```
                                 ((((((..((((.........)))).....((((((.............)))))..)))))(
chr-LG01.trna521-Arg-TCG    GAUUGCAUAGUGCACUAGAUUAGUGUGUCUAACUUCGGAU-------UAGAAGGUCGUGG 53
chr-LG01.trna66-Arg-TCG     GACCGCAUAGCGUAAUGGAUUAGUGCGUCUGACUUCGAAU-------AAGAAGGUCGUGG 53
chr-LG01.trna64-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGUGCGUCUGACUUCGGAU-------AAGAAGGUCGUGG 53
chr-LG01.trna70-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGUGCGUCUGACUUCGGAU-------AAGAAGGUCGUGG 53
chr-LG01.trna75-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGUGCGUCUGACUUCGGAU-------AAGAAGGUCGUGG 53
chr-LG01.trna79-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGUGCGUCUGACUUCGGAU-------AAGAAGGUCGUGG 53
chr-LG01.trna85-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGUGCGUCUGACUUCGGAU-------AAGAAGGUCGUGG 53
chr-LG01.trna87-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGUGCGUCUGACUUCGGAU-------AAGAAGGUCGUGG 53
chr-LG01.trna89-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGUGCGUCUGACUUCGGAU-------AAGAAGGUCGUGG 53
chr-LG01.trna91-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGUGCGUCUGACUUCGGAU-------AAGAAGGUCGUGG 53
chr-LG01.trna93-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGUGCGUCUGACUUCGGAU-------AAGAAGGUCGUGG 53
chr-LG01.trna72-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGUGCGUCUGACUUCGGAU-------AAGAAGGUCGUGG 53
chr-LG09.trna137-Arg-TCG    GACUGCAUAACGCAGUGGAUUAGCGCGUCUAACUUCGAAU-------CAGAAGGUUAUGG 53
chr-LG01.trna94-Arg-TCG     GACCGCAUAGCGUAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGGAGGUCGUGG 53
chr-LG01.trna98-Arg-TCG     GACCGCAUAGCGUAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGGAGGUCGUGG 53
chr-LG01.trna58-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------UAGAAGGUCGUGG 53
chr-LG01.trna61-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna65-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna71-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG09.trna55-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna74-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna77-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna78-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna80-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna86-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna88-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna90-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna92-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna96-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna81-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna101-Arg-TCG    GACUGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna56-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCAUGG 53
chr-LG01.trna67-Arg-TCG     GACUGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna63-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGAUCGUGG 53
chr-LG01.trna69-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGAUCGUGG 53
chr-LG01.trna102-Arg-TCG    GACCGCAUAGUGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------UAGAAGGUCGUGG 53
chr-LG01.trna59-Arg-TCG     GACUGCAUAGCGUAGUGGAUUAGCGCGUCUGACUUCGGAU-------AAGAAGGUUGUGG 53
chr-LG01.trna95-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUAACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna97-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUCUAACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna106-Arg-TCG    GACCGCAUAGCGUAGUGGAUUAGCGUGUCUGACUUCGGAU-------CAGAAAGUUGUGG 53
