```
                         ((((((((.((((((....))).)))).(((((........)))))).....((((.....
chr-1.trna8-Val-GAC      AGGGAUAUAACUCAGC--GGUAGAGUGUCAUCUUGACG-UGGUAUGAGUUGUCAGUUCGA 57
chr-11.trna9-Val-GAC     AGGGAUAUAACUCAGC--GGUAGAGUGUCACCUUGACG-UGGUGGAAGUCAUCAGUUCGA 57
chr-2.trna36-Val-GAC     AGGGAUAUAACUCAGC--GGUAGAGUGUCACUUUGACG-UGGUGAAAGUCAUCAGUUCGA 57
chr-6.trna96-Val-GAC     AGGGAUAUAACUCAGU--GGUAGAGUGUCACCUUGACG-UGGUGGAAGUCAUCAGUUCGA 57
chr-9.trna26-Val-CAC     GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACACCACUAGAGGUCCCCGGUUCGA 60
chr-8.trna28-Val-CAC     GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACA-CACUAGAGGUCCCCGGUUCGA 59
chr-1.trna92-Val-CAC     GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACA-CACUAGAGGUCCCCGGUUCGA 59
chr-10.trna10-Val-CAC    GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACA-CACUAGAGGUCCCCGGUUCGA 59
chr-10.trna40-Val-CAC    GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACA-CACUAGAGGUCCCCGGUUCGA 59
chr-10.trna35-Val-CAC    GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACA-CACUAGAGGUCCCCGGUUCGA 59
chr-5.trna31-Val-CAC     GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACA-CACUAGAGGUCCCCGGUUCGA 59
chr-5.trna49-Val-CAC     GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACA-CACUAGAGGUCCCCGGUUCGA 59
chr-4.trna27-Val-CAC     GUUUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACA-CACUAGAGGUCCCCGGUUCGA 59
chr-4.trna49-Val-CAC     GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACA-CACUAGAGGUCCCCGGUUCAA 59
chr-9.trna40-Val-CAC     GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACA-CACUAGAGGUCCCCGGUUCGA 59
chr-10.trna41-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUUGA 59
chr-8.trna63-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUUGA 59
chr-1.trna31-Val-AAC     GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-6.trna51-Val-AAC     GGUGUCGUAGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-1.trna89-Val-AAC     GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-1.trna91-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-5.trna11-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-6.trna8-Val-AAC      GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-6.trna47-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-6.trna61-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-6.trna63-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-9.trna27-Val-AAC     GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-6.trna64-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-8.trna2-Val-AAC      GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-9.trna16-Val-AAC     GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-1.trna47-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-6.trna46-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCAA 59
chr-6.trna62-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGGUCGA 59
chr-6.trna65-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCAGUUCGA 59
chr-8.trna60-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-8.trna38-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUUAGUCUAACA-CACUAAAGGUCUCCGGUUUGA 59
chr-1.trna7-Val-AAC      GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-8.trna19-Val-AAC     GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUCGA 59
chr-5.trna12-Val-AAC     GGUUUCGUGGUGUAGUCGGUUAUCACGUCAGUCUAACA-CACUGAAGGUCUCCGGUUUGA 59
chr-1.trna45-Val-TAC     GUUGCUGUGGUGUAGU-GGUUAUCACGUCAGUCUUACA-CACUGAAGGUCCCAGUUCGA 58
chr-1.trna109-Val-TAC    GUUGCUGUGGUGUAGU-GGUUAUCACGUCAGUCUUACA-CACUGAAGGUCCCAGUUCGA 58
chr-5.trna64-Val-TAC     GUUGGUGUGGUGUAGU-GGUUAUCACGUCAGUCUUACA-CACUGAAGGUCCCAGUUCGA 58
chr-5.trna63-Val-TAC     GUUGGUGUGGUGUAGU-GGUUAUCACGUCAGUCUUACA-CACUGAAGGUCCCAGUUCGA 58
chr-5.trna62-Val-TAC     GUUGGUGUGGUGUAGU-GGUUAUCACGUCAGUCUUACA-CACUGAAGGUCCCAGUUCGA 58
chr-12.trna70-Val-TAC    GUUGCUGUGGUGUAGU-GGUUAUCACGUUAGUCUUACA-CACUAAAGGUCCCAGUUCGA 58
chr-7.trna42-Val-TAC     GUUGCUGUGGUGUAGU-GGUUAUCACGUUAGUCUUACA-CACUAAAGGUCCCAGUUCGA 58
chr-9.trna19-Val-TAC     GUUGCUGUGGUGUAGU-GGUUAUCACGUUAGUCUUACA-CACUAAAGGUCCCAGUUCGA 58
chr-5.trna55-Val-TAC     GUUGCUG-GGUGUAGU-GGUUAUCACGUCAGUCUUACA-CACUGAAGGUCCCAGUUCGA 57
                         .........10........20........30........40........50.........
