```
                                 ((((((.(...((((.....))))...(((((.......)))))....(((((.......
chr-A08.trna43-Gly-TCC     GCGUCA-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGAUCCGGGU--UCGA 57
chr-B08.trna219-Gly-TCC    GCGUCA-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGAUCCGGGU--UCGA 57
chr-A01.trna61-Gly-TCC     GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B10.trna3-Gly-TCC      GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A10.trna37-Gly-TCC     GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B10.trna139-Gly-TCC    GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A08.trna68-Gly-TCC     GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A08.trna57-Gly-TCC     GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A02.trna55-Gly-TCC     GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A02.trna56-Gly-TCC     GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B08.trna100-Gly-TCC    GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B08.trna92-Gly-TCC     GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B01.trna8-Gly-TCC      GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A02.trna98-Gly-TCC     GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A07.trna1-Gly-TCC      GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B03.trna5-Gly-TCC      GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A03.trna4-Gly-TCC      GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A05.trna32-Gly-TCC     GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B03.trna133-Gly-TCC    GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B03.trna262-Gly-TCC    GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B03.trna263-Gly-TCC    GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B07.trna22-Gly-TCC     GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B03.trna1-Gly-TCC      GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B02.trna183-Gly-TCC    GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A02.trna119-Gly-TCC    ACGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-B05.trna114-Gly-TCC    GCGUUU-GUAGUCCAACGGUUAGGAUAAUUUCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A07.trna179-Gly-TCC    GCGUUU-GUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCGGGU--UCGA 57
chr-A02.trna2-Gly-CCC      GCGCAU-CUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGU--UCGA 56
chr-A02.trna15-Gly-CCC     GCGCAU-CUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGU--UCGA 56
chr-B08.trna87-Gly-CCC     GCGCAU-CUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGU--UCGA 56
chr-B06.trna275-Gly-CCC    GCGCAU-CUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGU--UCGA 56
chr-A04.trna48-Gly-CCC     GCGCAU-CUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGU--UCGA 56
chr-A06.trna71-Gly-CCC     GCGCAU-CUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGU--UCGA 56
chr-A07.trna162-Gly-CCC    GCGCAU-CUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGU--UCGA 56
chr-A08.trna52-Gly-CCC     GCGCAU-CUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGU--UCGA 56
chr-A08.trna6-Gly-CCC      GCGCAU-GUGGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGU--UCGA 56
chr-A01.trna58-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A01.trna73-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A01.trna110-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A02.trna49-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A02.trna51-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A02.trna64-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A02.trna88-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A03.trna28-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A03.trna75-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B07.trna40-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A03.trna139-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A03.trna145-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A04.trna70-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B05.trna250-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B05.trna150-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B05.trna149-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B05.trna134-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A04.trna76-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B04.trna63-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B04.trna53-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A05.trna23-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A05.trna24-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B03.trna245-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B03.trna241-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B01.trna4-Gly-GCC      GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B03.trna121-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B01.trna104-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B03.trna28-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B03.trna27-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B01.trna261-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B02.trna8-Gly-GCC      GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B02.trna9-Gly-GCC      GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B02.trna176-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B02.trna15-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-B02.trna101-Gly-GCC    GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A03.trna27-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACUCUGCCACGGUACAGACCGGGGU--UCGA 56
chr-A05.trna62-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGU--UCAA 56
chr-A02.trna52-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCAUGGUACAGACCGGGGU--UCGA 56
chr-A03.trna74-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCGGGGUUCUCGA 58
chr-A02.trna65-Gly-GCC     GCACCA-GUGGUCUAGUGG-UAAGAAAGUACCCUGCCACGGUAC-GACCCGGGU--UCGA 55
chr-B03.trna113-Gly-GCC    GCAAAU-AUAGUCCAAUAA-UAAAAUUUUUCUUUGCCAAGGAGAAGACGCGGGU--UCGA 56
chr-B02.trna168-Gly-GCC    GCAAAU-AUAGUCCAAUAG-UAAAAUUUUUCUUUGCCACGGAGAAGACGUGGGU--UCGA 56
chr-A08.trna73-Gly-GCC     GCGGAU-AUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCGGGG--UCGA 56
chr-B06.trna56-Gly-GCC     GCGGAU-AUAGUCGAAAGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCGGGU--UCGU 56
chr-A07.trna12-Gly-GCC     GCGGAU-AUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCGGGU--UCGA 56
chr-B02.trna169-Gly-ACC    GUGGAU-AUAGUCGAAUAG-UAAAAUUUCUCUUUACCAAGGAGAAGAUGCGGGU--UUGA 56
chr-A01.trna32-Gly-GCC     UGCGGAUAUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCGGGU--UCAA 57
chr-B08.trna164-Gly-GCC    AU-AUA----GUUGAAUGG-UAAAAUUUUUCUUUGCCAAGAAAAAAAUGCGACGU--UCGA 52
chr-B08.trna120-Gly-GCC    GUCUAU---AGCUCAGUGG-UAGAACAUUUGACUGCCAAUCAAGAGAUCCCUGAGAU-AC 55
                           .........10........20........30........40........50.........
