     GGGUGUAUAGCUAAG--UUGGCAGAGCAUUGGGCUUUUAACCUUAAUGGUCGCAGGU--UC 56
chr-3.trna24-Lys-TTT     A----UCUAGCUUAA--UUGGUAGAGCGCAAGGCUUUUAACCUUGUGGUCGUGGGU--UU 52
                         .........10.........20.........30.........40.........50.........
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                         ....)))))))))))).
chr-1.trna91-Lys-TTT     GAUUCCCGGUAACGGAA 72
chr-7.trna57-Lys-CTT     AAGUCCCUGCAAUGGAA 73
chr-12.trna50-Lys-TTT    AAAUCCCGGCAACGGAA 73
chr-10.trna101-Lys-TTT   AAGUCCUGCUAUACACA 73
chr-10.trna46-Lys-TTT    GAUCACCACAGACAGCG 72
chr-2.trna13-Lys-TTT     GAUCCCCACAGACGGCG 72
chr-2.trna26-Lys-TTT     GAUCCCCACAGACGGCG 72
chr-12.trna66-Lys-TTT    GAUCCCCACAGACGGCG 72
chr-6.trna6-Lys-TTT      GAUCCCCACAGACGGCG 72
chr-6.trna111-Lys-TTT    GAUCCCCACAGACGGCG 72
chr-12.trna67-Lys-TTT    GAUCCCCACAGACGGCG 72
chr-9.trna24-Lys-TTT     GAUCCCCACAGACGGCG 72
chr-5.trna42-Lys-TTT     GAUCCCCACAGACGGCG 72
chr-12.trna49-Lys-TTT    GAUCCCCACAGACGGCG 72
chr-1.trna4-Lys-TTT      GAUCCCCACAGACGGCG 72
chr-11.trna33-Lys-TTT    GAUCCCCACAGACGGCG 72
chr-10.trna47-Lys-TTT    GAUCCCCACAGACGGCG 72
chr-4.trna51-Lys-TTT     GAUCCCCACAGACGGCG 72
chr-6.trna110-Lys-TTT    GAUCCCCACAGACGGCG 72
chr-6.trna74-Lys-TTT     GAUCCCCACAGACGGCG 72
chr-3.trna1-Lys-TTT      GAUCCCCAUAGACGGCG 72
chr-3.trna71-Lys-TTT     GAUCCCCACAGACGGCG 72
chr-11.trna32-Lys-TTT    GAUCCCCACAGACGGCG 72
chr-5.trna41-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-5.trna52-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-1.trna105-Lys-CTT    GAGCCCCACGGUGGGCG 73
chr-2.trna46-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-2.trna62-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-12.trna55-Lys-CTT    GAGCCCCACGGUGGGCG 73
chr-3.trna3-Lys-CTT      GAGCCCCACGGUGGGCG 73
chr-3.trna13-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-12.trna8-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-4.trna26-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-4.trna43-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-4.trna76-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-10.trna72-Lys-CTT    GAGCCCCACGGUGGGCG 73
chr-10.trna71-Lys-CTT    GAGCCCCACGGUGGGCG 73
chr-10.trna58-Lys-CTT    GAGCCCCACGGUGGGCG 73
chr-5.trna36-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-5.trna49-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-6.trna29-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-9.trna10-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-8.trna73-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-8.trna40-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-8.trna17-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-6.trna39-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-3.trna44-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-4.trna11-Lys-CTT     GAGCCCCAUGGUGGGCG 73
chr-3.trna25-Lys-CTT     GAGCCCCACGGUGGGCG 73
chr-5.trna40-Lys-CTT     GAGCCCCACGGUGGGCG 75
chr-5.trna51-Lys-CTT     GAGCCCCACGGUGGGCG 75
chr-1.trna22-Lys-TTT     AAGUCCUGCUAUACCCA 73
chr-3.trna24-Lys-TTT     GAGCCCUACGAA---UA 66
                         .........70......
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