```
                                 (((((((..(((.....)))).........((.(((((((.....)))))))..)))(((
chr-4.trna95-Lys-CTT     GCCCGUCUAGCUUAGUCGGU---------AUAGUGCAAGGCUCUUACCCUUGUGGUCUUG 51
chr-3.trna30-Lys-TTT     GCCGUCUUAGCUCAGCCGAU---------AGAGUGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-3.trna31-Lys-TTT     GCCGUCUUAGCUCAGCCGAU---------AGAGUGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-1.trna48-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCAUGGCUUUUAACCAUGUGGUCGUG 51
chr-1.trna56-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCAUGGCUUUUAACCAUGUGGUCGUG 51
chr-2.trna59-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-3.trna9-Lys-TTT      GCCGUCUUAGCUCAGCCGGU---------AGAGCGCAUGGCUUUUAACCAUGUGGUCGUG 51
chr-4.trna17-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCAUGGCUUUUAACCAUGUGGUCGUG 51
chr-4.trna18-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCAUGGCUUUUAACCAUGUGGUCGUG 51
chr-4.trna19-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCAUGGCUUUUAACCAUGUGGUCGUG 51
chr-4.trna64-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-12.trna53-Lys-TTT    GCCGUCUUAGCUCAGCCGGU---------AGAGCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-11.trna78-Lys-TTT    GCCGUCUUAGCUCAGCCGGU---------AGAGCGCAUGGCUUUUAACCAUGUGGUCGUG 51
chr-8.trna63-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-8.trna67-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-8.trna84-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCAUGGCUUUUAACCAUGUGGUCGUG 51
chr-9.trna67-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-9.trna68-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-12.trna54-Lys-TTT    GCUGUCUUAGCUCAGCUGGU---------AGAGCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-12.trna55-Lys-TTT    GCCGUCUUAGCUCAGCCGGU---------AGAUCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-9.trna69-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-9.trna66-Lys-TTT     GCCGUCUUAGCUCAGCCGGU---------AGAGCGCGUGGCUUUUAACCACGUGGUCGUG 51
chr-13.trna33-Lys-CTT    GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-3.trna5-Lys-CTT      GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-13.trna101-Lys-CTT   GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-10.trna14-Lys-CTT    GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-3.trna35-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-11.trna75-Lys-CTT    GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-6.trna16-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-7.trna86-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna72-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna71-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna70-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna39-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna66-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna65-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-10.trna108-Lys-CTT   GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna40-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna42-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna41-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna73-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAGGGCUCUUAACCUUGUGGUCGUG 51
chr-8.trna43-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAGGGCUCUUAACCUUGUGGUCGUG 51
chr-3.trna39-Lys-CTT     GCCCGUCUAGUUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-10.trna77-Lys-CTT    GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-4.trna96-Lys-CTT     GCCCGUCUAGCUCAAUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUUGUG 51
chr-3.trna62-Lys-CTT     GCCCGUCUAGCUCAGUCGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 51
chr-4.trna97-Lys-CTT     GCCCAUCUAGCUCAGUUGGU---------AGAGCGCAAGGCUCUUAACCUUGUGGUCAUG 51
chr-4.trna79-Lys-TTT     GGGUGUAUAGCUCAGUUGGU---------AGAGCAUUGGGCUUUUAACCUAAUGGUCGCA 51
chr-12.trna74-Lys-TTT    GUCGUCUUAGCUUAGCCAGU---------AGAGCGCAUGGCUUUUAACCAUGUGAUUGUG 51
chr-7.trna16-Lys-TTT     GCCGUUUUUGCUCAGUCGGU---------AGAUAGCAUGGCUUUUAACCAUGUGGUCGUG 51
chr-4.trna1-Lys-TTT      AUUGUUUUAGUUUAGUCGGU---------AAAGUGUGUGGUUUUUAACCACGUGAUCAUA 51
chr-10.trna15-Lys-TTT    GCAUCCCAUUGUCUAAUGGAU---------AGGACAGAGGUCUUUUAACCUUUGGU-AUA 50
chr-9.trna9-Lys-TTT      UCCCCCAUCGUCUAGCGUUU--------UAGGACACCUCUCUUUUAAGGAGGCAG-GCGG 51
chr-12.trna92-Lys-TTT    GCCCCCAUCAUCUAGCGUUU--------CAGGACACCUCUCUUUUAAGGAGGCGG-CGGG 51
chr-1.trna46-Lys-CTT     AGCCGUCUAGCUCAGUCGGUAGAGCGCAUAGAGCGCAAGGCUCUUAACCUUGUGGUCGUG 60
chr-12.trna95-Lys-TTT    GUUGUUUUAGCUUAGGUGGU---------AGAGUGUAUGACUUUUAAUUAUGUGGUUGUG 51
                         .........10........20........30........40........50.........
