```
                        ((((((((((((.(((((.....((....)))))))))))))).......((((.....
chr-5.trna16-Val-AAC    GGUGUCAUGCUGUAGUUGGUCUAGCAUGUCAGUUUAACAUGCUGAAGAUCUUUGGUUCA- 59
chr-5.trna15-Val-AAC    GGUGUUGUGGUGUAGUUGGUCUAGCACGUCAGUUUAACACGCGGAAGAUCUCCGGUUCA- 59
chr-4.trna268-Val-AAC   GGUGUCGUGGUGUAGUUGGU-UAGCACAUCAGUUUAACAUGCUGAAGAUCCCCGGUUCA- 58
chr-7.trna56-Val-AAC    GGUGUCAUGGUGUAGCUGGC-UAUCACAUCAGUCUAACACACUGCAGGUCUCCGGUUCA- 58
chr-7.trna586-Val-AAC   GGUGUUGUGGUGUAGCUGGC-UAUCACAUCAGUCUAACACACUGAAGGUCUCCGGUUCA- 58
chr-5.trna340-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUUAGUCUAACACACUGAAGGUCUCUGUUUCA- 58
chr-6.trna409-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUUAGUCUAACACACUGAAGGUCUCUGUUUCA- 58
chr-1.trna329-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-2.trna375-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna126-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-6.trna411-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna531-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna532-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna533-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna535-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-6.trna17-Val-AAC    GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-6.trna16-Val-AAC    GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-1.trna199-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-5.trna194-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna537-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna568-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna571-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna572-Val-AAC   GGUUUUGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna577-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna575-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna359-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUUG- 58
chr-3.trna555-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUUG- 58
chr-3.trna565-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUUG- 58
chr-3.trna570-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-6.trna410-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCA- 58
chr-6.trna19-Val-AAC    GGUUUCGUGGUGUAGUUGGU-CAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCA- 58
chr-3.trna576-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna578-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCG- 58
chr-3.trna557-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCUGGUUCG- 58
chr-3.trna567-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCUGGUUCG- 58
chr-6.trna20-Val-AAC    GG-UUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUAAAGGUCUCCGGUUCG- 57
chr-2.trna159-Val-AAC   GGUUUCGUGGUGUAGUUCGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCA- 58
chr-2.trna601-Val-AAC   GGUUUUGUGGAGUAGUUGGU-UAUCAUGUCAGCCUAACACAAUGAAGGUCACCGGUUCA- 58
chr-2.trna603-Val-AAC   GGUUUUGUGGAGUAGUUGGU-UAUCAUGUCAGCCUAACACAAUGAAGGUCACCGGUUCA- 58
chr-3.trna573-Val-AAC   GGUUUCGUGGUGUAGUUGGU-UAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUUUU 59
                        .........10.........20.........30.........40.........50.........

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chr-5.trna16-Val-AAC    -AAUCUAGACGAUGCUG 75
chr-5.trna15-Val-AAC    -AAUCCGGACAAUGCCA 75
chr-4.trna268-Val-AAC   -AAUCCGGUCGACAUCA 74
chr-7.trna56-Val-AAC    -AACCUGGGUGAUGCCA 74
chr-7.trna586-Val-AAC   -AUCCCGGGCGAUGCCA 74
chr-5.trna340-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-6.trna409-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-1.trna329-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-2.trna375-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna126-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-6.trna411-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna531-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna532-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna533-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna535-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-6.trna17-Val-AAC    -AACCCGGGCGAAGCCA 74
chr-6.trna16-Val-AAC    -AACCCGGGCGAAGCCA 74
chr-1.trna199-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-5.trna194-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna537-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna568-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna571-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna572-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna577-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna575-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna359-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna555-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna565-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-3.trna570-Val-AAC   -AACCUGGGCGAAGCCA 74
chr-6.trna410-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-6.trna19-Val-AAC    -AACCCGGGCGAAGCCA 74
chr-3.trna576-Val-AAC   -ACCCCGGGCGAAGCCA 74
chr-3.trna578-Val-AAC   -ACCCCGGGCGAAGCCA 74
chr-3.trna557-Val-AAC   -AACCCGGGCGAAGCCG 74
chr-3.trna567-Val-AAC   -AACCCGGGCGAAGCCG 74
chr-6.trna20-Val-AAC    -AACCCGGGCGAAGCCA 73
chr-2.trna159-Val-AAC   -AACCCGGGCGAAGCCA 74
chr-2.trna601-Val-AAC   -AUCCCGGACAAAGCUA 74
chr-2.trna603-Val-AAC   -AUCCCGGACAAAGCUA 74
chr-3.trna573-Val-AAC   UUUUCAAAAUGAAGGCA 76
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