chr-LG16.trna121-Arg-TCG    GACCGCAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAU-------CAAAAGGUCGUGG 53
chr-LG16.trna120-Arg-TCG    GACCGCAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAU-------CAAAAGGUCGUGG 53
chr-LG04.trna140-Arg-TCG    GACCGCAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAU-------CAAAAGGUCGUGG 53
chr-LG02.trna148-Arg-TCG    GACCGCAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAU-------CAAAAGGUCGUGG 53
chr-LG18.trna121-Arg-TCG    GACCGCAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAU-------CAAAAGGUCGUGG 53
chr-LG02.trna147-Arg-TCG    GACCGCAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAU-------CAAAAGGUCGUGG 53
chr-LG18.trna122-Arg-TCG    GACCGCAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAU-------CAAAAGGUCGUGG 53
chr-LG02.trna146-Arg-TCG    GACCGCAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAU-------CAAAAGGUCGUGG 53
chr-LG02.trna145-Arg-TCG    GACCGCAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAU-------CAAAAGGUCGUGG 53
chr-LG01.trna99-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCGUUAGACUUCGGAU-------CAAAAGGUCGUGG 53
chr-LG01.trna76-Arg-TCG     GACCGCAUAGUGUAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG09.trna452-Arg-TCG    AACCGCAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAU-------CAAAAGUUCGUGG 53
chr-LG01.trna73-Arg-TCG     GACCGCAUAGCGCAGUGGAUUAGCGCAUCUGACUUCGGUU-------UAGAAGGUCGUGG 53
chr-LG01.trna105-Arg-TCG    GACCACAUAGCGCAGUGGAUUAGUGCGUCUAACUUCGAAU-------UAGAAGGUCGUGA 53
chr-LG01.trna104-Arg-TCG    GACCGUAUAGCGCAGUGGAUUAGCGCGUCUGACCUCGAAU-------CAGAAGGUCGUGG 53
chr-LG01.trna100-Arg-TCG    GAUCGCAUAGCGCAAUGGAUUAGCGCGUCCAACUUCGGAU-------UAGAAGGUCGUGG 53
chr-LG01.trna526-Arg-TCG    GACUGCAUAGCGCAGUGAAUUAGCGCAUUUGAUUUCGGAU-------CAGAAGGUUGUGG 53
chr-LG05.trna46-Arg-TCG     GAUCGCAUAGCACAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG09.trna135-Arg-TCG    GACUACAUAAUGCAGUGGAUUAGCGCGUCUGACCUCGAAU-------CAAAAGGUCAUGG 53
chr-LG10.trna119-Arg-TCG    GACUGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGCAU-------CAGAAGGUUGUAG 53
chr-LG01.trna57-Arg-TCG     GACUGCAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCG-GG 52
chr-LG01.trna108-Arg-TCG    GACUGCAUAGCGUAGUGGAUUAGCGCGUCUGACUUCGGAU-------CAGAAGGUCGUGU 53
chr-LG09.trna138-Arg-TCG    GACUGCAUAGCGCAGUGGAUUAGCACGUCUAACUUCGGAU-------CAGAAGGUCGUGG 53
chr-LG01.trna525-Arg-TCG    GGUCAUAU-GAGUAGUGGAUUAGCACGUCUGACUUCGGAU-------CAGAAGGUCGUGG 52
chr-LG01.trna82-Arg-TCG     UACCGCAUAGUGCAGUGGAUUAGUGUGUCUAACAUCGGAU-A-AG--AAGGUCGUUGUGG 56
chr-LG01.trna68-Arg-TCG     GACCACAUAGCGCAGUGGAUUAGUGUGUCUAACAUCGGAUAA-AG--AAGGUCGUUGUGG 57
chr-LG01.trna62-Arg-TCG     GACCGCAUAGCGCAAUGGAUUAAUGUGUCUAACGUCGGAU-A-AG--AAGGUCGUUGUGG 56
chr-LG07.trna112-Arg-TCG    GUUU-UG--GCCUAAUGGA-UAAGGCGCUCGCCUUCGGAG-------CGGGAAAUUGUGG 49
chr-LG15.trna41-Arg-TCG     GAUAGUUUGGCCGAGUUGUCUAAGGUGCUAGACUUCGACUCU-AGUUCAAAUGGGCAUGG 59
chr-LG15.trna42-Arg-TCG     GAUAGUUUGGCCGAGUUGUCUAAGGUGCUAGACUUCGACUCU-AGUUCAAAUGGGCAUGG 59
chr-LG15.trna43-Arg-TCG     GAUAGUUUGGCCGAGUUGUCUAAGGUGCUAGACUUCGACUCU-AGUUCAAAUGGGCAUGG 59
chr-LG16.trna9-Arg-TCG      GACAAUUUGGCCAAGUGGUCUAAGGCGCUAGAUUUAGGCUUC-GGUCUGAAAGGGCGUGG 59
chr-LG01.trna523-Arg-TCG    G----CAUAGCGUAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAUGCUGUGGGUUCUGG 56
chr-LG03.trna79-Arg-TCG     GGACAUUUGGUCUAGUGGUAUAAU---UCUUACUUUCGAU------UUAAGAGAUUUUGA 51
                                 .........10........20........30........40........50.........
