```
                         ((((((((((((.(((((.....((....)))))))))))).........((((.....
chr-1A.trna52-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1B.trna46-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1B.trna47-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1C.trna40-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1C.trna41-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1D.trna73-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-6B.trna70-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-6C.trna18-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-2A.trna31-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-4C.trna38-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-4B.trna43-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-6D.trna14-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-2C.trna28-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-7C.trna84-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-5C.trna1-Val-AAC     GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-7B.trna2-Val-AAC     GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-2C.trna60-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-5B.trna73-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-2D.trna39-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-7A.trna105-Val-AAC   GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-2A.trna45-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1D.trna68-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1D.trna69-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-6A.trna17-Val-AAC    GUUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1A.trna54-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1B.trna45-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1B.trna68-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-8B.trna38-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-3C.trna16-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-3C.trna17-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-5A.trna25-Val-AAC    GUUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-6D.trna2-Val-AAC     GUUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-5A.trna26-Val-AAC    GUUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-6C.trna5-Val-AAC     GUUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-5D.trna21-Val-AAC    GUUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-6A.trna1-Val-AAC     GUUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-2D.trna30-Val-AAC    GGUUUCGUGGUGUAGUUGGUCAUCACGUCAGUCUAACACACUGAAGGUCCCCGGUU-CGA 59
chr-2C.trna82-Val-AAC    GGUUUCGUGGUGUAGUUGGUCAUCACGUCAGUCUAACACACUGAAGGUCCCCGGUU-CGA 59
chr-2A.trna29-Val-AAC    GGUUUCGUGGUGUAGUUGGUCAUCACGUCAGUCUAACACACUGAAGGUCCCCGGUU-CGA 59
chr-2B.trna37-Val-AAC    GGUUUCGUGGUGUAGUUGGUCAUCACGUCAGUCUAACACACUGAAGGUCCCCGGUU-CGA 59
chr-7A.trna89-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCAGGUU-CGA 59
chr-1B.trna42-Val-AAC    GGUUUCGUGGUGUAGUUGGUUGUCACGUCAGUCUAACACACUGAAGGUCUCCAGUU-CGA 59
chr-1A.trna51-Val-AAC    GGUUUCGUGGUGUAGUUGGUUGUCACGUCAGUCUAACACACUGAAGGUCUCCAGUU-CGA 59
chr-2C.trna44-Val-AAC    GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCCGA 60
chr-1B.trna43-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-5A.trna65-Val-AAC    GGUGUCGUUGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUUCGGUU-CGA 59
chr-2A.trna66-Val-AAC    GGUUUCGUGGUGUAGUUAAUUAUCACGUCAGUCUAACACACUGAAGGUCUCCAGUU-CGA 59
chr-7D.trna78-Val-AAC    GAUGUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-4D.trna45-Val-AAC    UGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 59
chr-1B.trna62-Val-AAC    GGUUUCGUGGUGUAGUUGGUUGUCACGUCAGUCUAACACACUGAAGGUCUCCAGUU-CGA 59
chr-2A.trna32-Val-AAC    GGUUUCGUGGUGUAGUUGAUUAUCACGUCAGUCUAACACGCUGAAGGUCUCCGGUU-CGA 59
chr-1D.trna76-Val-AAC    ------GUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUU-CGA 53
                         .........10........20........30........40........50.........
                         ..))))))))))))).
