```
                        (((((((...(((((((.(((((.....((....)))))))))))))))).....(((((...
chr-9.trna25-Val-TAC    GUUGCUG---UGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUC 56
chr-1.trna68-Val-TAC    GUUGCUG---UGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUC 56
chr-2.trna50-Val-TAC    GUUGCUG---UGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUC 56
chr-5.trna10-Val-TAC    GUUGCUG---UGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUC 56
chr-5.trna55-Val-TAC    GUUGCUG---UGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUA-AGGUCCCCAGUUC 55
chr-5.trna11-Val-TAC    GUUGCUG---UGGUGUAGUG-GUUAUCACGUCAGUCUUACACACUGAAGGUCUCCAGUUC 56
chr-12.trna55-Val-TAC   GUUGUUG---UGGUGUAGUG-GUUGUCACGUCAGUCUUACACACUGAAGUUCUCUUGUUC 56
chr-12.trna34-Val-CAC   GUCUGGG---UGGUGUAGUUG GUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-8.trna38-Val-CAC    GUCUGGG---UGGUGUAGUUG GUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-5.trna40-Val-CAC    GUCUGGG---UGGUGUAGUUG GUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-12.trna18-Val-CAC   GUCUGGG---UGGUGUAGUUG GUUAUCACGCUAGUCUCACACACUAGAGGACCCCGGUUC 57
chr-1.trna18-Val-CAC    GUCUGGG---UGGUGUAGUCG GUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-6.trna46-Val-CAC    GUCUGGG---UGGUGUAGUCG GUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-7.trna8-Val-CAC     GUCUGGG---UGGUGUAGUCG GUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-4.trna9-Val-CAC     GUCUGGG---UGGUGUAGUCG GUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-1.trna33-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-2.trna20-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-2.trna34-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-12.trna36-Val-AAC   GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-2.trna35-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-2.trna85-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-3.trna40-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-11.trna7-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-3.trna42-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-8.trna52-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-9.trna18-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-1.trna32-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUAAAGGUCUCCGGUUC 57
chr-9.trna31-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-12.trna9-Val-AAC    GGUGUCG---UGGUGUAGUUG GUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-10.trna10-Val-CAC   -GCUUGGGGUUGGUGUAGUG-GUUAUCAUGCUAGUCUCACACACUAGAGGUUCCUGGUUU 58
chr-4.trna19-Val-CAC    CGCUUGGGGUUGGUGUAGUG-GUUAUCAUGCUAGUCUCACACACUAGAGGUUCCUGGUUU 59
chr-2.trna16-Val-AAC    GGUGUGG---UGGUGUAGAUG GUUAUCACGUCAGCCUAACACGCCGAAGGUCUAUAGUUC 57
                        .........10.........20.........30.........40.........50.........
                        ....))))))))))).)).
chr-9.trna25-Val-TAC    GAUCCUGGGCAGCA-ACA 73
chr-1.trna68-Val-TAC    GAUCCUGGGCAGCA-ACA 73
chr-2.trna50-Val-TAC    GAUCCUGGGCAGCA-ACA 73
chr-5.trna10-Val-TAC    GAUCCUGGGCAGCA-ACA 73
chr-5.trna55-Val-TAC    GAUCCUGGGCAGCA-ACA 72
chr-5.trna11-Val-TAC    GAUCCUGGGCAGCA-ACA 73
chr-12.trna55-Val-TAC   GAUCUUGGGCAGCA-ACA 73
chr-12.trna34-Val-CAC   GAACCCGGGCUCAG-ACA 74
chr-8.trna38-Val-CAC    GAACCCGGGCUCAG-ACA 74
chr-5.trna40-Val-CAC    AAACCCGGGCUCAG-ACA 74
chr-12.trna18-Val-CAC   GAACCCGGGCUCAG-ACA 74
chr-1.trna18-Val-CAC    GAACCCGGGCUCAG-ACA 74
chr-6.trna46-Val-CAC    GAACCCGGGCUCAG-ACA 74
chr-7.trna8-Val-CAC     GAACCCGGGCUCAG-ACA 74
chr-4.trna9-Val-CAC     GAACCCGGGCUCAG-ACA 74
chr-1.trna33-Val-AAC    GAACCCGGGCGACG-CCA 74
chr-2.trna20-Val-AAC    GAACCCGGGCGACG-CCA 74
chr-2.trna34-Val-AAC    GAACCCGGGCGACG-CCA 74
chr-12.trna36-Val-AAC   GAACCCGGGCGACG-CCA 74
chr-2.trna35-Val-AAC    GAACCCGGGCGACG-CCA 74
chr-2.trna85-Val-AAC    GAACCCGGGCGACG-CCA 74
chr-3.trna40-Val-AAC    GAACCCGGGCGACG-CCA 74
chr-11.trna7-Val-AAC    GAACCCGGGCGACG-CCA 74
chr-3.trna42-Val-AAC    GAACCCGGGCGACG-CCA 74
chr-8.trna52-Val-AAC    GAACCCGGGCGACG-CCA 74
chr-9.trna18-Val-AAC    GAACCCGGGCGACG-CCA 74
chr-1.trna32-Val-AAC    AAACCCGGGCGACG-CCA 74
chr-9.trna31-Val-AAC    GAACCCGGGUGACG-CCA 74
chr-12.trna9-Val-AAC    GAGUCCGGGCGACG-CCA 74
chr-10.trna10-Val-CAC   GAACUGGGGCUAAGAC-A 75
chr-4.trna19-Val-CAC    GAACUGGGGCUAAGACGA 77
chr-2.trna16-Val-AAC    AAAUCUGGGCGACU-CCG 74
                        .........70.......
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