```
                                 (((((((..((((.........)))).(((((.......)))))....(.((((.....
chr-B04.trna83-Glu-CTC     UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCAUCCGAAAGACC-CGGGUUCAAG 59
chr-B10.trna8-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACC-CGGGUUCAAG 59
chr-A06.trna4-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACC-CGGGUUCAAG 59
chr-A06.trna49-Glu-CTC     UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACC-CGGGUUCAAG 59
chr-B02.trna149-Glu-CTC    UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACC-CGGGUUCAAG 59
chr-A07.trna27-Glu-CTC     UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACC-CGGGUUCAAG 59
chr-B01.trna3-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACC-CGGGUUCAAG 59
chr-A10.trna4-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACC-CGGGUUCAAG 59
chr-A02.trna6-Glu-CTC      UUCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACC-CGGGUUCAAG 59
chr-A01.trna7-Glu-CTC      UCCGUUGUAGUCUAGUUGGUCAGGAUAUUCGGCUCUCACCCGAAAGACC-CGGGUUCAAG 59
chr-B06.trna165-Glu-CTC    UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-B06.trna166-Glu-CTC    UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-B10.trna151-Glu-CTC    UCCGUUGUAGUCUAGUUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-B03.trna122-Glu-CTC    UCCGUUGUAGUCUAGUUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-A01.trna28-Glu-CTC     UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-A01.trna38-Glu-CTC     UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-A02.trna35-Glu-CTC     UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-A03.trna3-Glu-CTC      UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-A03.trna80-Glu-CTC     UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-A05.trna7-Glu-CTC      UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-B02.trna104-Glu-CTC    UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-B03.trna21-Glu-CTC     UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-B03.trna22-Glu-CTC     UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-B03.trna23-Glu-CTC     UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-B06.trna8-Glu-CTC      UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGGGUUCAAG 59
chr-B03.trna201-Glu-CTC    UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGAGAGACC-CGUGUUCAAG 59
chr-B03.trna116-Glu-CTC    UCCGUUGUAGUCUAGGUGGUUAGGAUACUCGGCUCUCACCCGUGAGACC-CGGGUUCAAG 59
chr-A05.trna3-Glu-TTC      UCCGUUGUUGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-B06.trna21-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUGUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-B03.trna25-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUGUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-A03.trna69-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-B10.trna137-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-A07.trna2-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCUAGGAGACC-CGGGUUCGAU 58
chr-A10.trna68-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCUAGGAGACC-CGGGUUCGAU 58
chr-A03.trna70-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-B03.trna213-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-A07.trna16-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-B04.trna88-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-A09.trna52-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-A10.trna78-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-B01.trna1-Glu-TTC      UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-B04.trna78-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-B06.trna20-Glu-TTC     UUCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 58
chr-B03.trna212-Glu-TTC    UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAAACC-CGGGUUCGAU 58
chr-A05.trna16-Glu-TTC     UCCGUUGUCGUCCAG-CGGUUAGGAUAUCUGGCUUUCACCCAGGAGACC-CGGGUUUGAU 58
chr-A08.trna53-Glu-TTC     GCCCCCAUCGUCUAGUGGUCCAGGACAUCUCUCUUUCAAGGAGGCAACG-GGGAUUCGAC 59
chr-B07.trna56-Glu-TTC     GCCCCCAUCGUCUAGUGGUCCAGGACAUCUCUCUUUCAAGGAGGCAACG-GGGAUUCGAC 59
chr-A03.trna11-Glu-TTC     GCCCCCAUCGUCUAGUGGUCCUGGACAUCUCUCUUUCAAGGAGGCAACG-GGGAUUCGAC 59
chr-B07.trna45-Glu-TTC     GCCUCCAUCGUCUAGUGGUCCAGGACAUCUCUCUUUCAAGGAGGGCACG-GGGAUUCGAC 59
chr-B10.trna105-Glu-TTC    GCCUUCAUCGUCUAGUGGUCCAGGACAUCUCUCUUUCAAGGAGGCAACA-GGGAUUCGAC 59
chr-B06.trna141-Glu-TTC    GCCCCCAUCGUCUAGUGGUCCAGGACAUCUCUCUUUCAAGAAGGCAACG-GGGAUUCGAC 59
chr-A02.trna30-Glu-TTC     GCCCCCAUCGUCUAGUGGUCUAGGACAUCUCUCUUUCAAGGAGGCAACG-GGAAUUCGAC 59
chr-A06.trna9-Glu-TTC      GGCCCCAUCGUCUAGUGGUCCAGGACAUCUCUCUUUCAAGGAGGCAACG-GGGAUUCGAC 59
chr-A01.trna60-Glu-TTC     GCCCCCAUCGUCUAGUGGUCCAGGACAUCUCUCUUUCAAGGAGGCAACG-GGGAUUCGAC 59
chr-A06.trna44-Glu-TTC     UUCAUUGUUGUCUAG-CGCUUAGGAUAUCUGGCUUUCAUCCAGGAGACC-CGGGUUCGAU 58
chr-A10.trna22-Glu-TTC     GGGAUUGUAGUUCAAUUGGUCAGAGCACCGCCCUUUCAAGGCGGAAGCUGCGGGUUCGAG 60
chr-B09.trna21-Glu-TTC     GUU---GUCGUCCAG-CGGUUAGGAUGUCUGGCUUUCACCCAGGAGACC-CGGGUUCGAU 55
                           .........10........20........30........40........50.........