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                                 (.........)))))..)))))))).
chr-LG01.trna521-Arg-TCG    GU--UCAACUCCCAU--UGUAGUUG 74
chr-LG01.trna66-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna64-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna70-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna75-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna79-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna85-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna87-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna89-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna91-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna93-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna72-Arg-TCG     GU--UUGACUCCCAU--UGUGGUCG 74
chr-LG09.trna137-Arg-TCG    GU--UUGACUCCCAU--UGUAGUCA 74
chr-LG01.trna94-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna98-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna58-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna61-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna65-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna71-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG09.trna55-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna74-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna77-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna78-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna80-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna86-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna88-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna90-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna92-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna96-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna81-Arg-TCG     GU--UCGACUCCCAC--UGUGGUUG 74
chr-LG01.trna101-Arg-TCG    GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna56-Arg-TCG     GU--UCGACUCCCAC--UGUGGUUG 74
chr-LG01.trna67-Arg-TCG     GU--UCGACCCCCAC--UGUGGUCG 74
chr-LG01.trna63-Arg-TCG     GU--UCGACUCCCAC--UGUGGUUG 74
chr-LG01.trna69-Arg-TCG     GU--UCGACUCCCAC--UGUGGUUG 74
chr-LG01.trna102-Arg-TCG    GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna59-Arg-TCG     GU--UCGACUCCCAC--UGUGGUUG 74
chr-LG01.trna95-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna97-Arg-TCG     GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG01.trna106-Arg-TCG    GU--UUGACUCCCAC--UGUGGUCG 74
chr-LG16.trna121-Arg-TCG    GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG16.trna120-Arg-TCG    GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG04.trna140-Arg-TCG    GU--UCGACUCCCAC--UGUGGUCG 74
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chr-LG02.trna146-Arg-TCG    GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG02.trna145-Arg-TCG    GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna99-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna76-Arg-TCG     GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG09.trna452-Arg-TCG    GU--UCGACUCCCAC--UGUGGUCG 74
chr-LG01.trna73-Arg-TCG     GU--UCGACUCCCAC--UUUGGUCG 74
chr-LG01.trna105-Arg-TCG    GU--UCGACUCCCAC--UAUGGUCG 74
chr-LG01.trna104-Arg-TCG    GA--UCUAGUCCCAC--UGUGGUCG 74
chr-LG01.trna100-Arg-TCG    GU--UCGACUCCCAC--UAUGGUUG 74
chr-LG01.trna526-Arg-TCG    GU--UCGACUCUCAC--UGUGGUCA 74
chr-LG05.trna46-Arg-TCG     GU--UUGACUCUCAC--UAUGGUCA 74
chr-LG09.trna135-Arg-TCG    AU--UUGACUCCCAU--UGUAGUCA 74
chr-LG10.trna119-Arg-TCG    GU--UUGACUCCCAU--UGUGGUCA 74
chr-LG01.trna57-Arg-TCG     GU--UCGACUCCCAU--UGUGGUUG 73
chr-LG01.trna108-Arg-TCG    GU--UUGACUCCCAC--UGUGUUUG 74
chr-LG09.trna138-Arg-TCG    GU--UCGACUCCCACUAUGUAGUCA 76
chr-LG01.trna525-Arg-TCG    GU--UCAAUUCCCAU--UAUGGUUG 73
chr-LG01.trna82-Arg-TCG     GU--UCGGCUCCCAC--UGUGGUCG 77
chr-LG01.trna68-Arg-TCG     GU--UCAACUCCCAC--UUUGGUCG 78
chr-LG01.trna62-Arg-TCG     GUUCUCGACUCCCAC--UGUGGUCG 79
chr-LG07.trna112-Arg-TCG    GU--UCGAGUCCCAU--CAUGAACG 70
chr-LG15.trna41-Arg-TCG     AU--UCAAAUCCCAU--AGCUGUCA 80
chr-LG15.trna42-Arg-TCG     AU--UCAAAUCCCAU--AGCUGUCA 80
chr-LG15.trna43-Arg-TCG     AU--UCAAAUCCCAU--AGCUGUCA 80
chr-LG16.trna9-Arg-TCG      GU--UCAAAUUCCAC--AGUUGUCA 80
chr-LG01.trna523-Arg-TCG    GUUCUUGACUCCCAC--UAUGGUCG 79
chr-LG03.trna79-Arg-TCG     GU--UCAAUUCUCAA--AAUUCCCC 72
                                 .........70........80....
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