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                                 ((........))))))))..)))).
chr-4.trna95-Lys-CTT     GGGUUCGAACUCCAAAGG-GGGCG 74
chr-3.trna30-Lys-TTT     GG-UUCGAUUCCGACAGA-CGGCG 73
chr-3.trna31-Lys-TTT     GG-UUCGAUUCCGACAGA-CGGCG 73
chr-1.trna48-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-1.trna56-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-2.trna59-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-3.trna9-Lys-TTT      GG-UUCGAUUCCCACAGA-CGGCG 73
chr-4.trna17-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-4.trna18-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-4.trna19-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-4.trna64-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-12.trna53-Lys-TTT    GG-UUCGAUUCCCACAGA-CGGCG 73
chr-11.trna78-Lys-TTT    GG-UUCGAUUCCCACAGA-CGGCG 73
chr-8.trna63-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-8.trna67-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-8.trna84-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-9.trna67-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-9.trna68-Lys-TTT     GG-UUCGAUUCCCACAGA-CGGCG 73
chr-12.trna54-Lys-TTT    GG-UUCGAUUCUCACAGA-CGGCG 73
chr-12.trna55-Lys-TTT    GG-UUCGAUUCCCACAGA-CGGCG 73
chr-9.trna69-Lys-TTT     GG-UUCAAUUCCCACAGA-CGGCG 73
chr-9.trna66-Lys-TTT     GA-UUCGAUUCCCACAGA-CGGCG 73
chr-13.trna33-Lys-CTT    GG-UUCGAGCCCCACGGU-GGGCG 73
chr-3.trna5-Lys-CTT      GG-UUCGAGCCCCACGGU-GGGCG 73
chr-13.trna101-Lys-CTT   GG-UUCGAGCCCCACGGU-GGGCG 73
chr-10.trna14-Lys-CTT    GG-UUCGAGCCCCACGGU-GGGCG 73
chr-3.trna35-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-11.trna75-Lys-CTT    GG-UUCGAGCCCCACGGU-GGGCG 73
chr-6.trna16-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-7.trna86-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna72-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna71-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna70-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna39-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna66-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna65-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-10.trna108-Lys-CTT   GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna40-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna42-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna41-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna73-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-8.trna43-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-3.trna39-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-10.trna77-Lys-CTT    GG-UUCGAGCGCCACGGU-GGGCG 73
chr-4.trna96-Lys-CTT     GG-UUCGAGCCCCACGGU-GGGCG 73
chr-3.trna62-Lys-CTT     GG-UUCGAGCCCCACGGU-GGCCG 73
chr-4.trna97-Lys-CTT     GG-UUCGAGCCCAACGGU-GGGCG 73
chr-4.trna79-Lys-TTT     GG-UUCAAGUCCUGCUAU-ACCCA 73
chr-12.trna74-Lys-TTT    GG-UUUAAUUCCCAUAGA-UGGCG 73
chr-7.trna16-Lys-TTT     CG-UUCGAUUCCCACAGA-CGGCG 73
chr-4.trna1-Lys-TTT      GG-UUUGAUUCCUAUAAA-UAGUG 73
chr-10.trna15-Lys-TTT    GG-UUCAAAUCCUAUUGG-ACGCA 72
chr-9.trna9-Lys-TTT      GG-UUCGACUUCCCCUGG-GGGUA 73
chr-12.trna92-Lys-TTT    GA-UUCGACUUCCCCUGG-GGAUA 73
chr-1.trna46-Lys-CTT     GG-UUUGAGCCCCACGGUGGGCCU 83
chr-12.trna95-Lys-TTT    AG-UUAAAUUUCCAUAAA-UAAGU 73
                         .........70........80...
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