```
                        ((((((((((((.(((((.............)))))))))))).....(((((.....
chr-10.trna81-Val-AAC   GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGCCUAACACACUGAAGGUCUCCAGUCCGAA 60
chr-1.trna7-Val-AAC     GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAAGUCUCCGGUUUGAG 60
chr-2.trna86-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-2.trna26-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-2.trna29-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-2.trna87-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-3.trna22-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-4.trna11-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-4.trna27-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-6.trna49-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-2.trna114-Val-AAC   GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCAAG 60
chr-2.trna27-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-2.trna30-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-4.trna15-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-7.trna1-Val-AAC     GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-2.trna88-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-1.trna32-Val-AAC    GGUGUUGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-3.trna5-Val-AAC     GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCAGUUCGAA 60
chr-9.trna79-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-2.trna28-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACCCUGAAGGUCUCCGGUUCGAG 60
chr-10.trna63-Val-CAC   GUCUGGGUGGGUGUAGUUGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-11.trna7-Val-CAC    GUCUGGGUGGGUGUAGUUGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-4.trna10-Val-CAC    GUCUGGGUGGGUGUAGUUGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-9.trna102-Val-CAC   GUCUGGGUGGGUGUAGUUGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-6.trna46-Val-CAC    GUCUGGGUGGGUGUAGUUGGUUAUCAUGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-7.trna50-Val-CAC    GUCUGGGUGGGUGUAGUUGGUUAUCAUGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-10.trna1-Val-CAC    GUCUGGGUGGGUGUAGUUGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-1.trna5-Val-CAC     GUCUGGGUGGGUAUAGUUGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-4.trna8-Val-CAC     GUCUGGGUGGGUGUAGUUGGUUAUCACGUUAGUCUCACACACUAAAGGUCCCCGGUUCAAA 60
chr-2.trna66-Val-CAC    GUCUGGGUGGGUGUAGUUGGUUAUCACGUUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-2.trna12-Val-CAC    GUUUGGGUGGGUGUAGUUGGUUAUCACGGUAGUCUCACAUACUAAAGGUCCCUGGUUCAAA 60
chr-7.trna49-Val-CAC    GUCUGGGUGGGUUUAGUUGGUUAUCAUGCUAGUCUCACACACUAGAGGUCCCCGGUUUGAA 60
chr-2.trna55-Val-TAC    GUUGCUGUGGGUGUAGUG-GUCAUCACAUUAGUCUUACACACUAAAGGUCCCCAGUUCGAU 59
chr-2.trna54-Val-TAC    GUUGCUGUGGGUGUAGUG-GUUAUCACGUCAGUCUUACACACUGAAGGUCCCCAGUUCGAU 59
chr-10.trna92-Val-TAC   GUUGCUGUGGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUCAAU 59
chr-1.trna35-Val-TAC    GUUGCUGUGGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUCGAU 59
chr-1.trna36-Val-TAC    GUUGCUGUGGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUCGAU 59
chr-12.trna12-Val-TAC   GUUGCUGUGGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUCGAU 59
chr-12.trna11-Val-TAC   GUUGCUGUGGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUCGAU 59
chr-10.trna52-Val-TAC   GUUGCUGUGGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUCGAU 59
chr-3.trna15-Val-TAC    GUUGCUGUGGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUCGAU 59
chr-1.trna37-Val-TAC    GUUGCUGUGGGUGUAGUG-GUUAUCAUGUUAGUCUUACACACUAAAGGUUCUGAGUUCGAU 59
chr-12.trna18-Val-TAC   GUUGCUGUGGGUGUAGUG-GUUAUCAUGUUAGUCUUACACACUAAAGGUUCUGAGUUCGAU 59
chr-1.trna39-Val-TAC    GUUGUUGUGGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUUCUCUAGUUUGAU 59
chr-1.trna42-Val-TAC    GUUGCCGUAGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUCGAU 59
chr-7.trna3-Val-AAC     AGUGUCGUAGUGUAGUUGGUUAUCAUGUCAUUCUAACACAUUGAAAAUCUUCGGUUCGAG 60
chr-2.trna42-Val-TAC    GUUGUUGUGGGUGUAGUG-GUUAUCACGUUAGUCUUACACACUAAAGGUCCCCAGUUCAAU 59
chr-2.trna59-Val-CAC    GUCCGGGUAGUGUAGUUGGUUAUCACGCUAGUCUCACACACUAGAGGUCUCCGGUUUGAA 60
                        .........10........20........30........40........50.........