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                           ..)))))))))).))).
chr-A08.trna43-Gly-TCC     CUCCCGGCUGA-CGCA 72
chr-B08.trna219-Gly-TCC    CUCCCGGCUGA-CGCA 72
chr-A01.trna61-Gly-TCC     CUCCCGGCAAA-CGCA 72
chr-B10.trna3-Gly-TCC      CUCCCGGCAAA-CGCA 72
chr-A10.trna37-Gly-TCC     CUCCCGGCAAA-CGCA 72
chr-B10.trna139-Gly-TCC    CUCCCGGCAAA-CGCA 72
chr-A08.trna68-Gly-TCC     CUCCCGGCAAA-CGCA 72
chr-A08.trna57-Gly-TCC     CUCCCGGCAAA-CGCA 72
chr-A02.trna55-Gly-TCC     CUCCCGGCAAA-CGCA 72
chr-A02.trna56-Gly-TCC     CUCCCGGCAAA-CGCA 72
chr-B08.trna100-Gly-TCC    CUCCCGGCAAA-UGCA 72
chr-B08.trna92-Gly-TCC     CUCCCGGCAAA-CGCA 72
chr-B01.trna8-Gly-TCC      CUCCCGGCAAA-CGCA 72
chr-A02.trna98-Gly-TCC     CUCCCGGCAAA-CGCA 72
chr-A07.trna1-Gly-TCC      CUCCCGGCAAA-CGCA 72
chr-B03.trna5-Gly-TCC      CUCCCGGCAAA-CGCA 72
chr-A03.trna4-Gly-TCC      CUCCCGGCAAA-CGCA 72
chr-A05.trna32-Gly-TCC     CUCCCGGCAAA-CGCA 72
chr-B03.trna133-Gly-TCC    CUCCCGGCAAA-CGCA 72
chr-B03.trna262-Gly-TCC    CUCCCGGCAAA-CGCA 72
chr-B03.trna263-Gly-TCC    CUCCCGGCAAA-CGCA 72
chr-B07.trna22-Gly-TCC     CUCCCGGCAAA-CGCA 72
chr-B03.trna1-Gly-TCC      CUCCCGGCAAA-CGCA 72
chr-B02.trna183-Gly-TCC    CUCCCGGCAAA-CGCA 72
chr-A02.trna119-Gly-TCC    CUCCCGGCAAA-CGCA 72
chr-B05.trna114-Gly-TCC    CUCCCGGCAAA-CGCA 72
chr-A07.trna179-Gly-TCC    CUCCCGAAGAGCCACU 73
chr-A02.trna2-Gly-CCC      UUCCCCGGAUG-CGCA 71
chr-A02.trna15-Gly-CCC     UUCCCCGGAUG-CGCA 71
chr-B08.trna87-Gly-CCC     UUCCCCGGAUG-CGCA 71
chr-B06.trna275-Gly-CCC    UUCCCCGGAUG-CGCA 71
chr-A04.trna48-Gly-CCC     UUCCCCGGAUG-CGCA 71
chr-A06.trna71-Gly-CCC     UUCCCCGGAUG-CGCA 71
chr-A07.trna162-Gly-CCC    UUCCCCGGAUG-CGCA 71
chr-A08.trna52-Gly-CCC     UUCCCCGGAUG-CGCA 71
chr-A08.trna6-Gly-CCC      UUCCACGGAUG-CUUA 71
chr-A01.trna58-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A01.trna73-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A01.trna110-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-A02.trna49-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A02.trna51-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A02.trna64-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A02.trna88-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A03.trna28-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A03.trna75-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-B07.trna40-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A03.trna139-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-A03.trna145-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-A04.trna70-Gly-GCC     UUCCCGGCUGG-UGCA 71
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chr-B05.trna134-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-A04.trna76-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-B04.trna63-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-B04.trna53-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A05.trna23-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A05.trna24-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-B03.trna245-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-B03.trna241-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-B01.trna4-Gly-GCC      UUCCCGGCUGG-UGCA 71
chr-B03.trna121-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-B01.trna104-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-B03.trna28-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-B03.trna27-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-B01.trna261-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-B02.trna8-Gly-GCC      UUCCCGGCUGG-UGCA 71
chr-B02.trna9-Gly-GCC      UUCCCGGCUGG-UGCA 71
chr-B02.trna176-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-B02.trna15-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-B02.trna101-Gly-GCC    UUCCCGGCUGG-UGCA 71
chr-A03.trna27-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A05.trna62-Gly-GCC     UUCCCGGCUGG-UGCA 71
chr-A02.trna52-Gly-GCC     UUCCAGGCUGG-UGCA 71
chr-A03.trna74-Gly-GCC     UUCCCGGCUGG-UGCA 73
chr-A02.trna65-Gly-GCC     UUCCCGGCUGG-UGCA 70
chr-B03.trna113-Gly-GCC    UUCCCACUAUU-UGCC 71
chr-B02.trna168-Gly-GCC    UUCCCACUAUU-CGCC 71
chr-A08.trna73-Gly-GCC     UUCCCGCUAUC-CGCC 71
chr-B06.trna56-Gly-GCC     UUCCCGCUAUC-CGCC 71
chr-A07.trna12-Gly-GCC     UUCCCGCUAUC-CACC 71
chr-B02.trna169-Gly-ACC    UUCCUGCUAUC-CGCC 71
chr-A01.trna32-Gly-GCC     AUCCCGUCUCC-GCAA 72
chr-B08.trna164-Gly-GCC    UUCCCGC-UAUCAAUU 67
chr-B08.trna120-Gly-GCC    CUCAGGGGAUA---CA 68
                           .........70.....
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