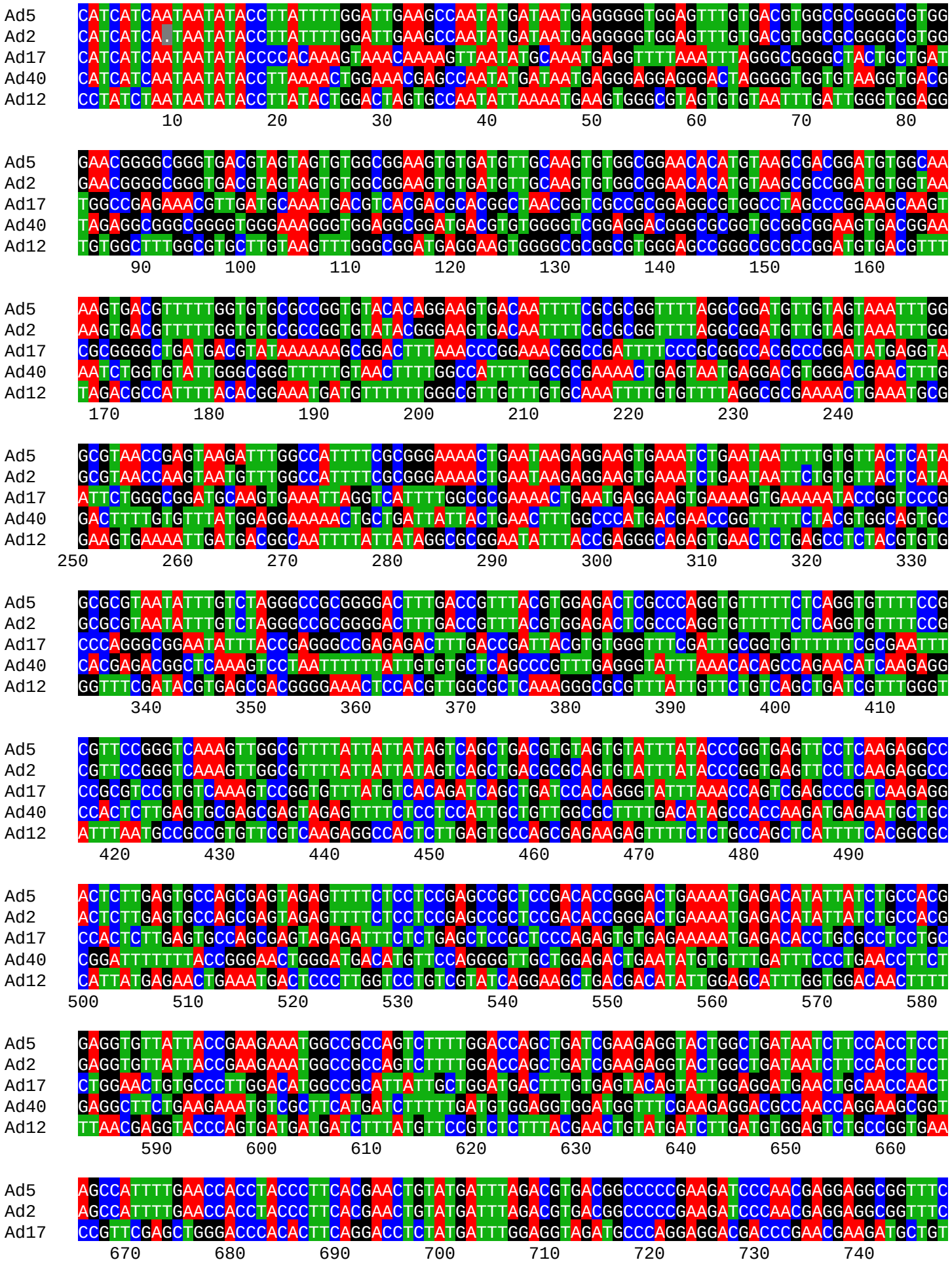
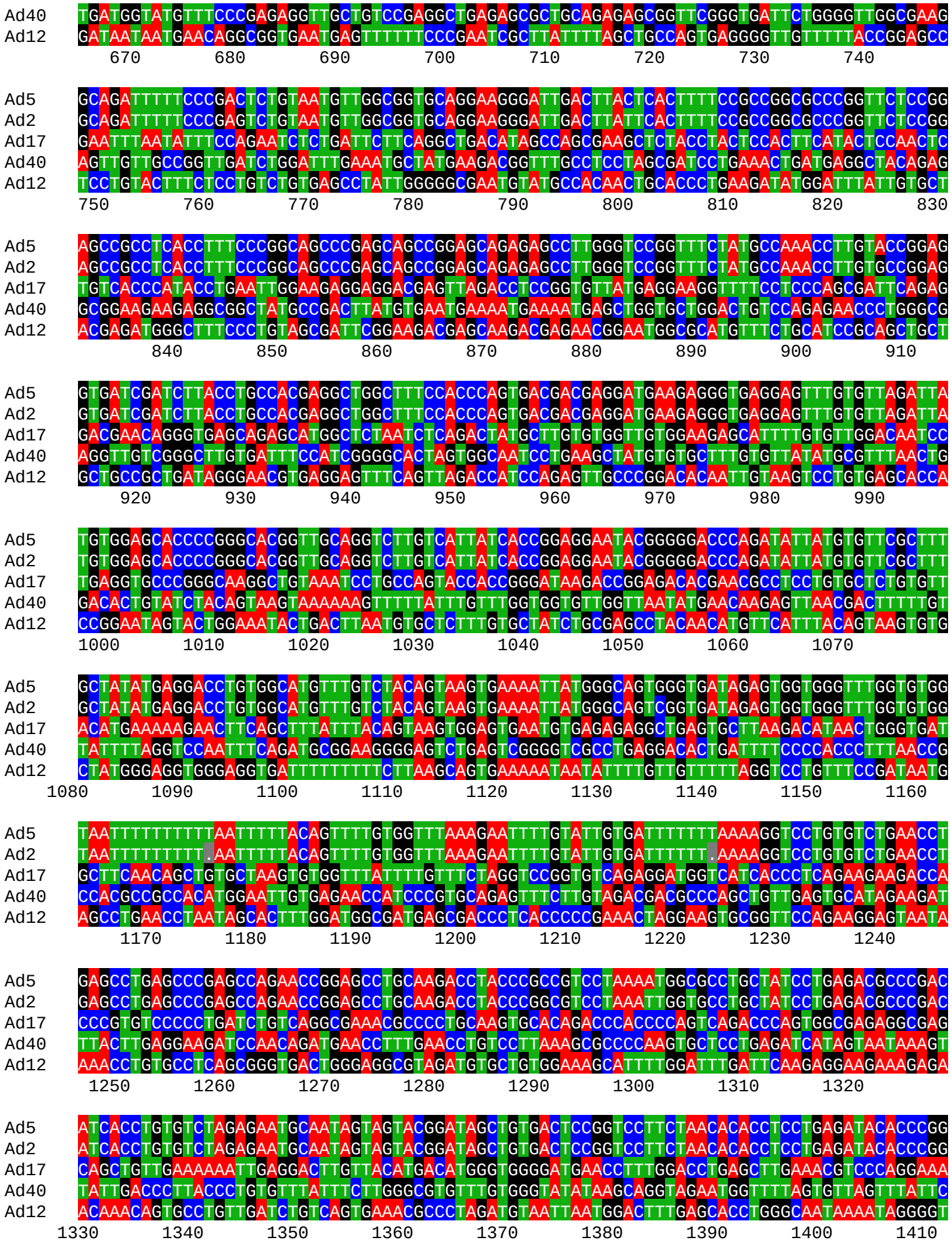
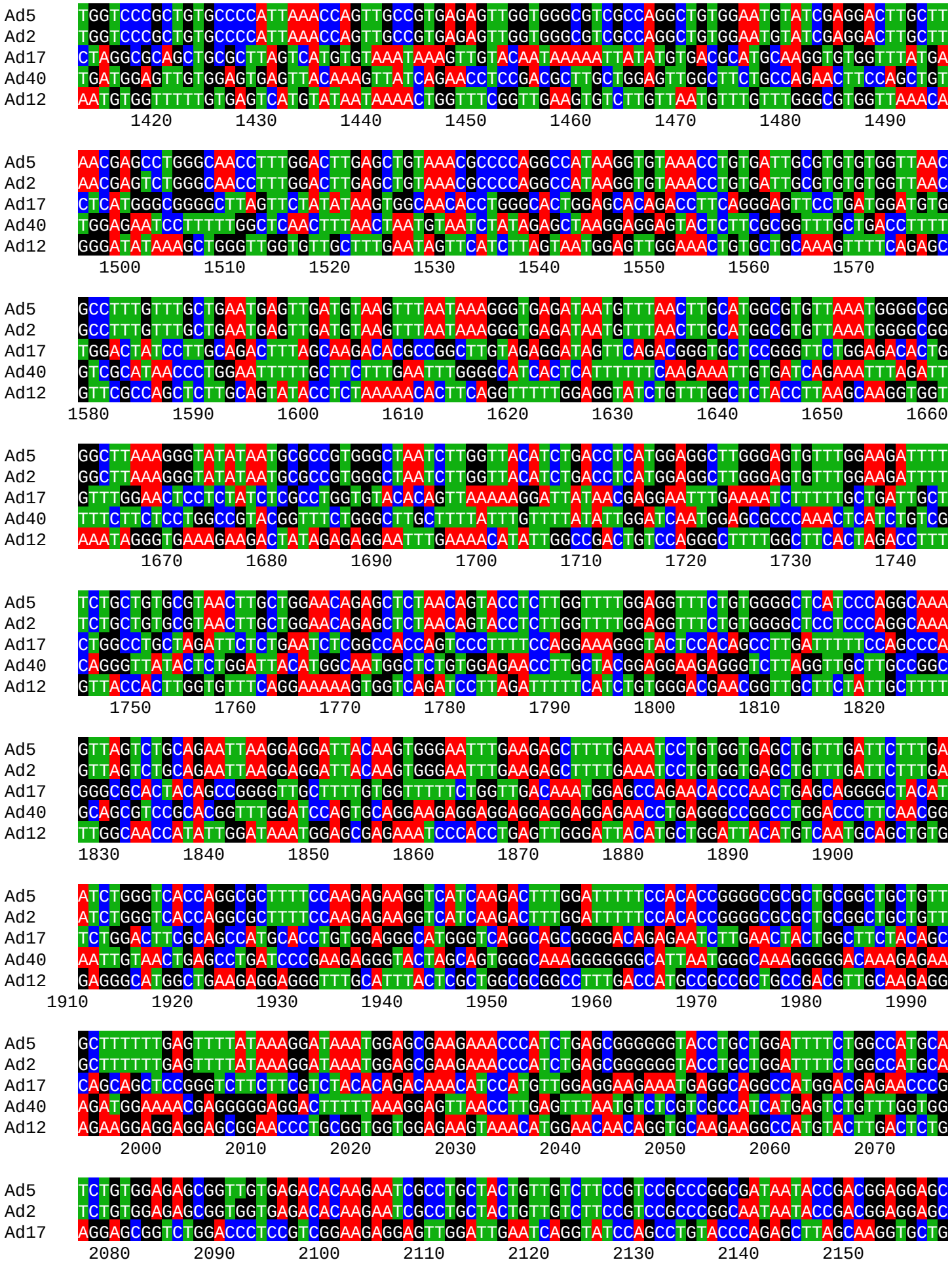
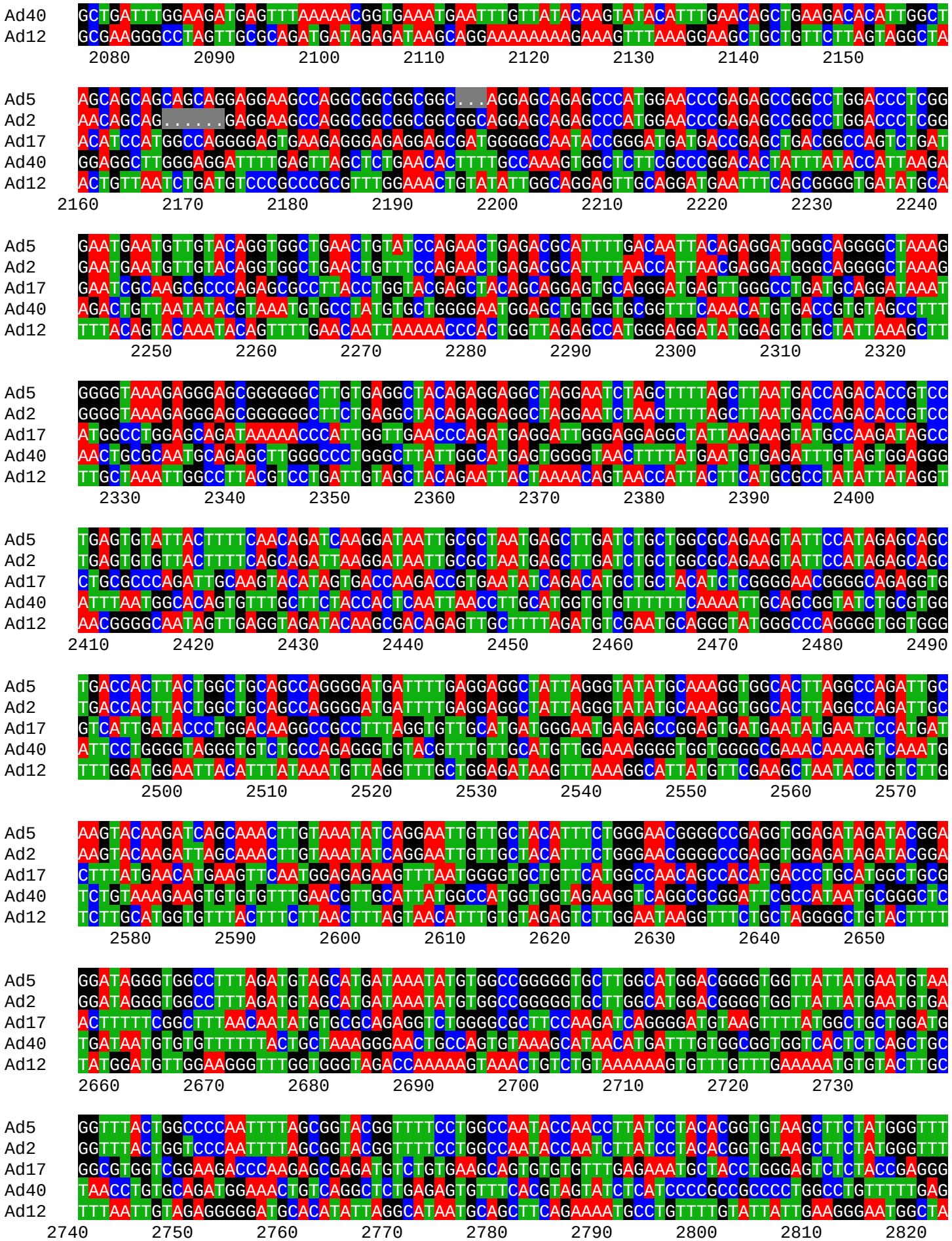
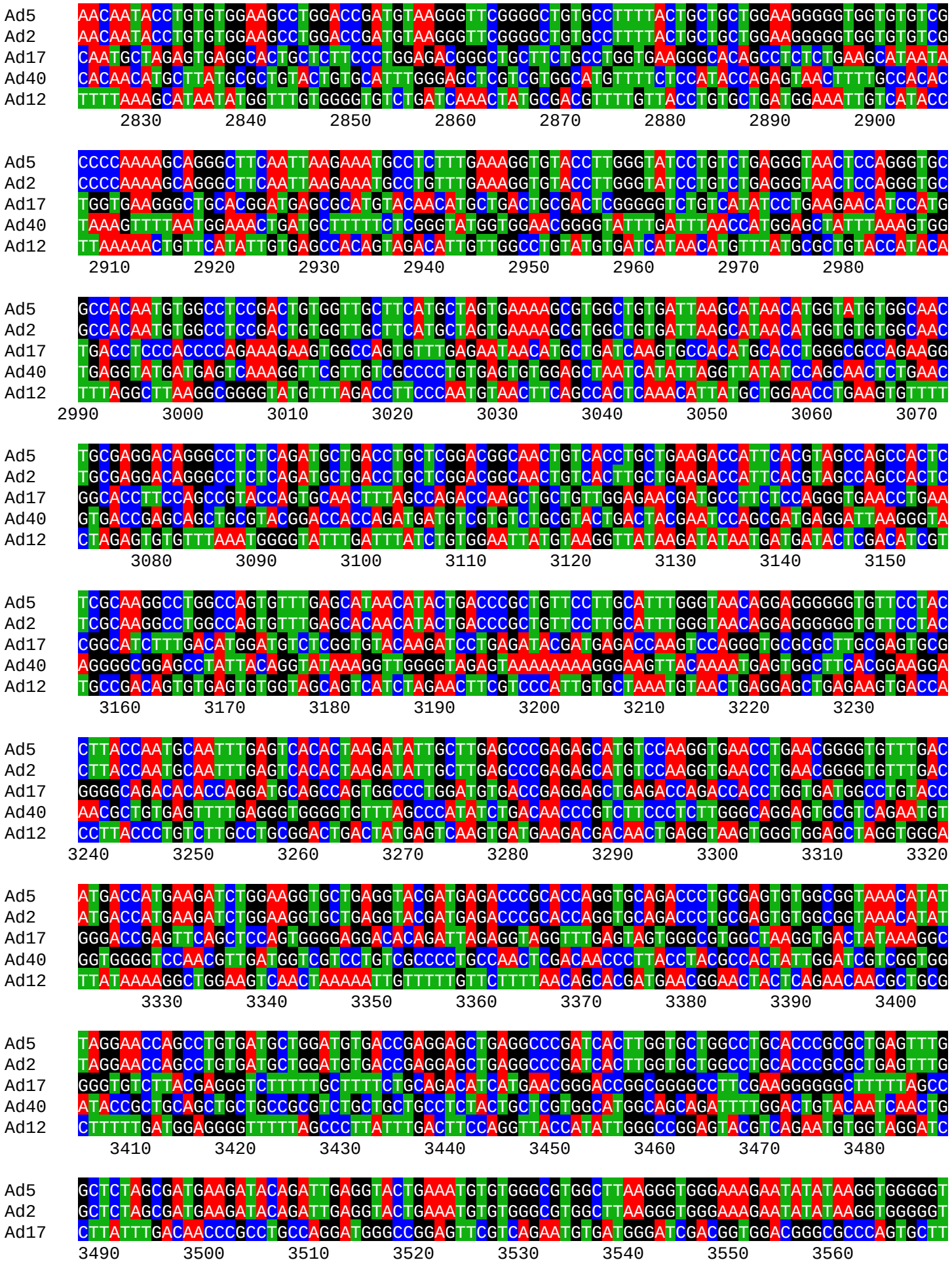
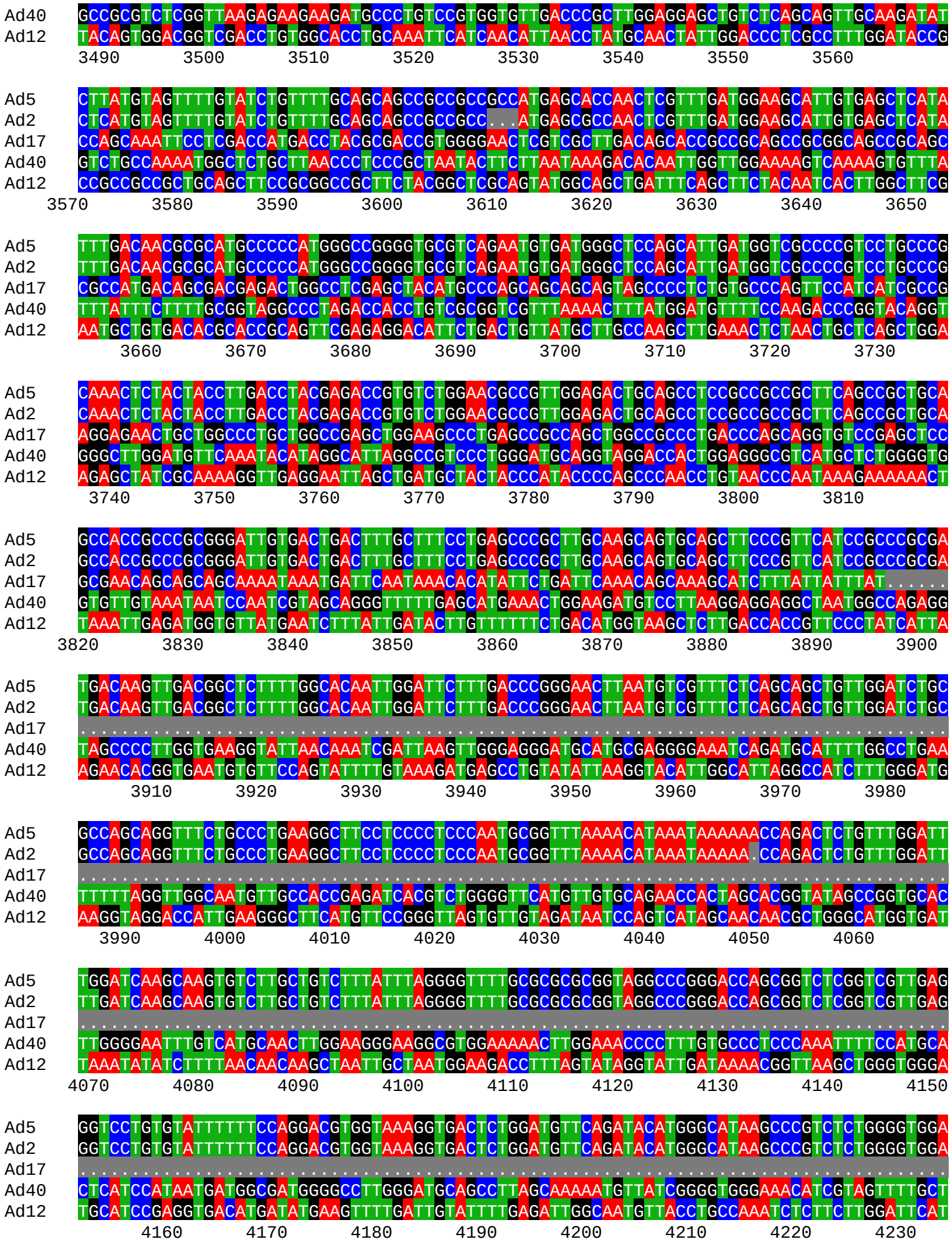

Ad5
Ad2
Ad17
Ad40
Ad12
10 20 30 40 50 60 70 80
90 100 110 120 130 140 150 160
170 180 190 200 210 220 230 240
250 260 270 280 290 300 310 320 330
340 350 360 370 380 390 400 410
420 430 440 450 460 470 480 490
500 510 520 530 540 550 560 570 580
590 600 610 620 630 640 650 660
670 680 690 700 710 720 730 740

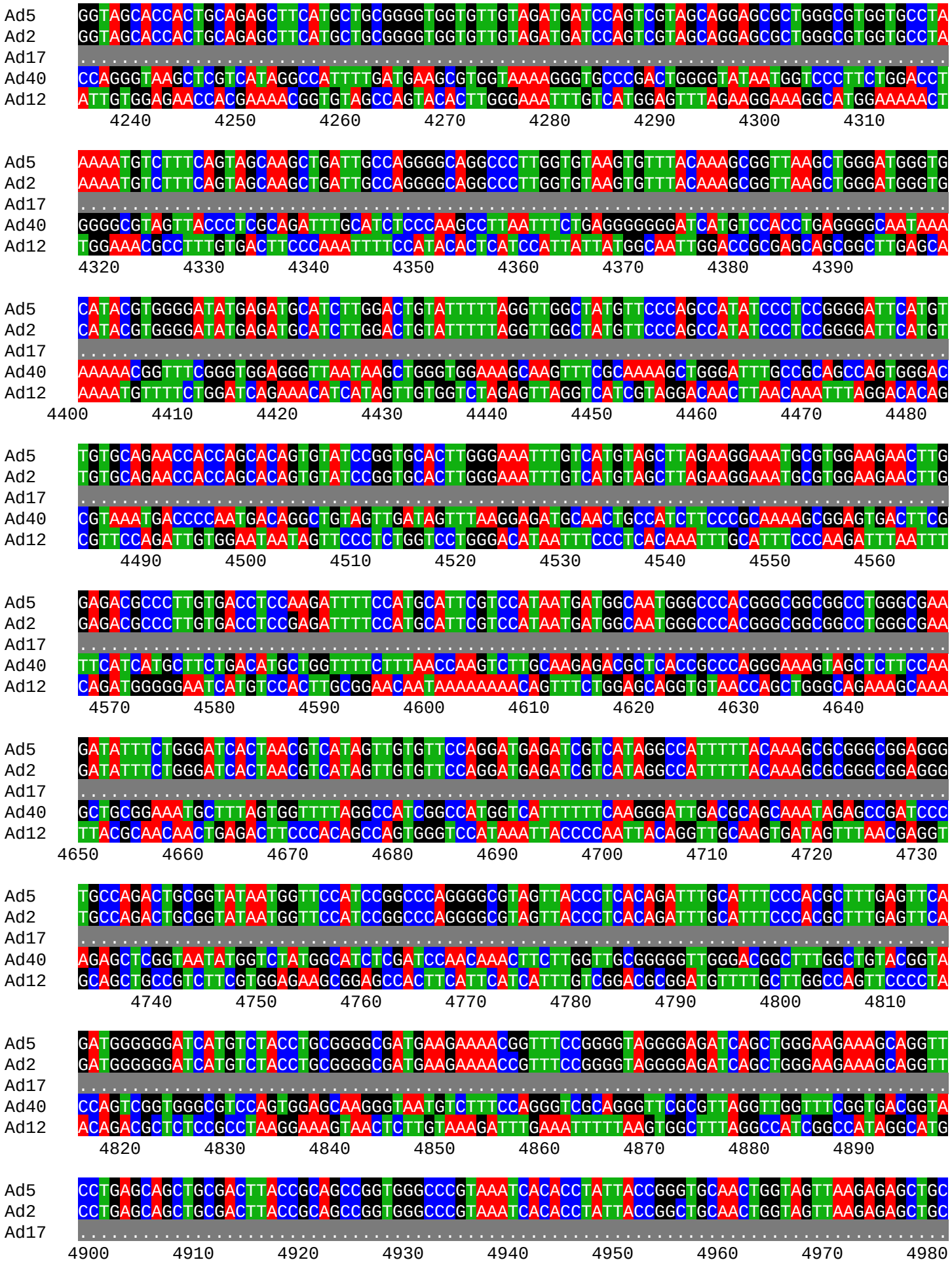

Ad40 TGATGGTATGTTTCCCGAGAGGTTGCTGTCCGAGGCTGAGAGCGCTGCAGAGAGCGGTTCGGGTGATTCTGGGGTTGGCGAAG
Ad12 GATAATAATGAACAGGCGGTGAATGAGTTTTTTCCCGAATCGCTTATTTTAGCTGCCAGTGAGGGGTTGTTTTTACCGGAGCC
670 680 690 700 710 720 730 740
Ad5 GCAGATTTTTCCCGACTCTGTAATGTTGGCGGTGCAGGAAGGGATTGACTTACTCACTTTTCCGCCGGCGCCCGGTTCTCCGG
Ad2 GCAGATTTTTCCCGAGTCTGTAATGTTGGCGGTGCAGGAAGGGATTGACTTATTCACTTTTCCGCCGGCGCCCGGTTCTCCGG
Ad17 GAATTTAATATTTCCAGAATCTCTGATTCTTCAGGCTGACATAGCCAGCGAAGCTCTACCTACTCCACTTCATACTCCAACTC
Ad40 AGTTGTTGCCGGTTGATCTGGATTTGAAATGCTATGAAGACGGTTTGCCTCCTAGCGATCCTGAAACTGATGAGGCTACAGAG
Ad12 TCCTGTACTTTCTCCTGTCTGTGAGCCTATTGGGGGCGAATGTATGCCACAACTGCACCCTGAAGATATGGATTTATTGTGCT
750 760 770 780 790 800 810 820 830
Ad5 AGCCGCCTCACCTTTCCCGGCAGCCCGAGCAGCCGGAGCAGAGAGCCTTGGGTCCGGTTTCTATGCCAAACCTTGTACCGGAG
Ad2 AGCCGCCTCACCTTTCCCGGCAGCCCGAGCAGCCGGAGCAGAGAGCCTTGGGTCCGGTTTCTATGCCAAACCTTGTGCCGGAG
Ad17 TGTCACCCATACCTGAATTGGAAGAGGAGGACGAGTTAGACCTCCGGTGTTATGAGGAAGGTTTTCCTCCCAGCGATTCAGAG
Ad40 GCGGAAGAAGAGGCGGCTATGCCGACTTATGTGAATGAAAATGAAAATGAGCTGGTGCTGGACTGTCCAGAGAACCCTGGGCG
Ad12 ACGAGATGGGCTTTCCCTGTAGCGATTCGGAAGACGAGCAAGACGAGAACGGAATGGCGCATGTTTCTGCATCCGCAGCTGCT
840 850 860 870 880 890 900 910
Ad5 GTGATCGATCTTACCTGCCACGAGGCTGGCTTTCCACCCAGTGACGACGAGGATGAAGAGGGTGAGGAGTTTGTGTTAGATTA
Ad2 GTGATCGATCTTACCTGCCACGAGGCTGGCTTTCCACCCAGTGACGACGAGGATGAAGAGGGTGAGGAGTTTGTGTTAGATTA
Ad17 GACGAACAGGGTGAGCAGAGCATGGCTCTAATCTCAGACTATGCTTGTGTGGTTGTGGAAGAGCATTTTGTGTTGGACAATCC
Ad40 AGGTTGTCGGGCTTGTGATTTCCATCGGGGCACTAGTGGCAATCCTGAAGCTATGTGTGCTTTGTGTTATATGCGTTTAACTG
Ad12 GCTGCCGCTGATAGGGAACGTGAGGAGTTTCAGTTAGACCATCCAGAGTTGCCCGGACACAATTGTAAGTCCTGTGAGCACCA
920 930 940 950 960 970 980 990
Ad5 TGTGGAGCACCCCGGGCACGGTTGCAGGTCTTGTCATTATCACCGGAGGAATACGGGGGACCCAGATATTATGTGTTCGCTTT
Ad2 TGTGGAGCACCCCGGGCACGGTTGCAGGTCTTGTCATTATCACCGGAGGAATACGGGGGACCCAGATATTATGTGTTCGCTTT
Ad17 TGAGGTGCCCGGGCAAGGCTGTAAATCCTGCCAGTACCACCGGGATAAGACCGGAGACACGAACGCCTCCTGTGCTCTGTGTT
Ad40 GACACTGTATCTACAGTAAGTAAAAAAGTTTTTATTTGTTTGGTGGTGTTGGTTAATATGAACAAGAGTTAACGACTTTTTGT
Ad12 CCGGAATAGTACTGGAAATACTGACTTAATGTGCTCTTTGTGCTATCTGCGAGCCTACAACATGTTCATTTACAGTAAGTGTG
1000 1010 1020 1030 1040 1050 1060 1070
Ad5 GCTATATGAGGACCTGTGGCATGTTTGTCTACAGTAAGTGAAAATTATGGGCAGTGGGTGATAGAGTGGTGGGTTTGGTGTGG
Ad2 GCTATATGAGGACCTGTGGCATGTTTGTCTACAGTAAGTGAAAATTATGGGCAGTCGGTGATAGAGTGGTGGGTTTGGTGTGG
Ad17 ACATGAAAAAGAACTTCAGCTTTATTTACAGTAAGTGGAGTGAATGTGAGAGAGGCTGAGTGCTTAAGACATAACTGGGTGAT
Ad40 TATTTTAGGTCCAATTTCAGATGCGGAAGGGGAGTCTGAGTCGGGGTCGCCTGAGGACACTGATTTTCCCCACCCTTTAACCG
Ad12 CTATGGGAGGTGGGAGGTGATTTTTTTTTCTTAAGCAGTGAAAAATAATATTTTGTTGTTTTTAGGTCCTGTTTCCGATAATG
1080 1090 1100 1110 1120 1130 1140 1150 1160
Ad5 TAATTTTTTTTTTAATTTTTACAGTTTTGTGGTTTAAAGAATTTTGTATTGTGATTTTTTTAAAAGGTCCTGTGTCTGAACCT
Ad2 TAATTTTTTTTTT.AATTTTTACAGTTTTGTGGTTTAAAGAATTTTGTATTGTGATTTTTTT.AAAAGGTCCTGTGTCTGAACCT
Ad17 GCTTCAACAGCTGTGCTAAGTGTGGTTTATTTTGTTTCTAGGTCCGGTGTCAGAGGATGGTCATCACCCTCAGAAGAAGACCA
Ad40 CCACGCCGCCACATGGAATTGTGAGAACCATCCCGTGCAGAGTTTCTTGTAGACGACGCCCAGCTGTTGAGTGCATAGAAGAT
Ad12 AGCCTGAACCTAATAGCACTTTGGATGGCGATGAGCGACCCTCACCCCCGAAACTAGGAAGTGCGGTTCCAGAAGGAGTAATA
1170 1180 1190 1200 1210 1220 1230 1240
Ad5 GAGCCTGAGCCCGAGCCAGAACCGGAGCCTGCAAGACCTACCCGCCGTCCTAAAATGGCGCCTGCTATCCTGAGACGCCCGAC
Ad2 GAGCCTGAGCCCGAGCCAGAACCGGAGCCTGCAAGACCTACCCGGCGTCCTAAATTGGTGCCTGCTATCCTGAGACGCCCGAC
Ad17 CCCGTGTCCCCCTGATCTGTCAGGCGAAACGCCCCTGCAAGTGCACAGACCCACCCCAGTCAGACCCAGTGGCGAGAGGCGAG
Ad40 TTACTTGAGGAAGATCCAACAGATGAACCTTTGAACCTGTCCTTAAAGCGCCCCAAGTGCTCCTGAGATCATAGTAATAAAGT
Ad12 AAACCTGTGCCTCAGCGGGTGACTGGGAGGCGTAGATGTGCTGTGGAAAGCATTTTGGATTTGATTCAAGAGGAAGAAAGAGA
1250 1260 1270 1280 1290 1300 1310 1320
Ad5 ATCACCTGTGTCTAGAGAATGCAATAGTAGTACGGATAGCTGTGACTCCGGTCCTTCTAACACACCTCCTGAGATACACCCGG
Ad2 ATCACCTGTGTCTAGAGAATGCAATAGTAGTACGGATAGCTGTGACTCCGGTCCTTCTAACACACCTCCTGAGATACACCCGG
Ad17 CAGCTGTTGAAAAAATTGAGGACTTGTTACATGACATGGGTGGGGATGAACCTTTGGACCTGAGCTTGAAACGTCCCAGGAAA
Ad40 TATTGACCCTTACCCTGTGTTTATTTCTTGGGCGTGTTTGTGGGTATATAAGCAGGTAGAATGGTTTTAGTGTTAGTTTATTC
Ad12 ACAAACAGTGCCTGTTGATCTGTCAGTGAAACGCCCTAGATGTAATTAATGGACTTTGAGCACCTGGGCAATAAAATAGGGGT
1330 1340 1350 1360 1370 1380 1390 1400 1410

