```
                                 ((((((((((.......))))((.(.(((((.......))))).).))(((((.....
chr-1.trna192-Asn-GTT    -UCU-ACUACU-CAGUU-GGAAGAGUACAAAGCUGUUAACCUUAUGGACGUGGGUUCGAG 56
chr-1.trna194-Asn-GTT    -UCU-ACUACU-CAGUU-GGAAGAGUACAAAGCUGUUAACCUUAUGGACGUGGGUUCGAG 56
chr-3.trna220-Asn-GTT    -UCC-ACUACU-CAGUU-GGAAGAGUACAAAGCUGUUGACCUUAGGGACGUGGGUUCGAG 56
chr-5.trna509-Asn-GTT    GUCC-ACUGCU-UAGUU-GGUAGAGUACAAAGUUGUUAACCUUGUGGAUGUGGGUUCGAG 57
chr-2.trna533-Asn-GTT    --CU-ACU----CAGUU-GGUAGAGUACAAAGCUGUUAACCUUAUGGACGUGGGUUCAAG 52
chr-3.trna461-Asn-GTT    --CU-ACU----UAGUU-GGUAGAGUACAAAGCUGUUAACCUUGUGGACGUGGGUUCAAG 52
chr-5.trna200-Asn-GTT    --CU-GCU----UAGUU-GGUAAAGCACAAGGCUGUUAACCUUGUGGACGUGAAUUCAAG 52
chr-5.trna294-Asn-GTT    --CU-GCU----UAGUU-GGUAAAGCACAAGGCUGUUAACCUUGUGGACGUGAAUUCAAG 52
chr-1.trna403-Asn-GTT    --CC-ACUGCU-CAGUU-GGUAAAGCACAAAGUUGUUAACCUUGUGGACGUGGGUUCAAG 55
chr-6.trna240-Asn-GTT    --CC-ACUUGCUCAGUU-GGUAAAGCACAAAGCUGUUAACCUUGUGUACGUGGGUACAAG 56
chr-4.trna71-Asn-GTT     UCCUCAGUAGCUCAGU--GGUAGAGUACUCGGCUGUUAACUGACUGGUCGUAGGUUCGAA 58
chr-4.trna70-Asn-GTT     UCCUCAGUAGCUCAGU--GGUAGAGUACUCGGCUGUUAACUGACUGGUCGUAGGUUCGAA 58
chr-2.trna89-Asn-GTT     UCCUUAGUAGCUCAGU--GGUAGAGUGGUUGGCUGUUAACUGACUGGUCAUAGGUUCGAA 58
chr-5.trna197-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAGAGCGGUCGGUUGUUAACUGGCUGGUCAUAGGUUUGAA 58
chr-3.trna124-Asn-GTT    UCCUCAGUAGCUUAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGCAGGUUCGAA 58
chr-5.trna495-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAAGUUCGAA 58
chr-6.trna347-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAAAGCGGUCGGCUGUUAACUGACUGGUCAUAGGUUCGAA 58
chr-7.trna614-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAGAGCGGUCGGAUGUUAACUGACUGGUCGUAGGUUCGAA 58
chr-4.trna56-Asn-GTT     UCCUCAGUAGCUCAGU--GGUAGAGCGGUCGGAUGUUAACUGACUGGUCGUAGGUUCGAA 58
chr-2.trna359-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAGAGCGGUCGGCGGUUAACUGACUGGUCGUAGGUUCGAA 58
chr-3.trna105-Asn-GTT    UCCUCAGUAGCUUAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUUCGAA 58
chr-3.trna467-Asn-GTT    UCCUUAGUAGCUCAGU--GGUAGAGUGGUCGGCUGUUAACUGACUGGUCGUAGGUUCGAA 58
chr-4.trna163-Asn-GTT    UCCUCAGUAGCUUAGU--GGUAGAGCGGUCAGUUGUUAACUGACUGGUCGUAGGUUCGAA 58
chr-4.trna220-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAGAGUAGUCAACUGUUAACUGACUGGUCGUACGUUCCAA 58
chr-2.trna114-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGCCUAGUCGUAGGUUCGAA 58
chr-7.trna115-Asn-GTT    UCCUCACUAGCUCAGU--GGUAGAGCGGUUGGCUGUUAACUGACUGGUCAUAGGUUCGAA 58
chr-4.trna85-Asn-GTT     UCCUCAGUAGCUCAGU--GGUAGAGCGGUCGGUUGUUAACUGACUGGUCGUAGGUUCGAA 58
chr-1.trna402-Asn-GTT    GCUGGAAUAGCUCAGGUGGUUAGAGCGUAAUGGCUGUUAAACAUAAGGUCAGAGGUUCGAG 60
chr-2.trna4-Asn-GTT      GCUGGAAUAGCUCAGAUGGCUAGAGAGUGUGGCUGUUAACCACAAUCUCGGAGGUUCGAG 60
