```
                        (((((((((.(......).))((..(((((((.......)))))))..))))))......
chr-1.trna16-Lys-TTT    GCCGUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-9.trna20-Lys-TTT    GCCGUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-7.trna54-Lys-TTT    GCCGUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-10.trna88-Lys-TTT   GCCGUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-11.trna35-Lys-TTT   GCCGUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-6.trna56-Lys-TTT    GCCAUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-6.trna55-Lys-TTT    GCCGUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-9.trna82-Lys-TTT    GCCGUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-6.trna53-Lys-TTT    GCCGUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-6.trna45-Lys-TTT    GCCGUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-6.trna20-Lys-TTT    GCCGUCUUAGCUCAGU-GGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-7.trna4-Lys-TTT     GCCGUCUUAGCUCGGU-GGUAGAG-CGCGUGACUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-9.trna83-Lys-TTT    GCCGUCUUAGCUCAGU-GGUAGAGCCGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 57
chr-2.trna65-Lys-TTT    GCCGUCUUAGCUCAGCCGGUAGAG-CGCAUGGCUUUUAACCAUGUGGUCGUGGGUU--CG 57
chr-5.trna34-Lys-TTT    GCCGUCUUAGCUCAGCCGGUAGAG-CGCAUGGCUUUUAACCAUGUGGUCGUGGGUU--CG 57
chr-9.trna88-Lys-TTT    GCCGUCUUAGCUCAGCCGGUAGAG-CGCAUGGCUUUUAACCAUGUGGUCGUGGGUU--CG 57
chr-10.trna57-Lys-TTT   GCCGUCUUAGCUCAGCCGGUAGAG-CGCGUGGCUUUUAACCACGUGGUCGUGGGUU--CG 57
chr-7.trna58-Lys-TTT    GCCGUCUUAGCUCAGCUGGUAGAG-CGCAUGGUUUUUAACCAUGUGGUCGUGGGUU--CG 57
chr-1.trna11-Lys-CTT    GCCCGUCUAGCUCAGUUGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-3.trna6-Lys-CTT     GCCCGUCUAGCUCAGUUGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-5.trna10-Lys-CTT    GCCCGUCUAGCUCAGUUGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-5.trna27-Lys-CTT    GCCCGUCUAGCUCAGUUGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-5.trna28-Lys-CTT    GCCCGUCUAGCUCAGUUGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-9.trna107-Lys-CTT   GCCCGUCUAGCUCAGUUGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-5.trna9-Lys-CTT     GCCCGUCUAGCUCAGUUGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--UG 57
chr-1.trna8-Lys-CTT     GCCCGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-3.trna27-Lys-CTT    GCCCGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-5.trna8-Lys-CTT     GCCCGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-11.trna44-Lys-CTT   GCCCGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-8.trna21-Lys-CTT    GCCCGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-9.trna81-Lys-CTT    GCCCGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-7.trna53-Lys-CTT    GCCUGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-3.trna7-Lys-CTT     GCCCGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-4.trna41-Lys-CTT    GCCCGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-5.trna84-Lys-CTT    GCCCGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-10.trna99-Lys-CTT   GCCCGUCUAGCUCAGUCGGUAGAG-CGCAAGGCUCUUAACCUUGUGGUCGUGGGUU--CG 57
chr-2.trna79-Lys-TTT    GGGUGUAUAGCUUAAUUGGUAGAG-CAUUGGGCUUUUAACCUAAUGGUCGCAGGUU--CA 57
chr-12.trna27-Lys-TTT   GCCGUCUUAGCUCGGU-GGUAGAG-CGCUUGACUUUUAACCACGUGGUCGUGGGUU--CG 56
chr-5.trna7-Lys-CTT     GUCCGUCUAGCUCAGUUAGUAGAG-CACAAGGCUCUUAACCUUGUGGUCAUGGGUU--UG 57
chr-5.trna11-Lys-CTT    GCUCGUCUAGCUUAGGUGGUAAAG-CACAAGGCUCUUAACCUUGUGUUUGUGGGUU--CA 57
chr-1.trna41-Lys-CTT    GCCCGUCUAGCUCAAUUGGUAGAG-CGCAAGGCUCUUAACCUCGUGGUCGUGGAUUCGCG 59
chr-11.trna32-Lys-CTT   GCUGGAAUAGCUCAGUUGGUUAGAGCGUGUGGACCUUAACCUCGAGGUCGGAGGUU--CA 58
chr-6.trna54-Lys-TTT    GUCAUCUUAGCUCAGU-GGUAGAG-CGCUUGGCUUUUAACCACGUGGUCGUGGGUU--UG 56
chr-12.trna17-Lys-TTT   GAGAUCUUAGUUUAAU-GGUAAAA-CAUGAGCCUUUUAAUCUC-UGUUUCCGGGUU--CG 55
                        .........10........20........30........40........50.........