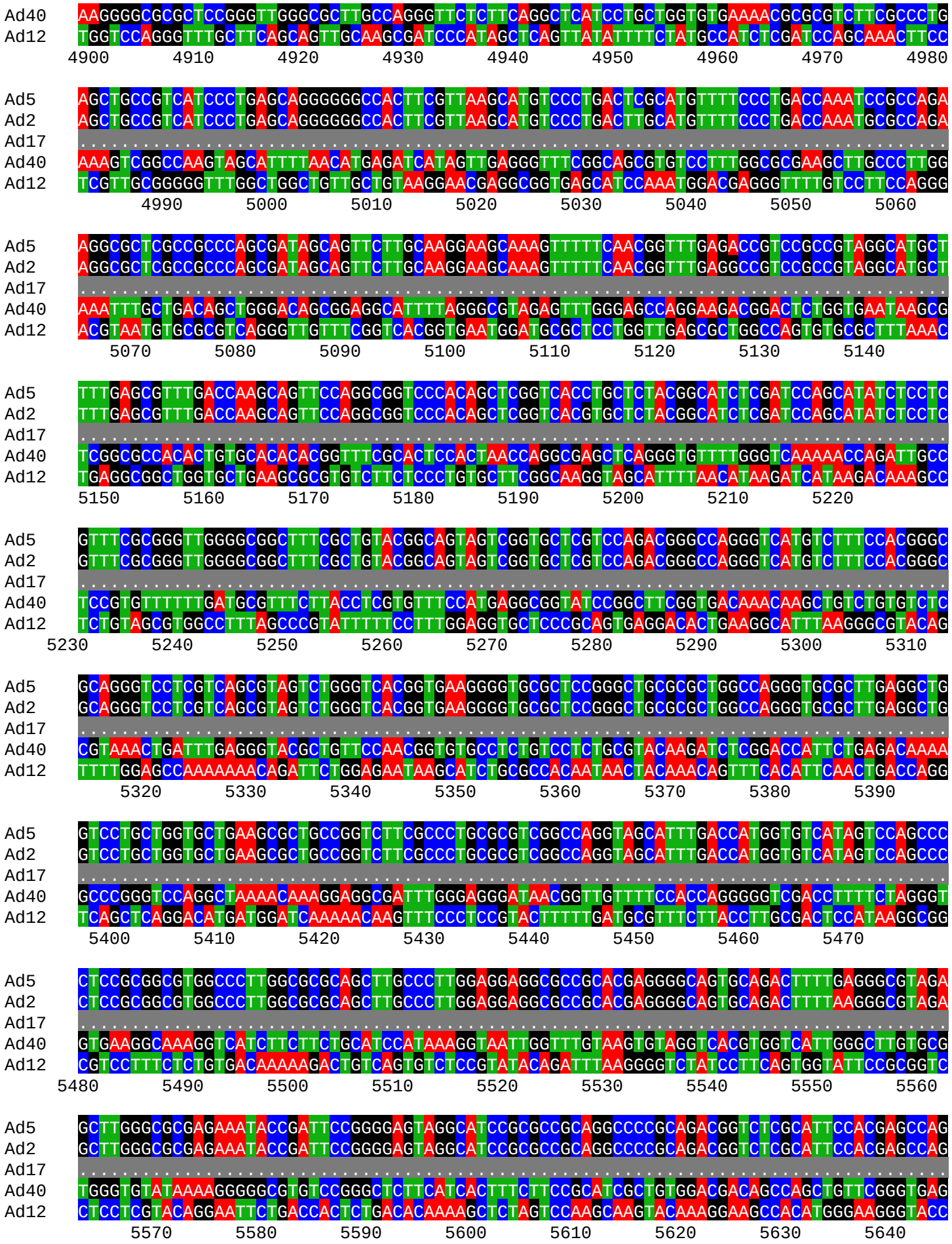

Ad5
Ad2
Ad17
Ad40
Ad12
1420 1430 1440 1450 1460 1470 1480 1490
1500 1510 1520 1530 1540 1550 1560 1570
1580 1590 1600 1610 1620 1630 1640 1650 1660
1670 1680 1690 1700 1710 1720 1730 1740
1750 1760 1770 1780 1790 1800 1810 1820
1830 1840 1850 1860 1870 1880 1890 1900
1910 1920 1930 1940 1950 1960 1970 1980 1990
2000 2010 2020 2030 2040 2050 2060 2070
2080 2090 2100 2110 2120 2130 2140 2150

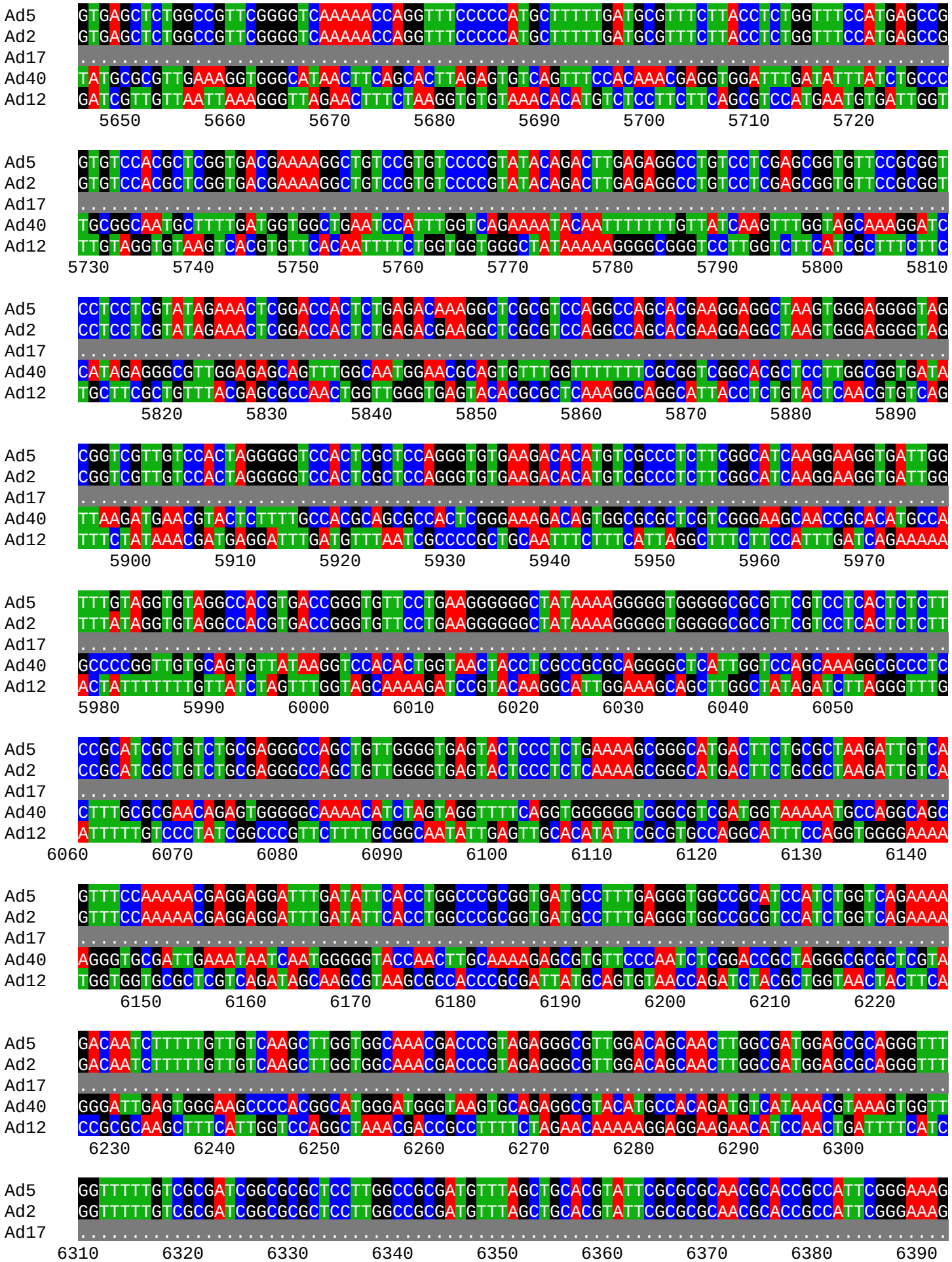

Ad40 GCTGATTTGGAAGATGAGTTTAAAAACGGTGAAATGAATTTGTTATACAAGTATACATTTGAACAGCTGAAGACACATTGGCT
Ad12 GCGAAGGGCCTAGTTGCGCAGATGATAGAGATAAGCAGGAAAAAAAAGAAAGTTTAAAGGAAGCTGCTGTTCTTAGTAGGCTA
2080 2090 2100 2110 2120 2130 2140 2150
Ad5 AGCAGCAGCAGCAGGAGGAAGCCAGGCGGCGGCGGC...AGGAGCAGAGCCCATGGAACCCGAGAGCCGGCCTGGACCCTCGG
Ad2 AACAGCAG......GAGGAAGCCAGGCGGCGGCGGCGGCAGGAGCAGAGCCCATGGAACCCGAGAGCCGGCCTGGACCCTCGG
Ad17 ACATCCATGGCCAGGGGAGTGAAGAGGGAGAGGAGCGATGGGGGCAATACCGGGATGATGACCGAGCTGACGGCCAGTCTGAT
Ad40 GGAGGCTTGGGAGGATTTTGAGTTAGCTCTGAACACTTTTGCCAAAGTGGCTCTTCGCCCGGACACTATTTATACCATTAAGA
Ad12 ACTGTTAATCTGATGTCCCGCCCGCGTTTGGAAACTGTATATTGGCAGGAGTTGCAGGATGAATTTCAGCGGGGTGATATGCA
2160 2170 2180 2190 2200 2210 2220 2230 2240
Ad5 GAATGAATGTTGTACAGGTGGCTGAACTGTATCCAGAACTGAGACGCATTTTGACAATTACAGAGGATGGGCAGGGGCTAAAG
Ad2 GAATGAATGTTGTACAGGTGGCTGAACTGTTTCCAGAACTGAGACGCATTTTAACCATTAACGAGGATGGGCAGGGGCTAAAG
Ad17 GAATCGCAAGCGCCCAGAGCGCCTTACCTGGTACGAGCTACAGCAGGAGTGCAGGGATGAGTTGGGCCTGATGCAGGATAAAT
Ad40 AGACTGTTAATATACGTAAATGTGCCTATGTGCTGGGGAATGGAGCTGTGGTGCGGTTTCAAACATGTGACCGTGTAGCCTTT
Ad12 TTTACAGTACAAATACAGTTTTGAACAATTAAAAACCCACTGGTTAGAGCCATGGGAGGATATGGAGTGTGCTATTAAAGCTT
2250 2260 2270 2280 2290 2300 2310 2320
Ad5 GGGGTAAAGAGGGAGCGGGGGGCTTGTGAGGCTACAGAGGAGGCTAGGAATCTAGCTTTTAGCTTAATGACCAGACACCGTCC
Ad2 GGGGTAAAGAGGGAGCGGGGGGCTTCTGAGGCTACAGAGGAGGCTAGGAATCTAACTTTTAGCTTAATGACCAGACACCGTCC
Ad17 ATGGCCTGGAGCAGATAAAAACCCATTGGTTGAACCCAGATGAGGATTGGGAGGAGGCTATTAAGAAGTATGCCAAGATAGCC
Ad40 AACTGCGCAATGCAGAGCTTGGGCCCTGGGCTTATTGGCATGAGTGGGGTAACTTTTATGAATGTGAGATTTGTAGTGGAGGG
Ad12 TTGCTAAATTGGCCTTACGTCCTGATTGTAGCTACAGAATTACTAAAACAGTAACCATTACTTCATGCGCCTATATTATAGGT
2330 2340 2350 2360 2370 2380 2390 2400
Ad5 TGAGTGTATTACTTTTCAACAGATCAAGGATAATTGCGCTAATGAGCTTGATCTGCTGGCGCAGAAGTATTCCATAGAGCAGC
Ad2 TGAGTGTGTTACTTTTCAGCAGATTAAGGATAATTGCGCTAATGAGCTTGATCTGCTGGCGCAGAAGTATTCCATAGAGCAGC
Ad17 CTGCGCCCAGATTGCAAGTACATAGTGACCAAGACCGTGAATATCAGACATGCTGCTACATCTCGGGGAACGGGGCAGAGGTG
Ad40 ATTTAATGGCACAGTGTTTGCTTCTACCACTCAATTAACCTTGCATGGTGTGTTTTTTCAAAATTGCAGCGGTATCTGCGTGG
Ad12 AACGGGGCAATAGTTGAGGTAGATACAAGCGACAGAGTTGCTTTTAGATGTCGAATGCAGGGTATGGGCCCAGGGGTGGTGGG
2410 2420 2430 2440 2450 2460 2470 2480 2490
Ad5 TGACCACTTACTGGCTGCAGCCAGGGGATGATTTTGAGGAGGCTATTAGGGTATATGCAAAGGTGGCACTTAGGCCAGATTGC
Ad2 TGACCACTTACTGGCTGCAGCCAGGGGATGATTTTGAGGAGGCTATTAGGGTATATGCAAAGGTGGCACTTAGGCCAGATTGC
Ad17 GTCATTGATACCCTGGACAAGGCCGCCTTTAGGTGTTGCATGATGGGAATGAGAGCCGGAGTGATGAATATGAATTCCATGAT
Ad40 ATTCCTGGGGTAGGGTGTCTGCCAGAGGGTGTACGTTTGTTGCATGTTGGAAAGGGGTGGTGGGGCGAAACAAAAGTCAAATG
Ad12 TTTGGATGGAATTACATTTATAAATGTTAGGTTTGCTGGAGATAAGTTTAAAGGCATTATGTTCGAAGCTAATACCTGTCTTG
2500 2510 2520 2530 2540 2550 2560 2570
Ad5 AAGTACAAGATCAGCAAACTTGTAAATATCAGGAATTGTTGCTACATTTCTGGGAACGGGGCCGAGGTGGAGATAGATACGGA
Ad2 AAGTACAAGATTAGCAAACTTGTAAATATCAGGAATTGTTGCTACATTTCTGGGAACGGGGCCGAGGTGGAGATAGATACGGA
Ad17 CTTTATGAACATGAAGTTCAATGGAGAGAAGTTTAATGGGGTGCTGTTCATGGCCAACAGCCACATGACCCTGCATGGCTGCG
Ad40 TCTGTAAAGAAGTGTGTGTTTGAACGTTGCATTATGGCCATGGTGGTAGAAGGTCAGGCGCGGATTCGCCATAATGCGGGCTC
Ad12 TCTTGCATGGTGTTTACTTTCTTAACTTTAGTAACATTTGTGTAGAGTCTTGGAATAAGGTTTCTGCTAGGGGCTGTACTTTT
2580 2590 2600 2610 2620 2630 2640 2650
Ad5 GGATAGGGTGGCCTTTAGATGTAGCATGATAAATATGTGGCCGGGGGTGCTTGGCATGGACGGGGTGGTTATTATGAATGTAA
Ad2 GGATAGGGTGGCCTTTAGATGTAGCATGATAAATATGTGGCCGGGGGTGCTTGGCATGGACGGGGTGGTTATTATGAATGTGA
Ad17 ACTTTTTCGGCTTTAACAATATGTGCGCAGAGGTCTGGGGCGCTTCCAAGATCAGGGGATGTAAGTTTTATGGCTGCTGGATG
Ad40 TGATAATGTGTGTTTTTTACTGCTAAAGGGAACTGCCAGTGTAAAGCATAACATGATTTGTGGCGGTGGTCACTCTCAGCTGC
Ad12 TATGGATGTTGGAAGGGTTTGGTGGGTAGACCAAAAAGTAAACTGTCTGTAAAAAAGTGTTTGTTTGAAAAATGTGTACTTGC
2660 2670 2680 2690 2700 2710 2720 2730
Ad5 GGTTTACTGGCCCCAATTTTAGCGGTACGGTTTTCCTGGCCAATACCAACCTTATCCTACACGGTGTAAGCTTCTATGGGTTT
Ad2 GGTTTACTGGTCCCAATTTTAGCGGTACGGTTTTCCTGGCCAATACCAATCTTATCCTACACGGTGTAAGCTTCTATGGGTTT
Ad17 GGCGTGGTCGGAAGACCCAAGAGCGAGATGTCTGTGAAGCAGTGTGTGTTTGAGAAATGCTACCTGGGAGTCTCTACCGAGGG
Ad40 TAACCTGTGCAGATGGAAACTGTCAGGCTCTGAGAGTGTTTCACGTAGTATCTCATCCCCGCCGCCCCTGGCCTGTTTTTGAG
Ad12 TTTAATTGTAGAGGGGGATGCACATATTAGGCATAATGCAGCTTCAGAAAATGCCTGTTTTGTATTATTGAAGGGAATGGCTA
2740 2750 2760 2770 2780 2790 2800 2810 2820

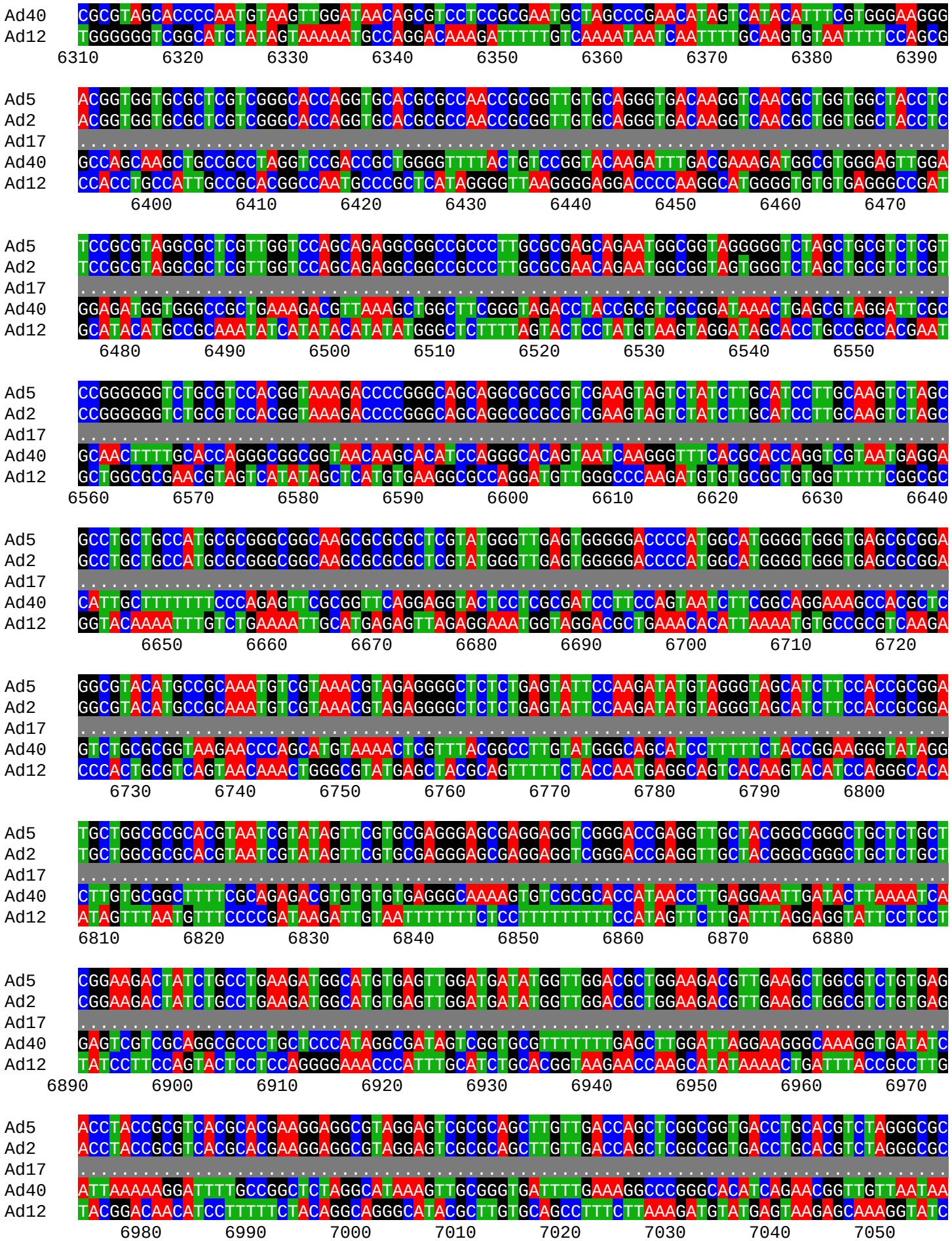

Ad5
Ad2
Ad17
Ad40
Ad12
2830 2840 2850 2860 2870 2880 2890 2900
2910 2920 2930 2940 2950 2960 2970 2980
2990 3000 3010 3020 3030 3040 3050 3060 3070
3080 3090 3100 3110 3120 3130 3140 3150
3160 3170 3180 3190 3200 3210 3220 3230
3240 3250 3260 3270 3280 3290 3300 3310 3320
3330 3340 3350 3360 3370 3380 3390 3400
3410 3420 3430 3440 3450 3460 3470 3480
3490 3500 3510 3520 3530 3540 3550 3560

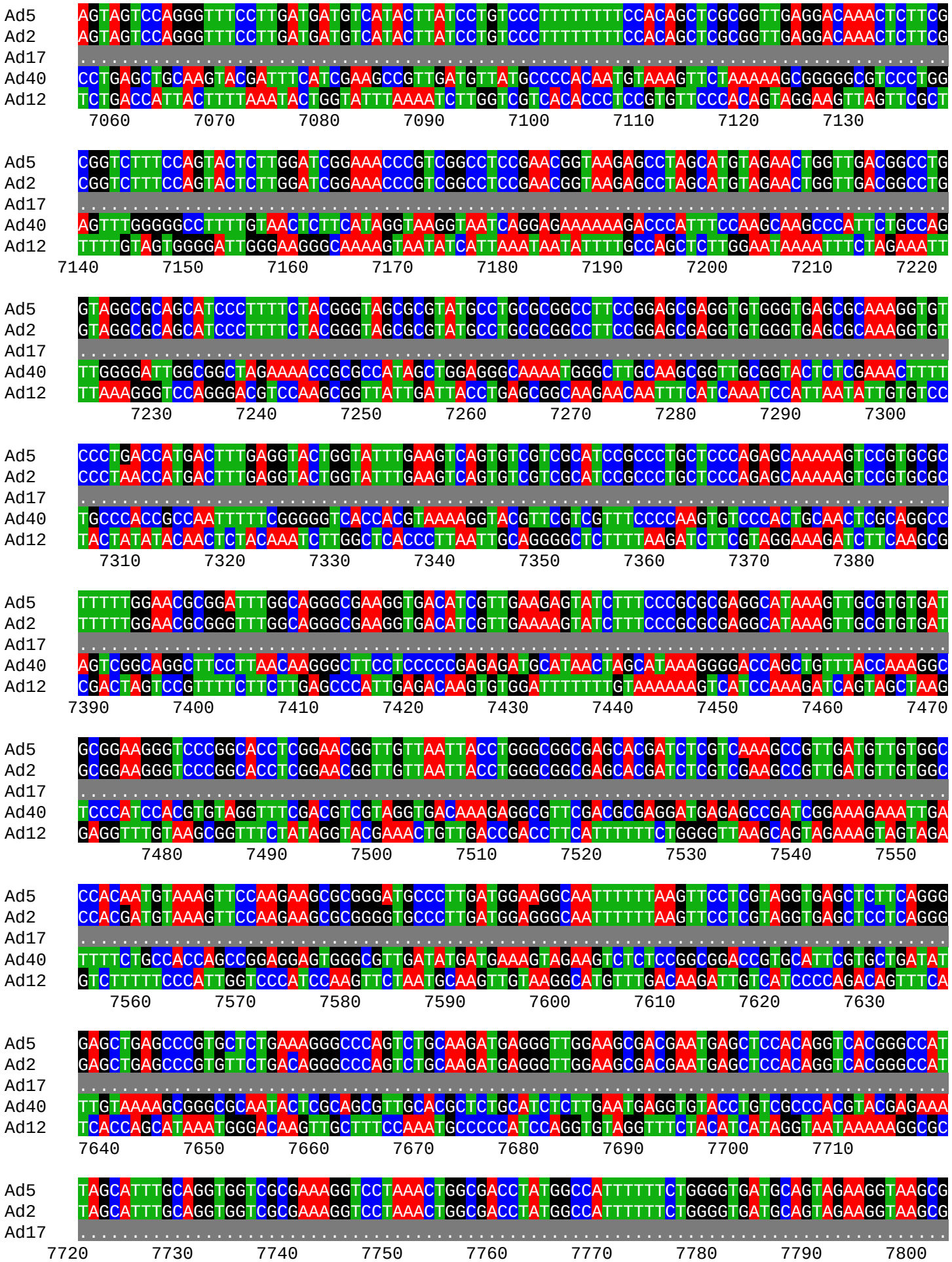

Ad40 GCCGCGTCTCGGTTAAGAGAAGAAGATGCCCTGTCCGTGGTGTTGACCCGCTTGGAGGAGCTGTCTCAGCAGTTGCAAGATAT
Ad12 TACAGTGGACGGTCGACCTGTGGCACCTGCAAATTCATCAACATTAACCTATGCAACTATTGGACCCTCGCCTTTGGATACCG
3490 3500 3510 3520 3530 3540 3550 3560
Ad5 CTTATGTAGTTTTGTATCTGTTTTGCAGCAGCCGCCGCCGCCATGAGCACCAACTCGTTTGATGGAAGCATTGTGAGCTCATA
Ad2 CTCATGTAGTTTTGTATCTGTTTTGCAGCAGCCGCCGCC...ATGAGCGCCAACTCGTTTGATGGAAGCATTGTGAGCTCATA
Ad17 CCAGCAAATTCCTCGACCATGACCTACGCGACCGTGGGGAACTCGTCGCTTGACAGCACCGCCGCAGCCGCGGCAGCCGCAGC
Ad40 GTCTGCCAAAATGGCTCTGCTTAACCCTCCCGCTAATACTTCTTAATAAAGACACAATTGGTTGGAAAAGTCAAAAGTGTTTA
Ad12 CCGCCGCCGCTGCAGCTTCCGCGGCCGCTTCTACGGCTCGCAGTATGGCAGCTGATTTCAGCTTCTACAATCACTTGGCTTCG
3570 3580 3590 3600 3610 3620 3630 3640 3650
Ad5 TTTGACAACGCGCATGCCCCCATGGGCCGGGGGTGCGTCAGAATGTGATGGGCTCCAGCATTGATGGTCGCCCCGTCCTGCCCG
Ad2 TTTGACAACGCGCATGCCCCCATGGGCCGGGGGTGCGTCAGAATGTGATGGGCTCCAGCATTGATGGTCGCCCCGTCCTGCCCG
Ad17 CGCCATGACAGCGACGAGACTGGCCTCGAGCTACATGCCCAGCAGCAGCAGTAGCCCCTCTGTGCCCAGTTCCATCATCGCCG
Ad40 TTTATTTCTTTTGCGGTAGGCCCTAGACCACCTGTCGCGGTCGTTTAAAACTTTATGGATGTTTTCCAAGACCCGGTACAGGT
Ad12 AATGCTGTGACACGCACCGCAGTTCGAGAGGACATTCTGACTGTTATGCTTGCCAAGCTTGAAACTCTAACTGCTCAGCTGGA
3660 3670 3680 3690 3700 3710 3720 3730
Ad5 CAAACTCTACTACCTTGACCTACGAGACCGTGTCTGGAACGCCGTTGGAGACTGCAGCCTCCGCCGCCGCTTCAGCCGCTGCA
Ad2 CAAACTCTACTACCTTGACCTACGAGACCGTGTCTGGAACGCCGTTGGAGACTGCAGCCTCCGCCGCCGCTTCAGCCGCTGCA
Ad17 AGGAGAACTGCTGGCCCTGCTGGCCGAGCTGGAAGCCCTGAGCCGCCAGCTGGCCGCCCTGACCCAGCAGGTGTCCGAGCTCC
Ad40 GGGCTTGGATGTTCAAATACATAGGCATTAGGCCGTCCCTGGGATGCAGGTAGGACCACTGGAGGGCGTCATGCTCTGGGGTG
Ad12 AGAGCTATCGCAAAAGGTTGAGGAATTAGCTGATGCTACTACCCATACCCCAGCCCAACCTGTAACCCAATAAAGAAAAAACT
3740 3750 3760 3770 3780 3790 3800 3810
Ad5 GCCACCGCCCGCGGGATTGTGACTGACTTTGCTTTCCTGAGCCCGCTTGCAAGCAGTGCAGCTTCCCGTTCATCCGCCCGCGA
Ad2 GCCACCGCCCGCGGGATTGTGACTGACTTTGCTTTCCTGAGCCCGCTTGCAAGCAGTGCAGCTTCCCGTTCATCCGCCCGCGA
Ad17 GCGAACAGCAGCAGCAAAATAAATGATTCAATAAACACATATTCTGATTCAAACAGCAAAGCATCTTTATTATTTAT.....
Ad40 GTGTTGTAAATAATCCAATCGTAGCAGGGTTTTTGAGCATGAAACTGGAAGATGTCCTTAAGGAGGAGGCTAATGGCCAGAGG
Ad12 TAAATTGAGATGGTGTTATGAATCTTTATTGATACTTGTTTTTTCTGACATGGTAAGCTCTTGACCACCGTTCCCTATCATTA
3820 3830 3840 3850 3860 3870 3880 3890 3900
Ad5 TGACAAGTTGACGGCTCTTTTGGCACAATTGGATTCTTTGACCCGGGAACTTAATGTCGTTTCTCAGCAGCTGTTGGATCTGC
Ad2 TGACAAGTTGACGGCTCTTTTGGCACAATTGGATTCTTTGACCCGGGAACTTAATGTCGTTTCTCAGCAGCTGTTGGATCTGC
Ad17 ....
Ad40 TAGCCCCTTGGTGAAGGTATTAACAAATCGATTAAGTTGGGAGGGATGCATGCGAGGGGAAATCAGATGCATTTTGGCCTGAA
Ad12 AGAACACGGTGAATGTGTTCCAGTATTTTGTAAAGATGAGCCTGTATATTAAGGTACATTGGCATTAGGCCATCTTTGGGATG
3910 3920 3930 3940 3950 3960 3970 3980
Ad5 GCCAGCAGGTTTCTGCCCTGAAGGCTTCCTCCCCTCCCAATGCGGTTTAAAACATAAATAAAAAACCAGACTCTGTTTGGATT
Ad2 GCCAGCAGGTTTCTGCCCTGAAGGCTTCCTCCCCTCCCAATGCGGTTTAAAACATAAATAAAAA.CCAGACTCTGTTTGGATT
Ad17 ....
Ad40 TTTTTAGGTTGGCAATGTTGCCACCGAGATCACGTCTGGGGTTCATGTTGTGCAGAACCACTAGCACGGTATAGCCGGTGCAC
Ad12 AAGGTAGGACCATTGAAGGGCTTCATGTTCCGGGTTAGTGTTGTAGATAATCCAGTCATAGCAACAACGCTGGGCATGGTGAT
3990 4000 4010 4020 4030 4040 4050 4060
Ad5 TGGATCAAGCAAGTGTCTTGCTGTCTTTATTTAGGGGTTTTGCGCGCGCGGTAGGCCCGGGACCAGCGGTCTCGGTCGTTGAG
Ad2 TTGATCAAGCAAGTGTCTTGCTGTCTTTATTTAGGGGTTTTGCGCGCGCGGTAGGCCCGGGACCAGCGGTCTCGGTCGTTGAG
Ad17 ....
Ad40 TTGGGGAATTTGTCATGCAACTTGGAAGGGAAGGCGTGGAAAAACTTGGAAACCCCTTTGTGCCCTCCCAAATTTTCCATGCA
Ad12 TAAATATATCTTTTAACAACAAGCTAATTGCTAATGGAAGACCTTTAGTATAGGTATTGATAAAACGGTTAAGCTGGGTGGGA
4070 4080 4090 4100 4110 4120 4130 4140 4150
Ad5 GGTCCTGTGTATTTTTTCCAGGACGTGGTAAAGGTGACTCTGGATGTTCAGATACATGGGCATAAGCCCGTCTCTGGGGTGGA
Ad2 GGTCCTGTGTATTTTTTCCAGGACGTGGTAAAGGTGACTCTGGATGTTCAGATACATGGGCATAAGCCCGTCTCTGGGGTGGA
Ad17 ....
Ad40 CTCATCCATAATGATGGCGATGGGGCCTTGGGATGCAGCCTTAGCAAAAATGTTATCGGGGTGGGAAACATCGTAGTTTTGCT
Ad12 TGCATCCGAGGTGACATGATATGAAGTTTTGATTGTATTTTGAGATTGGCAATGTTACCTGCCAAATCTCTTCTTGGATTCAT
4160 4170 4180 4190 4200 4210 4220 4230

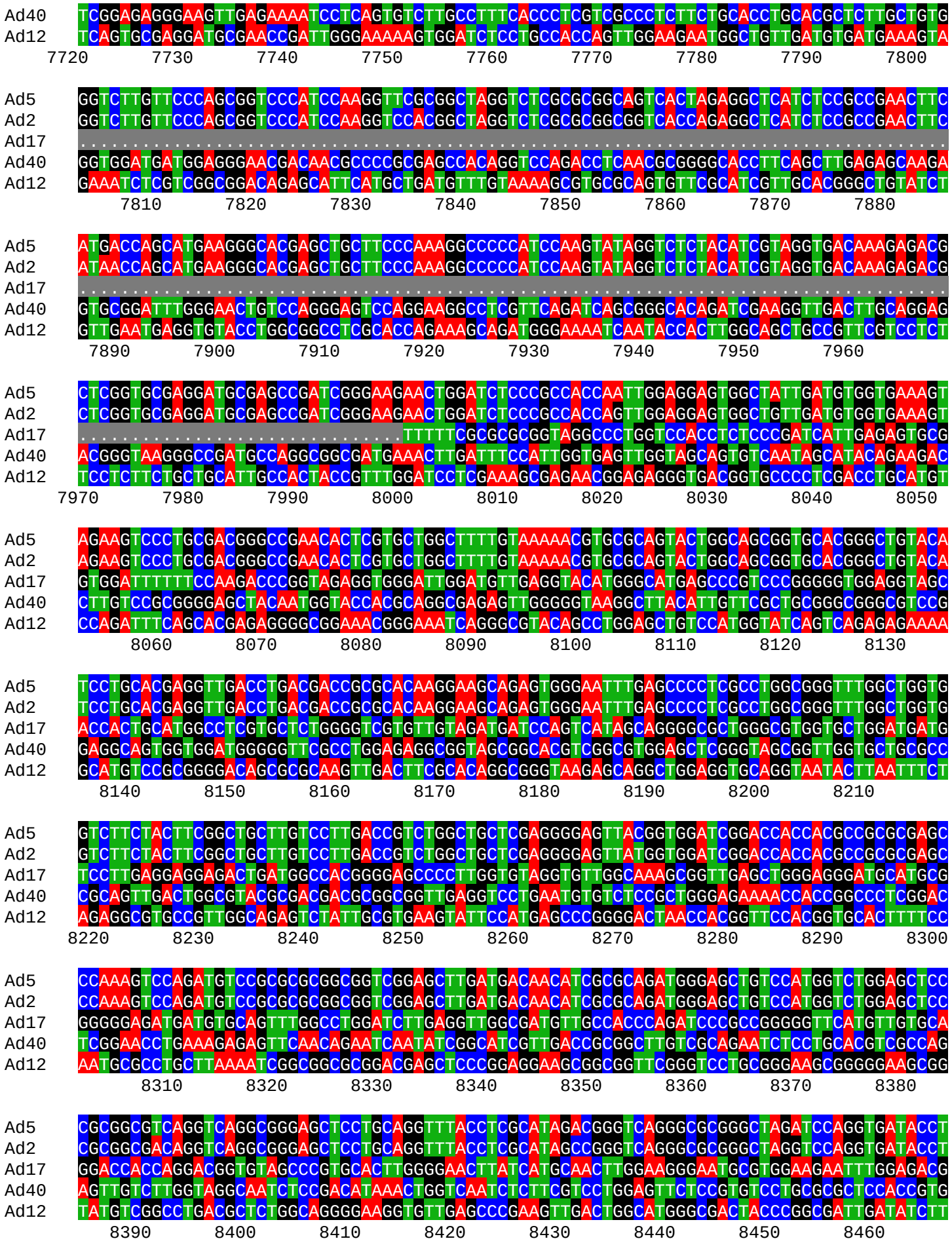

Ad5
Ad2
Ad17
Ad40
Ad12
4240 4250 4260 4270 4280 4290 4300 4310
4320 4330 4340 4350 4360 4370 4380 4390
4400 4410 4420 4430 4440 4450 4460 4470 4480
4490 4500 4510 4520 4530 4540 4550 4560
4570 4580 4590 4600 4610 4620 4630 4640
4650 4660 4670 4680 4690 4700 4710 4720 4730
4740 4750 4760 4770 4780 4790 4800 4810
4820 4830 4840 4850 4860 4870 4880 4890
4900 4910 4920 4930 4940 4950 4960 4970 4980

