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                         ((((((((((((........))))))).(((((.......)))))).....(((((.....
chr-8.trna28-Val-CAC     GUCUGGGUGGGUGUAGUUGGUCAUCACGUUAGUCUCACACACUAAAGGUCCCCAGUUCGAA 60
chr-1.trna39-Val-CAC     GUCUGGGUGGGUGUAGUUGGUUAUCACGUUAGUCUCACACACUAAAGGUCCCCAGUUCGAA 60
chr-11.trna5-Val-CAC     GUCUGGGUGGGUGUAGUUGGUUAUCACGUUAGUCUCACACACUAAAGGUCCCCAGUUCGAA 60
chr-11.trna12-Val-CAC    GUCUGGGUGGGUGUAGUUGGUUAUCACGUUAGUCUCACACACUAAAGGUCCCCAGUUCGAA 60
chr-9.trna28-Val-CAC     GUCUGGGUGGGUGUAGUUGGUUAUCACGUUAGUCUCACACACUAAAGGUCCCCAGUUCGAA 60
chr-12.trna3-Val-CAC     GUCUGGGUGGGUGUAGUUGGUUAUCACGUUAGUCUCACACACUAAAGGUCCCCAGUUCGAA 60
chr-3.trna25-Val-CAC     GUCUGGGUGGGUGUAGUUGGUUAUCACGUUAGUCUCACACACUAAAGGUCCCCAGUUCGAA 60
chr-4.trna35-Val-CAC     GUCUGGGUGGGUGUAGUUGGUUAUCACGUUAGUCUCACACACUAAAGGUCCCCAGUUCGAA 60
chr-9.trna29-Val-CAC     GUCUGGGUGGGUGUAGUUGGUCAUCACAUUAGUCUCACACACUAAAGGUCCCCAGUUCGAA 60
chr-1.trna46-Val-AAC     GGUUUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-9.trna15-Val-AAC     GGUUUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-12.trna33-Val-AAC    GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-8.trna9-Val-AAC      GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-3.trna40-Val-AAC     GGUUUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-3.trna42-Val-AAC     GGUUUUGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-4.trna20-Val-AAC     GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-5.trna13-Val-AAC     GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-6.trna3-Val-AAC      GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-8.trna23-Val-AAC     GGUUUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-9.trna10-Val-AAC     GGUUUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-8.trna24-Val-AAC     GGUUUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-3.trna37-Val-AAC     GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-5.trna26-Val-AAC     GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-4.trna3-Val-AAC      GGUGUCGUGGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-3.trna41-Val-AAC     GGUUUCGUGGGUGUAGUUGGUUAUCACGUCAAUCUAACACACUGAAGGUCUCCGGCUAGAG 60
chr-1.trna23-Val-TAC     GUUGCUGUGGGUGUAG-UGGUUAUCACGUCAGUCUUACACACUGAAGGUCUCCAGUUCGAU 59
chr-4.trna29-Val-TAC     GUUGCUGUGGGUGUAG-UGGUUAUCACGUCAGUCUUACACACUGAAGGUCUCCAGUUCGAU 59
chr-5.trna28-Val-TAC     GUUGCUGUGGGUGUAG-UGGUUAUCACGUCAGUCUUACACACUGAAGGUCUCCAGUUCGAU 59
chr-5.trna31-Val-TAC     GUUGCUGUGGGUGUAG-UGGUUAUCACGUCAGUCUUACACACUGAAGGUCUCCAGUUCGAU 59
                         .........10........20........30........40........50.........

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chr-8.trna28-Val-CAC     CCUGGGCUCAGACA 74
chr-1.trna39-Val-CAC     CCUGGGCUCAGACA 74
chr-11.trna5-Val-CAC     CCUGGGCUCAGACA 74
chr-11.trna12-Val-CAC    CCUGGGCUCAGACA 74
chr-9.trna28-Val-CAC     CCUGGGCUCAGACA 74
chr-12.trna3-Val-CAC     CCUGGGCUCAGACA 74
chr-3.trna25-Val-CAC     CCUGGGCUCAGACA 74
chr-4.trna35-Val-CAC     CCUGGGCUCAGACA 74
chr-9.trna29-Val-CAC     CCUGGGCUCAGACA 74
chr-1.trna46-Val-AAC     UCCGGGCGAAGCCA 74
chr-9.trna15-Val-AAC     UCCGGGCGAAGCCA 74
chr-12.trna33-Val-AAC    UCCGGGCGACGCCA 74
chr-8.trna9-Val-AAC      UCCGGGCGACGCCA 74
chr-3.trna40-Val-AAC     UCCGGGCGAAGCCA 74
chr-3.trna42-Val-AAC     UCCGGGCGAAGCCA 74
chr-4.trna20-Val-AAC     UCCGGGCGACGCCA 74
chr-5.trna13-Val-AAC     UCCGGGCGACGCCA 74
chr-6.trna3-Val-AAC      UCCCGGCGACGCCA 74
chr-8.trna23-Val-AAC     CCCGGGCGAAGCCA 74
chr-9.trna10-Val-AAC     CCCGGGCGAAGCCA 74
chr-8.trna24-Val-AAC     CCCGGGCGAAGCCA 74
chr-3.trna37-Val-AAC     CCCGGGCGACGCCA 74
chr-5.trna26-Val-AAC     CCCGGGCGACGCCA 74
chr-4.trna3-Val-AAC      CCCGGGCGACGCCA 74
chr-3.trna41-Val-AAC     UCCGGGCAAAGCCA 74
chr-1.trna23-Val-TAC     CCUGGGCAGCAACA 73
chr-4.trna29-Val-TAC     CCUGGGCAGCAACA 73
chr-5.trna28-Val-TAC     CCUGGGCAGCAACA 73
chr-5.trna31-Val-TAC     CCUGGGCAGCAACA 73
                         .........70...
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