chr-2.trna193-Asn-GTT    GCUGGAGUAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAG 60
chr-2.trna237-Asn-GTT    GCUGGAGUAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAG 60
chr-2.trna281-Asn-GTT    GCUGGAGUAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAG 60
chr-2.trna221-Asn-GTT    GCUGGAGUAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCAUAAGGUCGGAGGUUCGAG 60
chr-2.trna260-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAA 60
chr-1.trna479-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAG 60
chr-5.trna258-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAG 60
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chr-5.trna396-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAG 60
chr-5.trna427-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAG 60
chr-5.trna447-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAG 60
chr-5.trna448-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAG 60
chr-2.trna479-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCAAG 60
chr-5.trna259-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCAAG 60
chr-5.trna329-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCAAG 60
chr-5.trna435-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCAAG 60
chr-6.trna222-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCAAG 60
chr-2.trna56-Asn-GTT     GCUGGAAUAGCUCAGAUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCGAG 60
chr-5.trna256-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCAAG 60
chr-1.trna417-Asn-GTT    GCUGGAAUAGCUCAGUUGGCUAGAGCAUGUGGCUGUUAACCACAAGGUCGGAGGUUCAAG 60
chr-5.trna257-Asn-GTT    GCUGGAAUAGCUUAGUUGGCUAGAGUGUGUGGCUGUUAACCACAAGGUCGGAGGUUCAAG 60
chr-1.trna48-Asn-GTT     GUUGGAAUAGCUCAGUUGCCUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUUCAAG 60
chr-3.trna246-Asn-GTT    UCCUCAAUAGCUCAGUUCGGUAGAGCGACCGGCCGUUAACUGAUUGGUCGUAGGUUCGAA 60
chr-4.trna392-Asn-GTT    UCCUCAAUAGCUCAGUUCGGUAGAGCGAUCGGCUGUUAACUGAUUGGUCAUAGGUUCGAA 60
chr-1.trna190-Asn-GTT    UCCUCAAUAGCUCAGUUCGGUAGAGCGAUCGGCUGUUAACUGAUUGGUCGUAGGUUCGAA 60
chr-2.trna542-Asn-GTT    UCCUCAAUAGCUCAGUUCGGUAGAGCGAUCGGCUGUUAACUGAUUGGUCGUAGGUUCGAA 60
chr-2.trna545-Asn-GTT    UCCUCAAUAGCUCAGUUCGGUAGAGCGAUCGGCUGUUAACUGAUUGGUCGUAGGUUCGAA 60
chr-5.trna57-Asn-GTT     UCCUCAAUAGCUCAGUUCGGUAGAGCGGUCGGCUGUUAACUGAUUGGUCGUAGGUUCGAA 60
chr-7.trna444-Asn-GTT    UCCUCAAUAGCUCAGUUCGGUAGAGCGAUCGGCUGUUAACUGAUUGGUCGUAGGUUCGAA 60
chr-3.trna283-Asn-GTT    GGGUCCAUUGCUCAGUUGGUA-GAGCACAAGGCUGUUAACCUUGUGGUCAUGGGUUCAAG 59
chr-3.trna285-Asn-GTT    GGGUCCAUUGCUCAGUUGGUA-GAGCACAAGGCUGUUAACCUUGUGGUCAUGGGUUCAAG 59
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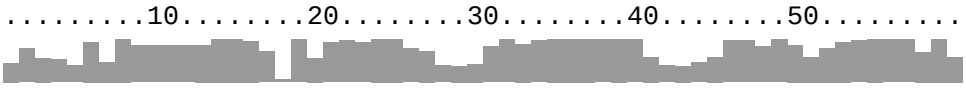

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                                 .)))))..)))))...))).