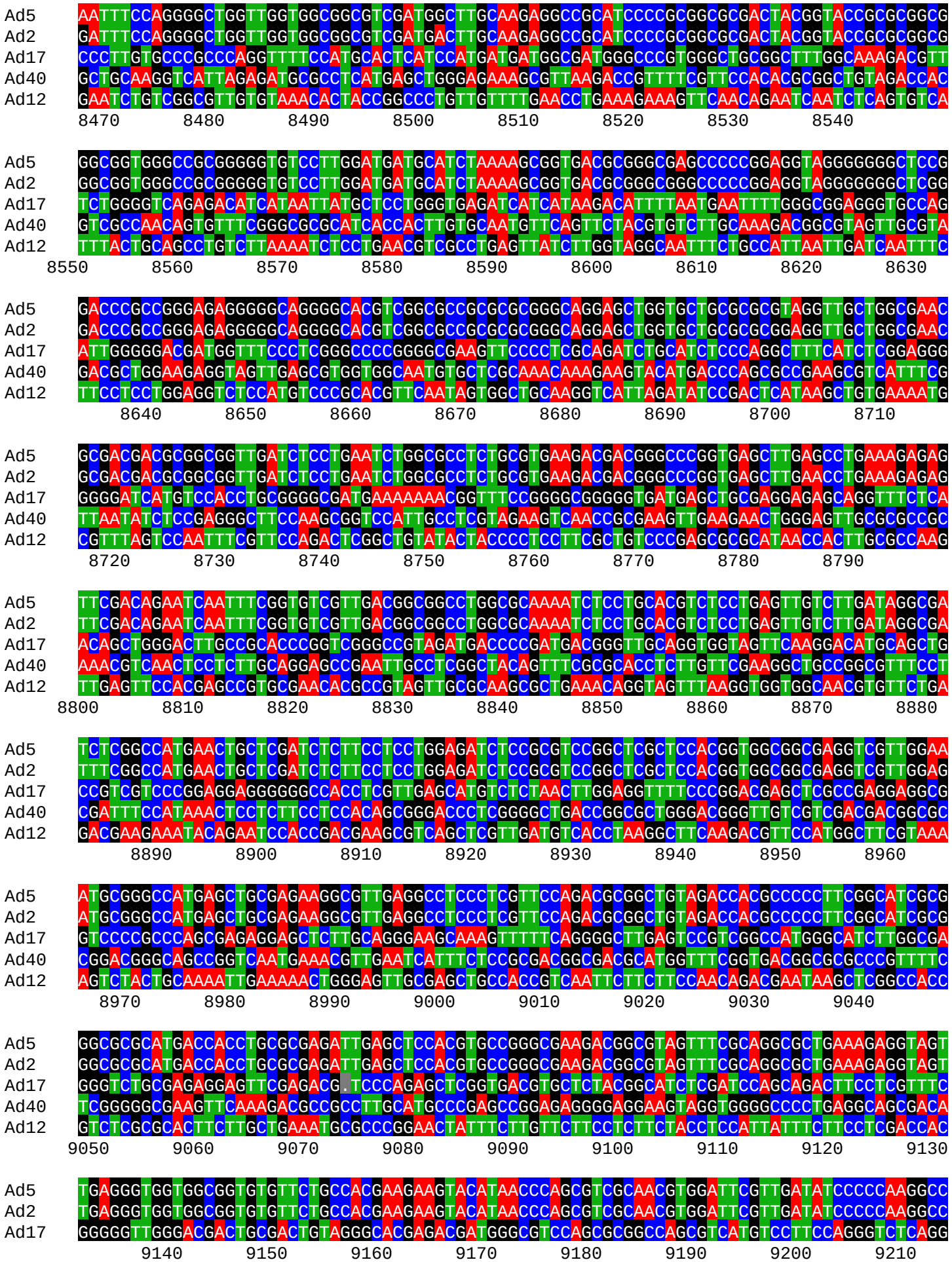

Ad40 AAGGGGCGCGCTCCGGGTTGGGCGCTTGCCAGGGTTCTCTTCAGGCTCATCCTGCTGGTGTGAAAACGCGCGTCTTCGCCCTG
Ad12 TGGTCCAGGGTTTGCTTCAGCAGTTGCAAGCGATCCCATAGCTCAGTTATATTTTCTATGCCATCTCGATCCAGCAAACTTCC
4900 4910 4920 4930 4940 4950 4960 4970 4980
Ad5 AGCTGCCGTCATCCCTGAGCAGGGGGGCCACTTCGTTAAGCATGTCCCTGACTCGCATGTTTTCCCTGACCAAATCCGCCAGA
Ad2 AGCTGCCGTCATCCCTGAGCAGGGGGGCCACTTCGTTAAGCATGTCCCTGACTTGCATGTTTTCCCTGACCAAATGCGCCAGA
Ad17 ....
Ad40 AAAGTCGGCCAAGTAGCATTTTAACATGAGATCATAGTTGAGGGTTTCGGCAGCGTGTCCTTTGGCGCGAAGCTTGCCCTTGG
Ad12 TCGTTGCGGGGGTTTGGCTGGCTGTTGCTGTAAGGAACGAGGCGGTGAGCATCCAAATGGACGAGGGTTTTGTCCTTCCAGGG
4990 5000 5010 5020 5030 5040 5050 5060
Ad5 AGGCGCTCGCCGCCCAGCGATAGCAGTTCTTGCAAGGAAGCAAAGTTTTTCAACGGTTTGAGACCGTCCGCCGTAGGCATGCT
Ad2 AGGCGCTCGCCGCCCAGCGATAGCAGTTCTTGCAAGGAAGCAAAGTTTTTCAACGGTTTGAGGCCGTCCGCCGTAGGCATGCT
Ad17 ....
Ad40 AAATTTGCTGACAGCTGGGACAGCGGAGGCATTTTAGGGCGTAGAGTTTGGGAGCCAGGAAGACGGACTCTGGTGAATAAGCG
Ad12 ACGTAATGTGCGCGTCAGGGTTGTTTCGGTCACGGTGAATGGATGCGCTCCTGGTTGAGCGCTGGCCAGTGTGCGCTTTAAAC
5070 5080 5090 5100 5110 5120 5130 5140
Ad5 TTTGAGCGTTTGACCAAGCAGTTCCAGGCGGTCCCACAGCTCGGTCACCTGCTCTACGGCATCTCGATCCAGCATATCTCCTC
Ad2 TTTGAGCGTTTGACCAAGCAGTTCCAGGCGGTCCCACAGCTCGGTCACGTGCTCTACGGCATCTCGATCCAGCATATCTCCTC
Ad17 ....
Ad40 TCGGCGCCACACTGTGCACACACGGTTTCGCACTCCACTAACCAGGCGAGCTCAGGGTGTTTTGGGTCAAAAACCAGATTGCC
Ad12 TGAGGCGGCTGGTGCTGAAGCGCGTGTCTTCTCCCTGTGCTTCGGCAAGGTAGCATTTTAACATAAGATCATAAGACAAAGCC
5150 5160 5170 5180 5190 5200 5210 5220
Ad5 GTTTCGCGGGTTGGGGCGGCTTTCGCTGTACGGCAGTAGTCGGTGCTCGTCCAGACGGGCCAGGGTCATGTCTTTCCACGGGC
Ad2 GTTTCGCGGGTTGGGGCGGCTTTCGCTGTACGGCAGTAGTCGGTGCTCGTCCAGACGGGCCAGGGTCATGTCTTTCCACGGGC
Ad17 ....
Ad40 TCCGTGTTTTTTGATGCGTTTCTTACCTCGTGTTTCCATGAGGCGGTATCCGGCTTCGGTGACAAACAAGCTGTCTGTGTCTC
Ad12 TCTGTAGCGTGGCCTTTAGCCCGTATTTTTCCTTTGGAGGTGCTCCCGCAGTGAGGACACTGAAGGCATTTAAGGGCGTACAG
5230 5240 5250 5260 5270 5280 5290 5300 5310
Ad5 GCAGGGTCCTCGTCAGCGTAGTCTGGGTCACGGTGAAGGGGTGCGCTCCGGGCTGCGCGCTGGCCAGGGTGCGCTTGAGGCTG
Ad2 GCAGGGTCCTCGTCAGCGTAGTCTGGGTCACGGTGAAGGGGTGCGCTCCGGGCTGCGCGCTGGCCAGGGTGCGCTTGAGGCTG
Ad17 ....
Ad40 CGTAAACTGATTTGAGGGTACGCTGTTCCAACGGTGTGCCTCTGTCCTCTGCGTACAAGATCTCGGACCATTCTGAGACAAAA
Ad12 TTTTGGAGCCAAAAAAACAGATTCTGGAGAATAAGCATCTGCGCCACAATAACTACAAACAGTTTCACATTCAACTGACCAGG
5320 5330 5340 5350 5360 5370 5380 5390
Ad5 GTCCTGCTGGTGCTGAAGCGCTGCCGGTCTTCGCCCTGCGCGTCGGCCAGGTAGCATTTGACCATGGTGTCATAGTCCAGCCC
Ad2 GTCCTGCTGGTGCTGAAGCGCTGCCGGTCTTCGCCCTGCGCGTCGGCCAGGTAGCATTTGACCATGGTGTCATAGTCCAGCCC
Ad17 ....
Ad40 GCCCGGGTCCAGGCTAAAACAAAGGAGGCGATTTGGGAGGGATAACGGTTGTTTTCCACCAGGGGGTCGACCTTTTCTAGGGT
Ad12 TCAGCTCAGGACATGATGGATCAAAAACAAGTTTCCCTCCGTACTTTTTGATGCGTTTCTTACCTTGCGACTCCATAAGGCGG
5400 5410 5420 5430 5440 5450 5460 5470
Ad5 CTCCGCGGCGTGGCCCTTGGCGCGCAGCTTGCCCTTGGAGGAGGCGCCGCACGAGGGGCAGTGCAGACTTTTGAGGGCGTAGA
Ad2 CTCCGCGGCGTGGCCCTTGGCGCGCAGCTTGCCCTTGGAGGAGGCGCCGCACGAGGGGCAGTGCAGACTTTTAAGGGCGTAGA
Ad17 ....
Ad40 GTGAAGGCAAAGGTCATCTTCTTCTGCATCCATAAAGGTAATTGGTTTGTAAGTGTAGGTCACGTGGTCATTGGGCTTGTGCG
Ad12 CGTCCTTTCTCTGTGACAAAAAGACTGTCAGTGTCTCCGTATACAGATTTAAGGGGTCTATCCTTCAGTGGTATTCCGCGGTC
5480 5490 5500 5510 5520 5530 5540 5550 5560
Ad5 GCTTGGGCGCGAGAAATACCGATTCCGGGGAGTAGGCATCCGCGCCGCAGGCCCCGCAGACGGTCTCGCATTCCACGAGCCAG
Ad2 GCTTGGGCGCGAGAAATACCGATTCCGGGGAGTAGGCATCCGCGCCGCAGGCCCCGCAGACGGTCTCGCATTCCACGAGCCAG
Ad17 ....
Ad40 TGGGTGTATAAAAGGGGGCGTGTCCGGGCTCTTCATCACTTTCTTCCGCATCGCTGTGGACGACAGCCAGCTGTTCGGGTGAG
Ad12 CTCCTCGTACAGGAATTCTGACCACTCTGACACAAAAGCTCTAGTCCAAGCAAGTACAAAGGAAGCCACATGGGAAGGGTACC
5570 5580 5590 5600 5610 5620 5630 5640

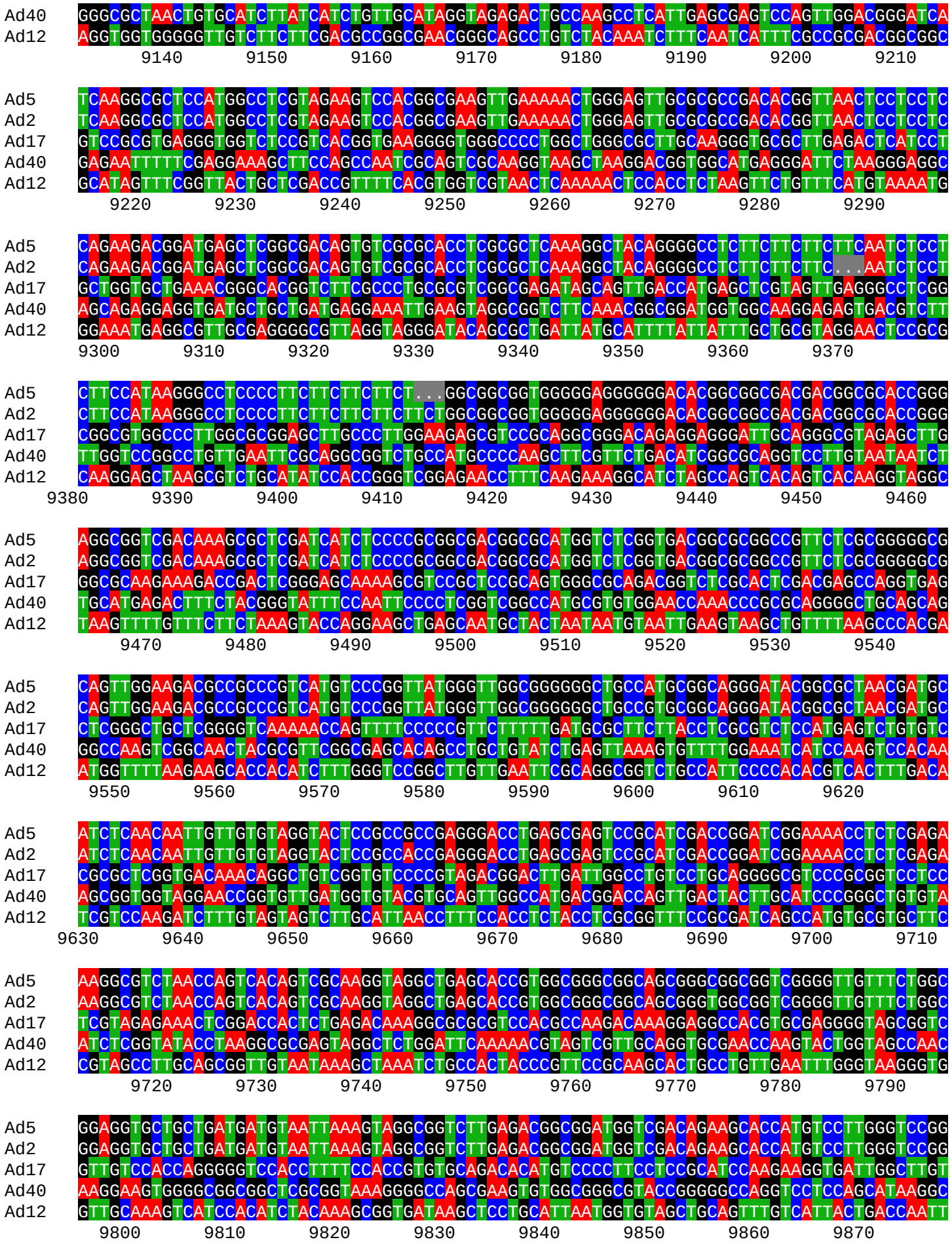

Ad5
Ad2
Ad17
Ad40
Ad12
5650 5660 5670 5680 5690 5700 5710 5720
5730 5740 5750 5760 5770 5780 5790 5800 5810
5820 5830 5840 5850 5860 5870 5880 5890
5900 5910 5920 5930 5940 5950 5960 5970
5980 5990 6000 6010 6020 6030 6040 6050
6060 6070 6080 6090 6100 6110 6120 6130 6140
6150 6160 6170 6180 6190 6200 6210 6220
6230 6240 6250 6260 6270 6280 6290 6300
6310 6320 6330 6340 6350 6360 6370 6380 6390

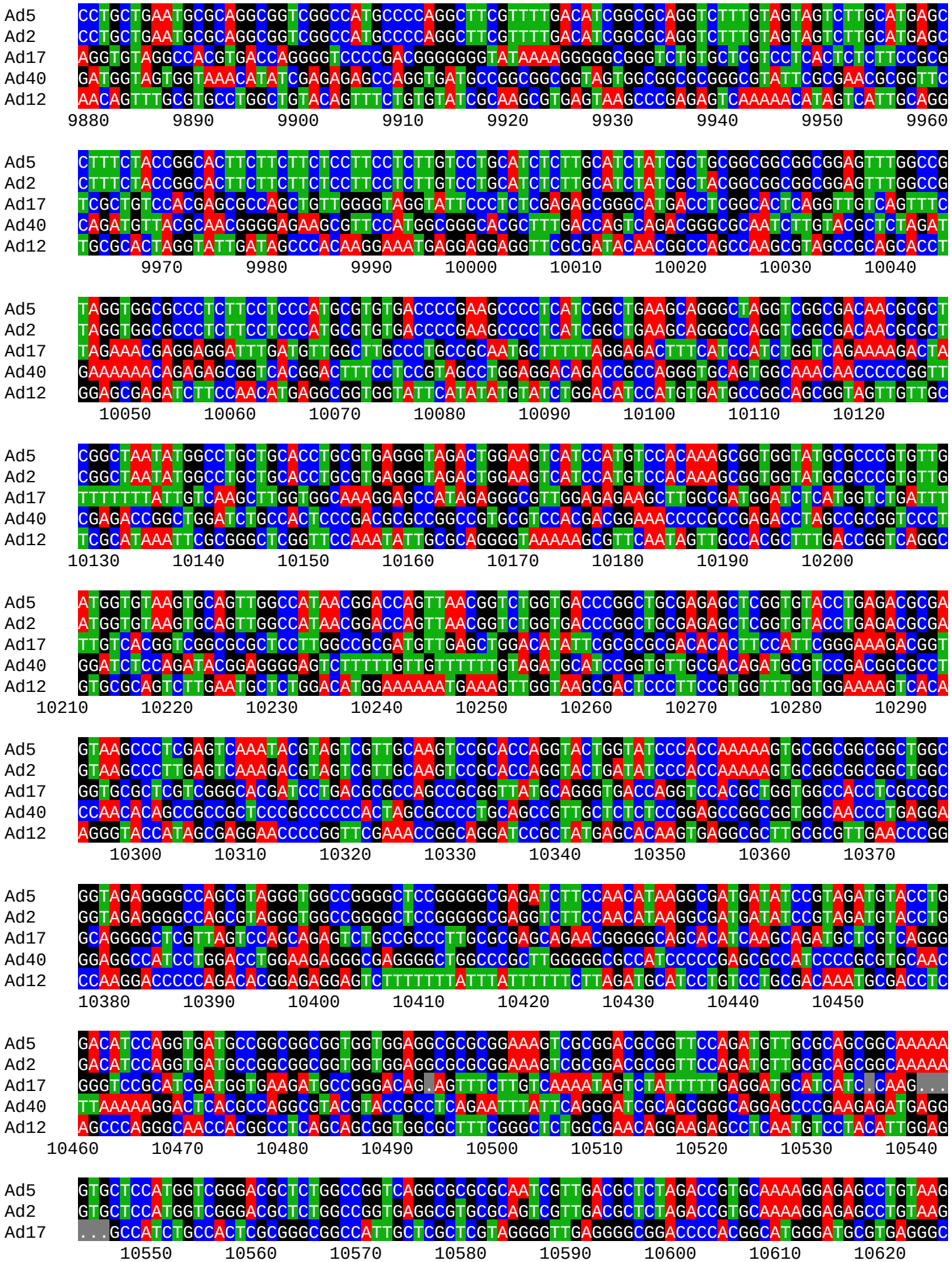

Ad40 CGCGTAGCACCCCAATGTAAGTTGGATAACAGCGTCCTCCGCGAATGCTAGCCCGAACATAGTCATACATTTCGTGGGAAGGG
Ad12 TGGGGGGTCGGCATCTATAGTAAAAATGCCAGGACAAAGATTTTTGTCAAAATAATCAATTTTGCAAGTGTAATTTTCCAGCG
6310 6320 6330 6340 6350 6360 6370 6380 6390
Ad5 ACGGTGGTGCGCTCGTCGGGCACCAGGTGCACGCGCCAACCGCGGTTGTGCAGGGTGACAAGGTCAACGCTGGTGGCTACCTC
Ad2 ACGGTGGTGCGCTCGTCGGGCACCAGGTGCACGCGCCAACCGCGGTTGTGCAGGGTGACAAGGTCAACGCTGGTGGCTACCTC
Ad17 ....
Ad40 GCCAGCAAGCTGCCGCCTAGGTCCGACCGCTGGGGTTTTACTGTCCGGTACAAGATTTGACGAAAGATGGCGTGGGAGTTGGA
Ad12 CCACCTGCCATTGCCGCACGGCCAATGCCCGCTCATAGGGGTTAAGGGGAGGACCCCAAGGCATGGGGTGTGTGAGGGCCGAT
6400 6410 6420 6430 6440 6450 6460 6470
Ad5 TCCGCGTAGGCGCTCGTTGGTCCAGCAGAGGCGGCCGCCCTTGCGCGAGCAGAATGGCGGTAGGGGGTCTAGCTGCGTCTCGT
Ad2 TCCGCGTAGGCGCTCGTTGGTCCAGCAGAGGCGGCCGCCCTTGCGCGAACAGAATGGCGGTAGTGGGTCTAGCTGCGTCTCGT
Ad17 ....
Ad40 GGAGATGGTGGGCCGCTGAAAGACGTTAAAGCTGGCTTCGGGTAGACCTACCGCGTCGCGGATAAACTGAGCGTAGGATTCGC
Ad12 GCATACATGCCGCAAATATCATATACATATATGGGCTCTTTTAGTACTCCTATGTAAGTAGGATAGCACCTGCCGCCACGAAT
6480 6490 6500 6510 6520 6530 6540 6550
Ad5 CCGGGGGGTCTGCGTCCACGGTAAAGACCCCGGGCAGCAGGCGCGCGTCGAAGTAGTCTATCTTGCATCCTTGCAAGTCTAGC
Ad2 CCGGGGGGTCTGCGTCCACGGTAAAGACCCCGGGCAGCAGGCGCGCGTCGAAGTAGTCTATCTTGCATCCTTGCAAGTCTAGC
Ad17 ....
Ad40 GCAACTTTTGCACCAGGGCGGCGGTAACAAGCACATCCAGGGCACAGTAATCAAGGGTTTCACGCACCAGGTCGTAATGAGGA
Ad12 GCTGGCGCGAACGTAGTCATATAGCTCATGTGAAGGCGCCAGGATGTTGGGCCCAAGATGTGTGCGCTGTGGTTTTTCGGCGC
6560 6570 6580 6590 6600 6610 6620 6630 6640
Ad5 GCCTGCTGCCATGCGCGGGCGGCAAGCGCGCGCTCGTATGGGTTGAGTGGGGGACCCCATGGCATGGGGTGGGTGAGCGCGGA
Ad2 GCCTGCTGCCATGCGCGGGCGGCAAGCGCGCGCTCGTATGGGTTGAGTGGGGGACCCCATGGCATGGGGTGGGTGAGCGCGGA
Ad17 ....
Ad40 CATTGCTTTTTTTCCCAGAGTTCGCGGTTCAGGAGGTACTCCTCGCGATCCTTCCAGTAATCTTCGGCAGGAAAGCCACGCTC
Ad12 GGTACAAAATTTGTCTGAAAATTGCATGAGAGTTAGAGGAAATGGTAGGACGCTGAAACACATTAAAATGTGCCGCGTCAAGA
6650 6660 6670 6680 6690 6700 6710 6720
Ad5 GGCGTACATGCCGCAAATGTCGTAAACGTAGAGGGGCTCTCTGAGTATTCCAAGATATGTAGGGTAGCATCTTCCACCGCGGA
Ad2 GGCGTACATGCCGCAAATGTCGTAAACGTAGAGGGGCTCTCTGAGTATTCCAAGATATGTAGGGTAGCATCTTCCACCGCGGA
Ad17 ....
Ad40 GTCTGCGCGGTAAGAACCCAGCATGTAAAACTCGTTTACGGCCTTGTATGGGCAGCATCCTTTTTCTACCGGAAGGGTATAGG
Ad12 CCCACTGCGTCAGTAACAAACTGGGCGTATGAGCTACGCAGTTTTTCTACCAATGAGGCAGTCACAAGTACATCCAGGGCACA
6730 6740 6750 6760 6770 6780 6790 6800
Ad5 TGCTGGCGCGCACGTAATCGTATAGTTCGTGCGAGGGAGCGAGGAGGTCGGGACCGAGGTTGCTACGGGCGGGCTGCTCTGCT
Ad2 TGCTGGCGCGCACGTAATCGTATAGTTCGTGCGAGGGAGCGAGGAGGTCGGGACCGAGGTTGCTACGGGCGGGCTGCTCTGCT
Ad17 ....
Ad40 CTTGTGCGGCTTTTCGCAGAGACGTGTGTGTGAGGGCAAAAGTGTCGCGCACCATAACCTTGAGGAATTGATACTTAAAATCA
Ad12 ATAGTTTAATGTTTCCCCGATAAGATTGTAATTTTTTTCTCCTTTTTTTTTCCATAGTTCTTGATTTAGGAGGTATTCCTCCT
6810 6820 6830 6840 6850 6860 6870 6880
Ad5 CGGAAGACTATCTGCCTGAAGATGGCATGTGAGTTGGATGATATGGTTGGACGCTGGAAGACGTTGAAGCTGGCGTCTGTGAG
Ad2 CGGAAGACTATCTGCCTGAAGATGGCATGTGAGTTGGATGATATGGTTGGACGCTGGAAGACGTTGAAGCTGGCGTCTGTGAG
Ad17 ....
Ad40 GAGTCGTCGCAGGCGCCCTGCTCCCATAGGCGATAGTCGGTGCGTTTTTTTGAGCTTGGATTAGGAAGGGCAAAGGTGATATC
Ad12 TATCCTTCCAGTACTCCTCCAGGGGAAACCCATTTGCATCTGCACGGTAAGAACCAAGCATATAAAACTGATTTACCGCCTTG
6890 6900 6910 6920 6930 6940 6950 6960 6970
Ad5 ACCTACCGCGTCACGCACGAAGGAGGCGTAGGAGTCGCGCAGCTTGTTGACCAGCTCGGCGGTGACCTGCACGTCTAGGGCGC
Ad2 ACCTACCGCGTCACGCACGAAGGAGGCGTAGGAGTCGCGCAGCTTGTTGACCAGCTCGGCGGTGACCTGCACGTCTAGGGCGC
Ad17 ....
Ad40 ATTAAAAAGGATTTTGCCGGCTCTAGGCATAAAGTTGCGGGTGATTTTGAAAGGCCCGGGCACATCAGAACGGTTGTTAATAA
Ad12 TACGGACAACATCCTTTTTCTACAGGCAGGGCATACGCTTGTGCAGCCTTTCTTAAAGATGTATGAGTAAGAGCAAAGGTATC
6980 6990 7000 7010 7020 7030 7040 7050

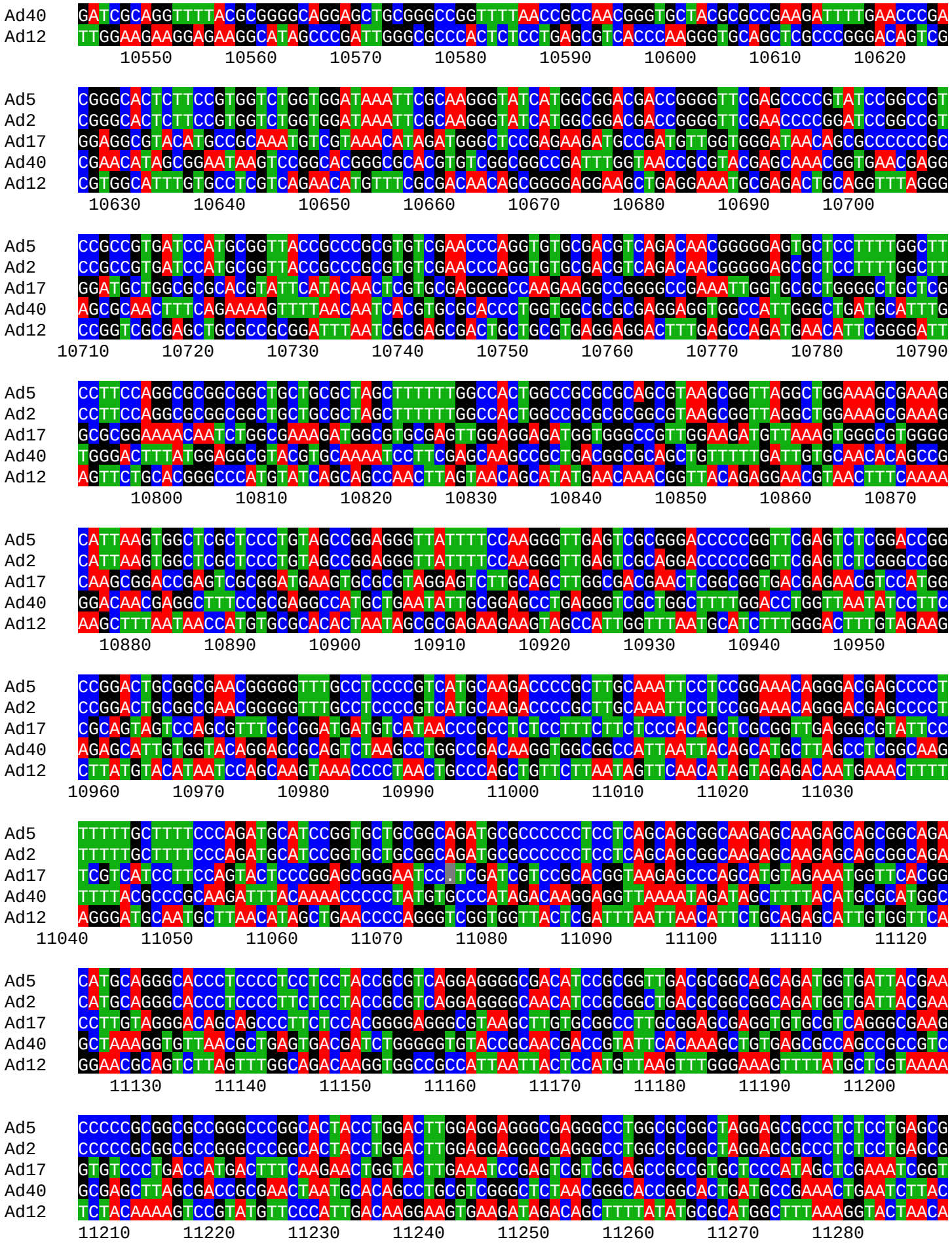

Ad5
Ad2
Ad17
Ad40
Ad12
7060 7070 7080 7090 7100 7110 7120 7130
7140 7150 7160 7170 7180 7190 7200 7210 7220
7230 7240 7250 7260 7270 7280 7290 7300
7310 7320 7330 7340 7350 7360 7370 7380
7390 7400 7410 7420 7430 7440 7450 7460 7470
7480 7490 7500 7510 7520 7530 7540 7550
7560 7570 7580 7590 7600 7610 7620 7630
7640 7650 7660 7670 7680 7690 7700 7710
7720 7730 7740 7750 7760 7770 7780 7790 7800

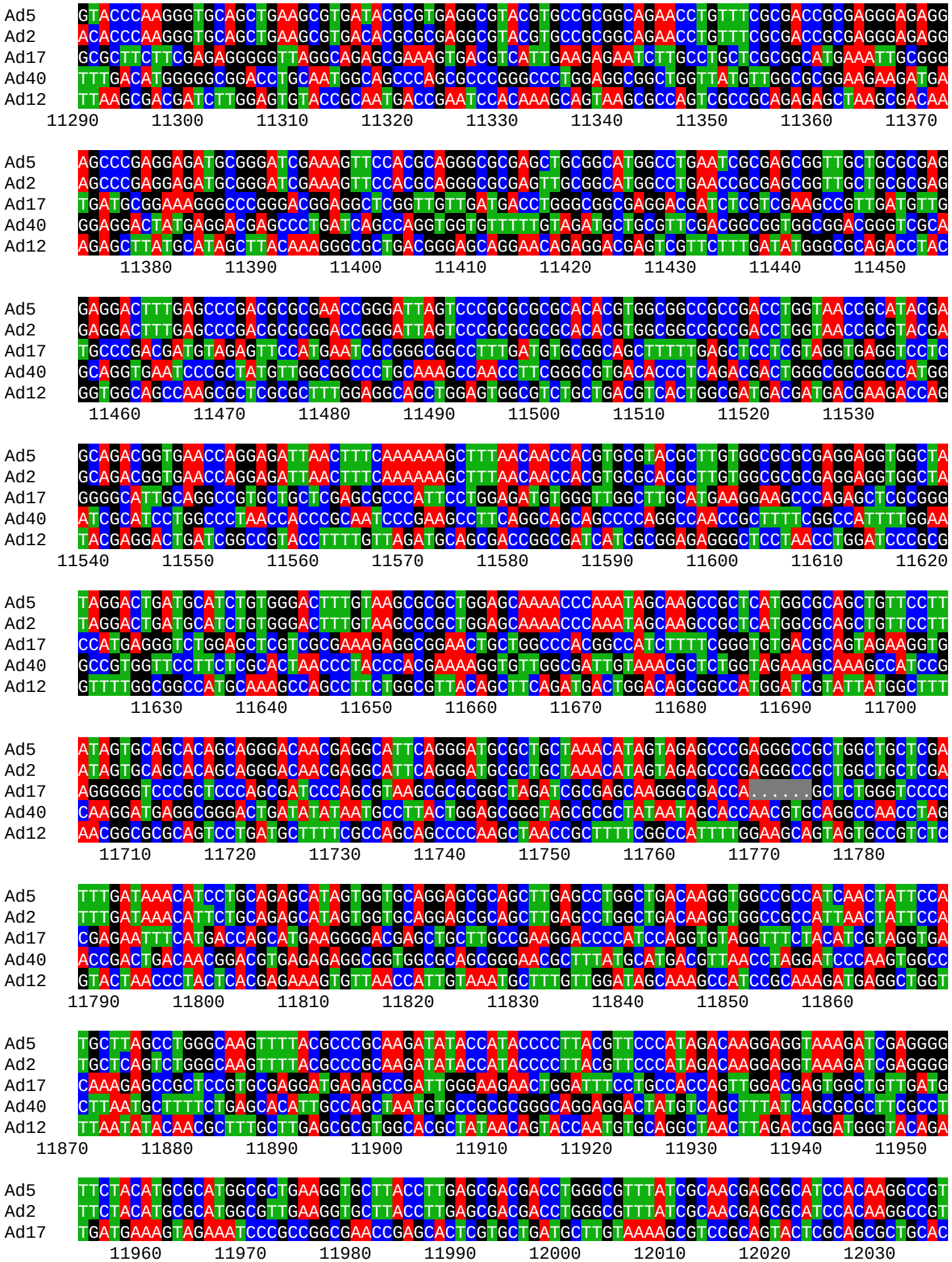

Ad40 TCGGAGAGGGAAGTTGAGAAAATCCTCAGTGTCTTGCCTTTCACCCTCGTCGCCCTCTTCTGCACCTGCACGCTCTTGCTGTG
Ad12 TCAGTGCGAGGATGCGAACCGATTGGGAAAAAGTGGATCTCCTGCCACCAGTTGGAAGAATGGCTGTTGATGTGATGAAAGTA
7720 7730 7740 7750 7760 7770 7780 7790 7800
Ad5 GGTCTTGTTCCCAGCGGTCCCATCCAAGGTTCGCGGCTAGGTCTCGCGCGGCAGTCACTAGAGGCTCATCTCCGCCGAACTTC
Ad2 GGTCTTGTTCCCAGCGGTCCCATCCAAGGTCCACGGCTAGGTCTCGCGCGGCGGTCACCAGAGGCTCATCTCCGCCGAACTTC
Ad17 ....
Ad40 GGTGGATGATGGAGGGAACGACAACGCCCCGCGAGCCACAGGTCCAGACCTCAACGCGGGGCACCTTCAGCTTGAGAGCAAGA
Ad12 GAAATCTCGTCGGCGGACAGAGCATTCATGCTGATGTTTGTAAAAGCGTGCGCAGTGTTCGCATCGTTGCACGGGCTGTATCT
7810 7820 7830 7840 7850 7860 7870 7880
Ad5 ATGACCAGCATGAAGGGCACGAGCTGCTTCCCAAAGGCCCCCATCCAAGTATAGGTCTCTACATCGTAGGTGACAAAGAGACG
Ad2 ATAACCAGCATGAAGGGCACGAGCTGCTTCCCAAAGGCCCCCATCCAAGTATAGGTCTCTACATCGTAGGTGACAAAGAGACG
Ad17 ....
Ad40 GTGCGGATTTGGGAACTGTCCAGGGAGTCCAGGAAGGCCTCGTTCAGATCAGCGGGCACAGATCGAAGGTTGACTTGCAGGAG
Ad12 GTTGAATGAGGTGTACCTGGCGGCCTCGCACCAGAAAGCAGATGGGAAAATCAATACCACTTGGCAGCTGCCGTTCGTCCTCT
7890 7900 7910 7920 7930 7940 7950 7960
Ad5 CTCGGTGCGAGGATGCGAGCCGATCGGGAAGAACTGGATCTCCCGCCACCAATTGGAGGAGTGGCTATTGATGTGGTGAAAGT
Ad2 CTCGGTGCGAGGATGCGAGCCGATCGGGAAGAACTGGATCTCCCGCCACCAGTTGGAGGAGTGGCTGTTGATGTGGTGAAAGT
Ad17 ..........................TTTTTCGCGCGCGGTAGGCCCTGGTCCACCTCTCCCGATCATTGAGAGTGCG
Ad40 ACGGGTAAGGGCCGATGCCAGGCGGCGATGAAACTTGATTTCCATTGGTGAGTTGGTAGCAGTGTCAATAGCATACAGAAGAC
Ad12 TCCTCTTCTGCTGCATTGCCACTACCGTTTGGATCCTCGAAAGCGAGAACGGAGAGGGTGACGGTGCCCCTCGACCTGCATGT
7970 7980 7990 8000 8010 8020 8030 8040 8050
Ad5 AGAAGTCCCTGCGACGGGCCGAACACTCGTGCTGGCTTTTGTAAAAACGTGCGCAGTACTGGCAGCGGTGCACGGGCTGTACA
Ad2 AGAAGTCCCTGCGACGGGCCGAACACTCGTGCTGGCTTTTGTAAAAACGTGCGCAGTACTGGCAGCGGTGCACGGGCTGTACA
Ad17 GTGGATTTTTTCCAAGACCCGGTAGAGGTGGGATTGGATGTTGAGGTACATGGGCATGAGCCCGTCCCGGGGGTGGAGGTAGC
Ad40 CTTGTCCGCGGGGAGCTACAATGGTACCACGCAGGCGAGAGTTGGGGGTAAGGCTTACATTGTTCGCTGCGGGCGGGCGTCCG
Ad12 CCAGATTTCAGCACGAGAGGGCGGAAACGGGAAATCAGGGCGTACAGCCTGGAGCTGTCCATGGTATCAGTCAGAGAGAAAA
8060 8070 8080 8090 8100 8110 8120 8130
Ad5 TCCTGCACGAGGTTGACCTGACGACCGCGCACAAGGAAGCAGAGTGGGAATTTGAGCCCCTCGCCTGGCGGGTTTGGCTGGTG
Ad2 TCCTGCACGAGGTTGACCTGACGACCGCGCACAAGGAAGCAGAGTGGGAATTTGAGCCCCTCGCCTGGCGGGTTTGGCTGGTG
Ad17 ACCACTGCATGGCCTCGTGCTCTGGGGTCGTGTTGTAGATGATCCAGTCATAGCAGGGGCGCTGGGCGTGGTGCTGGATGATG
Ad40 GAGGCAGTGGTGGATGGGGGTTCGCCTGGAGAGGCGGTAGCGGCACGTCGGCGTGGAGCTCGGGTAGCGGTTGGTGCTGCGCC
Ad12 GCATGTCCGCGGGGACAGCGCGCAAGTTGACTTCGCACAGGCGGGTAAGAGCAGGCTGGAGGTGCAGGTAATACTTAATTTCT
8140 8150 8160 8170 8180 8190 8200 8210
Ad5 GTCTTCTACTTCGGCTGCTTGTCCTTGACCGTCTGGCTGCTCGAGGGGAGTTACGGTGGATCGGACCACCACGCCGCGCGAGC
Ad2 GTCTTCTACTTCGGCTGCTTGTCCTTGACCGTCTGGCTGCTCGAGGGGAGTTATGGTGGATCGGACCACCACGCCGCGCGAGC
Ad17 TCCTTGAGGAGGAGACTGATGGCCACGGGGAGCCCCTTGGTGTAGGTGTTGGCAAAGCGGTTGAGCTGGGAGGGATGCATGCG
Ad40 CGCAGTTGACTGGCGTACGCGACGACGCGGCGGTTGAGGTCCTGAATGTGTCTCCGCTGGGAGAAAACCACCGGCCCTCGGAC
Ad12 AGAGGCGTGCCGTTGGCAGAGTCTATTGCGTGAAGTATTCCATGAGCCCGGGGACTAACCACGGTTCCACGGTGCACTTTTCC
8220 8230 8240 8250 8260 8270 8280 8290 8300
Ad5 CCAAAGTCCAGATGTCCGCGCGCGGCGGTCGGAGCTTGATGACAACATCGCGCAGATGGGAGCTGTCCATGGTCTGGAGCTCC
Ad2 CCAAAGTCCAGATGTCCGCGCGCGGCGGTCGGAGCTTGATGACAACATCGCGCAGATGGGAGCTGTCCATGGTCTGGAGCTCC
Ad17 GGGGGAGATGATGTGCAGTTTGGCCTGGATCTTGAGGTTGGCGATGTTGCCACCCAGATCCCGCCGGGGGTTCATGTTGTGCA
Ad40 TCGGAACCTGAAAGAGAGTTCAACAGAATCAATATCGGCATCGTTGACCGCGGCTTGTCGCAGAATCTCCTGCACGTCGCCAG
Ad12 AATGCGCCTGCTTAAAATCGGCGGCGCGGACGAGCTCCCGGAGGAAGCGGCGGTTCGGGTCCTGCGGGAAGCGGGGGAAGCGG
8310 8320 8330 8340 8350 8360 8370 8380
Ad5 CGCGGCGTCAGGTCAGGCGGGAGCTCCTGCAGGTTTACCTCGCATAGACGGGTCAGGGCGCGGGCTAGATCCAGGTGATACCT
Ad2 CGCGGCGACAGGTCAGGCGGGAGCTCCTGCAGGTTTACCTCGCATAGCCGGGTCAGGGCGCGGGCTAGGTCCAGGTGATACCT
Ad17 GGACCACCAGGACGGTGTAGCCCGTGCACTTGGGGAACTTATCATGCAACTTGGAAGGGAATGCGTGGAAGAATTTGGAGACG
Ad40 AGTTGTCTTGGTAGGCAATCTCCGACATAAACTGGTCAATCTCTTCGTCCTGGAGTTCTCCGTGTCCTGCGCGCTCCACCGTG
Ad12 TATGTCGGCCTGACGCTCTGGCAGGGGAAGGTGTTGAGCCCGAAGTTGACTGGCATGGGCGACTACCCGGCGATTGATATCTT
8390 8400 8410 8420 8430 8440 8450 8460

