```
                                 (((((((..(((....(.......)))).(((((.......)))))).....(((((.....
chr-2.trna17-Cys-GCA             GGCGGCAUGGCC----AAGCGGUAAGGCAGAGGACUGCAAAUCCUU-UAUCCCCAGUUC- 54
chr-4.trna404-Cys-GCA            GGCGGCAUGGCC----AAGCGGUAAAGCAGGGGACUGCAAAUCCUU-UAUCCCCAGUUCA 55
chr-1.trna351-Cys-GCA            GGCGGCAUGGCC----AAGCGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCAGUUCA 55
chr-7.trna217-Cys-GCA            GGCGGCAUGGCC----AAGCGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCAGUUCA 55
chr-3.trna540-Cys-GCA            GGCGGCAUGGCC----AAGCGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCAGUUCA 55
chr-4.trna238-Cys-GCA            GGCGGCAUGGCC----AAGCGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCAGUUCA 55
chr-7.trna216-Cys-GCA            GGCGGCAUGGCC----AAGCGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCAGUUCA 55
chr-5.trna265-Cys-GCA            GGCGGCAUGGCC----AAGCGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCGGUUCA 55
chr-3.trna454-Cys-GCA            GGCGGCAUGGCC----AAGCGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCAGUUCA 55
chr-1.trna414-Cys-GCA            GGCAGCAUGGCC----AAGCAGUAAGGCAGGGGACUGCAAAUCCUU-UAUCUCUAGUUAA 55
chr-4.trna225-Cys-GCA            GGCGGCAUGGCC----AAGCGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCCGUUCA 55
chr-4.trna249-Cys-GCA            GGGUCCAUAGCU----CAGUGGUUGAGCAAUUGACUGCAGAUCAAUAGGUCACUGGUUUG 56
chr-4.trna263-Cys-GCA            GGGUCCAUAGCU----CAGUGGUUGAGCAAUUGACUGCAGAUCAAUAGGUCACUGGUUUG 56
chr-4.trna283-Cys-GCA            GGGUCCAUAGCU----CAGUGGUUGAGCAAUUGACUGCAGAUCAAUAGGUCACUGGUUUG 56
chr-4.trna402-Cys-GCA            GGGUCCAUAGCU----CAGUGGUUGAGCAAUUGACUGCAGAUCAAUAGGUCACUGGUUUG 56
chr-5.trna343-Cys-GCA            GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCG 56
chr-3.trna24-Cys-GCA             GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCG 56
chr-3.trna25-Cys-GCA             GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCG 56
chr-3.trna183-Cys-GCA            GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCG 56
chr-5.trna429-Cys-GCA            GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCG 56
chr-5.trna430-Cys-GCA            GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCG 56
chr-4.trna374-Cys-GCA            GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCG 56
chr-4.trna375-Cys-GCA            GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUUG 56
chr-3.trna22-Cys-GCA             GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGAUCACUGGUUCA 56
chr-3.trna23-Cys-GCA             GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCA 56
chr-4.trna377-Cys-GCA            GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCG 56
chr-4.trna376-Cys-GCA            GGGUCCAUAUCU----CUGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCG 56
chr-3.trna21-Cys-GCA             GGGUCCAUAGUU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCG 56
chr-4.trna378-Cys-GCA            GGGUCCAUAGCU----GAGCGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACUGGUUUG 56
chr-2.trna486-Cys-GCA            GGGUCCAUAGCU----CAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGCCACCGGUUCG 56
chr-3.trna44-Cys-GCA             GGCAACUUGGAUGUUGUUACGGUAAGGCAAGGGACUGCAAAUCCUU-UAUCCCCAGUUCA 59
chr-3.trna45-Cys-GCA             GGCAACUUGGAUGUUGUUACGGUAAGGCAAGGGACUGCAAAUCCUU-UAUCCCCAGUUCA 59
chr-7.trna2-Cys-GCA              GGCAACUUGGAUGUUGUUACGGUAAGGCAAGGGACUGCAAAUCCUU-UAUCCCCAGUUCA 59
                                 .........10........20........30........40........50.........

                                 ...)))))..)))))).....).
chr-2.trna17-Cys-GCA             AAUCUGGG--UGCUGC-----CU 70
chr-4.trna404-Cys-GCA            AAUCUGGG--UGCCGC-----CU 71
chr-1.trna351-Cys-GCA            AAUCUGGG--UGUCGC-----CU 71
chr-7.trna217-Cys-GCA            AAUCUGGG--UGUCGC-----CU 71
chr-3.trna540-Cys-GCA            AAUCUGGG--UGUCGC-----CU 71
chr-4.trna238-Cys-GCA            AAUCUGGG--UGUCGC-----CU 71
chr-7.trna216-Cys-GCA            AAUCUGGG--UGUCGC-----CU 71
chr-5.trna265-Cys-GCA            AAUCUGGG--UGCCGC-----UU 71
chr-3.trna454-Cys-GCA            AAUCUGGG--UGGCGU-----CA 71
chr-1.trna414-Cys-GCA            AAUCUGGG--UGUCGC-----UU 71
chr-4.trna225-Cys-GCA            AAUCUGGG--UGUCGCGUGAUCA 76
chr-4.trna249-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-4.trna263-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-4.trna283-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-4.trna402-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-5.trna343-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-3.trna24-Cys-GCA             AACCCGGU--UGGGCC-----CU 72
chr-3.trna25-Cys-GCA             AACCCGGU--UGGGCC-----CU 72
chr-3.trna183-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-5.trna429-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-5.trna430-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-4.trna374-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-4.trna375-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-3.trna22-Cys-GCA             AACCCGGU--UGGGCC-----CU 72
chr-3.trna23-Cys-GCA             AACCCGGU--UGGGCC-----CU 72
chr-4.trna377-Cys-GCA            AACCCGAU--UGGGCC-----CU 72
chr-4.trna376-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-3.trna21-Cys-GCA             AACCUGGU--UGGGCC-----CU 72
chr-4.trna378-Cys-GCA            AACCCGGU--UGGGCC-----CU 72
chr-2.trna486-Cys-GCA            AACCCGGUUGUGGGCC-----CU 74
chr-3.trna44-Cys-GCA             AAUCUGGG--UGUCGC-----CC 75
chr-3.trna45-Cys-GCA             AAUCUGGG--UGUCGC-----CC 75
chr-7.trna2-Cys-GCA              AAUCUGGG--UGUCGC-----CC 75
                                 .........70.........80..
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