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chr-1.trna194-Asn-GTT    CCCCAUGGAGAGGAU---- 71
chr-3.trna220-Asn-GTT    CCCCAUGGAGAGGAU---- 71
chr-5.trna509-Asn-GTT    CCCCAUGGUGGGGUUUACA 76
chr-2.trna533-Asn-GTT    CCCCAUGGUAGAGA----- 66
chr-3.trna461-Asn-GTT    CCCCAUGGUGGAGA----- 66
chr-5.trna200-Asn-GTT    CCCCAUGAUGGGGG----- 66
chr-5.trna294-Asn-GTT    CCCCAUGAUGGGGG----- 66
chr-1.trna403-Asn-GTT    CCCCAUGAUGGGGG----- 69
chr-6.trna240-Asn-GTT    UCCCAUGAUGGGGG----- 70
chr-4.trna71-Asn-GTT     UCCUAC--UUUG---GGAG 72
chr-4.trna70-Asn-GTT     UCCUAC--UUUG---GGAG 72
chr-2.trna89-Asn-GTT     UCCUAC--UUGG---GGAG 72
chr-5.trna197-Asn-GTT    UCCUAC--UUGG---GGAG 72
chr-3.trna124-Asn-GTT    UCCUAC--UUGG---GGAG 72
chr-5.trna495-Asn-GTT    UCCUAC--UUGG---GGAG 72
chr-6.trna347-Asn-GTT    UCCUAC--UUGG---GGAG 72
chr-7.trna614-Asn-GTT    UCCUAC--UUGG---GGAG 72
chr-4.trna56-Asn-GTT     UCCUAC--UUGG---GGAG 72
chr-2.trna359-Asn-GTT    UCCUAC--UUGG---GGAG 72
chr-3.trna105-Asn-GTT    UCCUAC--UUGG---GGAG 72
chr-3.trna467-Asn-GTT    UCCUAC--UUGG---GGAG 72
chr-4.trna163-Asn-GTT    UCCUAC--UUGG---GGGA 72
chr-4.trna220-Asn-GTT    UACUAC--UUGG---GGAG 72
chr-2.trna114-Asn-GTT    UCCUAC--UUGG---GGAG 72
chr-7.trna115-Asn-GTT    UCCUAC--UUGG---GGAG 72
chr-4.trna85-Asn-GTT     UCCUAC--UUUGGUUGGAG 75
chr-1.trna402-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-2.trna4-Asn-GTT      CCCUCC--UUCU---AGCG 74
chr-2.trna193-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-2.trna237-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-2.trna281-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-2.trna221-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-2.trna260-Asn-GTT    CCCUCC--UUCU---AGCG 74
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chr-5.trna258-Asn-GTT    CCCUCC--UUCU---AGCG 74
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chr-2.trna479-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-5.trna259-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-5.trna329-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-5.trna435-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-6.trna222-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-2.trna56-Asn-GTT     CCCUCC--UUCU---AGCG 74
chr-5.trna256-Asn-GTT    ACCUCC--UUCU---AGUG 74
chr-1.trna417-Asn-GTT    CCCUCU--UUUU---AGCG 74
chr-5.trna257-Asn-GTT    CCCUCC--UUCU---AGCG 74
chr-1.trna48-Asn-GTT     CCCUCC--UUCU---AGCG 74
chr-3.trna246-Asn-GTT    UCCUAC--UUGG---GGAG 74
chr-4.trna392-Asn-GTT    UCCUAC--UUGG---GGAG 74
chr-1.trna190-Asn-GTT    UCCUAC--UUGG---GGAG 74
chr-2.trna542-Asn-GTT    UCCUAC--UUGG---GGAG 74
chr-2.trna545-Asn-GTT    UCCUAC--UUGG---GGAG 74
chr-5.trna57-Asn-GTT     UCCUAC--UUGG---GGAG 74
chr-7.trna444-Asn-GTT    UCCUAC--UUGG---GGAA 74
chr-3.trna283-Asn-GTT    CCCCAUGAUGGA---GGCU 75
chr-3.trna285-Asn-GTT    CCCCAUGAUGGA---GGCU 75
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