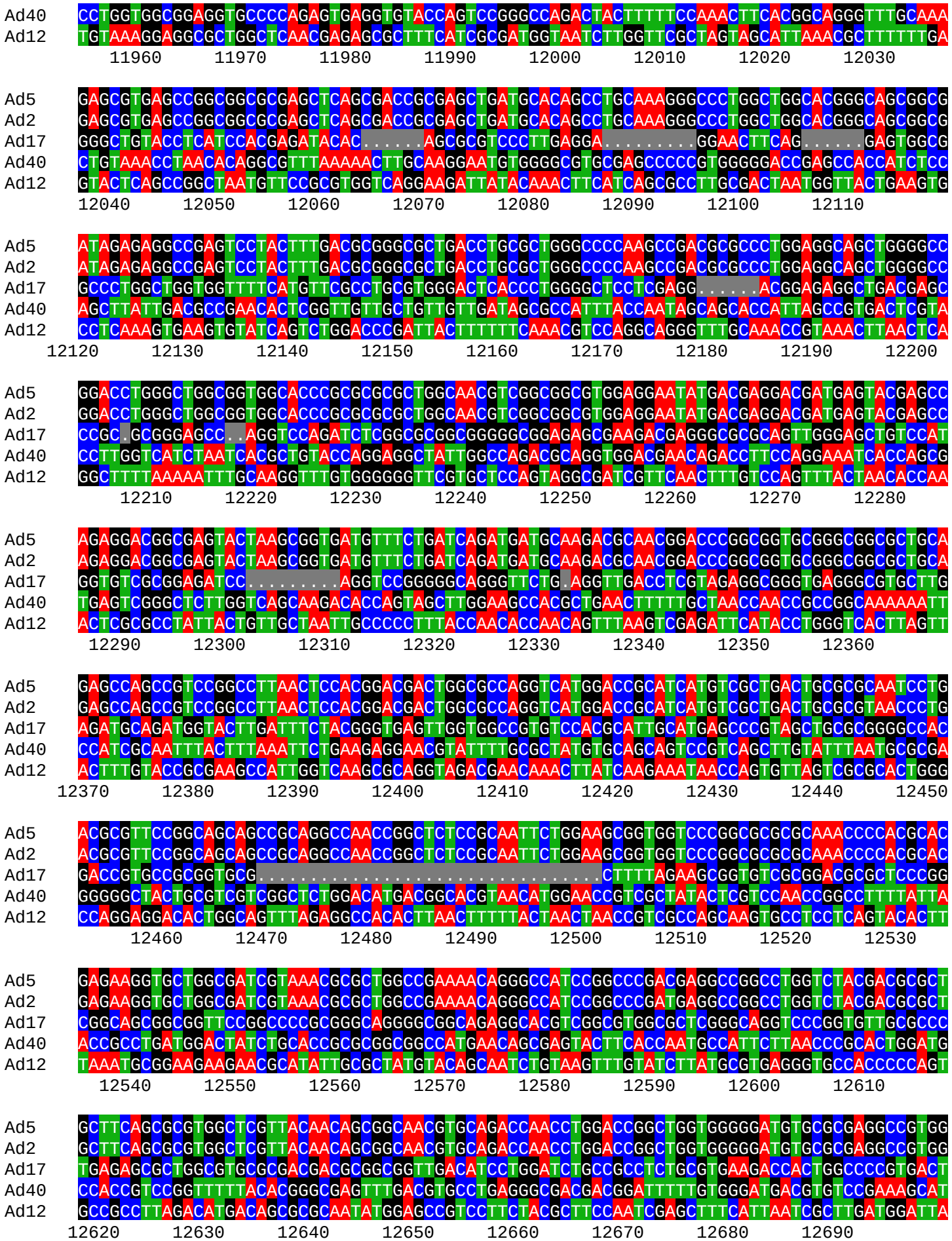

Ad5 AATTTCCAGGGGCTGGTTGGTGGCGGCGTCGATGGCTTGCAAGAGGCCGCATCCCCGCGGCGCGACTACGGTACCGCGCGGCG
Ad2 GATTTCCAGGGGCTGGTTGGTGGCGGCGTCGATGACTTGCAAGAGGCCGCATCCCCGCGGCGCGACTACGGTACCGCGCGGCG
Ad17 CCCTTGTGCCCGCCCAGGTTTTCCATGCACTCATCCATGATGATGGCGATGGGCCCGTGGGCTGCGGCTTTGGCAAAGACGTT
Ad40 GCTGCAAGGTCATTAGAGATGCGCCTCATGAGCTGGGAGAAAGCGTTAAGACCGTTTTCGTTCCACACGCGGCTGTAGACCAC
Ad12 GAATCTGTCGGCGTTGTGTAAACACTACCGGCCCTGTTGTTTTGAACCTGAAAGAAAGTTCAACAGAATCAATCTCAGTGTCA
8470 8480 8490 8500 8510 8520 8530 8540
Ad5 GGCGGTGGGCCGCGGGGGTGTCCTTGGATGATGCATCTAAAAGCGGTGACGCGGGCGAGCCCCCGGAGGTAGGGGGGGCTCCG
Ad2 GGCGGTGGGCCGCGGGGGTGTCCTTGGATGATGCATCTAAAAGCGGTGACGCGGGCGGGCCCCCGGAGGTAGGGGGGGCTCGG
Ad17 TCTGGGGTCAGAGACATCATAATTATGCTCCTGGGTGAGATCATCATAAGACATTTTAATGAATTTTGGGCGGAGGGTGCCAG
Ad40 GTCGCCAACAGTGTTTCGGGCGCGCATCACCACTTGTGCAATGTTCAGTTCTACGTGTCTTGCAAAGACGGCGTAGTTGCGTA
Ad12 TTTACTGCAGCCTGTCTTAAAATCTCCTGAACGTCGCCTGAGTTATCTTGGTAGGCAATTTCTGCCATTAATTGATCAATTTC
8550 8560 8570 8580 8590 8600 8610 8620 8630
Ad5 GACCCGCCGGGAGAGGGGGCAGGGGCACGTCGGCGCCGCGCGCGGGCAGGAGCTGGTGCTGCGCGCGTAGGTTGCTGGCGAAC
Ad2 GACCCGCCGGGAGAGGGGGCAGGGGCACGTCGGCGCCGCGCGCGGGCAGGAGCTGGTGCTGCGCGCGGAGGTTGCTGGCGAAC
Ad17 ATTGGGGGACGATGGTTTCCCTCGGGCCCCGGGGCGAAGTTCCCCTCGCAGATCTGCATCTCCCAGGCTTTCATCTCGGAGGG
Ad40 GACGCTGGAAGAGGTAGTTGAGCGTGGTGGCAATGTGCTCGCAAACAAAGAAGTACATGACCCAGCGCCGAAGCGTCATTTCG
Ad12 TTCCTCCTGGAGGTCTCCATGTCCCGCACGTTCAATAGTGGCTGCAAGGTCATTAGATATCCGACTCATAAGCTGTGAAAATG
8640 8650 8660 8670 8680 8690 8700 8710
Ad5 GCGACGACGCGGCGGTTGATCTCCTGAATCTGGCGCCTCTGCGTGAAGACGACGGGCCCGGTGAGCTTGAGCCTGAAAGAGAG
Ad2 GCGACGACGCGGCGGTTGATCTCCTGAATCTGGCGCCTCTGCGTGAAGACGACGGGCCCGGTGAGCTTGAACCTGAAAGAGAG
Ad17 GGGGATCATGTCCACCTGCGGGGCGATGAAAAAAACGGTTTCCGGGGCGGGGGTGATGAGCTGCGAGGAGAGCAGGTTTCTCA
Ad40 TTAATATCTCCGAGGGCTTCCAAGCGGTCCATTGCCTCGTAGAAGTCAACCGCGAAGTTGAAGAACTGGGAGTTGCGCGCCGC
Ad12 CGTTTAGTCCAATTTCGTTCCAGACTCGGCTGTATACTACCCCTCCTTCGCTGTCCCGAGCGCGCATAACCACTTGCGCCAAG
8720 8730 8740 8750 8760 8770 8780 8790
Ad5 TTCGACAGAATCAATTTCGGTGTCGTTGACGGCGGCCTGGCGCAAAATCTCCTGCACGTCTCCTGAGTTGTCTTGATAGGCGA
Ad2 TTCGACAGAATCAATTTCGGTGTCGTTGACGGCGGCCTGGCGCAAAATCTCCTGCACGTCTCCTGAGTTGTCTTGATAGGCGA
Ad17 ACAGCTGGGACTTGCCGCACCCGGTCGGGCCGTAGATGACCCCGATGACGGGTTGCAGGTGGTAGTTCAAGGACATGCAGCTG
Ad40 AAACGTCAACTCCTCTTGCAGGAGCCGAATTGCCTCGGCTACAGTTTCGCGCACCTCTTGTTCGAAGGCTGCCGGCGTTTCCT
Ad12 TTGAGTTCCACGAGCCGTGCGAACACGCCGTAGTTGCGCAAGCGCTGAAACAGGTAGTTTAAGGTGGTGGCAACGTGTTCTGA
8800 8810 8820 8830 8840 8850 8860 8870 8880
Ad5 TCTCGGCCATGAACTGCTCGATCTCTTCCTCCTGGAGATCTCCGCGTCCGGCTCGCTCCACGGTGGCGGCGAGGTCGTTGGAA
Ad2 TTTCGGCCATGAACTGCTCGATCTCTTCCTCCTGGAGATCTCCGCGTCCGGCTCGCTCCACGGTGGCGGCGAGGTCGTTGGAG
Ad17 CCGTCGTCCCGGAGGAGGGGGGCCACCTCGTTGAGCATGTCTCTAACTTGGAGGTTTTCCCGGACGAGCTCGCCGAGGAGGCG
Ad40 CGATTTCCATAAACTCCTCTTCCTCCACAGCGGGACCCTCGGGGCTGACCGGCGCTGGGACGGGTTGTCGTCGACGACGGCGC
Ad12 GACGAAGAAATACAGAATCCACCGACGAAGCGTCAGCTCGTTGATGTCACCTAAGGCTTCAAGACGTTCCATGGCTTCGTAAA
8890 8900 8910 8920 8930 8940 8950 8960
Ad5 ATGCGGGCCATGAGCTGCGAGAAGGCGTTGAGGCCTCCCTCGTTCCAGACGCGGCTGTAGACCACGCCCCCTTCGGCATCGCG
Ad2 ATGCGGGCCATGAGCTGCGAGAAGGCGTTGAGGCCTCCCTCGTTCCAGACGCGGCTGTAGACCACGCCCCCTTCGGCATCGCG
Ad17 GTCCCCGCCCAGCGAGAGGAGCTCTTGCAGGGAAGCAAAGTTTTTCAGGGGCTTGAGTCCGTCGGCCATGGGCATCTTGGCGA
Ad40 CGGACGGGCAGCCGGTCAATGAAACGTTGAATCATTTCTCCGCGACGGCGACGCATGGTTTCGGTGACGGCGCGCCCGTTTTC
Ad12 AGTCTACTGCAAAATTGAAAAACTGGGAGTTGCGAGCTGCCACCGTCAATTCTTCTTCCAACAGACGAATAAGCTCGGCCACC
8970 8980 8990 9000 9010 9020 9030 9040
Ad5 GGCGCGCATGACCACCTGCGCGAGATTGAGCTCCACGTGCCGGGCGAAGACGGCGTAGTTTCGCAGGCGCTGAAAGAGGTAGT
Ad2 GGCGCGCATGACCACCTGCGCGAGATTGAGCTCCACGTGCCGGGCGAAGACGGCGTAGTTTCGCAGGCGCTGAAAGAGGTAGT
Ad17 GGGTCTGCGAGAGGAGTTCGAGACG.TCCCAGAGCTCGGTGACGTGCTCTACGGCATCTCGATCCAGCAGACTTCCTCGTTTC
Ad40 TCGGGGGCGAAGTTCAAAGACGCCGCCTTGCATGCCCGAGCCGGAGAGGGGAGGAAGTAGGTGGGGCCCCTGAGGCAGCGACA
Ad12 GTCTCGCGCACTTCTTGCTGAAATGCGCCCGGAACTATTTCTTGTTCTTCCTCTTCTACCTCCATTATTTCTTCCTCGACCAC
9050 9060 9070 9080 9090 9100 9110 9120 9130
Ad5 TGAGGGTGGTGGCGGTGTGTTCTGCCACGAAGAAGTACATAACCCAGCGTCGCAACGTGGATTCGTTGATATCCCCCAAGGCC
Ad2 TGAGGGTGGTGGCGGTGTGTTCTGCCACGAAGAAGTACATAACCCAGCGTCGCAACGTGGATTCGTTGATATCCCCCAAGGCC
Ad17 GGGGGTTGGGACGACTGCGACTGTAGGGCACGAGACGATGGGCGTCCAGCGCGGCCAGCGTCATGTCCTTCCAGGGTCTCAGG
9140 9150 9160 9170 9180 9190 9200 9210

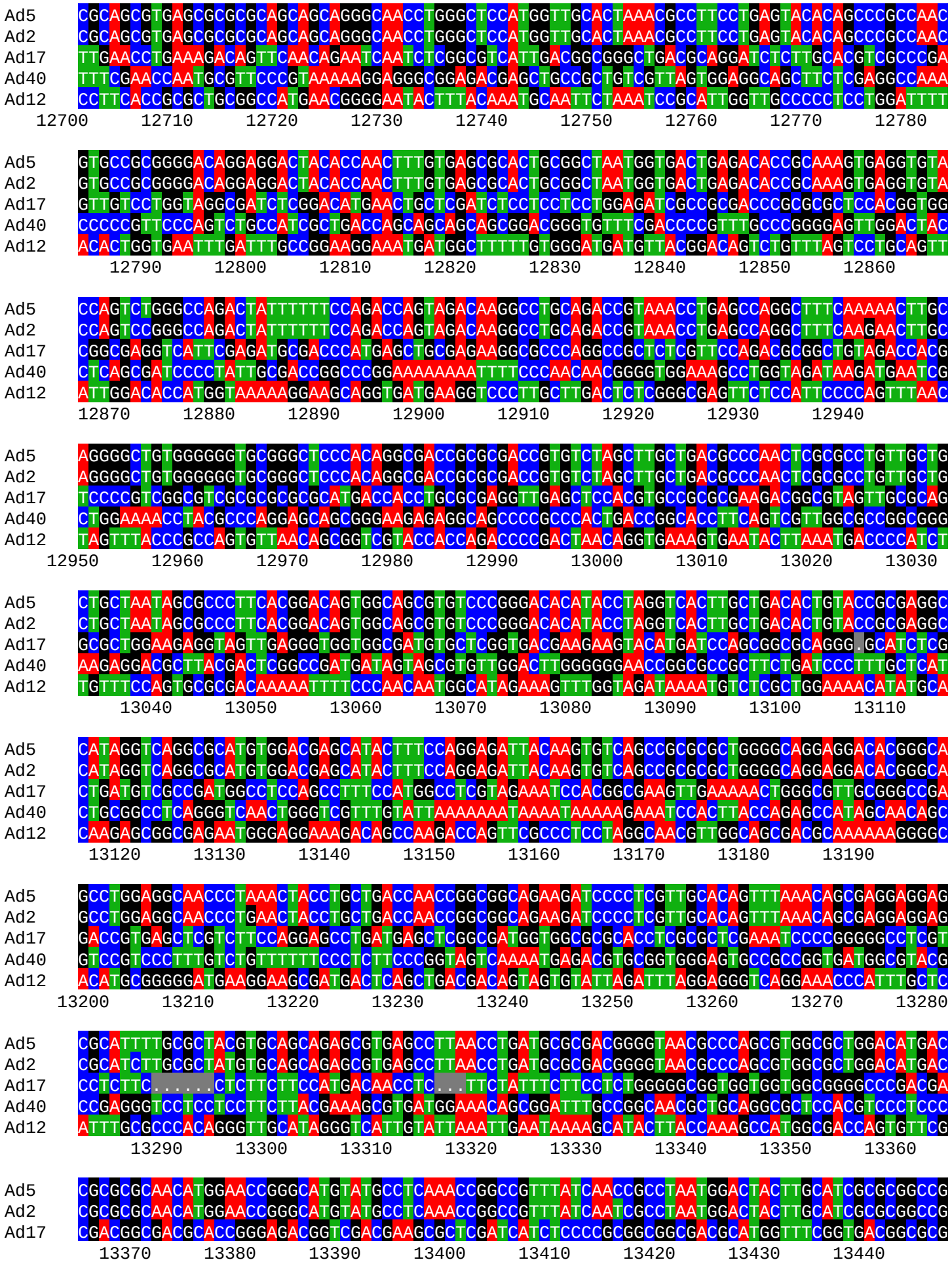

Ad40
Ad12
9140 9150 9160 9170 9180 9190 9200 9210
Ad5
Ad2
Ad17
Ad40
Ad12
9220 9230 9240 9250 9260 9270 9280 9290
Ad5
Ad2
Ad17
Ad40
Ad12
9300 9310 9320 9330 9340 9350 9360 9370
Ad5
Ad2
Ad17
Ad40
Ad12
9380 9390 9400 9410 9420 9430 9440 9450 9460
Ad5
Ad2
Ad17
Ad40
Ad12
9470 9480 9490 9500 9510 9520 9530 9540
Ad5
Ad2
Ad17
Ad40
Ad12
9550 9560 9570 9580 9590 9600 9610 9620
Ad5
Ad2
Ad17
Ad40
Ad12
9630 9640 9650 9660 9670 9680 9690 9700 9710
Ad5
Ad2
Ad17
Ad40
Ad12
9720 9730 9740 9750 9760 9770 9780 9790
Ad5
Ad2
Ad17
Ad40
Ad12
9800 9810 9820 9830 9840 9850 9860 9870

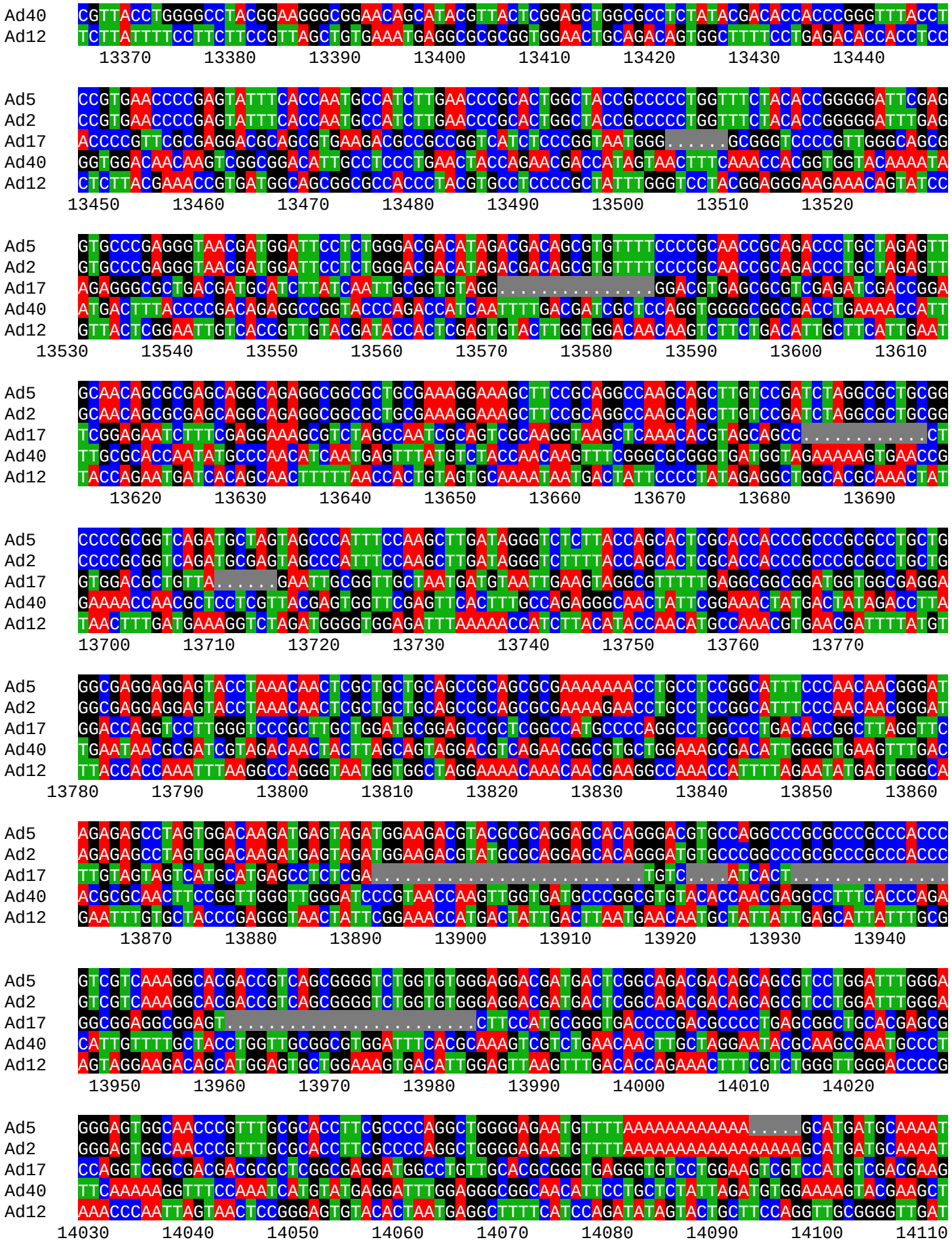

Ad5
Ad2
Ad17
Ad40
Ad12
9880 9890 9900 9910 9920 9930 9940 9950 9960
9970 9980 9990 10000 10010 10020 10030 10040
10050 10060 10070 10080 10090 10100 10110 10120
10130 10140 10150 10160 10170 10180 10190 10200
10210 10220 10230 10240 10250 10260 10270 10280 10290
10300 10310 10320 10330 10340 10350 10360 10370
10380 10390 10400 10410 10420 10430 10440 10450
10460 10470 10480 10490 10500 10510 10520 10530 10540
10550 10560 10570 10580 10590 10600 10610 10620

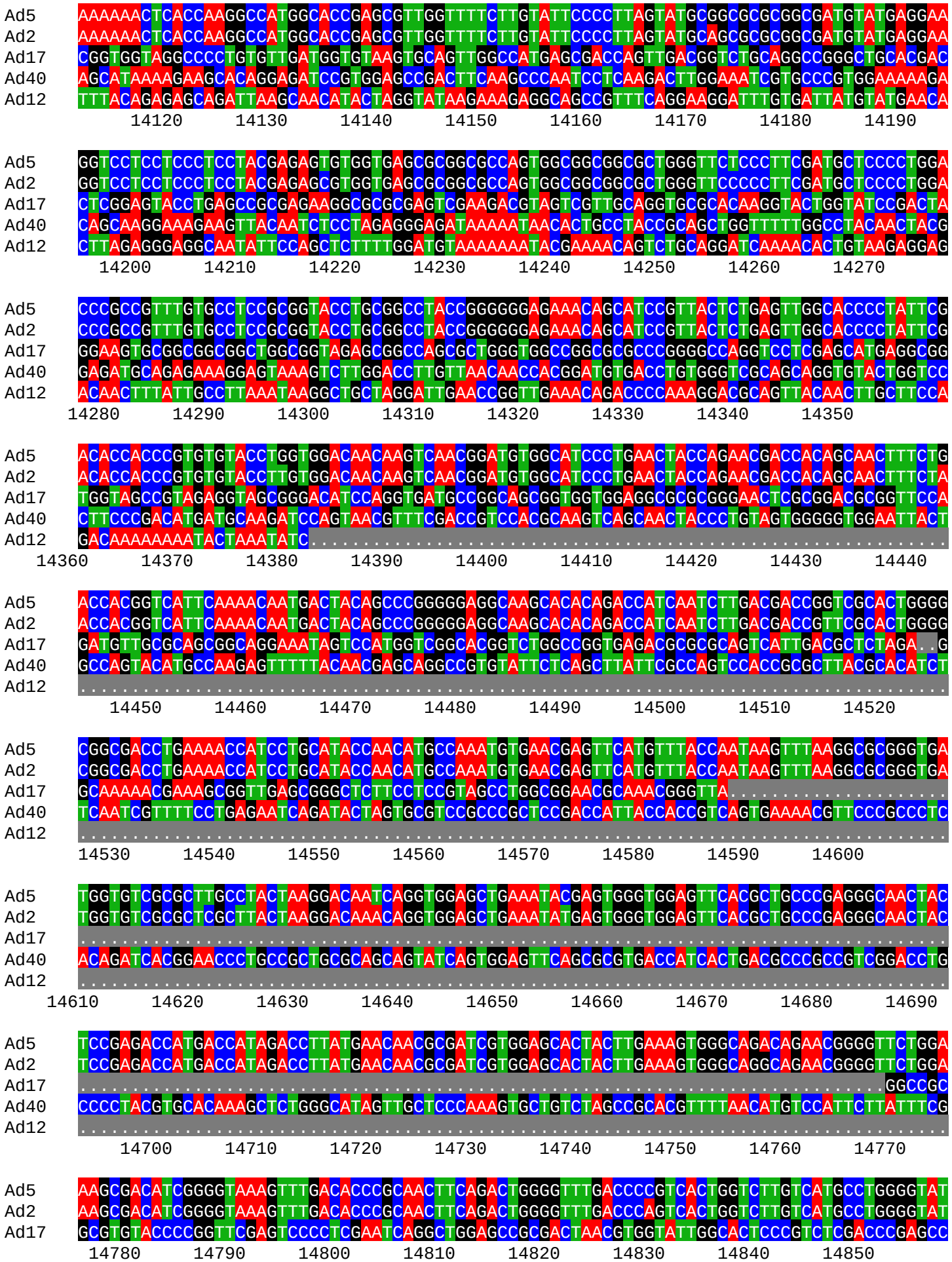

Ad40 GATCGCAGGTTTTACGCGGGGCAGGAGCTGCGGGCCGGTTTTAACCGCCAACGGGTGCTACGCGCCGAAGATTTTGAACCCGA
Ad12 TTGGAAGAAGGAGAAGGCATAGCCCGATTGGGCGCCCACTCTCCTGAGCGTCACCCAAGGGTGCAGCTCGCCCGGGACAGTCG
10550 10560 10570 10580 10590 10600 10610 10620
Ad5 CGGGCACTCTTCCGTGGTCTGGTGGATAAATTCGCAAGGGTATCATGGCGGACGACCGGGGTTCGAGCCCCGTATCCGGCCGT
Ad2 CGGGCACTCTTCCGTGGTCTGGTGGATAAATTCGCAAGGGTATCATGGCGGACGACCGGGGTTCGAACCCCGGATCCGGCCGT
Ad17 GGAGGCGTACATGCCGCAAATGTCGTAAACATAGATGGGCTCCGAGAAGATGCCGATGTTGGTGGGATAACAGCGCCCCCGC
Ad40 CGAACATAGCGGAATAAGTCCGGCACGGGCGCACGTGTCGGCGGCCGATTTGGTAACCGCGTACGAGCAAACGGTGAACGAGG
Ad12 CGTGGCATTTGTGCCTCGTCAGAACATGTTTCGCGACAACAGCGGGGAGGAAGCTGAGGAAATGCGAGACTGCAGGTTTAGGG
10630 10640 10650 10660 10670 10680 10690 10700
Ad5 CCGCCGTGATCCATGCGGTTACCGCCCGCGTGTCGAACCCAGGTGTGCGACGTCAGACAACGGGGGAGTGCTCCTTTTGGCTT
Ad2 CCGCCGTGATCCATGCGGTTACCGCCCGCGTGTCGAACCCAGGTGTGCGACGTCAGACAACGGGGGAGCGCTCCTTTTGGCTT
Ad17 GGATGCTGGCGCGCACGTATTCATACAACTCGTGCGAGGGGCCAAGAAGGCCGGGGCCGAAATTGGTGCGCTGGGGCTGCTCG
Ad40 AGCGCAACTTTCAGAAAAGTTTTAACAATCACGTGCGCACCCTGGTGGCGCGCGAGGAGGTGGCCATTGGGCTGATGCATTTG
Ad12 CCGGTCGCGAGCTGCGCCGCGGATTTAATCGCGAGCGACTGCTGCGTGAGGAGGACTTTGAGCCAGATGAACATTCGGGGATT
10710 10720 10730 10740 10750 10760 10770 10780 10790
Ad5 CCTTCCAGGCGCGGCGGCTGCTGCGCTAGCTTTTTTGGCCACTGGCCGCGCGCAGCGTAAGCGGTTAGGCTGGAAAGCGAAAG
Ad2 CCTTCCAGGCGCGGCGGCTGCTGCGCTAGCTTTTTTGGCCACTGGCCGCGCGCGGCGTAAGCGGTTAGGCTGGAAAGCGAAAG
Ad17 GCGCGGAAAACAATCTGGCGAAAGATGGCGTGCGAGTTGGAGGAGATGGTGGGCCGTTGGAAGATGTTAAAGTGGGCGTGGGG
Ad40 TGGGACTTTATGGAGGCGTACGTGCAAAATCCTTCGAGCAAGCCGCTGACGGCGCAGCTGTTTTTGATTGTGCAACACAGCCG
Ad12 AGTTCTGCACGGGCCCATGTATCAGCAGCCAACTTAGTAACAGCATATGAACAAACGGTTACAGAGGAACGTAACTTTCAAAA
10800 10810 10820 10830 10840 10850 10860 10870
Ad5 CATTAAGTGGCTCGCTCCCTGTAGCCGGAGGGTTATTTTCCAAGGGTTGAGTCGCGGGACCCCCGGTTCGAGTCTCGGACCGG
Ad2 CATTAAGTGGCTCGCTCCCTGTAGCCGGAGGGTTATTTTCCAAGGGTTGAGTCGCAGGACCCCCGGTTCGAGTCTCGGGCCGG
Ad17 CAAGCGGACCGAGTCGCGGATGAAGTGCGCGTAGGAGTCTTGCAGCTTGGCGACGAACTCGGCGGTGACGAGAACGTCCATGG
Ad40 GGACAACGAGGCTTTCCGCGAGGCCATGCTGAATATTGCGGAGCCTGAGGGTCGCTGGCTTTTGGACCTGGTTAATATCCTTC
Ad12 AAGCTTTAATAACCATGTGCGCACACTAATAGCGCGAGAAGAAGTAGCCATTGGTTTAATGCATCTTTGGGACTTTGTAGAAG
10880 10890 10900 10910 10920 10930 10940 10950
Ad5 CCGGACTGCGGCGAACGGGGGTTTGCCTCCCCGTCATGCAAGACCCCGCTTGCAAATTCCTCCGGAAACAGGGACGAGCCCCT
Ad2 CCGGACTGCGGCGAACGGGGGTTTGCCTCCCCGTCATGCAAGACCCCGCTTGCAAATTCCTCCGGAAACAGGGACGAGCCCCT
Ad17 CGCAGTAGTCCAGCGTTTCGCGGATGATGTCATAACCCGCCTCTCCTTTCTTCTCCCACAGCTCGCGGTTGAGGGCGTATTCC
Ad40 AGAGCATTGTGGTACAGGAGCGCAGTCTAAGCCTGGCCGACAAGGTGGCGGCCATTAATTACAGCATGCTTAGCCTCGGCAAG
Ad12 CTTATGTACATAATCCAGCAAGTAAACCCCTAACTGCCCAGCTGTTCTTAATAGTTCAACATAGTAGAGACAATGAAACTTTT
10960 10970 10980 10990 11000 11010 11020 11030
Ad5 TTTTTGCTTTTCCCAGATGCATCCGGTGCTGCGGCAGATGCGCCCCCCTCCTCAGCAGCGGCAAGAGCAAGAGCAGCGGCAGA
Ad2 TTTTTGCTTTTCCCAGATGCATCCGGTGCTGCGGCAGATGCGCCCCCCTCCTCAGCAGCGGCAAGAGCAAGAGCAGCGGCAGA
Ad17 TCGTCATCCTTCCAGTACTCCCGGAGCGGGAATCC.TCGATCGTCCGCACGGTAAGAGCCCAGCATGTAGAAATGGTTCACGG
Ad40 TTTTACGCCCGCAAGATTTACAAAACCCCCTATGTGCCCATAGACAAGGAGGTTAAAATAGATAGCTTTTACATGCGCATGGC
Ad12 AGGGATGCAATGCTTAACATAGCTGAACCCCAGGGTCGGTGGTTACTCGATTTAATTAACATTCTGCAGAGCATTGTGGTTCA
11040 11050 11060 11070 11080 11090 11100 11110 11120
Ad5 CATGCAGGGCACCCTCCCCTCCTCCTACCGCGTCAGGAGGGGCGACATCCGCGGTTGACGCGGCAGCAGATGGTGATTACGAA
Ad2 CATGCAGGGCACCCTCCCCTTCTCCTACCGCGTCAGGAGGGGCAACATCCGCGGCTGACGCGGCGGCAGATGGTGATTACGAA
Ad17 CCTTGTAGGGACAGCAGCCCTTCTCCACGGGGAGGGCGTAAGCTTGTGCGGCCTTGCGGAGCGAGGTGTGCGTCAGGGCGAAG
Ad40 GCTAAAGGTGTTAACGCTGAGTGACGATCTGGGGGTGTACCGCAACGACCGTATTCACAAAGCTGTGAGCGCCAGCCGCCGTC
Ad12 GGAACGCAGTCTTAGTTTGGCAGACAAGGTGGCCGCCATTAATTACTCCATGTTAAGTTTGGGAAAGTTTTATGCTCGTAAAA
11130 11140 11150 11160 11170 11180 11190 11200
Ad5 CCCCCGCGGCGCCGGGCCCGGCACTACCTGGACTTGGAGGAGGGCGAGGGCCTGGCGCGGCTAGGAGCGCCCTCTCCTGAGCG
Ad2 CCCCCGCGGCGCCGGGCCCGGCACTACCTGGACTTGGAGGAGGGCGAGGGCCTGGCGCGGCTAGGAGCGCCCTCTCCTGAGCG
Ad17 GTGTCCCTGACCATGACTTTCAAGAACTGGTACTTGAAAATCCGAGTCGTCGCAGCCGCCGTGCTCCCATAGCTCGAAATCGGT
Ad40 GCGAGCTTAGCGACCGCGAACTAATGCACAGCCTGCGTCGGGCTCTAACGGGCACCGGCACTGATGCCGAAACTGAATCTTAC
Ad12 TCTACAAAAGTCCGTATGTTCCCATTGACAAGGAAGTGAAGATAGACAGCTTTTATATGCGCATGGCTTTAAAGGTACTAACA
11210 11220 11230 11240 11250 11260 11270 11280

