```
                10        20        30        40        50        60        70        80        90       100
        ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
D1-g    GATGATG-ATGATAATGATGATGGTGATGATAGTGATGATA-ATGGTAATGATGATGATGATGATGCTGATAA---------TGGTGATGATTA--TGAT
D1-b    AATGTTGTGTTATGAAATTCCTCTTGCTTCGAGTTATGA-A-ATCATAAAAAAGG-AATAATCATTTGGAAAAAAAATCACTTGAATATATTTAATCGAT
D1-y    GATGATG-ATGATAATGATGATGGTGATGATAGTGATGATA-ATGGTAATGATGATGATGATGATGCTGATAA---------TGGTGATGATTA--TGAT
B8      ----TG-ATTATGATTATGATGATGATGATAATGATGATA-ATGGTAA------------T-------------------------------------
A2      -AAAGAGTAATCTGACCTTTGCCTAGATCAAGATT-TGCTACACCATATCAAAACATTTGTAACTTTCCAATT-------------------------T
E2      GCTACGGCAGGCAGCCAATGAAAACGAATTCGTTTGATAAA-ATTATGAAAATGCAAGCACTACTTTAAACAAAC-----------------------AG

                110       120       130       140       150       160       170       180       190       200
        ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
D1-g    TGGTATGATGATGATGA-TGACGACTGTAAGATAACGAAGAAAATGATG-ACTAGAATATTGATGATGAT--AATGGTAAT---------GATAACGAT
D1-b    TGCGTTGATGATGATGA-TGATGCCTGCACGATGAAGGATAAAAAGATA-ATAACACTAGTGATGATAATGAAAATGATGATTAGAAAATTGATGATGAT
D1-y    TGGTATGATGATGATGA-TGACGACTGTAAGATAACGAAGAAAATGATG-ACTAGAATATTGATGATGAT--AATGGTAAT---------GATAACGAT
B8      ---------GATGATGA-TGACGACTGTAAGATAACGAAGAAAATGATG-ACTAGAATATTGATGATGAT--AATGGTAAT---------GAAAATGAT
A2      GTTCTCTTTGTTCACAA-TTATGTTTACAAAAATAAAAATGCAACGATGTGTTATGAAAGTCCTCAAGCTTCGAGTTATGAA--ATCATTAAAAAAAAA
E2      AACTTTGTTATTCCTAGCTCACTTTTCCTGACTGATGTGTCATGTGAAAGGGCAGAA-ACTAAACTTTCT-AGAAATGTGAT----------TTTCTCTT

                210       220       230       240       250       260       270       280       290       300
        ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
D1-g    TGTAATGATGATGTTGTT-ATTGCCTAGATTCTTTGACAACATTGTTAAATGGCTTTCGAATCAATGCAATTTTTCAGATAGAAGGATC----------
D1-b    TGTTTTGATGATGTTGTT-ATTGCCTAGATTCTTTGATAACTTTGTTAAATGGCTTTCGAATCAATGCAATTTTTCAGATAGAAGGATC----------
D1-y    TGTAATGATGATGTTGTT-ATTGCCTAGATTCTTTGACAACATTGTTAAATGGCTTTCGAATCAATGCAATTTTTCAGATAGAAGGATC----------
B8      TGTAATGATGATGTTGTT-ATTGCCTAGATTTTTTGATAACTTTGTTAAATGGCTTTCGAATCAATGCAATTTTTCAGATAGAAGGAT-----------
A2      TACAATGGTTAAGATAAT-GATGATGAG-------GATGGTGATGATTATCATGTTTTTGATCATGATCATTATCTGATCAAGATAATGTTATTAGTGTA
E2      TGAAATTCAGATACCGTCCGCCAAATGACCTTTTTTAAAACTTTGTTAAATGGCTTTCGAATCCATGCAATTTTTCAGATAGAAGGAT----------

                310       320       330       340       350       360       370       380       390       400
        ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
D1-g    ---------GGGGGAGA-GAAGGAGAAGGAGAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA-----------CACTCAGACGG
D1-b    ---------GGGGGAGA-GAAGGAGAAGGAGAGATAGAGAGAGATAGAGAGAGAGA-----------------------TACTCAGACGG
D1-y    ---------GGGGGAGA-GAAGGAGAAGGAGAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGACACTCAGACGG
B8      ---AGGGGAAAGGGGGAGA-GAAAGAGAAAGAGAAAGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA-----------
A2      TCAT-----------------------AGAGAGATAGACAGATAGACAGAGAAAGAGAGAGAGAGAGAGAGA-----------------------
E2      ---------AGGGGGATACAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA-----------------------

                410       420       430       440       450       460       470       480
        ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
D1-g    ACAGGGAGGCAGGCAGGCAGACTG-----------------------------------GC-TCCCTCGCAAACTCAAAGGGTGACTA
D1-b    ACAGACAGGCAGGCAGACAGACAGAGAAAGAGGGAGAGAAACCGATGACCGT--TAGC-TCCCTCGCAAACTCAAAGGGTGACTA
D1-y    ACAGGGAGGCAGGCAGGCAGACTGAGAAAGAGAGAGAGAAACCGATGACCGT--TAGC-TCCCTCGCAAACTCAAAGGGTGACTA
B8      ---------------------------------------AACCGATGACCGTTATAGC-TCCCTCGCAAACTCAAAGGGTGACTA
A2      ---------------------------------------AACCGATGAACGTTGCATCCTCCC---AAATTTGAAGGATGACTA
E2      ---------------------------------AAGAGA--CCAGTTACCGGTGCTTCCTA-----------------------
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