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                         ((((((((((..((((...((..(((...(((((.......)))))..)))..))))))).
chr-6.trna41-Val-CAC     GUCUGGGUGGUGUAGUC---GGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-8.trna61-Val-CAC     GUCUGGGUGGUGUAGUC---GGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-8.trna8-Val-CAC      GUCUGGGUGGUGUAGUC---GGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-1.trna110-Val-CAC    GUCUGGGUGGUGUAGUC---GGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-1.trna111-Val-CAC    GUCUGGGUGGUGUAGUC---GGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-3.trna17-Val-CAC     GUCUGGGUGGUGUAGUC---GGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-8.trna15-Val-CAC     GUCUGGGUGGUGUAGUC---GGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-7.trna4-Val-CAC      GUUUGGGUGGUGUAGUC---GGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUC 57
chr-1.trna82-Val-AAC     GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-1.trna101-Val-AAC    GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-4.trna51-Val-AAC     GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-8.trna58-Val-AAC     GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-5.trna15-Val-AAC     GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-8.trna10-Val-AAC     GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-5.trna30-Val-AAC     GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-8.trna2-Val-AAC      GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-7.trna41-Val-AAC     GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-5.trna56-Val-AAC     GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-6.trna10-Val-AAC     GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-1.trna81-Val-AAC     GGUUUCGUGGUGUAGUU---GGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUC 57
chr-7.trna3-Val-CAC      GUCUGGUUGGUGUAGUC---GGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUU 57
chr-1.trna122-Val-TAC    GGUGCUGUAGUGUAGU----GGUUAUCACGUUUGCUUUACACGCAAAAGGUCUCCGGUUC 56
chr-6.trna49-Val-TAC     GGUGCUGUAGUGUAGU----GGUUAUCACGUUUGCUUUACACGCAAAAGGUCUCCGGUUC 56
chr-5.trna3-Val-TAC      GGUGCUGUAGUGUAGU----GGUUAUCACGUUUGCUUUACACGCAAAAGGUCUCCGGUUC 56
chr-3.trna10-Val-TAC     GGUGCUAUGGUGUAGU----GGUUAUCACGUUUGCCUUACACGCAAAAGGUCUCCAGUUC 56
chr-5.trna17-Val-TAC     GGUGCUGUGGUGUAGU----GGUUAUCACGUUUGCCUUACACGCAAAAGGUCUCCAGUUC 56
chr-4.trna64-Val-TAC     GGUGCUGUGGUGUAGU----GGUUAUCACGUUUGCUUUACACGCAAAAGGUCUCCGGUUC 56
chr-2.trna28-Val-GAC     AGGGAUAUAACUCAGC-----GGUAGAGUGUCACCUUGACGUGGUGGAAGUCAUCAGUUC 55
chr-4.trna65-Val-TAC     GUUGUGGUGUAGUGGUUAUCAGUUAUCACGUUUGCCUUACACGCAAAAGGUCUCCCGUUC 60
                         .........10.........20.........30.........40.........50.........

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chr-6.trna41-Val-CAC     GAACCCGGGCUCAGACA 74
chr-8.trna61-Val-CAC     GAACCCGGGCUCAGACA 74
chr-8.trna8-Val-CAC      GAACCCGGGCUCAGACA 74
chr-1.trna110-Val-CAC    GAACCCGGGCUCAGACA 74
chr-1.trna111-Val-CAC    GAACCCGGGCUCAGACA 74
chr-3.trna17-Val-CAC     GAACCCGGGCUCAGACA 74
chr-8.trna15-Val-CAC     GAACCCGGGCUCAGACA 74
chr-7.trna4-Val-CAC      GAACCCGGGCUCAGACA 74
chr-1.trna82-Val-AAC     GAACCCGGGCGAAGCCA 74
chr-1.trna101-Val-AAC    GAACCCGGGCGAAGCCA 74
chr-4.trna51-Val-AAC     GAACCCGGGCGAAGCCA 74
chr-8.trna58-Val-AAC     GAACCCGGGCGAAGCCA 74
chr-5.trna15-Val-AAC     GAACCCGGGCGAAGCCA 74
chr-8.trna10-Val-AAC     GAACCCGGGCGAAGCCA 74
chr-5.trna30-Val-AAC     GAACCCGGGCGAAGCCA 74
chr-8.trna2-Val-AAC      GAACCCGGGCGAAGCCA 74
chr-7.trna41-Val-AAC     GAACCCGGGCGAAGCCA 74
chr-5.trna56-Val-AAC     GAACCCGGGCGAAGCCA 74
chr-6.trna10-Val-AAC     GAACCCGGGCGAAGCCA 74
chr-1.trna81-Val-AAC     GAACUCGGGCGAAGCCA 74
chr-7.trna3-Val-CAC      GAACCCGGGAUUAGACA 74
chr-1.trna122-Val-TAC    GAUCCCGGGCAGCACCA 73
chr-6.trna49-Val-TAC     GAUCCUGGGCAGCACCA 73
chr-5.trna3-Val-TAC      GAUCCCGGGCAGCACCA 73
chr-3.trna10-Val-TAC     GAUCCUGGGUAGCACCA 73
chr-5.trna17-Val-TAC     GAUCCUGGGCAGCAUCA 73
chr-4.trna64-Val-TAC     GAACCCGGGUAGCAUCA 73
chr-2.trna28-Val-GAC     GAGCCUAAUUAUCCCUA 72
chr-4.trna65-Val-TAC     GAUACUGGGCAGAAACC 77
                         .........70......
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