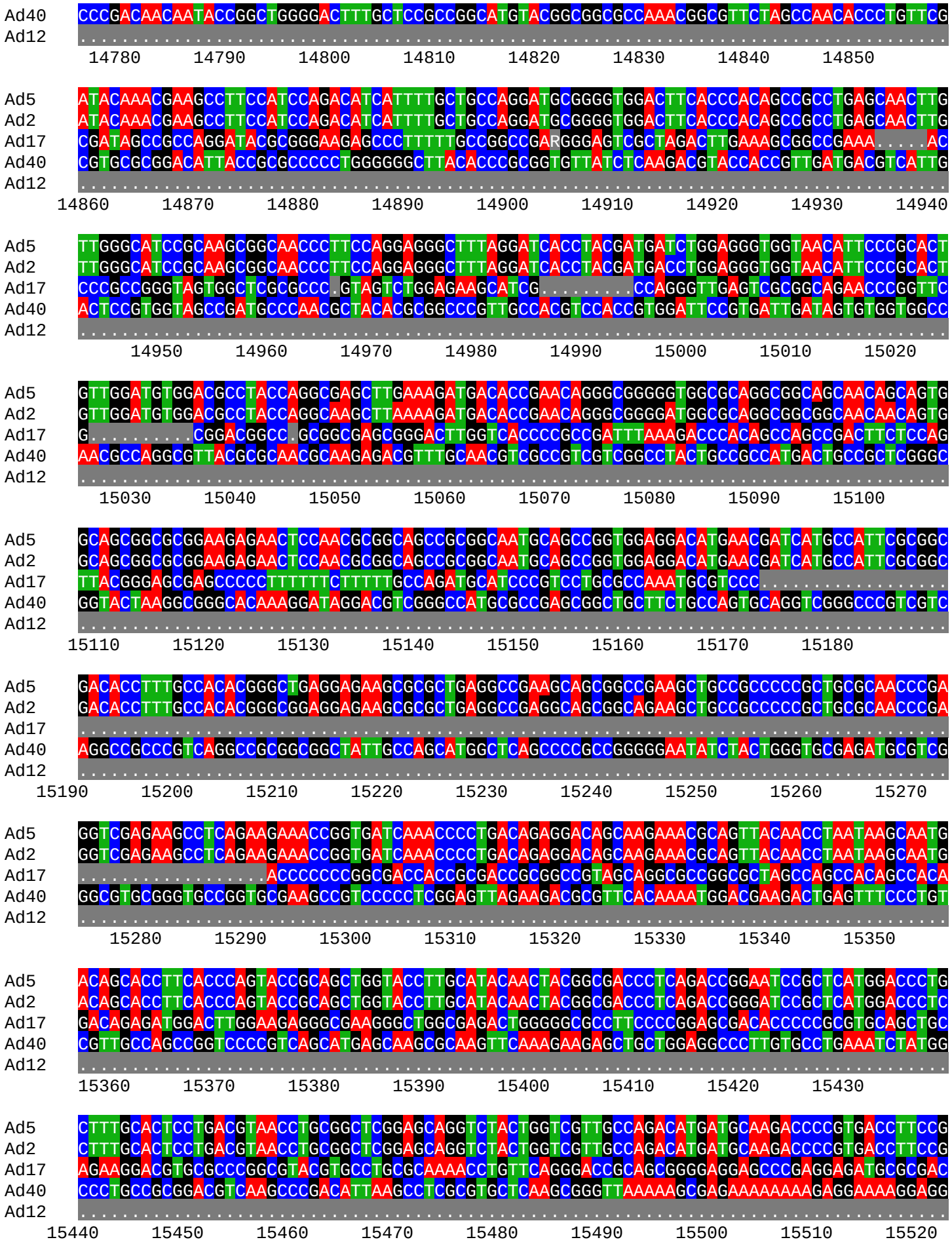

Ad5 GTACCCAAGGGTGCAGCTGAAGCGTGATACGCGTGAGGCGTACGTGCCGCGGCAGAACCTGTTTCGCGACCGCGAGGGAGAGG
Ad2 ACACCCAAGGGTGCAGCTGAAGCGTGACACGCGCGAGGCGTACGTGCCGCGGCAGAACCTGTTTCGCGACCGCGAGGGAGAGG
Ad17 GCGCTTCTTCGAGAGGGGGTTAGGCAGAGCGAAAGTGACGTCATTGAAGAGAATCTTGCCTGCTCGCGGCATGAAATTGCGGG
Ad40 TTTGACATGGGGGCGGACCTGCAATGGCAGCCCAGCGCCCGGGCCCTGGAGGCGGCTGGTTATGTTGGCGCGGAAGAAGATGA
Ad12 TTAAGCGACGATCTTGGAGTGTACCGCAATGACCGAATCCACAAAGCAGTAAGCGCCAGTCGCCGCAGAGAGCTAAGCGACAA
11290 11300 11310 11320 11330 11340 11350 11360 11370
Ad5 AGCCCGAGGAGATGCGGGATCGAAAGTTCCACGCAGGGCGCGAGCTGCGGCATGGCCTGAATCGCGAGCGGTTGCTGCGCGAG
Ad2 AGCCCGAGGAGATGCGGGATCGAAAGTTCCACGCAGGGCGCGAGTTGCGGCATGGCCTGAACCGCGAGCGGTTGCTGCGCGAG
Ad17 TGATGCGGAAAGGGCCCGGGACGGAGGCTCGGTTGTTGATGACCTGGGCGGCGAGGACGATCTCGTCGAAGCCGTTGATGTTG
Ad40 GGAGGACTATGAGGACGAGCCCTGATCAGCCAGGTGGTGTTTTTGTAGATGCTGCGTTCGACGGCGGTGGCGGACGGGTCGCA
Ad12 AGAGCTTATGCATAGCTTACAAAGGGCGCTGACGGGAGCAGGAACAGAGGACGAGTCGTTCTTTGATATGGGCGCAGACCTAC
11380 11390 11400 11410 11420 11430 11440 11450
Ad5 GAGGACTTTGAGCCCGACGCGCGAACCGGGATTAGTCCCGCGCGCGCACACGTGGCGGCCGCCGACCTGGTAACCGCATACGA
Ad2 GAGGACTTTGAGCCCGACGCGCGGACCGGGATTAGTCCCGCGCGCGCACACGTGGCGGCCGCCGACCTGGTAACCGCGTACGA
Ad17 TGCCCGACGATGTAGAGTTCCATGAATCGCGGGCGGCCTTTGATGTGCGGCAGCTTTTTGAGCTCCTCGTAGGTGAGGTCCTC
Ad40 GCAGGTGAATCCCGCTATGTTGGCGGCCCTGCAAAGCCAACCTTCGGGCGTGACACCCTCAGACGACTGGGCGGCGGCCATGG
Ad12 GGTGGCAGCCAAGCGCTCGCGCTTTGGAGGCAGCTGGAGTGGCGTCTGCTGACGTCACTGGCGATGACGATGACGAAGACCAG
11460 11470 11480 11490 11500 11510 11520 11530
Ad5 GCAGACGGTGAACCAGGAGATTAACTTTCAAAAAAGCTTTAACAACCACGTGCGTACGCTTGTGGCGCGCGAGGAGGTGGCTA
Ad2 GCAGACGGTGAACCAGGAGATTAACTTTCAAAAAAGCTTTAACAACCACGTGCGCACGCTTGTGGCGCGCGAGGAGGTGGCTA
Ad17 GGGGCATTGCAGGCCGTGCTGCTCGAGCGCCCATTCCTGGAGATGTGGGTTGGCTTGCATGAAGGAAGCCCAGAGCTCGCGGG
Ad40 ATCGCATCCTGGCCCTAACCACCCGCAATCCCGAAGCCTTCAGGCAGCAGCCCCAGGCCAACCGCTTTTCGGCCATTTTGGAA
Ad12 TACGAGGACTGATCGGCCGTACCTTTTGTTAGATGCAGCGACCGGCGATCATCGCGGAGAGGGCTCCTAACCTGGATCCCGCG
11540 11550 11560 11570 11580 11590 11600 11610 11620
Ad5 TAGGACTGATGCATCTGTGGGACTTTGTAAGCGCGCTGGAGCAAAACCCAAATAGCAAGCCGCTCATGGCGCAGCTGTTCCTT
Ad2 TAGGACTGATGCATCTGTGGGACTTTGTAAGCGCGCTGGAGCAAAACCCAAATAGCAAGCCGCTCATGGCGCAGCTGTTCCTT
Ad17 CCATGAGGGTCTGGAGCTCGTCGCGAAAGAGGCGGAACTGCTGGCCCACGGCCATCTTTTCGGGTGTGACGCAGTAGAAGGTG
Ad40 GCCGTGGTTCCTTCTCGCACTAACCCTACCCACGAAAAGGTGTTGGCGATTGTAAACGCTCTGGTAGAAAGCAAAGCCATCCG
Ad12 GTTTTGGCGGCCATGCAAAGCCAGCCTTCTGGCGTTACAGCTTCAGATGACTGGACAGCGGCCATGGATCGTATTATGGCTTT
11630 11640 11650 11660 11670 11680 11690 11700
Ad5 ATAGTGCAGCACAGCAGGGACAACGAGGCATTCAGGGATGCGCTGCTAAACATAGTAGAGCCCGAGGGCCGCTGGCTGCTCGA
Ad2 ATAGTGCAGCACAGCAGGGACAACGAGGCATTCAGGGATGCGCTGCTAAACATAGTAGAGCCCGAGGGCCGCTGGCTGCTCGA
Ad17 AGGGGGTCCCGCTCCCAGCGATCCCAGCGTAAGCGCGCGGCTAGATCGCGAGCAAGGGCGACCA.....GCTCTGGGTCCCC
Ad40 CAAGGATGAGGCGGGACTGATATATAATGCCTTACTGGAGCGGGTAGCGCGCTATAATAGCACCAACGTGCAGGCCAACCTAG
Ad12 AACGGCGCGCAGTCCTGATGCTTTTCGCCAGCAGCCCCAAGCTAACCGCTTTTCGGCCATTTTGGAAGCAGTAGTGCCGTCTC
11710 11720 11730 11740 11750 11760 11770 11780
Ad5 TTTGATAAACATCCTGCAGAGCATAGTGGTGCAGGAGCGCAGCTTGAGCCTGGCTGACAAGGTGGCCGCCATCAACTATTCCA
Ad2 TTTGATAAACATTCTGCAGAGCATAGTGGTGCAGGAGCGCAGCTTGAGCCTGGCTGACAAGGTGGCCGCCATTAACTATTCCA
Ad17 CGAGAATTTCATGACCAGCATGAAGGGGACGAGCTGCTTGCCGAAGGACCCCATCCAGGTGTAGGTTTCTACATCGTAGGTGA
Ad40 ACCGACTGACAACGGACGTGAGAGAGGCGGTGGCGCAGCGGGAACGCTTTATGCATGACGTTAACCTAGGATCCCAAGTGGCC
Ad12 GTACTAACCCTACTCACGAGAAAGTGTTAACCATTGTAAATGCTTTGTTGGATAGCAAAGCCATCCGCAAAGATGAGGCTGGT
11790 11800 11810 11820 11830 11840 11850 11860
Ad5 TGCTTAGCCTGGGCAAGTTTTACGCCCGCAAGATATACCATACCCCTTACGTTCCCATAGACAAGGAGGTAAAGATCGAGGGG
Ad2 TGCTCAGTCTGGGCAAGTTTTACGCCCGCAAGATATACCATACCCCTTACGTTCCCATAGACAAGGAGGTAAAGATCGAGGGG
Ad17 CAAAGAGCCGCTCCGTGCGAGGATGAGAGCCGATTGGGAAGAACTGGATTTCCTGCCACCAGTTGGACGAGTGGCTGTTGATG
Ad40 CTTAATGCTTTTTCTGAGCACATTGCCAGCTAATGTGCCGCGCGGGCAGGAGGACTATGTCAGCTTTATCAGCGCGCTTCGCCT
Ad12 TTAATATACAACGCTTTGCTTGAGCGCGTGGCACGCTATAACAGTACCAATGTGCAGGCTAACTTAGACCGGATGGGTACAGA
11870 11880 11890 11900 11910 11920 11930 11940 11950
Ad5 TTCTACATGCGCATGGCGCTGAAGGTGCTTACCTTGAGCGACGACCTGGGCGTTTATCGCAACGAGCGCATCCACAAGGCCGT
Ad2 TTCTACATGCGCATGGCGTTGAAGGTGCTTACCTTGAGCGACGACCTGGGCGTTTATCGCAACGAGCGCATCCACAAGGCCGT
Ad17 TGATGAAAGTAGAAATCCCGCCGGCGAACCGAGCACTCGTGCTGATGCTTGTAAAAGCGTCCGCAGTACTCGCAGCGCTGCAC
11960 11970 11980 11990 12000 12010 12020 12030

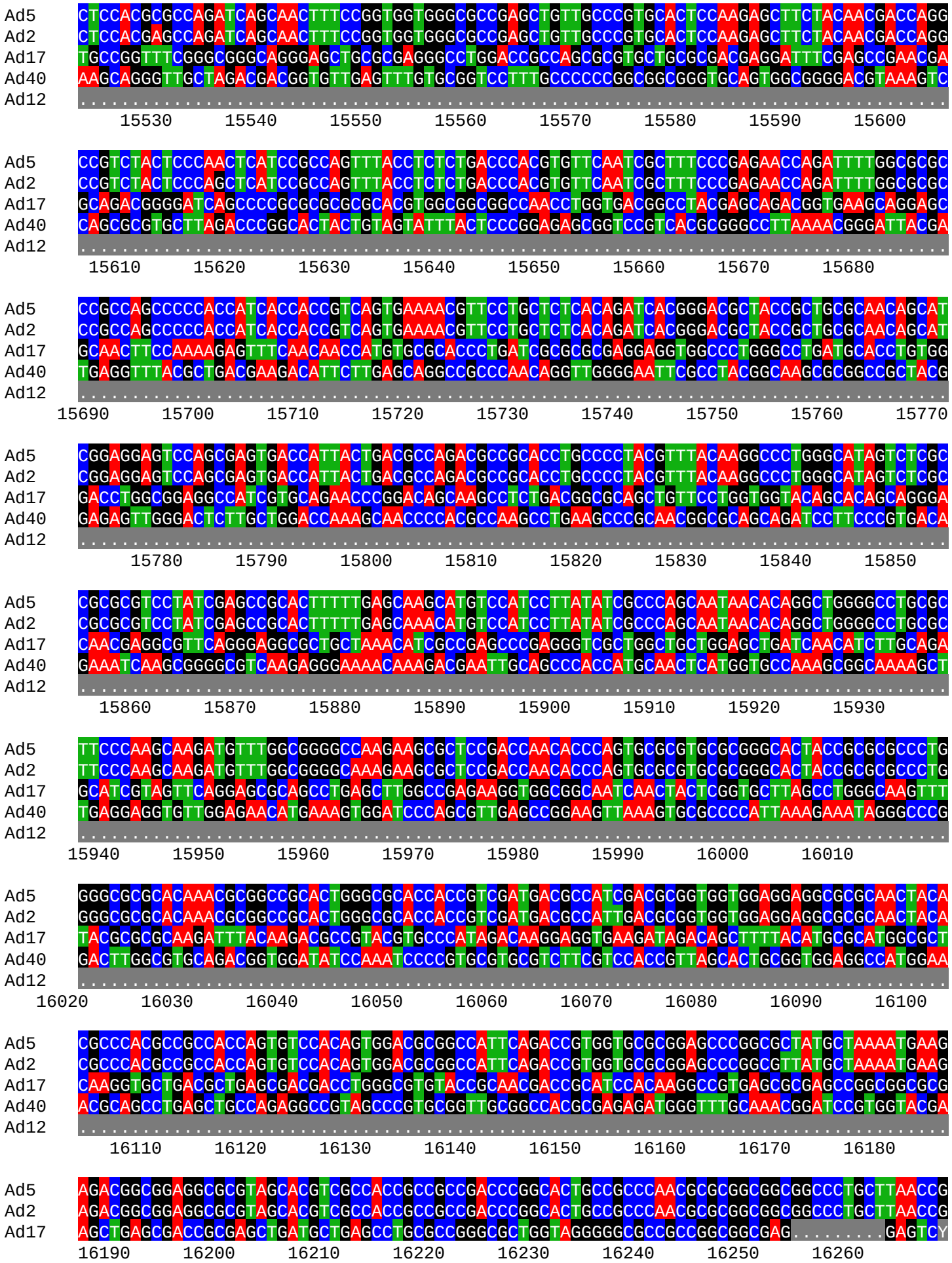

Ad40
Ad12
11960 11970 11980 11990 12000 12010 12020 12030
Ad5
Ad2
Ad17
Ad40
Ad12
12040 12050 12060 12070 12080 12090 12100 12110
Ad5
Ad2
Ad17
Ad40
Ad12
12120 12130 12140 12150 12160 12170 12180 12190 12200
Ad5
Ad2
Ad17
Ad40
Ad12
12210 12220 12230 12240 12250 12260 12270 12280
Ad5
Ad2
Ad17
Ad40
Ad12
12290 12300 12310 12320 12330 12340 12350 12360
Ad5
Ad2
Ad17
Ad40
Ad12
12370 12380 12390 12400 12410 12420 12430 12440 12450
Ad5
Ad2
Ad17
Ad40
Ad12
12460 12470 12480 12490 12500 12510 12520 12530
Ad5
Ad2
Ad17
Ad40
Ad12
12540 12550 12560 12570 12580 12590 12600 12610
Ad5
Ad2
Ad17
Ad40
Ad12
12620 12630 12640 12650 12660 12670 12680 12690

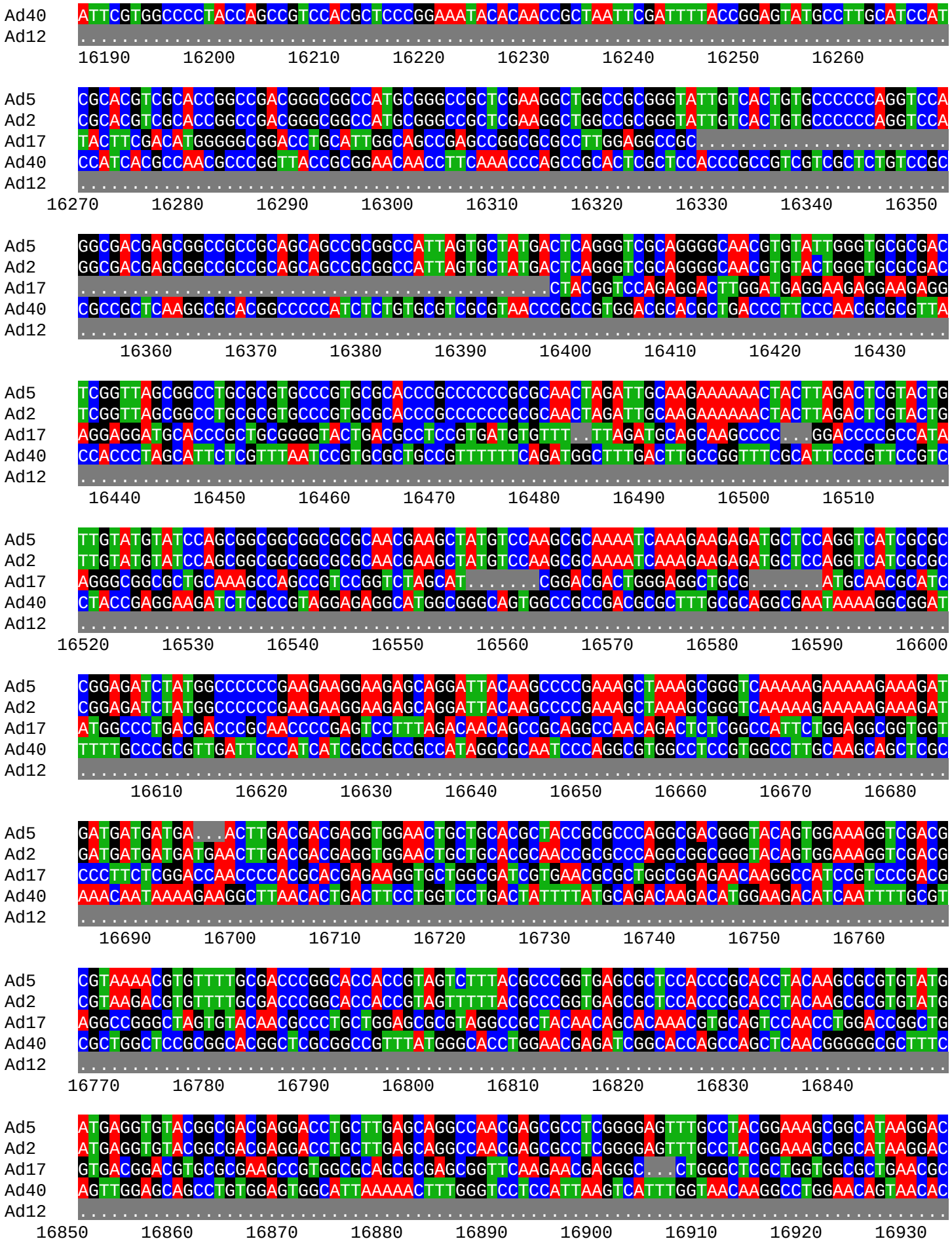

Ad5
Ad2
Ad17
Ad40
Ad12
12700 12710 12720 12730 12740 12750 12760 12770 12780
12790 12800 12810 12820 12830 12840 12850 12860
12870 12880 12890 12900 12910 12920 12930 12940
12950 12960 12970 12980 12990 13000 13010 13020 13030
13040 13050 13060 13070 13080 13090 13100 13110
13120 13130 13140 13150 13160 13170 13180 13190
13200 13210 13220 13230 13240 13250 13260 13270 13280
13290 13300 13310 13320 13330 13340 13350 13360
13370 13380 13390 13400 13410 13420 13430 13440

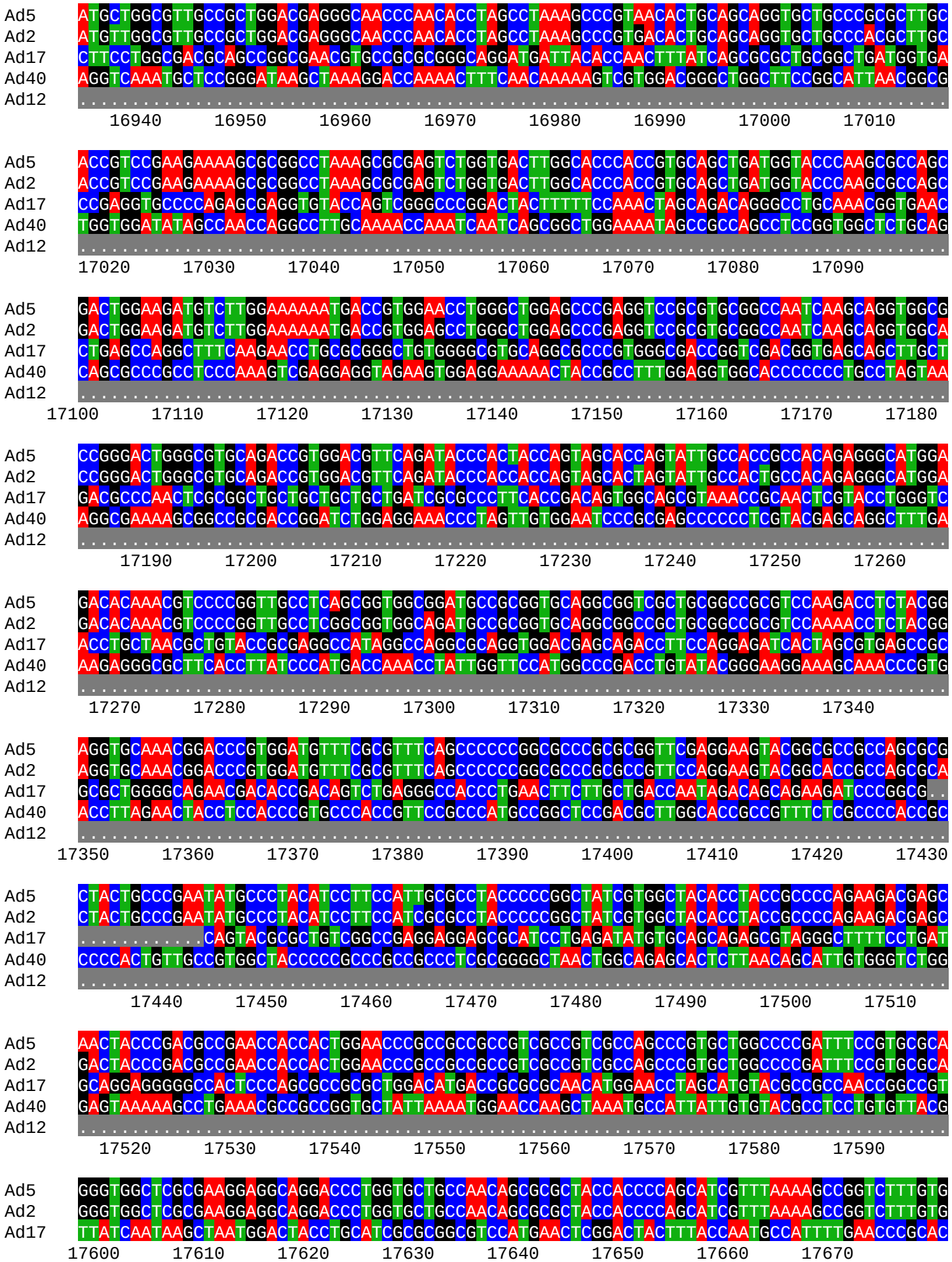

Ad40
Ad12
13370 13380 13390 13400 13410 13420 13430 13440
Ad5
Ad2
Ad17
Ad40
Ad12
13450 13460 13470 13480 13490 13500 13510 13520
Ad5
Ad2
Ad17
Ad40
Ad12
13530 13540 13550 13560 13570 13580 13590 13600 13610
Ad5
Ad2
Ad17
Ad40
Ad12
13620 13630 13640 13650 13660 13670 13680 13690
Ad5
Ad2
Ad17
Ad40
Ad12
13700 13710 13720 13730 13740 13750 13760 13770
Ad5
Ad2
Ad17
Ad40
Ad12
13780 13790 13800 13810 13820 13830 13840 13850 13860
Ad5
Ad2
Ad17
Ad40
Ad12
13870 13880 13890 13900 13910 13920 13930 13940
Ad5
Ad2
Ad17
Ad40
Ad12
13950 13960 13970 13980 13990 14000 14010 14020
Ad5
Ad2
Ad17
Ad40
Ad12
14030 14040 14050 14060 14070 14080 14090 14100 14110

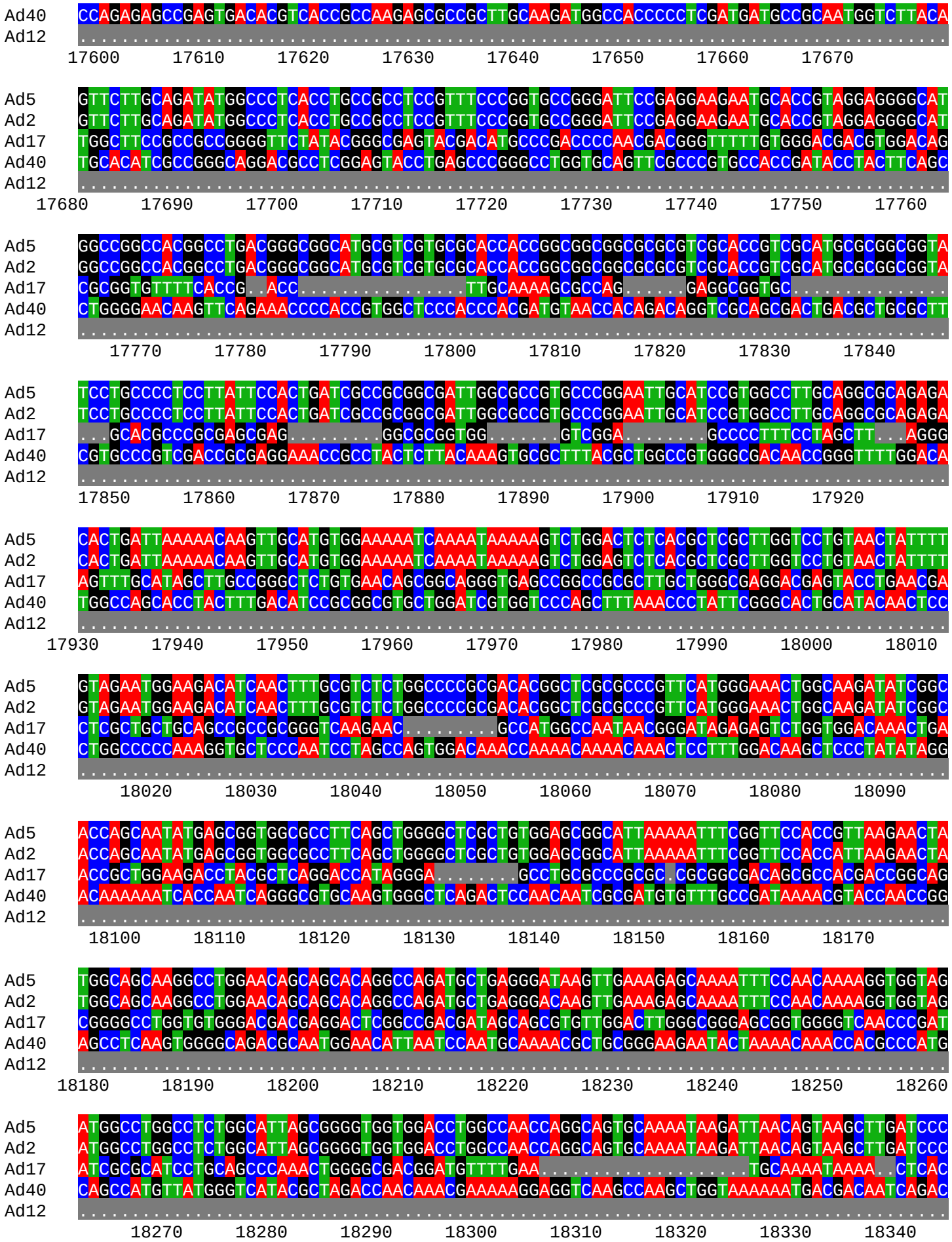

Ad5
Ad2
Ad17
Ad40
Ad12
14120 14130 14140 14150 14160 14170 14180 14190
14200 14210 14220 14230 14240 14250 14260 14270
14280 14290 14300 14310 14320 14330 14340 14350
14360 14370 14380 14390 14400 14410 14420 14430 14440
14450 14460 14470 14480 14490 14500 14510 14520
14530 14540 14550 14560 14570 14580 14590 14600
14610 14620 14630 14640 14650 14660 14670 14680 14690
14700 14710 14720 14730 14740 14750 14760 14770
14780 14790 14800 14810 14820 14830 14840 14850

