```
                        ((........(((((...((((.....))))...(((((.......)))))....(((((
chr-1.trna7-Gly-GCC     GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-1.trna151-Gly-GCC   GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-1.trna152-Gly-GCC   GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-1.trna192-Gly-GCC   GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-1.trna193-Gly-GCC   GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-2.trna16-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-2.trna17-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-5.trna65-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-2.trna55-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-3.trna48-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-3.trna51-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-5.trna23-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-3.trna56-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-3.trna91-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-4.trna35-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-1.trna111-Gly-GCC   GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-2.trna37-Gly-GCC    GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-1.trna153-Gly-GCC   GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-1.trna154-Gly-GCC   GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-5.trna116-Gly-GCC   GC--------ACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-1.trna121-Gly-GCC   GC--------ACCAGUGGUCUAGUGG-CAUGAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-5.trna125-Gly-GCC   GC--------ACCAGUGGUCUAGUGG-CAUGAUAGUACCCUGCCACGGUACAGACCCGGG 51
chr-3.trna60-Gly-CCC    GC--------GCAUCUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCAGGG 51
chr-5.trna80-Gly-CCC    GC--------GCAUCUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCAGGG 51
chr-4.trna6-Gly-CCC     GC--------GCAUCUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCAGGG 51
chr-2.trna43-Gly-CCC    GC--------GCAUCUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCAGGG 51
chr-4.trna62-Gly-CCC    GC--------GCAUCUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCAGGG 51
chr-1.trna14-Gly-TCC    GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-3.trna74-Gly-TCC    GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-1.trna184-Gly-TCC   GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-4.trna66-Gly-TCC    GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-5.trna13-Gly-TCC    GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-5.trna34-Gly-TCC    GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-3.trna36-Gly-TCC    GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-2.trna58-Gly-TCC    GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-2.trna57-Gly-TCC    GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-5.trna50-Gly-TCC    GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-5.trna108-Gly-TCC   GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-5.trna51-Gly-TCC    GC--------GUCUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG 52
chr-5.trna89-Gly-GCC    GCUUUCCCUUUUCAGUGGUCUAGUGG-CAUGAUAGUACCCUGCCACGGUACAGACCCGGG 59
                        .........10........20........30........40........50.........

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chr-1.trna7-Gly-GCC     UUCGAUUCCCGGCUGGUGCA 71
chr-1.trna151-Gly-GCC   UUCGAUUCCCGGCUGGUGCA 71
chr-1.trna152-Gly-GCC   UUCGAUUCCCGGCUGGUGCA 71
chr-1.trna192-Gly-GCC   UUCGAUUCCCGGCUGGUGCA 71
chr-1.trna193-Gly-GCC   UUCGAUUCCCGGCUGGUGCA 71
chr-2.trna16-Gly-GCC    UUCGAUUCCCGGCUGGUGCA 71
chr-2.trna17-Gly-GCC    UUCGAUUCCCGGCUGGUGCA 71
chr-5.trna65-Gly-GCC    UUCGAUUCCCGGCUGGUGCA 71
chr-2.trna55-Gly-GCC    UUCGAUUCCCGGCUGGUGCA 71
chr-3.trna48-Gly-GCC    UUCGAUUCCCGGCUGGUGCA 71
chr-3.trna51-Gly-GCC    UUCGAUUCCCGGCUGGUGCA 71
chr-5.trna23-Gly-GCC    UUCGAUUCCCGGCUGGUGCA 71
chr-3.trna56-Gly-GCC    UUCGAUUCCCGGCUGGUGCA 71
chr-3.trna91-Gly-GCC    UUCGAUUCCCGGCUGGUGCA 71
chr-4.trna35-Gly-GCC    UUCGAUUCCCGGCUGGUGCA 71
chr-1.trna111-Gly-GCC   UUCAAUUCCCGGCUGGUGCA 71
chr-2.trna37-Gly-GCC    UUCAAUUCCCGGCUGGUGCA 71
chr-1.trna153-Gly-GCC   UUAGAUUCCCGGCUGGUGCA 71
chr-1.trna154-Gly-GCC   UUAGAUUCCCGGCUGGUGCA 71
chr-5.trna116-Gly-GCC   UUCGAUUCCUUGCUGGUGCA 71
chr-1.trna121-Gly-GCC   UUCAAUUCCCGGCUGGUGCA 71
chr-5.trna125-Gly-GCC   UUCAAUUCCCGGCUGGUGCA 71
chr-3.trna60-Gly-CCC    UUCGAUUCCCUGGAUGCGCA 71
chr-5.trna80-Gly-CCC    UUCGAUUCCCUGGAUGCGCA 71
chr-4.trna6-Gly-CCC     UUCGAUUCCCUGGAUGCGCA 71
chr-2.trna43-Gly-CCC    UUCGAUUCCCUGGAUGCGCA 71
chr-4.trna62-Gly-CCC    UUCGAUUCCCUGGAUGCGCA 71
chr-1.trna14-Gly-TCC    UUCGACUCCCGGCAGACGCA 72
chr-3.trna74-Gly-TCC    UUCGACUCCCGGCAGACGCA 72
chr-1.trna184-Gly-TCC   UUCGACUCCCGGCAGACGCA 72
chr-4.trna66-Gly-TCC    UUCGACUCCCGGCAGACGCA 72
chr-5.trna13-Gly-TCC    UUCGACUCCCGGCAGACGCA 72
chr-5.trna34-Gly-TCC    UUCGACUCCCGGCAGACGCA 72
chr-3.trna36-Gly-TCC    UUCGACUCCCGGCAGACGCA 72
chr-2.trna58-Gly-TCC    UUCGACUCCCGGCAGACGCA 72
chr-2.trna57-Gly-TCC    UUCGACUCCCGGCAGACGCA 72
chr-5.trna50-Gly-TCC    UUCGACUCCCGGCAGACGCA 72
chr-5.trna108-Gly-TCC   UUCGACUCCCGGCAGACGCA 72
chr-5.trna51-Gly-TCC    UUCGACUCCCGGCAGACGCA 72
chr-5.trna89-Gly-GCC    UUCAAUUCCCGGCUGGUGCA 79
                        .........70.........

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