chr-1A.trna52-Val-AAC    ACCCGGGCGAAGCCA 74
chr-1B.trna46-Val-AAC    ACCCGGGCGAAGCCA 74
chr-1B.trna47-Val-AAC    ACCCGGGCGAAGCCA 74
chr-1C.trna40-Val-AAC    ACCCGGGCGAAGCCA 74
chr-1C.trna41-Val-AAC    ACCCGGGCGAAGCCA 74
chr-1D.trna73-Val-AAC    ACCCGGGCGAAGCCA 74
chr-6B.trna70-Val-AAC    ACCCGGGCGAAGCCA 74
chr-6C.trna18-Val-AAC    ACCCGGGCGAAGCCA 74
chr-2A.trna31-Val-AAC    ACCCGGGCGAAGCCA 74
chr-4C.trna38-Val-AAC    ACCCGGGCGAAGCCA 74
chr-4B.trna43-Val-AAC    ACCCGGGCGAAGCCA 74
chr-6D.trna14-Val-AAC    ACCCGGGCGAAGCCA 74
chr-2C.trna28-Val-AAC    ACCCGGGCGAAGCCA 74
chr-7C.trna84-Val-AAC    ACCCGGGCGACGCCA 74
chr-5C.trna1-Val-AAC     ACCCGGGCGACGCCA 74
chr-7B.trna2-Val-AAC     ACCCGGGCGACGCCA 74
chr-2C.trna60-Val-AAC    ACCCGGGCGACGCCA 74
chr-5B.trna73-Val-AAC    ACCCGGGCGACGCCA 74
chr-2D.trna39-Val-AAC    ACCCGGGCGACGCCA 74
chr-7A.trna105-Val-AAC   ACCCGGGCGACGCCA 74
chr-2A.trna45-Val-AAC    ACCCGGGCGACGCCA 74
chr-1D.trna68-Val-AAC    GUCCAGGCGACGCCA 74
chr-1D.trna69-Val-AAC    GUCCAGGCGACGCCA 74
chr-6A.trna17-Val-AAC    GUCCUGGCGAAAACA 74
chr-1A.trna54-Val-AAC    GUCCGGGCGACGCCA 74
chr-1B.trna45-Val-AAC    GUCCGGGCGACGCCA 74
chr-1B.trna68-Val-AAC    GUCCGGGCGACGCCA 74
chr-8B.trna38-Val-AAC    GUCCGGGCGACGCCA 74
chr-3C.trna16-Val-AAC    GUCCGGGCGAAGCCA 74
chr-3C.trna17-Val-AAC    GUCCGGGCGAAGCCA 74
chr-5A.trna25-Val-AAC    GUCCGGGCGAAAACA 74
chr-6D.trna2-Val-AAC     GUCCGGGCGAAAACA 74
chr-5A.trna26-Val-AAC    GUCCGGGCGAAAACA 74
chr-6C.trna5-Val-AAC     GUCCGGGCGAAAACA 74
chr-5D.trna21-Val-AAC    GUCCGGGCGAAAACA 74
chr-6A.trna1-Val-AAC     GUCCGGGCGAAAACA 74
chr-2D.trna30-Val-AAC    GCCCGGGCGAAACCA 74
chr-2C.trna82-Val-AAC    GCCCGGGCGAAACCA 74
chr-2A.trna29-Val-AAC    GCCCGGGCGAAACCA 74
chr-2B.trna37-Val-AAC    GCCCGGGCGAAACCA 74
chr-7A.trna89-Val-AAC    ACCCGGGCGACGCCA 74
chr-1B.trna42-Val-AAC    ACCCGGGCGAAGCCA 74
chr-1A.trna51-Val-AAC    ACCCGGGCGAAGCCA 74
chr-2C.trna44-Val-AAC    ACCCGGGCGACGCCA 75
chr-1B.trna43-Val-AAC    ACCAGGGCGAAGCCA 74
chr-5A.trna65-Val-AAC    ACCCGGGCGACGCCA 74
chr-2A.trna66-Val-AAC    GUCCGGGCGAAGCCA 74
chr-7D.trna78-Val-AAC    ACCCGGGCGACGCCA 74
chr-4D.trna45-Val-AAC    ACCCUGGCGAAGCCA 74
chr-1B.trna62-Val-AAC    CCCGGGGUGAAGCCA 74
chr-2A.trna32-Val-AAC    ACCCAGGCGAUGCCA 74
chr-1D.trna76-Val-AAC    GUCCGGGCGACGCCA 68
                         .........70....
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