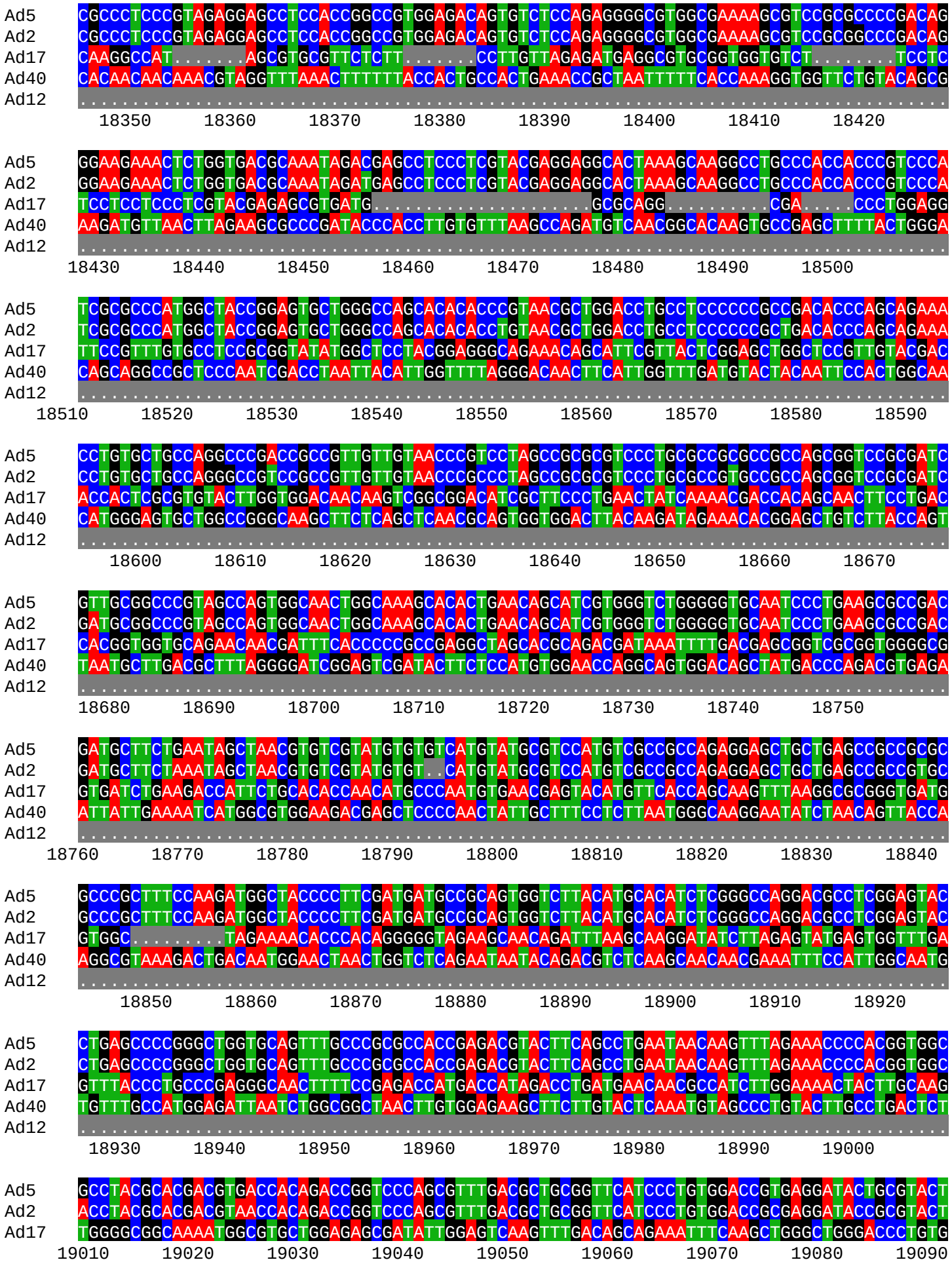

Ad40 CCCGACAACAATACCGGCTGGGGACTTTGCTCCGCCGGCATGTACGGCGGCGCCAAACGGCGTTCTAGCCAACACCCTGTTCG
Ad12 ....
14780 14790 14800 14810 14820 14830 14840 14850
Ad5 ATACAAACGAAGCCTTCCATCCAGACATCATTTTGCTGCCAGGATGCGGGGTGGACTTCACCCACAGCCGCCTGAGCAACTTG
Ad2 ATACAAACGAAGCCTTCCATCCAGACATCATTTTGCTGCCAGGATGCGGGGTGGACTTCACCCACAGCCGCCTGAGCAACTTG
Ad17 CGATAGCCGCCAGGATACGCGGGAAGAGCCCTTTTTGCCGGCCGARGGGAGTCGCTAGACTTGAAAGCGGCCGAAA.....AC
Ad40 CGTGCGCGGACATTACCGCGCCCCCTGGGGGGCTTACACCCGCGGTGTTATCTCAAGACGTACCACCGTTGATGACGTCATTG
Ad12 ....
14860 14870 14880 14890 14900 14910 14920 14930 14940
Ad5 TTGGGCATCCGCAAGCGGCAACCCTTCCAGGAGGGCTTTAGGATCACCTACGATGATCTGGAGGGTGGTAACATTCCCGCACT
Ad2 TTGGGCATCCGCAAGCGGCAACCCTTCCAGGAGGGCTTTAGGATCACCTACGATGACCTGGAGGGTGGTAACATTCCCGCACT
Ad17 CCCGCCGGGTAGTGGCTCGCGCCC.GTAGTCTGGAGAAGCATCG.........CCAGGGTTGAGTCGCGGCAGAACCCGGTTC
Ad40 ACTCCGTGGTAGCCGATGCCCAACGCTACACGCGGCCCGTTGCCACGTCCACCGTGGATTCCGTGATTGATAGTGTGGTGGCC
Ad12 ....
14950 14960 14970 14980 14990 15000 15010 15020
Ad5 GTTGGATGTGGACGCCTACCAGGCGAGCTTGAAAGATGACACCGAACAGGGCGGGGGTGGCGCAGGCGGCAGCAACAGCAGTG
Ad2 GTTGGATGTGGACGCCTACCAGGCAAGCTTAAAAGATGACACCGAACAGGGCGGGGATGGCGCAGGCGGCGGCAACAACAGTG
Ad17 G.........CGGACGGCC.GCGGCGAGCGGGACTTGGTCACCCCGCCGATTTAAAGACCCACAGCCAGCCGACTTCTCCAG
Ad40 AACGCCAGGCGTTACGCGCAACGCAAGAGACGTTTGCAACGTCGCCGTCGTCGGCCTACTGCCGCCATGACTGCCGCTCGGGC
Ad12 ....
15030 15040 15050 15060 15070 15080 15090 15100
Ad5 GCAGCGGCGCGGAAGAGAACTCCAACGCGGCAGCCGCGGCAATGCAGCCGGTGGAGGACATGAACGATCATGCCATTCGCGGC
Ad2 GCAGCGGCGCGGAAGAGAACTCCAACGCGGCAGCCGCGGCAATGCAGCCGGTGGAGGACATGAACGATCATGCCATTCGCGGC
Ad17 TTACGGGAGCGAGCCCCCTTTTTTCTTTTTGCCAGATGCATCCCGTCCTGCGCCAAATGCGTCCC.....
Ad40 GGTACTAAGGCGGGCACAAAGGATAGGACGTCGGGCCATGCGCCGAGCGGCTGCTTCTGCCAGTGCAGGTCGGGCCCGTCGTC
Ad12 ....
15110 15120 15130 15140 15150 15160 15170 15180
Ad5 GACACCTTTGCCACACGGGCTGAGGAGAAGCGCGCTGAGGCCGAAGCAGCGGCCGAAGCTGCCGCCCCCGCTGCGCAACCCGA
Ad2 GACACCTTTGCCACACGGGCGGAGGAGAAGCGCGCTGAGGCCGAGGCAGCGGCAGAAGCTGCCGCCCCCGCTGCGCAACCCGA
Ad17 ....
Ad40 AGGCCGCCCGTCAGGCCGCGGCGGCTATTGCCAGCATGGCTCAGCCCCGCCGGGGGGAATATCTACTGGGTGCGAGATGCGTCG
Ad12 ....
15190 15200 15210 15220 15230 15240 15250 15260 15270
Ad5 GGTCGAGAAGCCTCAGAAGAAACCGGTGATCAAACCCCTGACAGAGGACAGCAAGAAACGCAGTTACAACCTAATAAGCAATG
Ad2 GGTCGAGAAGCCTCAGAAGAAACCGGTGATCAAACCCCTGACAGAGGACAGCAAGAAACGCAGTTACAACCTAATAAGCAATG
Ad17 ..................ACCCCCCCGGCGACCACCGCGACCGCGGCCGTAGCAGGCGCCGGCGCTAGCCAGCCACAGCCACA
Ad40 GGCGTGCGGGTGCCGGTGCGAAGCCGTCCCCCTCGGAGTTAGAAGACGCGTTCACAAAATGGACGAAGACTGAGTTTCCCTGT
Ad12 ....
15280 15290 15300 15310 15320 15330 15340 15350
Ad5 ACAGCACCTTCACCCAGTACCGCAGCTGGTACCTTGCATACAACTACGGCGACCCTCAGACCGGAATCCGCTCATGGACCCTG
Ad2 ACAGCACCTTCACCCAGTACCGCAGCTGGTACCTTGCATACAACTACGGCGACCCTCAGACCGGGATCCGCTCATGGACCCTC
Ad17 GACAGAGATGGACTTGGAAGAGGGCGAAGGGCTGGCGAGACTGGGGGCGCCTTCCCCGGAGCGACACCCCGCGTGCAGCTGC
Ad40 CGTTGCCAGCCGGTCCCCGTCAGCATGAGCAAGCGCAAGTTCAAAGAAGAGCTGCTGGAGGCCCTTGTGCCTGAAATCTATGG
Ad12 ....
15360 15370 15380 15390 15400 15410 15420 15430
Ad5 CTTTGCACTCCTGACGTAACCTGCGGCTCGGAGCAGGTCTACTGGTCGTTGCCAGACATGATGCAAGACCCCGTGACCTTCCG
Ad2 CTTTGCACTCCTGACGTAACCTGCGGCTCGGAGCAGGTCTACTGGTCGTTGCCAGACATGATGCAAGACCCCGTGACCTTCCG
Ad17 AGAAGGACGTGCGCCCGGCGTACGTGCCTGCGCAAAACCTGTTCAGGGACCGCAGCGGGGAGGAGCCCGAGGAGATGCGCGAC
Ad40 CCCTGCCGCGGACGTCAAGCCCGACATTAAGCCTCGCGTGCTCAAGCGGGTTAAAAAGCGAGAAAAAAAAGAGGAAAAGGAGG
Ad12 ....
15440 15450 15460 15470 15480 15490 15500 15510 15520

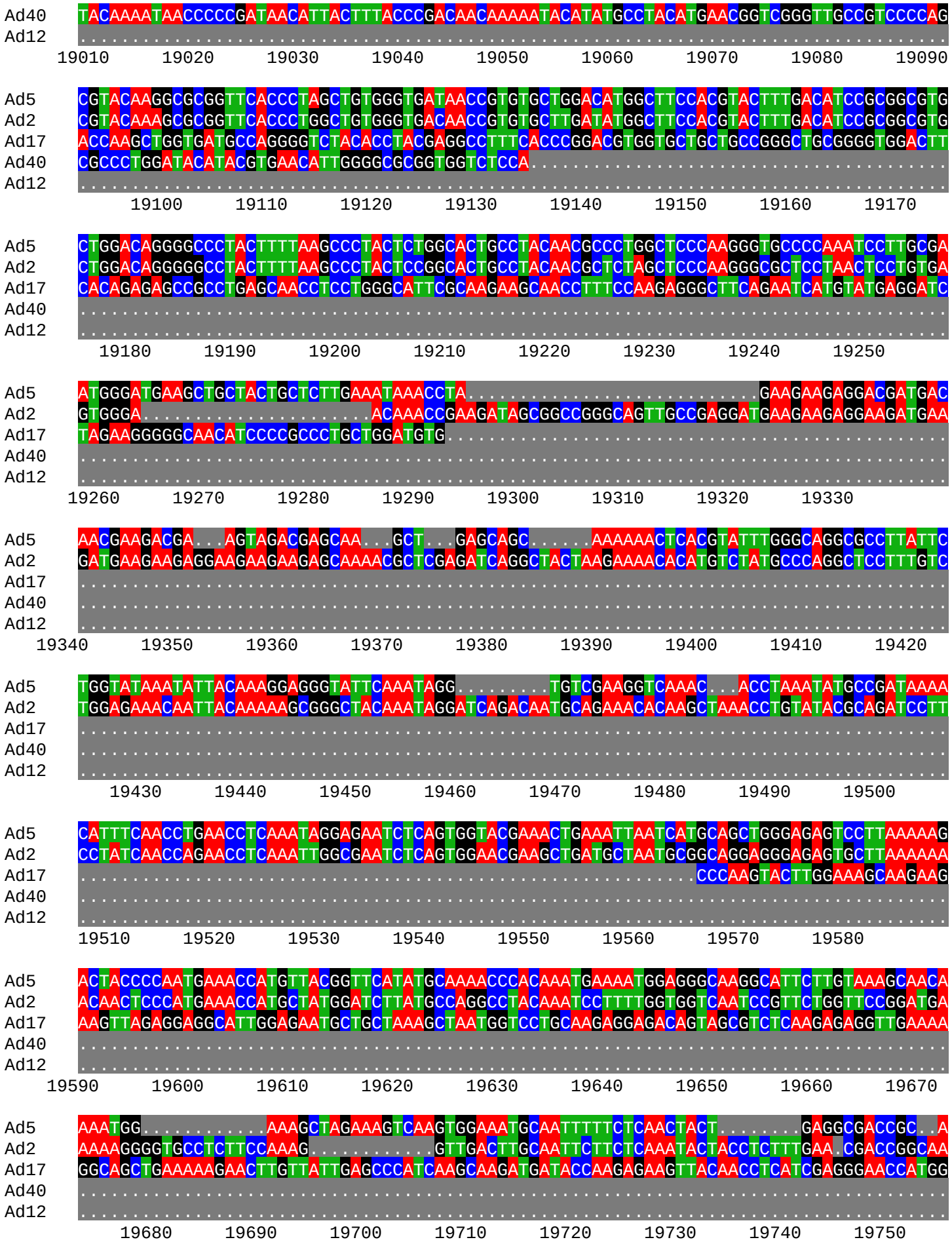

Ad5
Ad2
Ad17
Ad40
Ad12
15530 15540 15550 15560 15570 15580 15590 15600
15610 15620 15630 15640 15650 15660 15670 15680
15690 15700 15710 15720 15730 15740 15750 15760 15770
15780 15790 15800 15810 15820 15830 15840 15850
15860 15870 15880 15890 15900 15910 15920 15930
15940 15950 15960 15970 15980 15990 16000 16010
16020 16030 16040 16050 16060 16070 16080 16090 16100
16110 16120 16130 16140 16150 16160 16170 16180
16190 16200 16210 16220 16230 16240 16250 16260

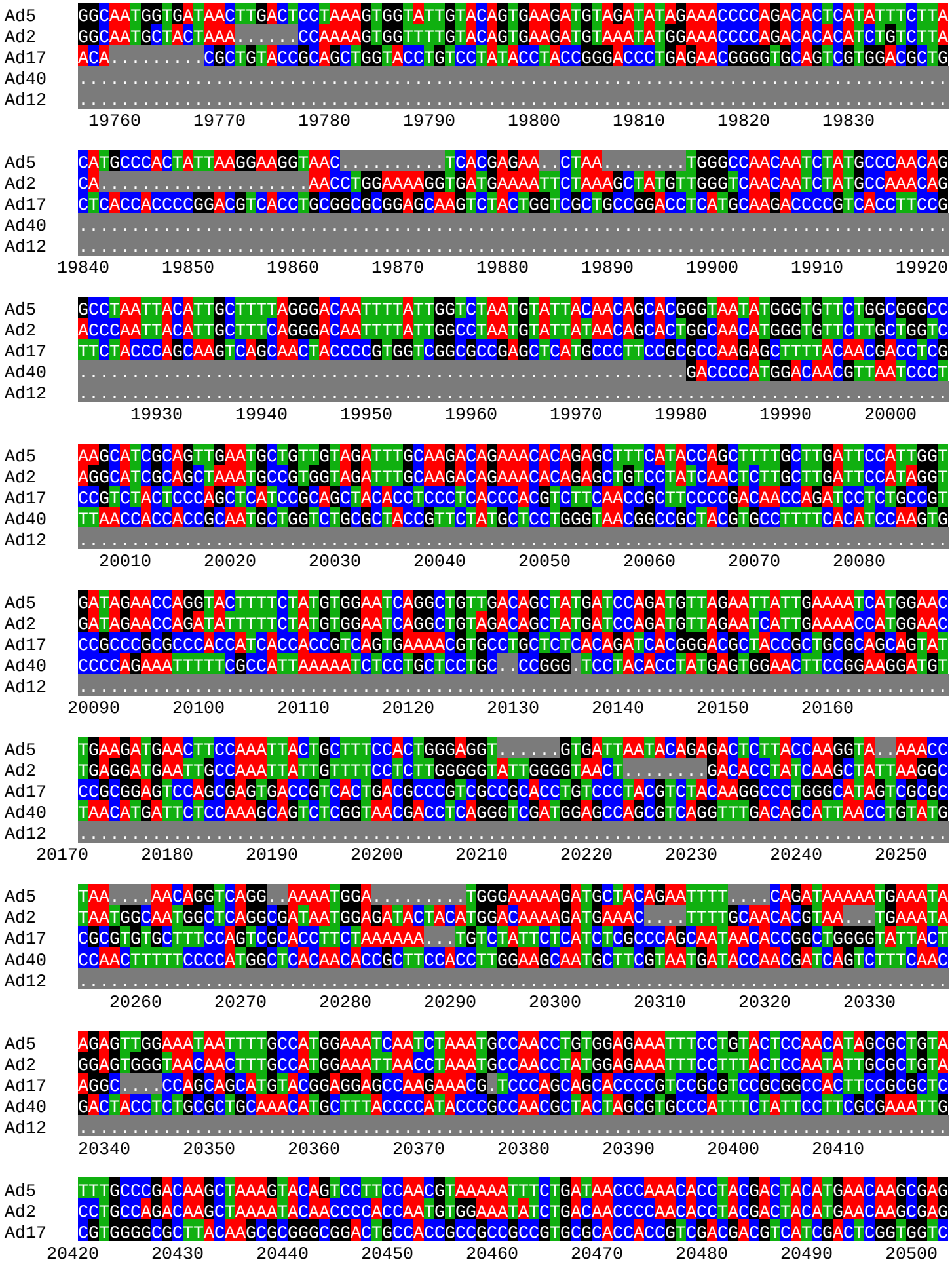

Ad40
Ad12
16190 16200 16210 16220 16230 16240 16250 16260
Ad5
Ad2
Ad17
Ad40
Ad12
16270 16280 16290 16300 16310 16320 16330 16340 16350
Ad5
Ad2
Ad17
Ad40
Ad12
16360 16370 16380 16390 16400 16410 16420 16430
Ad5
Ad2
Ad17
Ad40
Ad12
16440 16450 16460 16470 16480 16490 16500 16510
Ad5
Ad2
Ad17
Ad40
Ad12
16520 16530 16540 16550 16560 16570 16580 16590 16600
Ad5
Ad2
Ad17
Ad40
Ad12
16610 16620 16630 16640 16650 16660 16670 16680
Ad5
Ad2
Ad17
Ad40
Ad12
16690 16700 16710 16720 16730 16740 16750 16760
Ad5
Ad2
Ad17
Ad40
Ad12
16770 16780 16790 16800 16810 16820 16830 16840
Ad5
Ad2
Ad17
Ad40
Ad12
16850 16860 16870 16880 16890 16900 16910 16920 16930

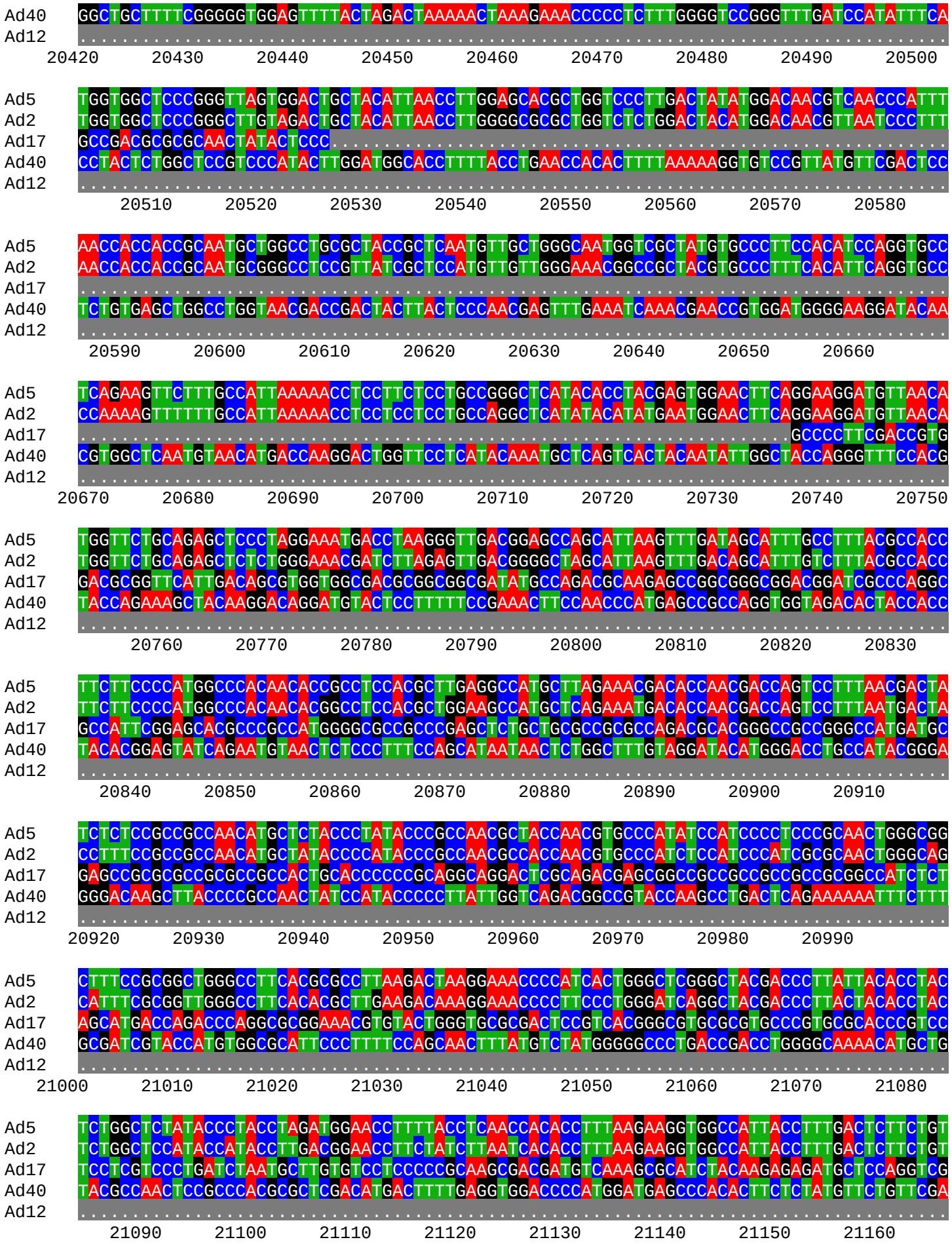

Ad5
Ad2
Ad17
Ad40
Ad12
16940 16950 16960 16970 16980 16990 17000 17010
17020 17030 17040 17050 17060 17070 17080 17090
17100 17110 17120 17130 17140 17150 17160 17170 17180
17190 17200 17210 17220 17230 17240 17250 17260
17270 17280 17290 17300 17310 17320 17330 17340
17350 17360 17370 17380 17390 17400 17410 17420 17430
17440 17450 17460 17470 17480 17490 17500 17510
17520 17530 17540 17550 17560 17570 17580 17590
17600 17610 17620 17630 17640 17650 17660 17670

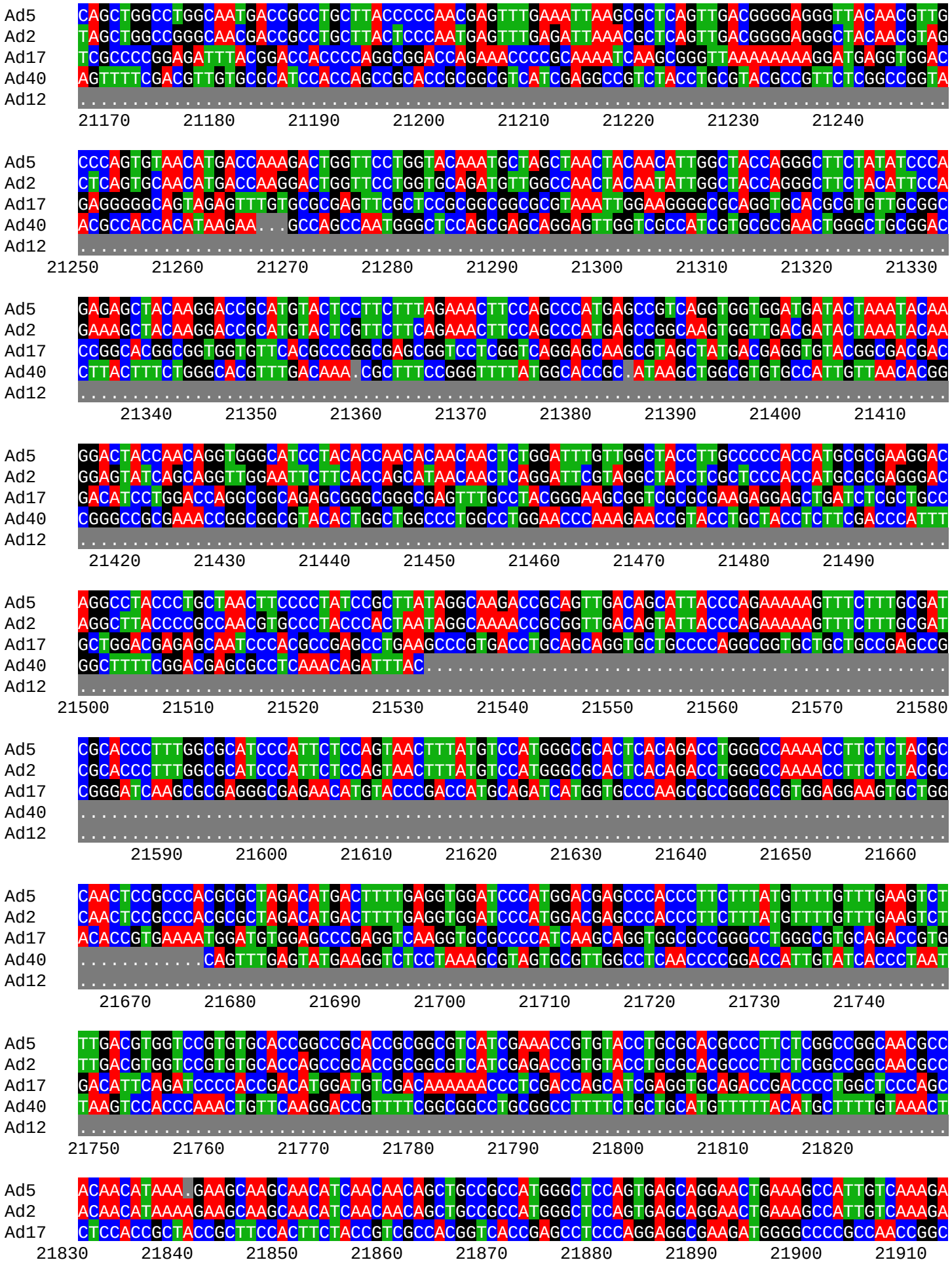

Ad40 CCAGAGAGCCGAGTGACACGTCACCGCCAAGAGCGCCGCTTGCAAGATGGCCACCCCCTCGATGATGCCGCAATGGTCTTACA
Ad12 ....
17600 17610 17620 17630 17640 17650 17660 17670
Ad5 GTTCTTGCAGATATGGCCCTCACCTGCCGCCTCCGTTTCCCGGTGCCGGGATTCCGAGGAAGAATGCACCGTAGGAGGGGCAT
Ad2 GTTCTTGCAGATATGGCCCTCACCTGCCGCCTCCGTTTCCCGGTGCCGGGATTCCGAGGAAGAATGCACCGTAGGAGGGGCAT
Ad17 TGGCTTCCGCCGCCGGGGTTCTATACGGGCGAGTACGACATGCCCGACCCCAACGACGGGTTTTTGTGGGACGACGTGGACAG
Ad40 TGCACATCGCCGGGCAGGACGCCTCGGAGTACCTGAGCCCGGGCCTGGTGCAGTTCGCCCGTGCCACCGATACCTACTTCAGC
Ad12 ....
17680 17690 17700 17710 17720 17730 17740 17750 17760
Ad5 GGCCGGCCACGGCCTGACGGGCGGCATGCGTCGTGCGCACCACCGGCGGCGGCGCGCGTCGCACCGTCGCATGCGCGGCGGTA
Ad2 GGCCGGCCACGGCCTGACGGGCGGCATGCGTCGTGCGCACCACCGGCGGCGGCGCGCGTCGCACCGTCGCATGCGCGGCGGTA
Ad17 CGCGGTGTTTTCACCG..ACC..................TTGCAAAAGCGCCAG.....GAGGCGGTGC..................
Ad40 CTGGGGAACAAGTTCAGAAACCCCACCGTGGCTCCCACCCACGATGTAACCACAGACAGGTCGCAGCGACTGACGCTGCGCTT
Ad12 ....
17770 17780 17790 17800 17810 17820 17830 17840
Ad5 TCCTGCCCCTCCTTATTCCACTGATCGCCGCGGCGATTGGCGCCGTGCCCGGAATTGCATCCGTGGCCTTGCAGGCGCAGAGA
Ad2 TCCTGCCCCTCCTTATTCCACTGATCGCCGCGGCGATTGGCGCCGTGCCCGGAATTGCATCCGTGGCCTTGCAGGCGCAGAGA
Ad17 ...GCACGCCCGCGAGCGAG.........GGCGCGGTGG.......GTCGGA.........GCCCCTTTCCTAGCTT...AGGG
Ad40 CGTGCCCGTCGACCGCGAGGAAACCGCCTACTCTTACAAAGTGCGCTTTACGCTGGCCGTGGGCGACAACCGGGTTTTGGACA
Ad12 ....
17850 17860 17870 17880 17890 17900 17910 17920
Ad5 CACTGATTAAAAACAAGTTGCATGTGGAAAAATCAAAATAAAAAGTCTGGACTCTCACGCTCGCTTGGTCCTGTAACTATTTT
Ad2 CACTGATTAAAAACAAGTTGCATGTGGAAAAATCAAAATAAAAAGTCTGGAGTCTCACGCTCGCTTGGTCCTGTAACTATTTT
Ad17 AGTTTGCATAGCTTGCCGGGCTCTGTGAACAGCGGCAGGGTGAGCCGGCCGCGCTTGCTGGGCGAGGACGAGTACCTGAACGA
Ad40 TGGCCAGCACCTACTTTGACATCCGCGGCGTGCTGGATCGTGGTCCCAGCTTTAAACCCTATTCGGGCACTGCATACAACTCC
Ad12 ....
17930 17940 17950 17960 17970 17980 17990 18000 18010
Ad5 GTAGAATGGAAGACATCAACTTTGCGTCTCTGGCCCCGCGACACGGCTCGCGCCCGTTCATGGGAAACTGGCAAGATATCGGC
Ad2 GTAGAATGGAAGACATCAACTTTGCGTCTCTGGCCCCGCGACACGGCTCGCGCCCGTTCATGGGAAACTGGCAAGATATCGGC
Ad17 CTCGCTGCTGCAGCCGCCGCGGGTCAAGAAC.........GCCATGGCCAATAACGGGATAGAGAGTCTGGTGGACAAACTGA
Ad40 CTGGCCCCCAAAGGTGCTCCCAATCCTAGCCAGTGGACAAACCAAAACAAAACAAACTCCTTTGGACAAGCTCCCTATATAGG
Ad12 ....
18020 18030 18040 18050 18060 18070 18080 18090
Ad5 ACCAGCAATATGAGCGGTGGCGCCTTCAGCTGGGGCTCGCTGTGGAGCGGCATTAAAAATTTCGGTTCCACCGTTAAGAACTA
Ad2 ACCAGCAATATGAGCGGTGGCGCCTTCAGCTGGGGCTCGCTGTGGAGCGGCATTAAAAATTTCGGTTCCACCATTAAGAACTA
Ad17 ACCGCTGGAAGACCTACGCTCAGGACCATAGGGA.........GCCTGCGCCCGCGC.CGCGGCGACAGCGCCACGACCGGCAG
Ad40 ACAAAAAATCACCAATCAGGGCGTGCAAGTGGGCTCAGACTCCAACAATCGCGATGTGTTTGCCGATAAAACGTACCAACCGG
Ad12 ....
18100 18110 18120 18130 18140 18150 18160 18170
Ad5 TGGCAGCAAGGCCTGGAACAGCAGCACAGGCCAGATGCTGAGGGATAAGTTGAAAGAGCAAAATTTCCAACAAAAGGTGGTAG
Ad2 TGGCAGCAAGGCCTGGAACAGCAGCACAGGCCAGATGCTGAGGGACAAGTTGAAAGAGCAAAATTTCCAACAAAAGGTGGTAG
Ad17 CGGGGCCTGGTGTGGGACGACGAGGACTCGGCCGACGATAGCAGCGTGTTGGACTTGGGCGGGAGCGGTGGGGTCAACCCGAT
Ad40 AGCCTCAAGTGGGGCAGACGCAATGGAACATTAATCCAATGCAAAACGCTGCGGGAAGAATACTAAAACAAACCACGCCCATG
Ad12 ....
18180 18190 18200 18210 18220 18230 18240 18250 18260
Ad5 ATGGCCTGGCCTCTGGCATTAGCGGGGTGGTGGACCTGGCCAACCAGGCAGTGCAAAATAAGATTAACAGTAAGCTTGATCCC
Ad2 ATGGCCTGGCCTCTGGCATTAGCGGGGTGGTGGACCTGGCCAACCAGGCAGTGCAAAATAAGATTAACAGTAAGCTTGATCCC
Ad17 ATCGCGCATCCTGCAGCCCAAACTGGGGCGACGGATGTTTTGAA.....................TGCAAAATAAAA..CTCAC
Ad40 CAGCCATGTTATGGGTCATACGCTAGACCAACAAACGAAAAAGGAGGTCAAGCCAAGCTGGTAAAAAATGACGACAATCAGAC
Ad12 ....
18270 18280 18290 18300 18310 18320 18330 18340

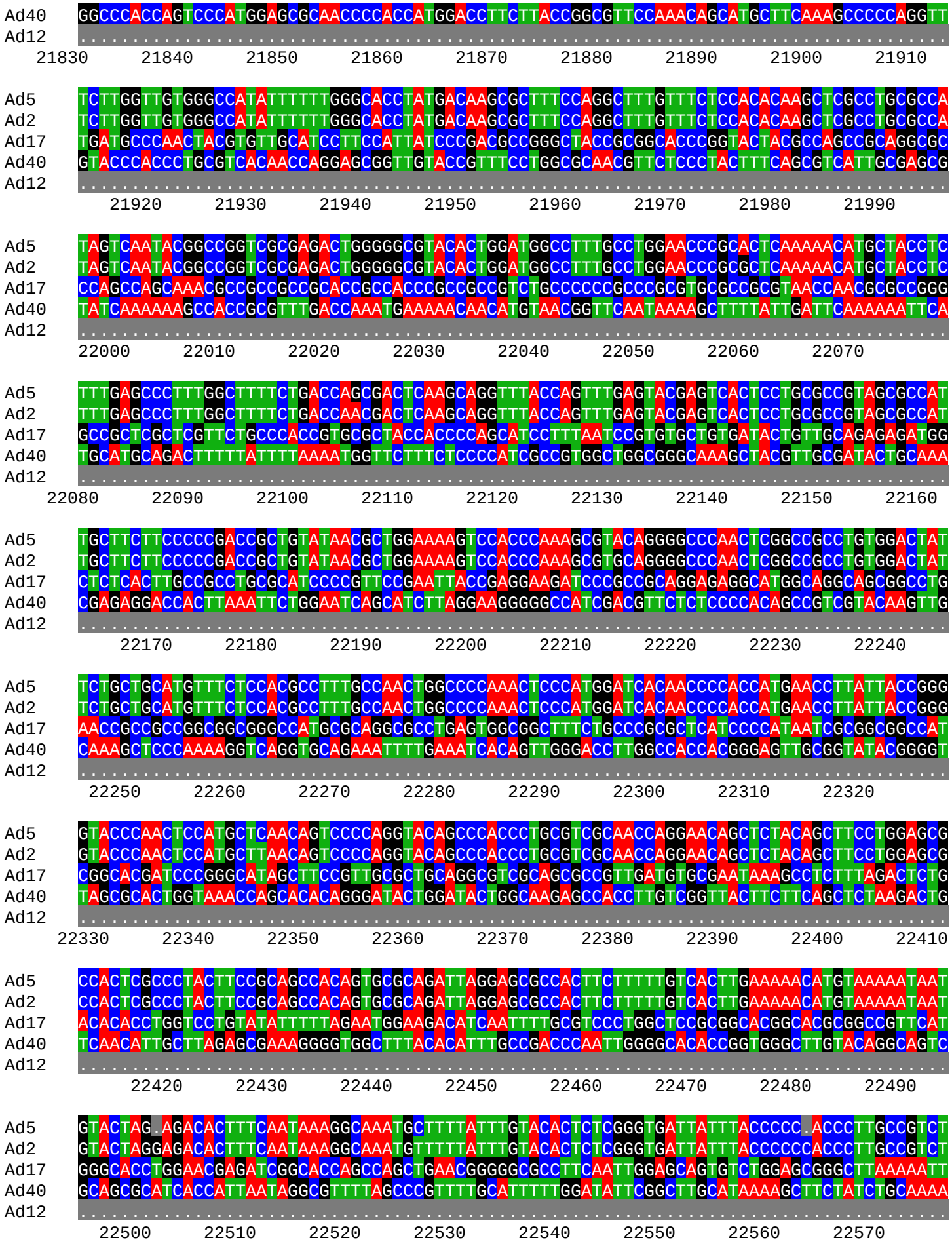

Ad5
Ad2
Ad17
Ad40
Ad12
18350 18360 18370 18380 18390 18400 18410 18420
18430 18440 18450 18460 18470 18480 18490 18500
18510 18520 18530 18540 18550 18560 18570 18580 18590
18600 18610 18620 18630 18640 18650 18660 18670
18680 18690 18700 18710 18720 18730 18740 18750
18760 18770 18780 18790 18800 18810 18820 18830 18840
18850 18860 18870 18880 18890 18900 18910 18920
18930 18940 18950 18960 18970 18980 18990 19000
19010 19020 19030 19040 19050 19060 19070 19080 19090