                         ..))))))))))))).
chr-1.trna8-Val-GAC      GCCUGAUUAUCCCUA 72
chr-11.trna9-Val-GAC     GCCUUAUUAUCCCUA 72
chr-2.trna36-Val-GAC     GCCUGAUUAUCCCUA 72
chr-6.trna96-Val-GAC     GCCUGAUUAUCCCUA 72
chr-9.trna26-Val-CAC     ACCCGGGCUCAGAUA 75
chr-8.trna28-Val-CAC     ACCCGGGCUCAGACA 74
chr-1.trna92-Val-CAC     ACCCGGGCUCAGACA 74
chr-10.trna10-Val-CAC    ACCCGGGCUCAGACA 74
chr-10.trna40-Val-CAC    ACCCGGGCUCAGACA 74
chr-10.trna35-Val-CAC    ACCCGGGCUCAGACA 74
chr-5.trna31-Val-CAC     ACCCGGGCUCAGACA 74
chr-5.trna49-Val-CAC     ACCCGGGCUCAGACA 74
chr-4.trna27-Val-CAC     ACCCGGGCUCAGACA 74
chr-4.trna49-Val-CAC     ACCCGGGCUCAGACA 74
chr-9.trna40-Val-CAC     ACCCGGGCUCACACA 74
chr-10.trna41-Val-AAC    GUCCGGGCGACGCCA 74
chr-8.trna63-Val-AAC     GUCCGGGCGAAGCCA 74
chr-1.trna31-Val-AAC     GUCCGGGCGACGCCA 74
chr-6.trna51-Val-AAC     GUCCGGGCGACGCCA 74
chr-1.trna89-Val-AAC     GUCCGGGCGACGCCA 74
chr-1.trna91-Val-AAC     GUCCGGGCGAAGCCA 74
chr-5.trna11-Val-AAC     GUCCGGGCGAAGCCA 74
chr-6.trna8-Val-AAC      GUCCGGGCGACGCCA 74
chr-6.trna47-Val-AAC     GUCCGGGCGAAGCCA 74
chr-6.trna61-Val-AAC     GUCCGGGCGAAGCCA 74
chr-6.trna63-Val-AAC     GUCCGGGCGAAGCCA 74
chr-9.trna27-Val-AAC     GUCCGGGCGACGCCA 74
chr-6.trna64-Val-AAC     GUCCGGGCGAAGCCA 74
chr-8.trna2-Val-AAC      GUCCGGGCGAAGCCA 74
chr-9.trna16-Val-AAC     GUCCGGGCGACGCCA 74
chr-1.trna47-Val-AAC     UUCCGGGCGAAGCCA 74
chr-6.trna46-Val-AAC     GUCCGGGCGAAGCCA 74
chr-6.trna62-Val-AAC     GUCCGGGCGAAGCCA 74
chr-6.trna65-Val-AAC     GUCCGGGCGAAGCCA 74
chr-8.trna60-Val-AAC     GUCCGGGUGAAGCCA 74
chr-8.trna38-Val-AAC     GUCCGGGCGAAGCCA 74
chr-1.trna7-Val-AAC      ACCCGGGCGACGCCA 74
chr-8.trna19-Val-AAC     ACCCGGGCGACGCCA 74
chr-5.trna12-Val-AAC     GUCCGGGCGAAGCCA 74
chr-1.trna45-Val-TAC     UCCUGGGCAGCAACA 73
chr-1.trna109-Val-TAC    UCCUGGGCAGCAACA 73
chr-5.trna64-Val-TAC     UCCUGGGCAUCAACA 73
chr-5.trna63-Val-TAC     UCCUGGGCAUCAACA 73
chr-5.trna62-Val-TAC     CCCUGGGCAUCAACA 73
chr-12.trna70-Val-TAC    UCCUGGGCAGCAACA 73
chr-7.trna42-Val-TAC     UCCUGGGCAGCAACA 73
chr-9.trna19-Val-TAC     UCCUGGGCAGCAACA 73
chr-5.trna55-Val-TAC     UCCUGGGCAUCAACA 72
                         .........70....
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