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                        ((((((((((((.............(((((.......)))))))))))(((((.......)
chr-Ca1.trna59-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca1.trna74-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca8.trna7-Gly-GCC   GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca2.trna4-Gly-GCC   GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca2.trna9-Gly-GCC   GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca7.trna27-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca2.trna12-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca7.trna8-Gly-GCC   GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca2.trna30-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca6.trna70-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca2.trna44-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca6.trna23-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca3.trna5-Gly-GCC   GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca3.trna52-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca5.trna64-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca3.trna53-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca3.trna54-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca4.trna76-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca7.trna26-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCUAUUC 59
chr-Ca7.trna31-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUAC 59
chr-Ca2.trna29-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGAUCCGGGUUCGAUUC 59
chr-Ca6.trna33-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGAUUCGAUUC 59
chr-Ca3.trna51-Gly-GCC  GCACCAGUGGUCUAGUGG-UAGAAUAGUAUCCUGCCACGGUACAGACCCGGGUUCGAUUC 59
chr-Ca1.trna54-Gly-CCC  GCGCAUCUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCAGGGUUCGAUUC 59
chr-Ca4.trna4-Gly-CCC   GCGCAUCUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCAGGGUUCGAUUC 59
chr-Ca3.trna31-Gly-CCC  GCGCAUCUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCAGGGUUCGAUUC 59
chr-Ca2.trna33-Gly-CCC  GCGCAUCUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCAGGGUUCGAUUC 59
chr-Ca5.trna44-Gly-CCC  GCGCAUCUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCAGGGUUCGAUUC 59
chr-Ca1.trna63-Gly-TCC  GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGACUC 60
chr-Ca1.trna69-Gly-TCC  GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGACUC 60
chr-Ca1.trna73-Gly-TCC  GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGACUC 60
chr-Ca6.trna80-Gly-TCC  GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGACUC 60
chr-Ca5.trna17-Gly-TCC  GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGACUC 60
chr-Ca6.trna16-Gly-TCC  GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGACUC 60
chr-Ca5.trna67-Gly-TCC  GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGACUC 60
chr-Ca5.trna27-Gly-TCC  GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGACUC 60
chr-Ca3.trna57-Gly-TCC  GCGUUUGUAGUCCAACGGUUAGGAAAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGACUC 60
chr-Ca7.trna29-Gly-GCC  G------UGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAUUC 53
                        .........10........20........30........40........50.........

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chr-Ca1.trna59-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca1.trna74-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca8.trna7-Gly-GCC   CCGGCUGGUGCA 71
chr-Ca2.trna4-Gly-GCC   CCGGCUGGUGCA 71
chr-Ca2.trna9-Gly-GCC   CCGGCUGGUGCA 71
chr-Ca7.trna27-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca2.trna12-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca7.trna8-Gly-GCC   CCGGCUGGUGCA 71
chr-Ca2.trna30-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca6.trna70-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca2.trna44-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca6.trna23-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca3.trna5-Gly-GCC   CCGGCUGGUGCA 71
chr-Ca3.trna52-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca5.trna64-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca3.trna53-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca3.trna54-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca4.trna76-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca7.trna26-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca7.trna31-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca2.trna29-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca6.trna33-Gly-GCC  CCGGCUGGUGCA 71
chr-Ca3.trna51-Gly-GCC  CCGGCUGGUAUA 71
chr-Ca1.trna54-Gly-CCC  CCUGGAUGCGCA 71
chr-Ca4.trna4-Gly-CCC   CCUGGAUGCGCA 71
chr-Ca3.trna31-Gly-CCC  CCUGGAUGCGCA 71
chr-Ca2.trna33-Gly-CCC  CCUGGAUGCGCA 71
chr-Ca5.trna44-Gly-CCC  CCCGGAUGCGCA 71
chr-Ca1.trna63-Gly-TCC  CCGGCAAACGCA 72
chr-Ca1.trna69-Gly-TCC  CCGGCAAACGCA 72
chr-Ca1.trna73-Gly-TCC  CCGGCAAACGCA 72
chr-Ca6.trna80-Gly-TCC  CCGGCAAACGCA 72
chr-Ca5.trna17-Gly-TCC  CCGGCAAACGCA 72
chr-Ca6.trna16-Gly-TCC  CCGGCAAACGCA 72
chr-Ca5.trna67-Gly-TCC  CCGGCAAACGCA 72
chr-Ca5.trna27-Gly-TCC  CCGGCAAAAGCA 72
chr-Ca3.trna57-Gly-TCC  CCGGCAAACGCA 72
chr-Ca7.trna29-Gly-GCC  CCGGCUGGUGCA 65
                        .........70.
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