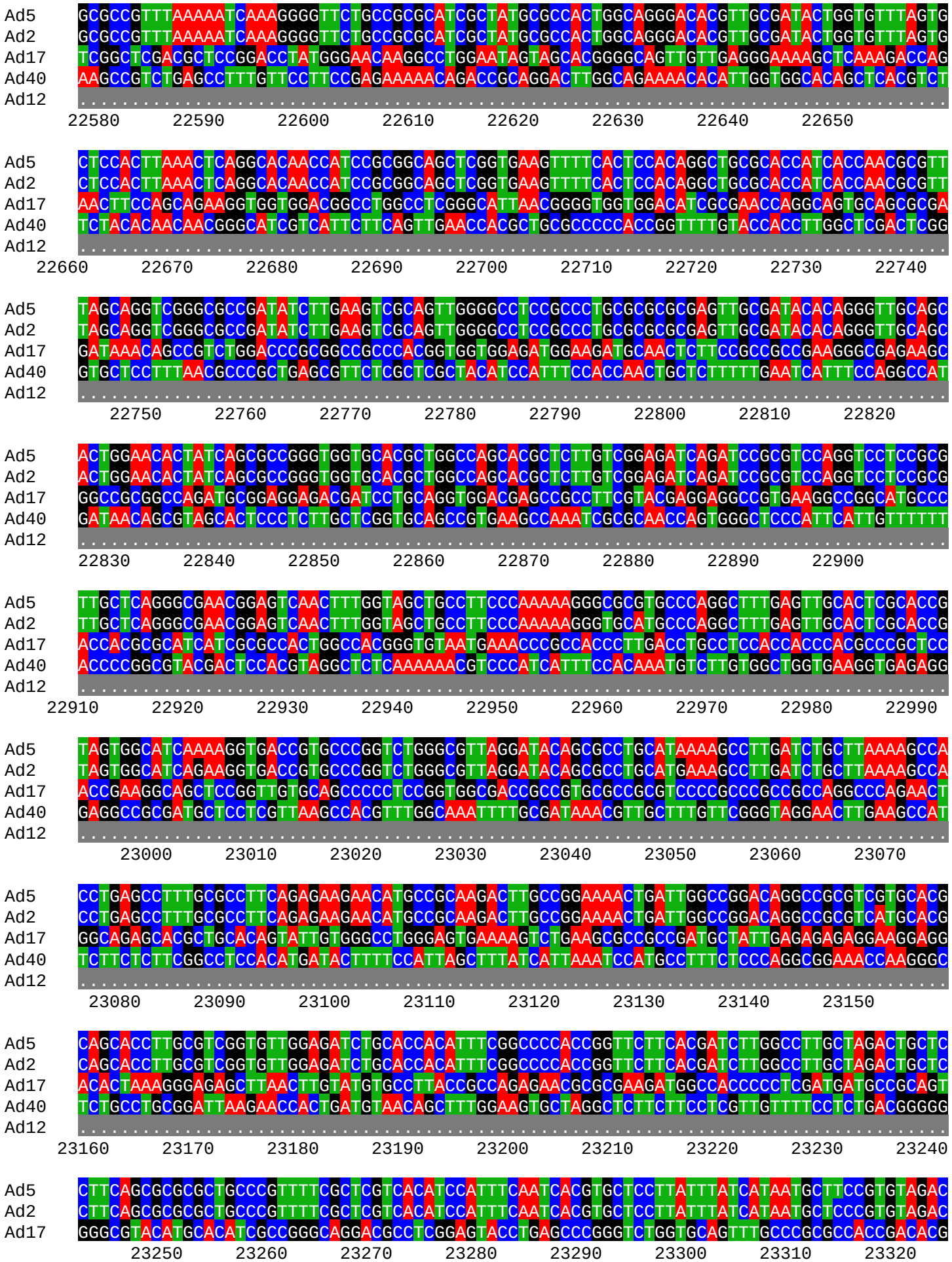

Ad40
Ad12
19010 19020 19030 19040 19050 19060 19070 19080 19090
Ad5
Ad2
Ad17
Ad40
Ad12
19100 19110 19120 19130 19140 19150 19160 19170
Ad5
Ad2
Ad17
Ad40
Ad12
19180 19190 19200 19210 19220 19230 19240 19250
Ad5
Ad2
Ad17
Ad40
Ad12
19260 19270 19280 19290 19300 19310 19320 19330
Ad5
Ad2
Ad17
Ad40
Ad12
19340 19350 19360 19370 19380 19390 19400 19410 19420
Ad5
Ad2
Ad17
Ad40
Ad12
19430 19440 19450 19460 19470 19480 19490 19500
Ad5
Ad2
Ad17
Ad40
Ad12
19510 19520 19530 19540 19550 19560 19570 19580
Ad5
Ad2
Ad17
Ad40
Ad12
19590 19600 19610 19620 19630 19640 19650 19660 19670
Ad5
Ad2
Ad17
Ad40
Ad12
19680 19690 19700 19710 19720 19730 19740 19750

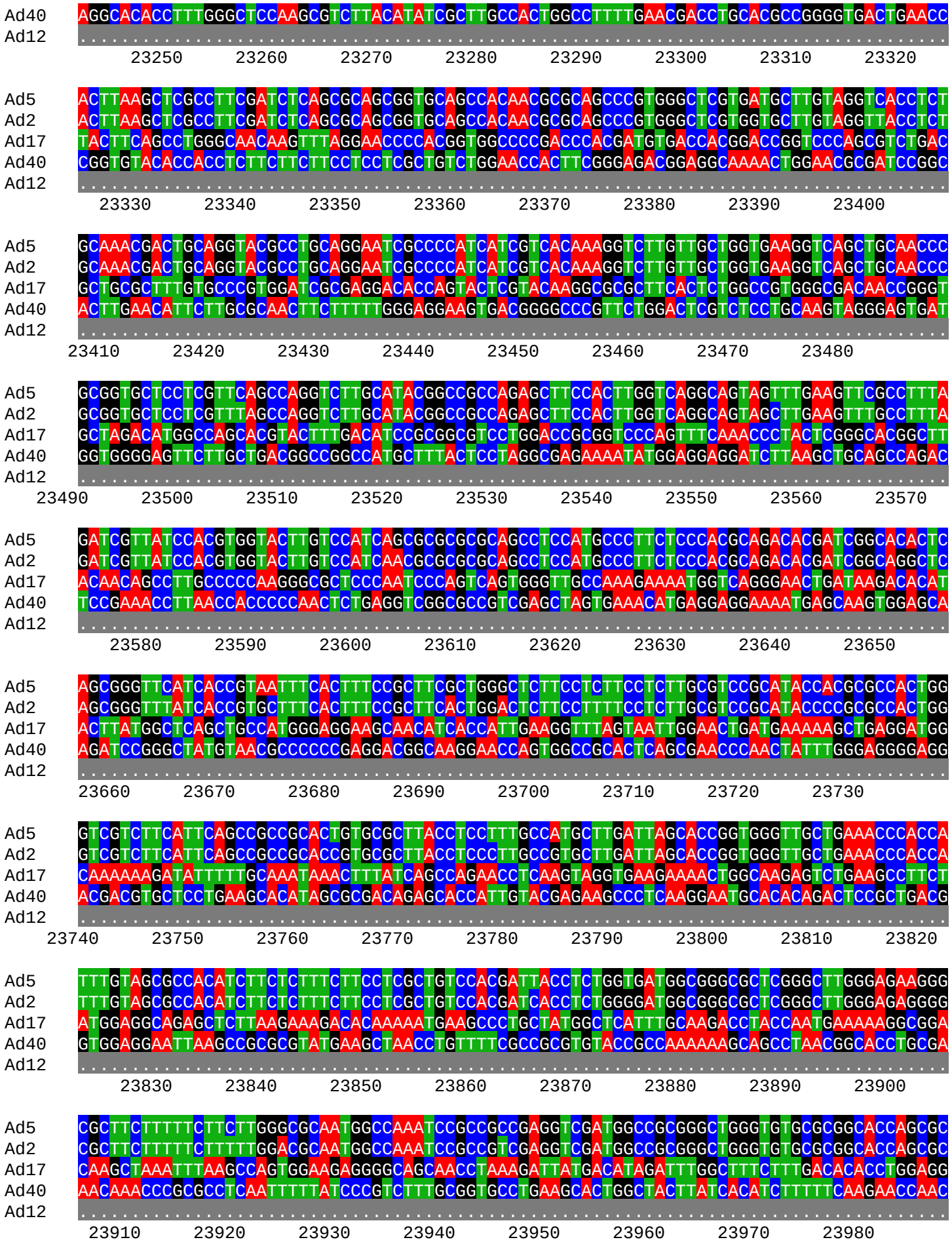

Ad5
Ad2
Ad17
Ad40
Ad12
19760 19770 19780 19790 19800 19810 19820 19830
19840 19850 19860 19870 19880 19890 19900 19910 19920
19930 19940 19950 19960 19970 19980 19990 20000
20010 20020 20030 20040 20050 20060 20070 20080
20090 20100 20110 20120 20130 20140 20150 20160
20170 20180 20190 20200 20210 20220 20230 20240 20250
20260 20270 20280 20290 20300 20310 20320 20330
20340 20350 20360 20370 20380 20390 20400 20410
20420 20430 20440 20450 20460 20470 20480 20490 20500

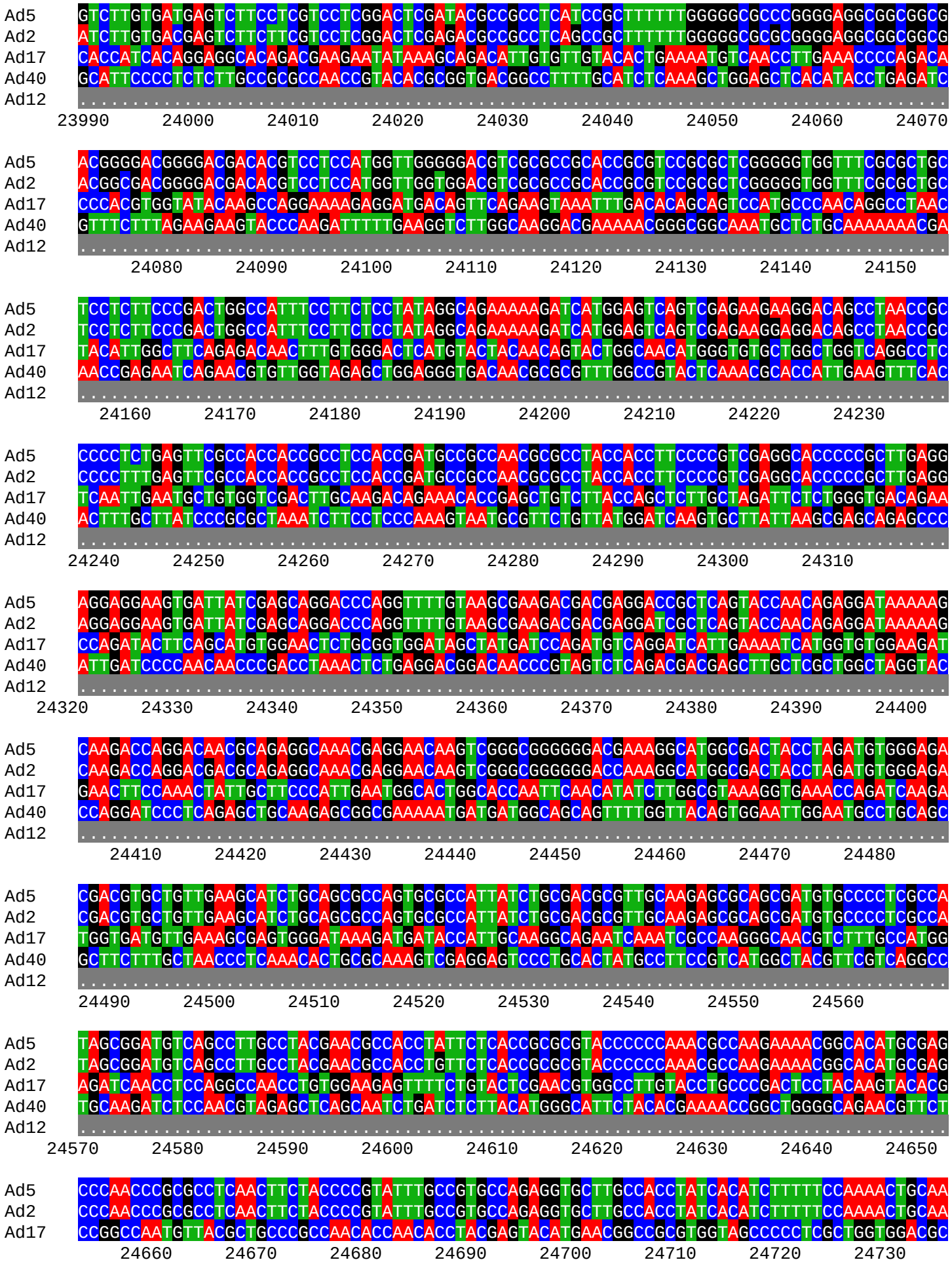

Ad40 GGCTGCTTTTCGGGGGTGGAGTTTTACTAGACTAAAAACTAAAGAAACCCCCTCTTTGGGGTCCGGGTTTGATCCATATTTCA
Ad12 ....
20420 20430 20440 20450 20460 20470 20480 20490 20500
Ad5 TGGTGGCTCCCGGGTTAGTGGACTGCTACATTAACCTTGGAGCACGCTGGTCCCTTGACTATATGGACAACGTCAACCCATTT
Ad2 TGGTGGCTCCCGGGCTTGTAGACTGCTACATTAACCTTGGGGCGCGCTGGTCTCTGGACTACATGGACAACGTTAATCCCTTT
Ad17 GCCGACGCGCGCAACTATACTCCC...
Ad40 CCTACTCTGGCTCCGTCCCATACTTGGATGGCACCTTTTACCTGAACCACACTTTTAAAAAGGTGTCCGTTATGTTCGACTCC
Ad12 ....
20510 20520 20530 20540 20550 20560 20570 20580
Ad5 AACCACCACCGCAATGCTGGCCTGCGCTACCGCTCAATGTTGCTGGGCAATGGTCGCTATGTGCCCTTCCACATCCAGGTGCC
Ad2 AACCACCACCGCAATGCGGGCCTCCGTTATCGCTCCATGTTGTTGGGAAACGGCCGCTACGTGCCCTTTCACATTCAGGTGCC
Ad17 ....
Ad40 TCTGTGAGCTGGCCTGGTAACGACCGACTACTTACTCCCAACGAGTTTGAAATCAAACGAACCGTGGATGGGGAAGGATACAA
Ad12 ....
20590 20600 20610 20620 20630 20640 20650 20660
Ad5 TCAGAAGTTCTTTGCCATTAAAAACCTCCTTCTCCTGCCGGGCTCATACACCTACGAGTGGAACTTCAGGAAGGATGTTAACA
Ad2 CCAAAAGTTTTTTGCCATTAAAAACCTCCTCCTCCTGCCAGGCTCATATACATATGAATGGAACTTCAGGAAGGATGTTAACA
Ad17 ....GCCCCTTCGACCGTG
Ad40 CGTGGCTCAATGTAACATGACCAAGGACTGGTTCCTCATACAAATGCTCAGTCACTACAATATTGGCTACCAGGGTTTCCACG
Ad12 ....
20670 20680 20690 20700 20710 20720 20730 20740 20750
Ad5 TGGTTCTGCAGAGCTCCCTAGGAAATGACCTAAGGGTTGACGGAGCCAGCATTAAGTTTGATAGCATTTGCCTTTACGCCACC
Ad2 TGGTTCTGCAGAGCTCTCTGGGAAACGATCTTAGAGTTGACGGGGCTAGCATTAAGTTTGACAGCATTTGTCTTTACGCCACC
Ad17 GACGCGGTTCATTGACAGCGTGGTGGCGACGCGGCGGCGATATGCCAGACGCAAGAGCCGGCGGGCGGACGGATCGCCCAGGC
Ad40 TACCAGAAAGCTACAAGGACAGGATGTACTCCTTTTTCCGAAACTTCCAACCCATGAGCCGCCAGGTGGTAGACACTACCACC
Ad12 ....
20760 20770 20780 20790 20800 20810 20820 20830
Ad5 TTCTTCCCCATGGCCCACAACACCGCCTCCACGCTTGAGGCCATGCTTAGAAACGACACCAACGACCAGTCCTTTAACGACTA
Ad2 TTCTTCCCCATGGCCCACAACACGGCCTCCACGCTGGAAGCCATGCTCAGAAATGACACCAACGACCAGTCCTTTAATGACTA
Ad17 GCCATTCGGAGCACGCCCGCCATGGGGCGCCGCCCGAGCTCTGCTGCGCCGCGCCAGACGCACGGGCCGCCGGGCCATGATGC
Ad40 TACACGGAGTATCAGAATGTAACTCTCCCTTTCCAGCATAATAACTCTGGCTTTGTAGGATACATGGGACCTGCCATACGGGA
Ad12 ....
20840 20850 20860 20870 20880 20890 20900 20910
Ad5 TCTCTCCGCCGCCAACATGCTCTACCCTATACCCGCCAACGCTACCAACGTGCCCATATCCATCCCCTCCCGCAACTGGGCGG
Ad2 CCTTTCCGCCGCCAACATGCTATACCCCATACCCGCCAACGCCACCAACGTGCCCATCTCCATCCCATCGCGCAACTGGGCAG
Ad17 GAGCCGCGCGCCGCGCCGCCACTGCACCCCCCGCAGGCAGGACTCGCAGACGAGCGGCCGCCGCCGCCGCCGCGGCCATCTCT
Ad40 GGGACAAGCTTACCCCGCCAACTATCCATACCCCCTTATTGGTCAGACGGCCGTACCAAGCCTGACTCAGAAAAAATTTCTTT
Ad12 ....
20920 20930 20940 20950 20960 20970 20980 20990
Ad5 CTTTCCGCGGCTGGGCCTTCACGCGCCTTAAGACTAAGGAAACCCCATCACTGGGCTCGGGCTACGACCCTTATTACACCTAC
Ad2 CATTTCGCGGTTGGGCCTTCACACGCTTGAAGACAAAGGAAACCCCTTCCCTGGGATCAGGCTACGACCCTTACTACACCTAC
Ad17 AGCATGACCAGACCCAGGCGCGGAAACGTGTACTGGGTGCGCGACTCCGTCACGGGCGTGCGCGTGCCCGTGCGCACCCGTCC
Ad40 GCGATCGTACCATGTGGCGCATTCCCTTTTCCAGCAACTTTATGTCTATGGGGGCCCTGACCGACCTGGGGCAAAACATGCTG
Ad12 ....
21000 21010 21020 21030 21040 21050 21060 21070 21080
Ad5 TCTGGCTCTATACCCTACCTAGATGGAACCTTTTACCTCAACCACACCTTTAAGAAGGTGGCCATTACCTTTGACTCTTCTGT
Ad2 TCTGGCTCCATACCATACCTTGACGGAACCTTCTATCTTAATCACACCTTTAAGAAGGTGGCCATTACCTTTGACTCTTCTGT
Ad17 TCCTCGTCCCTGATCTAATGCTTGTGTCCTCCCCCGCAAGCGACGATGTCAAAGCGCATCTACAAGAGAGATGCTCCAGGTCG
Ad40 TACGCCAACTCCGCCCACGCGCTCGACATGACTTTTGAGGTGGACCCCATGGATGAGCCCACACTTCTCTATGTTCTGTTCGA
Ad12 ....
21090 21100 21110 21120 21130 21140 21150 21160

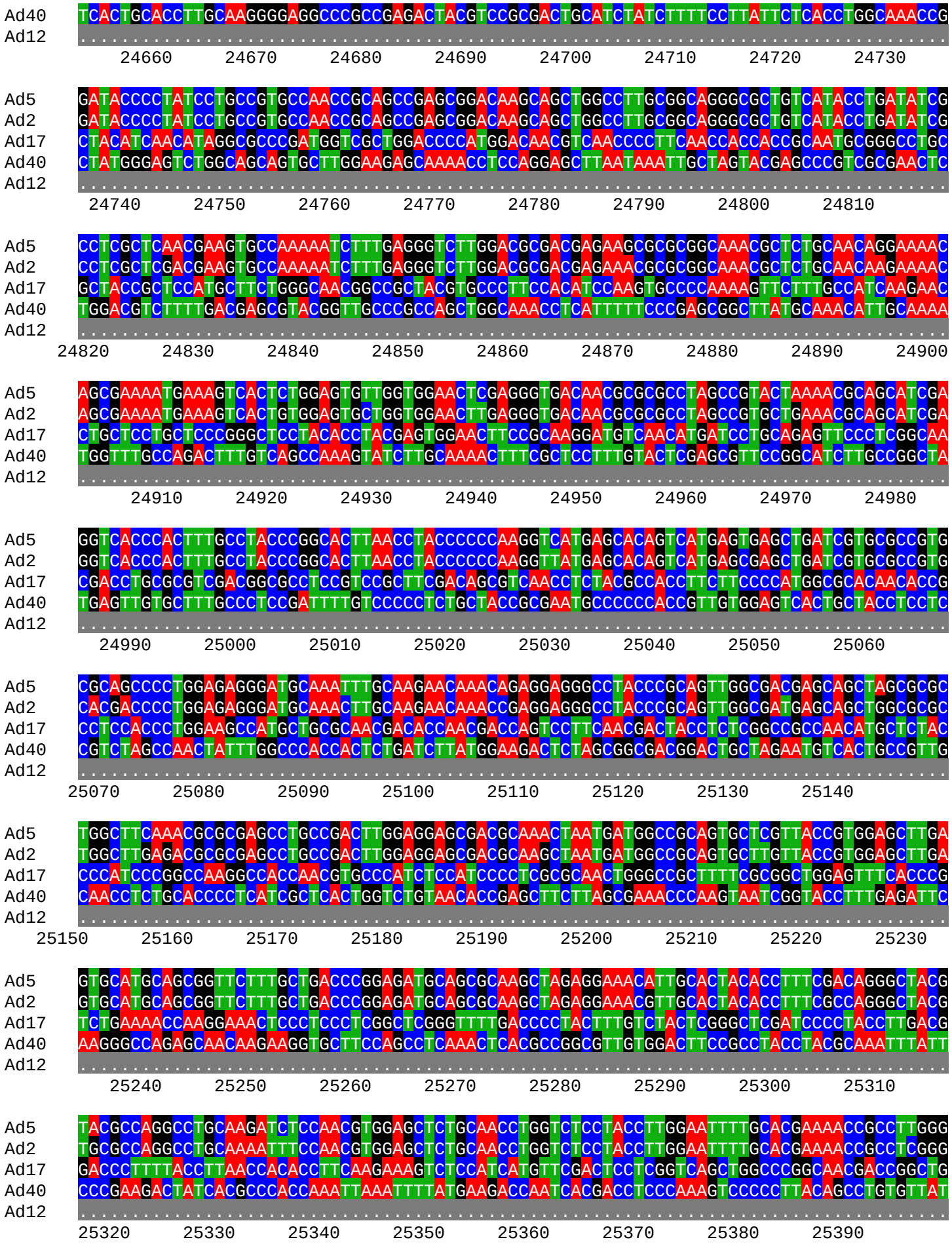

Ad5
Ad2
Ad17
Ad40
Ad12
21170 21180 21190 21200 21210 21220 21230 21240
21250 21260 21270 21280 21290 21300 21310 21320 21330
21340 21350 21360 21370 21380 21390 21400 21410
21420 21430 21440 21450 21460 21470 21480 21490
21500 21510 21520 21530 21540 21550 21560 21570 21580
21590 21600 21610 21620 21630 21640 21650 21660
21670 21680 21690 21700 21710 21720 21730 21740
21750 21760 21770 21780 21790 21800 21810 21820
21830 21840 21850 21860 21870 21880 21890 21900 21910

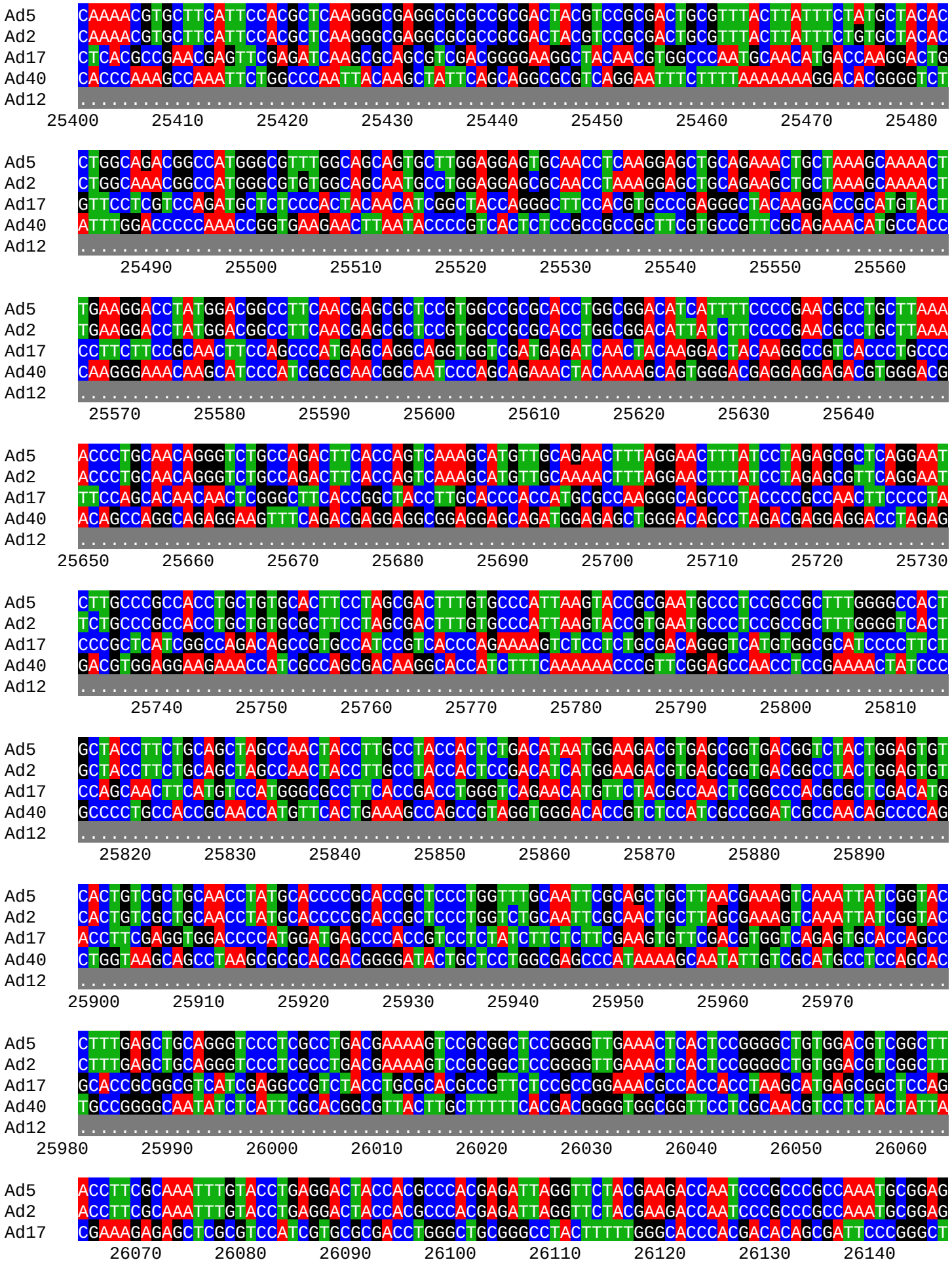

Ad40 GGCCCACCAGTCCCATGGAGCGCAACCCCACCATGGACCTTCTTACCGGCGTTCCAAACAGCATGCTTCAAAGCCCCCAGGTT
Ad12 ....
21830 21840 21850 21860 21870 21880 21890 21900 21910
Ad5 TCTTGGTTGTGGGCCATATTTTTTTGGGCACCTATGACAAGCGCTTTCCAGGCTTTGTTTCTCCACACAAGCTCGCCTGCGCCA
Ad2 TCTTGGTTGTGGGCCATATTTTTTTGGGCACCTATGACAAGCGCTTTCCAGGCTTTGTTTCTCCACACAAGCTCGCCTGCGCCA
Ad17 TGATGCCCAACTACGTGTTGCATCCTTCCATTATCCCGACGCCGGGCTACCGCGGCACCCGGTACTACGCCAGCCGCAGGCGC
Ad40 GTACCCACCCTGCGTCACAACCAGGAGCGGTTGTACCGTTTCCTGGCGCAACGTTCTCCCTACTTTCAGCGTCATTGCGAGCG
Ad12 ....
21920 21930 21940 21950 21960 21970 21980 21990
Ad5 TAGTCAATACGGCCGGTCGCGAGACTGGGGGCGTACACTGGATGGCCTTTGCCTGGAACCCGCACTCAAAAACATGCTACCTC
Ad2 TAGTCAATACGGCCGGTCGCGAGACTGGGGGCGTACACTGGATGGCCTTTGCCTGGAACCCGCGCTCAAAAACATGCTACCTC
Ad17 CCAGCCAGCAAACGCCGCCGCCGCACCGCCACCCGCCGCCGTCTGCCCCCCGCCCGCGTGCGCCGCGTAACCAACGCGCCGGG
Ad40 TATCAAAAAAGCCACCGCGTTTGACCAAATGAAAAACAACATGTAACGGTTCAATAAAAGCTTTTATTGATTCAAAAAATTCA
Ad12 ....
22000 22010 22020 22030 22040 22050 22060 22070
Ad5 TTTGAGCCCTTTGGCTTTTCTGACCAGCGACTCAAGCAGGTTTACCAGTTTGAGTACGAGTCACTCCTGCGCCGTAGCGCCAT
Ad2 TTTGAGCCCTTTGGCTTTTCTGACCAACGACTCAAGCAGGTTTACCAGTTTGAGTACGAGTCACTCCTGCGCCGTAGCGCCAT
Ad17 GCCGCTCGCTCGTTCTGCCCACCGTGCGCTACCACCCCAGCATCCTTTAATCCGTGTGCTGTGATACTGTTGCAGAGAGATGG
Ad40 TGCATGCAGACTTTTTATTTTAAAATGGTTCTTTCTCCCCATCGCCGTGGCTGGCGGGCAAAGCTACGTTGCGATACTGCAAA
Ad12 ....
22080 22090 22100 22110 22120 22130 22140 22150 22160
Ad5 TGCTTCTTCCCCCGACCGCTGTATAACGCTGGAAAAGTCCACCCAAAGCGTACAGGGGCCCAACTCGGCCGCCTGTGGACTAT
Ad2 TGCTTCTTCCCCCGACCGCTGTATAACGCTGGAAAAGTCCACCCAAAGCGTGCAGGGGCCCAACTCGGCCGCCTGTGGACTAT
Ad17 CTCTCACTTGCCGCCTGCGCATCCCCGTTCCGAATTACCGAGGAAGATCCCGCCGCAGGAGAGGCATGGCAGGCAGCGGCCTG
Ad40 CGAGAGGACCACTTAAATTCTGGAATCAGCATCTTAGGAAGGGGGCCATCGACGTTCTCTCCCCACAGCCGTCGTACAAGTTG
Ad12 ....
22170 22180 22190 22200 22210 22220 22230 22240
Ad5 TCTGCTGCATGTTTCTCCACGCCTTTGCCAACTGGCCCCAAACTCCCATGGATCACAACCCCACCATGAACCTTATTACCGGG
Ad2 TCTGCTGCATGTTTCTCCACGCCTTTGCCAACTGGCCCCAAACTCCCATGGATCACAACCCCACCATGAACCTTATTACCGGG
Ad17 AACCGCCGCCGGCGGCGGGCCATGCGCAGGCGCCTGAGTGGCGGCTTTCTGCCCGCGCTCATCCCCATAATCGCGGCGGCCAT
Ad40 CAAAGCTCCCAAAAGGTCAGGTGCAGAAATTTTGAAATCACAGTTGGGACCTTGGCCACCACGGGAGTTGCGGTATACGGGGT
Ad12 ....
22250 22260 22270 22280 22290 22300 22310 22320
Ad5 GTACCCAACTCCATGCTCAACAGTCCCCAGGTACAGCCCACCCTGCGTCGCAACCAGGAACAGCTCTACAGCTTCCTGGAGCG
Ad2 GTACCCAACTCCATGCTTAACAGTCCCCAGGTACAGCCCACCCTGCGTCGCAACCAGGAACAGCTCTACAGCTTCCTGGAGCG
Ad17 CGGCACGATCCCGGGCATAGCTTCCGTTGCGCTGCAGGCGTCGCAGCGCCGTTGATGTGCGAATAAAGCCTCTTTAGACTCTG
Ad40 TAGCGCACTGGTAAACCAGCACACAGGGATACTGGATACTGGCAAGAGCCACCTTGTCGGTTACTTCTTCAGCTCTAAGACTG
Ad12 ....
22330 22340 22350 22360 22370 22380 22390 22400 22410
Ad5 CCACTCGCCCTACTTCCGCAGCCACAGTGCGCAGATTAGGAGCGCCACTTCTTTTTGTCACTTGAAAAACATGTAAAAATAAT
Ad2 CCACTCGCCCTACTTCCGCAGCCACAGTGCGCAGATTAGGAGCGCCACTTCTTTTTGTCACTTGAAAAACATGTAAAAATAAT
Ad17 ACACACCTGGTCCTGTATATTTTTAGAATGGAAGACATCAATTTTGCGTCCCTGGCTCCGCGGCACGGCACGCGGCCGTTCAT
Ad40 TCAACATTGCTTAGAGCGAAAGGGGTGGCTTTACACATTTGCCGACCCAATTGGGGCACACCGGTGGGCTTGTACAGGCAGTC
Ad12 ....
22420 22430 22440 22450 22460 22470 22480 22490
Ad5 GTACTAG.AGACACTTTCAATAAAGGCAAATGCTTTTATTTGTACACTCTCGGGTGATTATTTACCCCC.ACCCTTGCCGTCT
Ad2 GTACTAGGAGACACTTTCAATAAAGGCAAATGTTTTTATTTGTACACTCTCGGGTGATTATTTACCCCCCACCCTTGCCGTCT
Ad17 GGGCACCTGGAACGAGATCGGCACCAGCCAGCTGAACGGGGGCGCCTTCAATTGGAGCAGTGTCTGGAGCGGGCTTAAAAATT
Ad40 GCAGCGCATCACCATTAATAGGCGTTTTAGCCCGTTTTGCATTTTTGGATATTCGGCTTGCATAAAAGCTTCTATCTGCAAAA
Ad12 ....
22500 22510 22520 22530 22540 22550 22560 22570

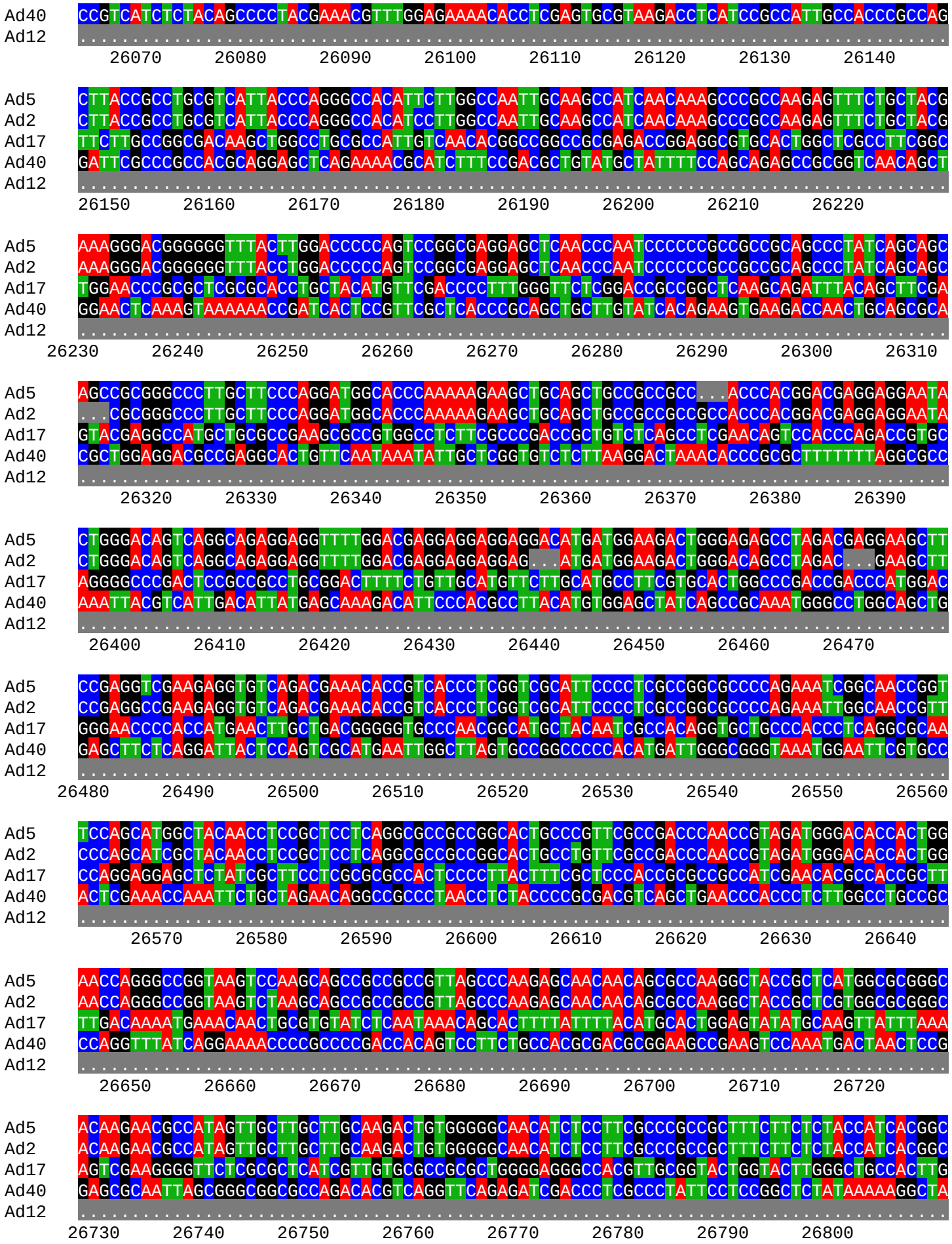

Ad5
Ad2
Ad17
Ad40
Ad12
22580 22590 22600 22610 22620 22630 22640 22650
22660 22670 22680 22690 22700 22710 22720 22730 22740
22750 22760 22770 22780 22790 22800 22810 22820
22830 22840 22850 22860 22870 22880 22890 22900
22910 22920 22930 22940 22950 22960 22970 22980 22990
23000 23010 23020 23030 23040 23050 23060 23070
23080 23090 23100 23110 23120 23130 23140 23150
23160 23170 23180 23190 23200 23210 23220 23230 23240
23250 23260 23270 23280 23290 23300 23310 23320