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chr-1.trna16-Lys-TTT    AUCCCCACAGA---CGGCG 72
chr-9.trna20-Lys-TTT    AUCCCCACAGA---CGGCG 72
chr-7.trna54-Lys-TTT    AUCCCCACAGA---CGGCG 72
chr-10.trna88-Lys-TTT   AUCCCCACAGA---CGGCG 72
chr-11.trna35-Lys-TTT   AUCCCCACAGA---CGGCG 72
chr-6.trna56-Lys-TTT    AUCCCCACAGA---UGGCG 72
chr-6.trna55-Lys-TTT    AUCCCCACAGA---CGGCG 72
chr-9.trna82-Lys-TTT    AUCCCCACAGA---CGGCG 72
chr-6.trna53-Lys-TTT    AUCCCCACAGA---CGGCG 72
chr-6.trna45-Lys-TTT    AUCCCCACAGA---CGGCG 72
chr-6.trna20-Lys-TTT    AUCCCCACAGA---CGGCG 72
chr-7.trna4-Lys-TTT     AUCUCCACAGA---CGGCG 72
chr-9.trna83-Lys-TTT    AUCCCCACAGA---CGGCG 73
chr-2.trna65-Lys-TTT    AUUCCCACAGA---CGGCG 73
chr-5.trna34-Lys-TTT    AUUCCCACAGA---CGGCG 73
chr-9.trna88-Lys-TTT    AUUCCCACAGA---CGGCG 73
chr-10.trna57-Lys-TTT   AUUCCCACAGA---CGGCG 73
chr-7.trna58-Lys-TTT    AUUCCCACAGA---CGGCG 73
chr-1.trna11-Lys-CTT    AGCCCCACGGU---GGGCG 73
chr-3.trna6-Lys-CTT     AGCCCCACGGU---GGGCG 73
chr-5.trna10-Lys-CTT    AGCCCCACGGU---GGGCG 73
chr-5.trna27-Lys-CTT    AGCCCCACGGU---GGGCG 73
chr-5.trna28-Lys-CTT    AGCCCCACGGU---GGGCG 73
chr-9.trna107-Lys-CTT   AGCCCCACGGU---GGGCG 73
chr-5.trna9-Lys-CTT     AGCCCCACGGU---GGGCG 73
chr-1.trna8-Lys-CTT     AGCCCCACGGU---GGGCG 73
chr-3.trna27-Lys-CTT    AGCCCCACGGU---GGGCG 73
chr-5.trna8-Lys-CTT     AGCCCCACGGU---GGGCG 73
chr-11.trna44-Lys-CTT   AGCCCCACGGU---GGGCG 73
chr-8.trna21-Lys-CTT    AGCCCCACGGU---GGGCG 73
chr-9.trna81-Lys-CTT    AGCCCCACGGU---GGGCG 73
chr-7.trna53-Lys-CTT    AGCCCCACGGU---GGGCG 73
chr-3.trna7-Lys-CTT     AACCCCACGGU---GGGCG 73
chr-4.trna41-Lys-CTT    AACCCCACGGU---GGGCG 73
chr-5.trna84-Lys-CTT    AACCCCACGGU---GGGCG 73
chr-10.trna99-Lys-CTT   AAUCCCACGGU---GGGCG 73
chr-2.trna79-Lys-TTT    AGUCCUGCUAU---ACCCA 73
chr-12.trna27-Lys-TTT   AUCUCCACAGA---CGGCG 72
chr-5.trna7-Lys-CTT     CGCCCCACGGU---GGGGG 73
chr-5.trna11-Lys-CTT    AGCUCCACGGU---GUGUA 73
chr-1.trna41-Lys-CTT    AGCCCCAUGGU---GGGCG 75
chr-11.trna32-Lys-CTT   AGCCUUCCUUC---UAGCG 74
chr-6.trna54-Lys-TTT    AUCCCCACAAACAGCGAUG 75
chr-12.trna17-Lys-TTT   AUCCCCGGAGA---UCUUA 71
                        .........70........

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