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-1:1D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTT-ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 673 -2:2D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGT--ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 603 515 -9:9D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGA-----ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 493 416 -6:6D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAAC-----ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 399 334 -7:7D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAA-----ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 279 -1:5D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTT-I----GGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAAACAAA 279 279 1:1D+TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTG-CTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAAACAAA 261 254 -1:6D+TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTT-I----GTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 221 218 -1:10D+TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTT-I-----GAACCTCATGTAGGAAAGGTATGCTGTAAAACAAA 202 1:8D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTG-----AGAACCTCATGTAGGAAAGGTATGCTGTAAACAAA 194 188 -11:10D+TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACG-----GACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 178 169 1:11D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTG------ACCTCATGTAGGAAAGGTATGCTGTAAACAAA 164 151 147 115 113 104 1:7D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTG-----AAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 90 88 -6:7D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAAC------CTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 1:4D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTG----GGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 79 78 71 -3:5D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCG-----TCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 70 -2:11D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGT------GAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA -16:16D+TTGATCCAAAAGGCAGCCACCCCAGGCCT-------ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 55 -22:22D TTGATCCAAAAGGCAGCCACCCC-------ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTAAAACAAA 50 -4:14D TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCC-------AACCTCATGTAGGAAAGGTATGCTGTAAAACAAA 38 -1:9D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTT-----AGGACCTCATGTAGGAAAGGTATGCTGTGAAACAAA 34 1:2D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCTCATG--TAGGAAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 2:9D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTGA------GACCTCATGTAGGAAAGGTATGCTGTAAAACAAA 30 -1:3D+TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCTCTT---ACGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 30 29 -5:4D,3:5D TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACC----TAC----AAGAACCTCATGTAGGAAAGGTATGCTGTGTAAAACAAA 28 2:4D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTGAA----GTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 28 2:22D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTGA---------AAAGGTATGCTGTAAACAAA 28 -6:13D+TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAAC-----AAGAACCTCATGTAGGAAAGGTATGCTGTAAAACAAA -21:21D-TTGATCCAAAAGGCAGCCACCCCA-------ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAAACAAA -2:10D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGT------AGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 1:14D TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTG------TCATGTAGGAAAGGTATGCTGTAAACAAA -7:6D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAA-----GACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAAACAAA 25 -10:6D,2:5D-TTGATCCAAAAGGCAGCCACCCAGGCCTTCACGG-----GTTGA----TGAGAACCTCATGTAGGAAAGGTATGCTGTAAAACAAA -6:4D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAAC----TGACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA -18:18D-TTGATCCAAAAGGCAGCCACCCCAGGC--------ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAAACAAA 22 -23:23D TTGATCCAAAAGGCAGCCACCC----------ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAAACAAA -1:2D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTT---CTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAAACAA -2:11,5:3D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTAGAATC---AGGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA -3:11D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCG--------AGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 4:21.11:6D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTGGGTTAG-----GTGTAGGAAAGGTATGCTGTGTAAACAAA 18 18 -8:18D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAA--------AACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 18 -8:5D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAA----CTAACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA -5:2D,2:1D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACC--GTGA-ACGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 17 -10:6D+TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGG-----GTTTACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 17 15 -2:4D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGT----TCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAAACAAA -11:18D+TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACG-------AAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 15 -5:4D+TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACC----TACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 13 -3:2D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCG--GACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAAACAAA 13 -5:3D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACC---TTACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 12 -26:1D-TTGATCCAAAAGGCAGCCA-CCCAGGCCTTCACGGAAACCCGTTGACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 4 -1:2D,4:7D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTT----TACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 3 -1:5D,13:4D TTGATCCAAARGGCAGCCAYCCCAGGCCTTCACGGAAACCCRTT-I----GGTAAGAA----ATGTAGGAAAGGTATGCTGTGTAAACAAA -9:8D-TTGATCCAAAAGGCAGCCACCCCAGGCCTYCACGGA-----GACYCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 1:9D-TTGATCCAAAAGGCAGCCRCCYCAGGCCTTCACGGAAACCCGTTG------KAACCTCATGTAGGAARGGTATGCTGTAAAACAAA 2 -10:1D+TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGG-AACCCGTTGACTCAGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA 2:5D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTGA----TAAGAACCTCATGTAGGAAAGGTATGCTGTAAAACAAA 8:1D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTGACTCGGT-AGAACCTCATGTAGGAAAGGTATGCTGTGAAACAAA -29:1D-TTGATCCAAAAGGCAG-CACCCCAGGCCTTCACGGAAACCCGTTGACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGAAACAAA 2 -12:11,-3:5D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCG----TCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA -8:8D.8:1D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAA-----ACTCGGT-AGAACCTCATGTAGGAAAGGTATGCTGTGTAAACAAA -2:2D,39:1D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGT--ACTCGGTAAGAACCTCATGTAGGAAAGGTATGCTGTGT-AACAAA -11:10D,17:3D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACG-----GACTCGGTAAGAACCTC---TAGGAAAGGTATGCTGTGTAAACAA -26:1D,1:2D-TTGATCCAAAAGGCAGCCA-CCCAGGCCTTCACGGAAACCTCATG--TAGGAAAGAACCTCATGTAGGAAAGGTATGCTGTGAAACAAA -15:1D,1:11D+TTGATCCAAAAGGCAGCCACCCCAGGCCTT-ACGGAAACCCGTTG-----ACCTCATGTAGGAAAGGTATGCTGTAAAACAAA -5:8D.27:1D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACC-----CGGTAAGAACCTCATGTAGGAAA-GTATGCTGTGAAACAAA -1:5D,8:5D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTT-----GGT-----CCTCATGTAGGAAAGGTATGCTGTGTAAACAAA -11:10D.24:1D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACG-----GACTCGGTAAGAACCTCATGTAGG-AAGGTATGCTGTGTAAACAAA 2:13D.24:1D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTGA-----TCATGTAGG-AAGGTATGCTGTGAAACAAA 24:1D-TTGATCCAAAAGGCAGCCACCCCAGGCCTTCACGGAAACCCGTTGACTCGGTAAGAACCTCATGTAGG-AAGGTATGCTGTGAAACAAA -25-20-1515 35 -40-35-30-10 -5 -11 10 20 25 30 40 45 -45