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chr-10.trna81-Val-AAC   UCCGAGCGACGCCA 74
chr-1.trna7-Val-AAC     UCUGGACGACGCCA 74
chr-2.trna86-Val-AAC    CCCGGGCGACGCCA 74
chr-2.trna26-Val-AAC    UCCGGGCGACGCCA 74
chr-2.trna29-Val-AAC    UCCGGGCGACGCCA 74
chr-2.trna87-Val-AAC    UCCGGGCGACGCCA 74
chr-3.trna22-Val-AAC    UCCGGGCGACGCCA 74
chr-4.trna11-Val-AAC    UCCGGGCGACGCCA 74
chr-4.trna27-Val-AAC    UCCGGGCGACGCCA 74
chr-6.trna49-Val-AAC    UCCGGGCGACGCCA 74
chr-2.trna114-Val-AAC   UCCGGGCGACGCCA 74
chr-2.trna27-Val-AAC    UCCGGGCGACGCCA 74
chr-2.trna30-Val-AAC    UCCGGGCGACGCCA 74
chr-4.trna15-Val-AAC    UCCGGGCGACGCCA 74
chr-7.trna1-Val-AAC     UCCGGGCGACGCCA 74
chr-2.trna88-Val-AAC    UCCGGGCGAUGCCA 74
chr-1.trna32-Val-AAC    UCCGGGCGACGCCA 74
chr-3.trna5-Val-AAC     UCUGGGCGACGCCA 74
chr-9.trna79-Val-AAC    UCCGGGUGACGCCA 74
chr-2.trna28-Val-AAC    UCCGGGCGACGCCA 74
chr-10.trna63-Val-CAC   CCCGGGCUCAGACA 74
chr-11.trna7-Val-CAC    CCCGGGCUCAGACA 74
chr-4.trna10-Val-CAC    CCCGGGCUCAGACA 74
chr-9.trna102-Val-CAC   CCCGGGCUCAGACA 74
chr-6.trna46-Val-CAC    CCCGGGCUCAGACA 74
chr-7.trna50-Val-CAC    CCCGGGCUCAGACA 74
chr-10.trna1-Val-CAC    CCCGGGCCCAGACA 74
chr-1.trna5-Val-CAC     CCCGGGCUCAGACA 74
chr-4.trna8-Val-CAC     CCCGGGCUUAGACA 74
chr-2.trna66-Val-CAC    CCCGGGCUCAGACA 74
chr-2.trna12-Val-CAC    UCCAGGCUCAGACA 74
chr-7.trna49-Val-CAC    CCUGAGCUUAGACA 74
chr-2.trna55-Val-TAC    CCUGGGCAGCAACA 73
chr-2.trna54-Val-TAC    CCUGGGCAGCAACA 73
chr-10.trna92-Val-TAC   CCUGGGCAGCAACA 73
chr-1.trna35-Val-TAC    CCUGGGCAGCAACA 73
chr-1.trna36-Val-TAC    CCUGGGCAGCAACA 73
chr-12.trna12-Val-TAC   CCUGGGCAGCAACA 73
chr-12.trna11-Val-TAC   CCUGGGCAGCAACA 73
chr-10.trna52-Val-TAC   CCUGGGCAGCAACA 73
chr-3.trna15-Val-TAC    CCUGGGCAGCAACA 73
chr-1.trna37-Val-TAC    CCUGGGCAGCAACA 73
chr-12.trna18-Val-TAC   CCUGGGCAGCAACA 73
chr-1.trna39-Val-TAC    CCUAGGCAACAACA 73
chr-1.trna42-Val-TAC    CUUGGGCAGCAACA 73
chr-7.trna3-Val-AAC     UCCGAGCAAUACCA 74
chr-2.trna42-Val-TAC    UCUAGAUGAAGACU 73
chr-2.trna59-Val-CAC    CUCGGGCUCAAACA 74
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