                           .)))))))).....)))).
chr-B04.trna83-Glu-CTC     UCCCGGCAA----CGGAA- 73
chr-B10.trna8-Glu-CTC      UCCCGGCAA----CGGAA- 73
chr-A06.trna4-Glu-CTC      UCCCGGCAA----CGGAA- 73
chr-A06.trna49-Glu-CTC     UCCCGGCAA----CGGAA- 73
chr-B02.trna149-Glu-CTC    UCCCGGCAA----CGGAA- 73
chr-A07.trna27-Glu-CTC     UCCCGGCAA----CGGAA- 73
chr-B01.trna3-Glu-CTC      UCCCGGCAA----CGGAA- 73
chr-A10.trna4-Glu-CTC      UCCCGGCAA----CGGAA- 73
chr-A02.trna6-Glu-CTC      UCCCGGCAA----CGGAA- 73
chr-A01.trna7-Glu-CTC      UCCAGGCAA----CGGAA- 73
chr-B06.trna165-Glu-CTC    UCCCGGCAU----CGGAA- 73
chr-B06.trna166-Glu-CTC    UCCCGGCAU----CGGAA- 73
chr-B10.trna151-Glu-CTC    UCCCGGCAA----CGGAA- 73
chr-B03.trna122-Glu-CTC    UCCCGGCAA----CGGAA- 73
chr-A01.trna28-Glu-CTC     UCCCGGCAA----CGGAA- 73
chr-A01.trna38-Glu-CTC     UCCCGGCAA----CGGAA- 73
chr-A02.trna35-Glu-CTC     UCCCGGCAA----CGGAA- 73
chr-A03.trna3-Glu-CTC      UCCCGGCAA----CGGAA- 73
chr-A03.trna80-Glu-CTC     UCCCGGCAA----CGGAA- 73
chr-A05.trna7-Glu-CTC      UCCCGGCAA----CGGAA- 73
chr-B02.trna104-Glu-CTC    UCCCGGCAA----CGGAA- 73
chr-B03.trna21-Glu-CTC     UCCCGGCAA----CGGAA- 73
chr-B03.trna22-Glu-CTC     UCCCGGCAA----CGGAA- 73
chr-B03.trna23-Glu-CTC     UCCCGGCAA----CGGAA- 73
chr-B06.trna8-Glu-CTC      UCCCGGCAA----CGGAA- 73
chr-B03.trna201-Glu-CTC    UCCCGGCAA----CGGAA- 73
chr-B03.trna116-Glu-CTC    UCCCGGCAC----CGGAA- 73
chr-A05.trna3-Glu-TTC      UCCCGGCAA----CGGAA- 72
chr-B06.trna21-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-B03.trna25-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-A03.trna69-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-B10.trna137-Glu-TTC    UCCCGGCAA----CGGAA- 72
chr-A07.trna2-Glu-TTC      UCCCGGCAA----CGGAA- 72
chr-A10.trna68-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-A03.trna70-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-B03.trna213-Glu-TTC    UCCCGGCAA----CGGAA- 72
chr-A07.trna16-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-B04.trna88-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-A09.trna52-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-A10.trna78-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-B01.trna1-Glu-TTC      UCCCGGCAA----CGGAA- 72
chr-B04.trna78-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-B06.trna20-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-B03.trna212-Glu-TTC    UCCCGGCAA----CGGAA- 72
chr-A05.trna16-Glu-TTC     UCCCGGCAA----CGGAA- 72
chr-A08.trna53-Glu-TTC     UUCCCCUGG----GGGUA- 73
chr-B07.trna56-Glu-TTC     UUCCCCUGG----GGGUA- 73
chr-A03.trna11-Glu-TTC     UUCCCCUGG----GGGUA- 73
chr-B07.trna45-Glu-TTC     UUCCCCUGG----GGGUA- 73
chr-B10.trna105-Glu-TTC    UUCCCCUGG----GGGUA- 73
chr-B06.trna141-Glu-TTC    UUCUCCUGG----GGGUA- 73
chr-A02.trna30-Glu-TTC     UUCCCCUGG----GGGUA- 73
chr-A06.trna9-Glu-TTC      UUCCCCUGG----AGUAG- 73
chr-A01.trna60-Glu-TTC     UUCCCCUGGAGUAGGGUA- 77
chr-A06.trna44-Glu-TTC     UCCCAGCAAUGGUGCCAAU 77
chr-A10.trna22-Glu-TTC     --CCGUCAG----UCCCG- 72
chr-B09.trna21-Glu-TTC     UU-AGGGAACCCAGAACCA 73
                           .........70........
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