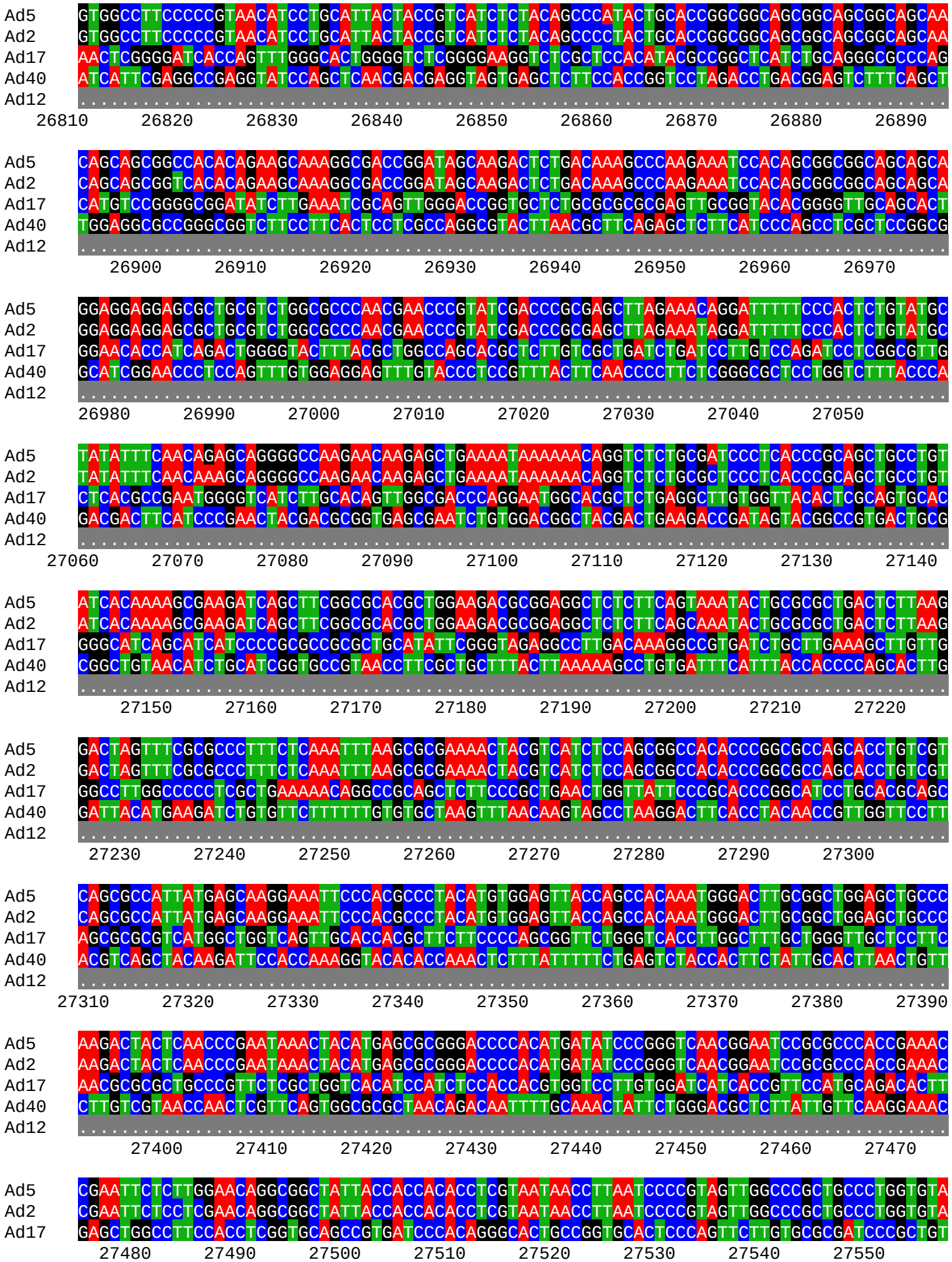

Ad40 AGGCACACCTTTGGGCTCCAAGCGTCTTACATATCGCTTGCCACTGGCCTTTTGAACGACCTGCACGCCGGGGTGACTGAACC
Ad12 ....
23250 23260 23270 23280 23290 23300 23310 23320
Ad5 ACTTAAGCTCGCCTTCGATCTCAGCGCAGCGGTGCAGCCACAACGCGCAGCCCGTGGGCTCGTGATGCTTGTAGGTCACCTCT
Ad2 ACTTAAGCTCGCCTTCGATCTCAGCGCAGCGGTGCAGCCACAACGCGCAGCCCGTGGGCTCGTGGTGCTTGTAGGTTACCTCT
Ad17 TACTTCAGCCTGGGCAACAAGTTTAGGAACCCCACGGTGGCCCCGACCCACGATGTGACCACGGACCGGTCCCAGCGTCTGAC
Ad40 CGGTGTACACCACCTCTTCTTCTTCCTCCTCGCTGTCTGGAACCACTTCGGGAGACGGAGGCAAAACTGGAACGCGATCCGGC
Ad12 ....
23330 23340 23350 23360 23370 23380 23390 23400
Ad5 GCAAACGACTGCAGGTACGCCTGCAGGAATCGCCCCATCATCGTCACAAAGGTCTTGTTGCTGGTGAAGGTCAGCTGCAACCC
Ad2 GCAAACGACTGCAGGTACGCCTGCAGGAATCGCCCCATCATCGTCACAAAGGTCTTGTTGCTGGTGAAGGTCAGCTGCAACCC
Ad17 GCTGCGCTTTGTGCCCGTGGATCGCGAGGACACCAGTACTCGTACAAGGCGCGCTTCACTCTGGCCGTGGGCGACAACCGGGT
Ad40 ACTTGAACATTCTTGCGCAACTTCTTTTTGGGAGGAAGTGACGGGGCCCGTTCTGGACTCGTCTCCTGCAAGTAGGGAGTGAT
Ad12 ....
23410 23420 23430 23440 23450 23460 23470 23480
Ad5 GCGGTGCTCCTCGTTCAGCCAGGTCTTGCATACGGCCGCCAGAGCTTCCACTTGGTCAGGCAGTAGTTTGAAGTTCGCCTTTA
Ad2 GCGGTGCTCCTCGTTTAGCCAGGTCTTGCATACGGCCGCCAGAGCTTCCACTTGGTCAGGCAGTAGCTTGAAGTTTGCCTTTA
Ad17 GCTAGACATGGCCAGCACGTACTTTGACATCCGCGGCGTCCTGGACCGCGGTCCCAGTTTCAAACCCTACTCGGGCACGGCTT
Ad40 GGTGGGGAGTTCTTGCTGACGGCCGGCCATGCTTTACTCCTAGGCGAGAAAATATGGAGGAGGATCTTAAGCTGCAGCCAGAC
Ad12 ....
23490 23500 23510 23520 23530 23540 23550 23560 23570
Ad5 GATCGTTATCCACGTGGTACTTGTCCATCAGCGCGCGCGCAGCCTCCATGCCCTTCTCCCACGCAGACACGATCGGCACACTC
Ad2 GATCGTTATCCACGTGGTACTTGTCCATCAACGCGCGCGCAGCCTCCATGCCCTTCTCCCACGCAGACACGATCGGCAGGCTC
Ad17 ACAACAGCCTTGCCCCCAAGGGCGCTCCCAATCCCAGTCAGTGGGTTGCCAAAGAAAATGGTCAGGGAACTGATAAGACACAT
Ad40 TCCGAAACCTTAACCACCCCCAACTCTGAGGTCGGCGCCGTCGAGCTAGTGAAACATGAGGAGGAAAATGAGCAAGTGGAGCA
Ad12 ....
23580 23590 23600 23610 23620 23630 23640 23650
Ad5 AGCGGGTTCATCACCGTAATTTCACTTTCCGCTTCGCTGGGCTCTTCCTCTTCCTCTTGCGTCCGCATACCACGCGCCACTGG
Ad2 AGCGGGTTTATCACCGTGCTTTCACTTTCCGCTTCACTGGACTCTTCCTTTTCCTCTTGCGTCCGCATACCCCGCGCCACTGG
Ad17 ACTTATGGCTCAGCTGCCATGGGAGGAAGCAACATCACCATTGAAGGTTTAGTAATTGGAACTGATGAAAAAGCTGAGGATGG
Ad40 AGATCCGGGCTATGTAACGCCCCCCGAGGACGGCAAGGAACCAGTGGCCGCACTCAGCGAACCCAACTATTTGGGAGGGGAGG
Ad12 ....
23660 23670 23680 23690 23700 23710 23720 23730
Ad5 GTCGTCTTCATTCAGCCGCCGCACTGTGCGCTTACCTCCTTTGCCATGCTTGATTAGCACCGGTGGGTTGCTGAAACCCACCA
Ad2 GTCGTCTTCATTCAGCCGCCGCACCGTGCGCTTACCTCCCTTGCCGTGCTTGATTAGCACCGGTGGGTTGCTGAAACCCACCA
Ad17 CAAAAAAGATATTTTTGCAAATAAACTTTATCAGCCAGAACCTCAAGTAGGTGAAGAAAACTGGCAAGAGTCTGAAGCCTTCT
Ad40 ACGACGTGCTCCTGAAGCACATAGCGCGACAGAGCACCATTGTACGAGAAGCCCTCAAGGAATGCACACAGACTCCGCTGACG
Ad12 ....
23740 23750 23760 23770 23780 23790 23800 23810 23820
Ad5 TTTGTAGCGCCACATCTTCTCTTTCTTCCTCGCTGTCCACGATTACCTCTGGTGATGGCGGGCGCTCGGGCTTGGGAGAAGGG
Ad2 TTTGTAGCGCCACATCTTCTCTTTCTTCCTCGCTGTCCACGATCACCTCTGGGGATGGCGGGCGCTCGGGCTTGGGAGAGGGG
Ad17 ATGGAGGCAGAGCTCTTAAGAAAGACACAAAAATGAAGCCCTGCTATGGCTCATTTGCAAGACCTACCAATGAAAAAGGCGGA
Ad40 GTGGAGGAATTAAGCCGCGCGTATGAAGCTAACCTGTTTTCGCCGCGTGTACCGCCAAAAAAGCAGCCTAACGGCACCTGCGA
Ad12 ....
23830 23840 23850 23860 23870 23880 23890 23900
Ad5 CGCTTCTTTTTCTTCTTGGGCGCAATGGCCAAATCCGCCGCCGAGGTCGATGGCCGCGGGCTGGGTGTGCGCGGCACCAGCGC
Ad2 CGCTTCTTTTTCTTTTTGGACGCAATGGCCAAATCCGCCGTCGAGGTCGATGGCCGCGGGCTGGGTGTGCGCGGCACCAGCGC
Ad17 CAAGCTAAATTTAAGCCAGTGGAAGAGGGGCAGCAACCTAAAGATTATGACATAGATTTGGCTTTCTTTGACACACCTGGAGG
Ad40 AACAAACCCGCGCCTCAATTTTTATCCCGTCTTTGCGGTGCCTGAAGCACTGGCTACTTATCACATCTTTTTCAAGAACCAAC
Ad12 ....
23910 23920 23930 23940 23950 23960 23970 23980

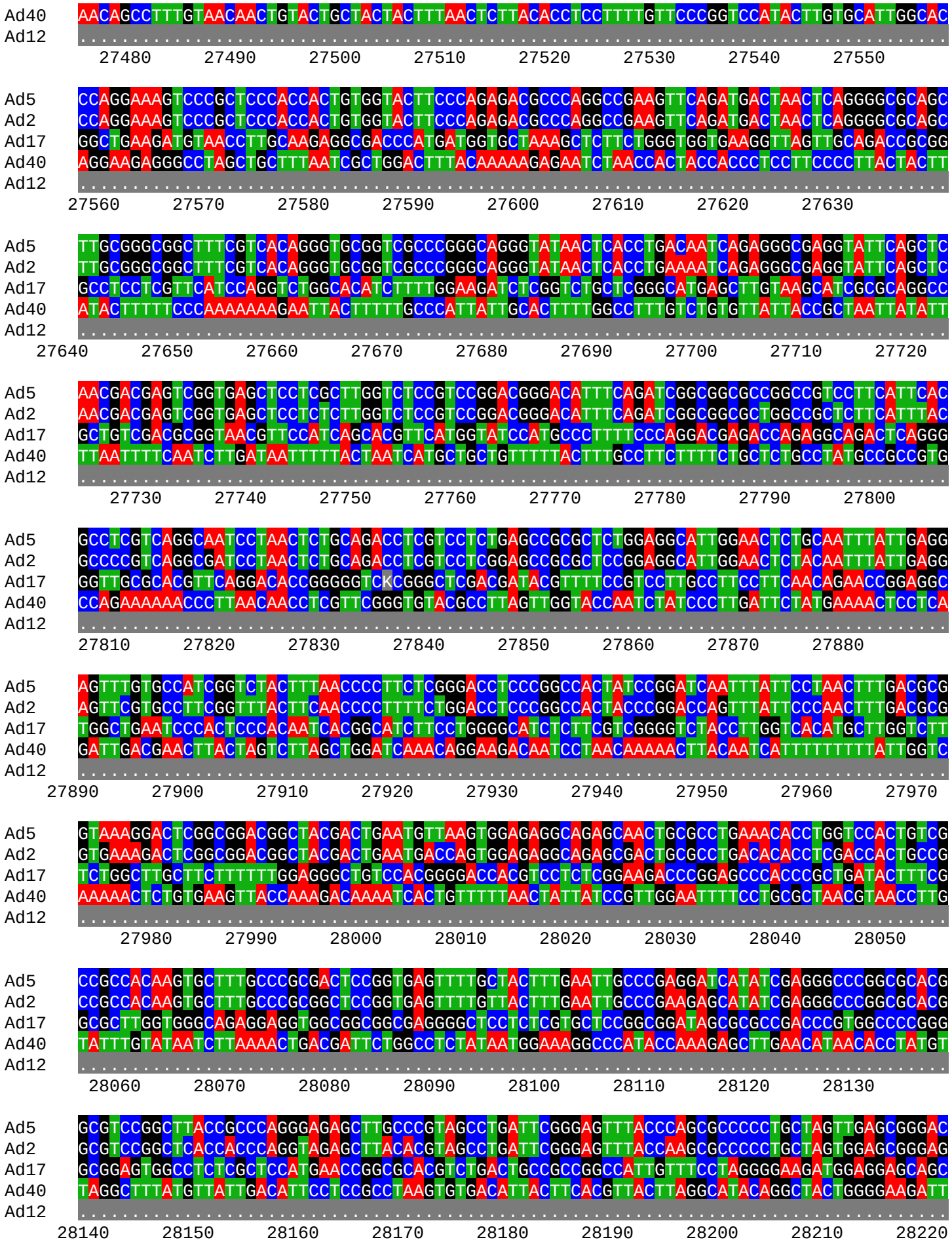

Ad5
Ad2
Ad17
Ad40
Ad12
23990 24000 24010 24020 24030 24040 24050 24060 24070
24080 24090 24100 24110 24120 24130 24140 24150
24160 24170 24180 24190 24200 24210 24220 24230
24240 24250 24260 24270 24280 24290 24300 24310
24320 24330 24340 24350 24360 24370 24380 24390 24400
24410 24420 24430 24440 24450 24460 24470 24480
24490 24500 24510 24520 24530 24540 24550 24560
24570 24580 24590 24600 24610 24620 24630 24640 24650
24660 24670 24680 24690 24700 24710 24720 24730

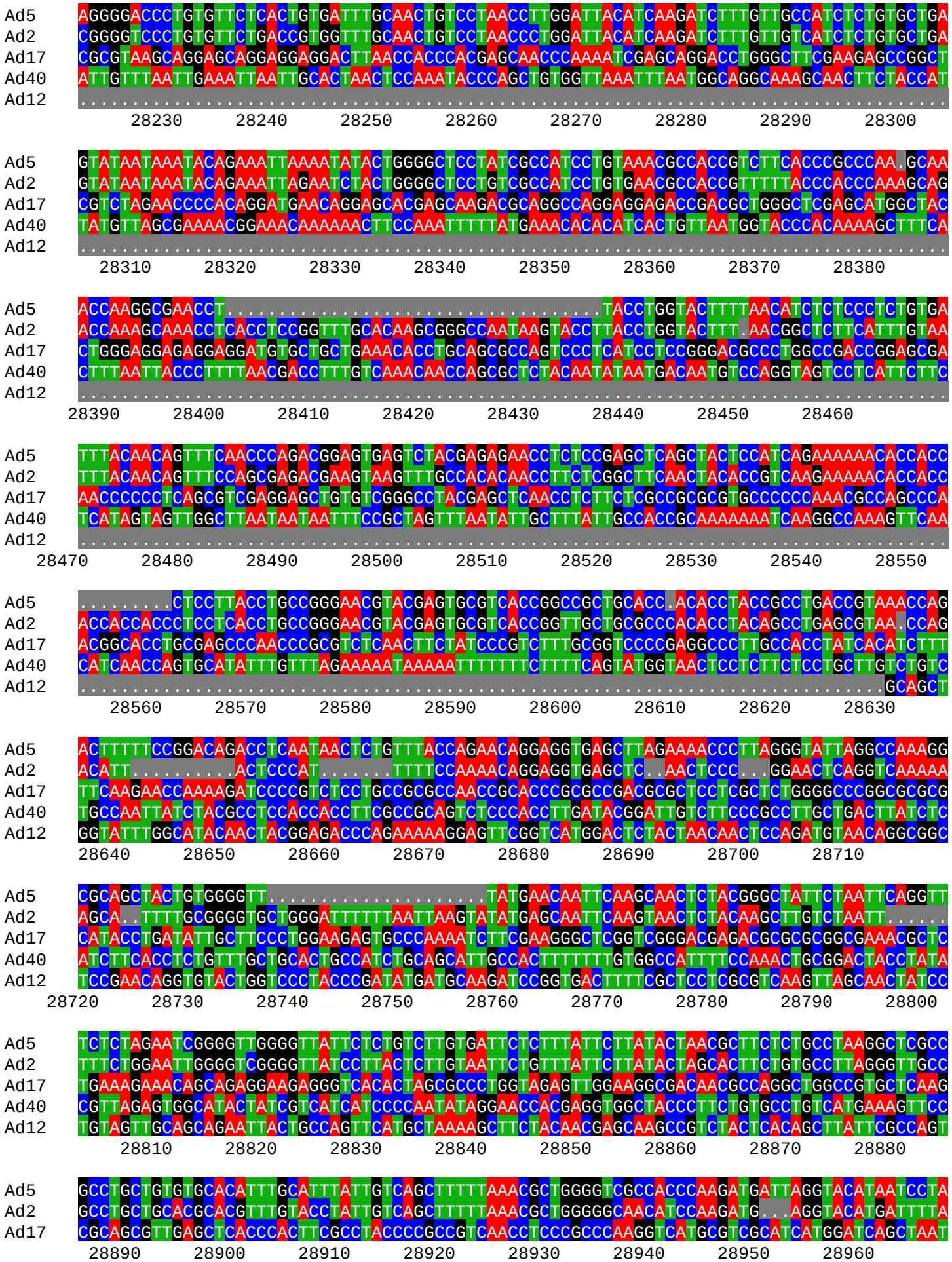

Ad40 TCACTGCACCTTGCAAGGGGAGGCCCGCCGAGACTACGTCCGCGACTGCATCTATCTTTTCCTTATTCTCACCTGGCAAACCG
Ad12 ..... 24660 24670 24680 24690 24700 24710 24720 24730
Ad5 GATACCCCTATCCTGCCGTGCCAACCGCAGCCGAGCGGACAAGCAGCTGGCCTTGCGGCAGGGCGCTGTCATACCTGATATCG
Ad2 GATACCCCTATCCTGCCGTGCCAACCGCAGCCGAGCGGACAAGCAGCTGGCCTTGCGGCAGGGCGCTGTCATACCTGATATCG
Ad17 CTACATCAACATAGGCGCCCGATGGTCGCTGGACCCCATGGACAACGTCAACCCCTTCAACCACCACCGCAATGCGGGCCTGC
Ad40 CTATGGGAGTCTGGCAGCAGTGCTTGGAAGAGCAAAACCTCCAGGAGCTTAATAAATTGCTAGTACGAGCCCGTCGCGAACTC
Ad12 ..... 24740 24750 24760 24770 24780 24790 24800 24810
Ad5 CCTCGCTCAACGAAGTGCCAAAAATCTTTGAGGGTCTTGGACGCGACGAGAAGCGCGCGGCAAACGCTCTGCAACAGGAAAAC
Ad2 CCTCGCTCGACGAAGTGCCAAAAATCTTTGAGGGTCTTGGACGCGACGAGAAACGCGCGGCAAACGCTCTGCAACAAGAAAAC
Ad17 GCTACCGCTCCATGCTTCTGGGCAACGGCCGCTACGTGCCCTTCCACATCCAAGTGCCCCAAAAGTTCTTTGCCATCAAGAAC
Ad40 TGGACGTCTTTTGACGAGCGTACGGTTGCCCGCCAGCTGGCAAACCTCATTTTTCCCGAGCGGCTTATGCAAACATTGCAAAA
Ad12 ..... 24820 24830 24840 24850 24860 24870 24880 24890 24900
Ad5 AGCGAAAATGAAAGTCACTCTGGAGTGTTGGTGGAACTCGAGGGTGACAACGCGCGCCTAGCCGTACTAAAACGCAGCATCGA
Ad2 AGCGAAAATGAAAGTCACTGTGGAGTGCTGGTGGAACTTGAGGGTGACAACGCGCGCCTAGCCGTGCTGAAACGCAGCATCGA
Ad17 CTGCTCCTGCTCCCGGGCTCCTACACCTACGAGTGGAACTTCCGCAAGGATGTCAACATGATCCTGCAGAGTTCCCTCGGCAA
Ad40 TGGTTTGCCAGACTTTGTCAGCCAAAGTATCTTGCAAAACTTTCGCTCCTTTGTACTCGAGCGTTCCGGCATCTTGCCGGCTA
Ad12 ..... 24910 24920 24930 24940 24950 24960 24970 24980
Ad5 GGTCACCCACTTTGCCTACCCGGCACTTAACCTACCCCCCAAGGTCATGAGCACAGTCATGAGTGAGCTGATCGTGCGCCGTG
Ad2 GGTCACCCACTTTGCCTACCCGGCACTTAACCTACCCCCCAAGGTTATGAGCACAGTCATGAGCGAGCTGATCGTGCGCCGTG
Ad17 CGACCTGCGCGTCGACGGCGCCTCCGTCCGCTTCGACAGCGTCAACCTCTACGCCACCTTCTTCCCCATGGCGCACAACACCG
Ad40 TGAGTTGTGCTTTGCCCTCCGATTTTGTCCCCCTCTGCTACCGCGAATGCCCCCCACCGTTGTGGAGTCACTGCTACCTCCTC
Ad12 ..... 24990 25000 25010 25020 25030 25040 25050 25060
Ad5 CGCAGCCCCTGGAGAGGGATGCAAATTTGCAAGAACAAACAGAGGAGGGCCTACCCGCAGTTGGCGACGAGCAGCTAGCGCGC
Ad2 CACGACCCCTGGAGAGGGATGCAAACTTGCAAGAACAAACCGAGGAGGGCCTACCCGCAGTTGGCGATGAGCAGCTGGCGCGC
Ad17 CCTCCACCCTGGAAGCCATGCTGCGCAACGACACCAACGACCAGTCCTTCAACGACTACCTCTCGGCCGCCAACATGCTCTAC
Ad40 CGTCTAGCCAACTATTTGGCCCACCACTCTGATCTTATGGAAGACTCTAGCGGCGACGGACTGCTAGAATGTCACTGCCGTTG
Ad12 ..... 25070 25080 25090 25100 25110 25120 25130 25140
Ad5 TGGCTTCAAACGCGCGAGCCTGCCGACTTGGAGGAGCGACGCAAACTAATGATGGCCGCAGTGCTCGTTACCGTGGAGCTTGA
Ad2 TGGCTTGAGACGCGCGAGCCTGCCGACTTGGAGGAGCGACGCAAGCTAATGATGGCCGCAGTGCTTGTTACCGTGGAGCTTGA
Ad17 CCCATCCCGGCCAAGGCCACCAACGTGCCCATCTCCATCCCCTCGCGCAACTGGGCCGCTTTTCGCGGCTGGAGTTTCACCCG
Ad40 CAACCTCTGCACCCCTCATCGCTCACTGGTCTGTAACACCGAGCTTCTTAGCGAAACCCAAGTAATCGGTACCTTTGAGATTC
Ad12 ..... 25150 25160 25170 25180 25190 25200 25210 25220 25230
Ad5 GTGCATGCAGCGGTTCTTTGCTGACCCGGAGATGCAGCGCAAGCTAGAGGAAACATTGCACTACACCTTTCGACAGGGCTACG
Ad2 GTGCATGCAGCGGTTCTTTGCTGACCCGGAGATGCAGCGCAAGCTAGAGGAAACGTTGCACTACACCTTTCGCCAGGGCTACG
Ad17 TCTGAAAACCAAGGAAACTCCCTCCCTCGGCTCGGGTTTTGACCCCTACTTTGTCTACTCGGGCTCGATCCCCTACCTTGACG
Ad40 AAGGGCCAGAGCAACAAGAAGGTGCTTCCAGCCTCAAACTCACGCCGGCGTTGTGGACTTCCGCCTACCTACGCAAATTTATT
Ad12 ..... 25240 25250 25260 25270 25280 25290 25300 25310
Ad5 TACGCCAGGCCTGCAAGATCTCCAACGTGGAGCTCTGCAACCTGGTCTCCTACCTTGGAATTTTGCACGAAAACCGCCTTGGG
Ad2 TGCGCCAGGCCTGCAAAATTTCCAACGTGGAGCTCTGCAACCTGGTCTCCTACCTTGGAATTTTGCACGAAAACCGCCTCGGG
Ad17 GACCCTTTTACCTTAACCACACCTTCAAGAAAGTCTCCATCATGTTCGACTCCTCGGTCAGCTGGCCCGGCAACGACCGGCTG
Ad40 CCCGAAGACTATCACGCCCACCAAATTAAATTTTATGAAGACCAATCACGACCTCCCAAAGTCCCCCTTACAGCCTGTGTTAT
Ad12 ..... 25320 25330 25340 25350 25360 25370 25380 25390

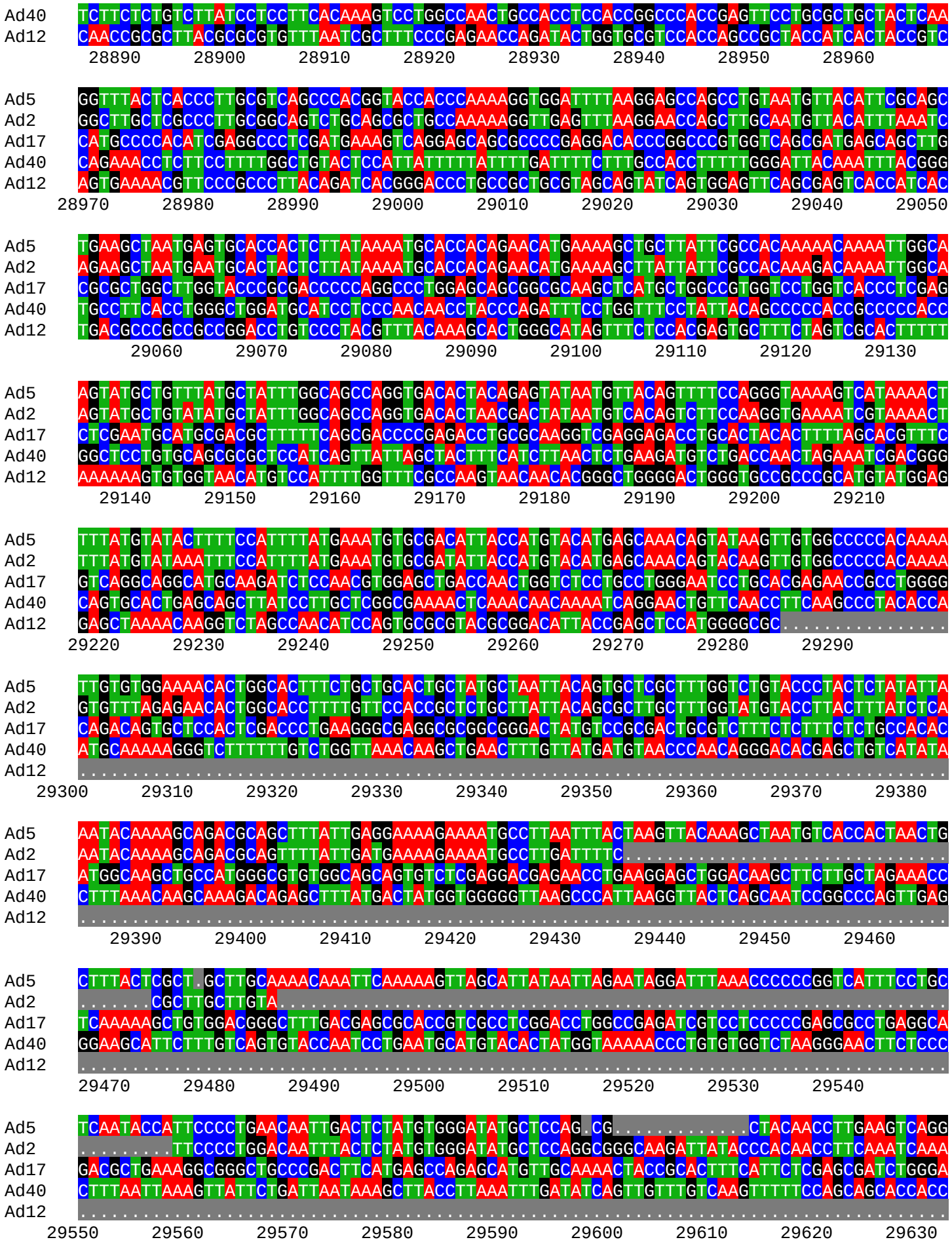

Ad5
Ad2
Ad17
Ad40
Ad12
25400 25410 25420 25430 25440 25450 25460 25470 25480
25490 25500 25510 25520 25530 25540 25550 25560
25570 25580 25590 25600 25610 25620 25630 25640
25650 25660 25670 25680 25690 25700 25710 25720 25730
25740 25750 25760 25770 25780 25790 25800 25810
25820 25830 25840 25850 25860 25870 25880 25890
25900 25910 25920 25930 25940 25950 25960 25970
25980 25990 26000 26010 26020 26030 26040 26050 26060
26070 26080 26090 26100 26110 26120 26130 26140

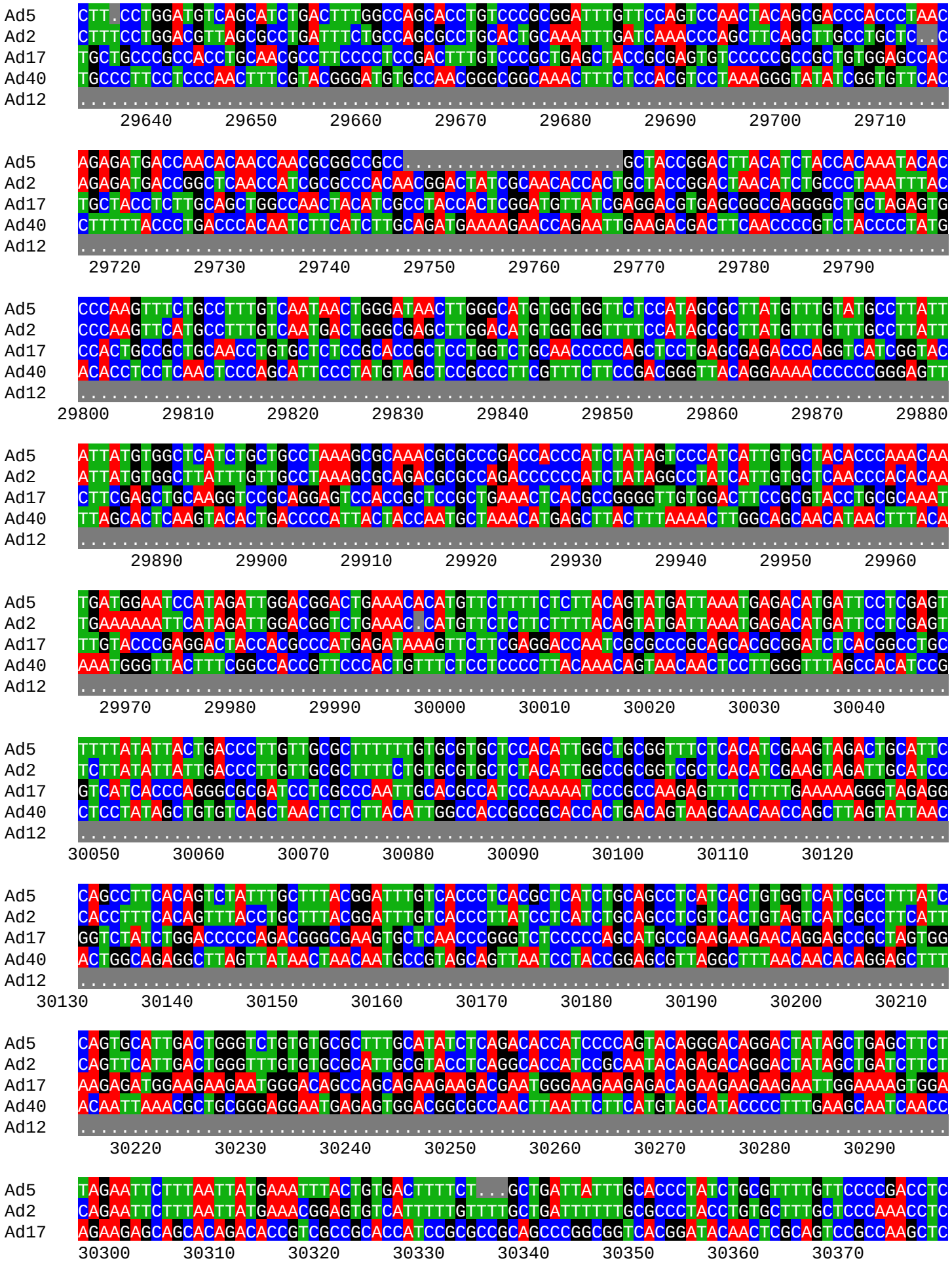

Ad40 CCGTCATCTCTACAGCCCCTACGAAACGTTTGGAGAAAACACCTCGAGTGCGTAAGACCTCATCCGCCATTGCCACCCGCCAG
Ad12 ....
26070 26080 26090 26100 26110 26120 26130 26140
Ad5 CTTACCGCCTGCGTCATTACCCAGGGCCACATTCTTGGCCAATTGCAAGCCATCAACAAAGCCCGCCAAGAGTTTCTGCTACG
Ad2 CTTACCGCCTGCGTCATTACCCAGGGCCACATCCTTGGCCAATTGCAAGCCATCAACAAAGCCCGCCAAGAGTTTCTGCTACG
Ad17 TTCTTGCCGGCGACAAGCTGGCCTGCGCCATTGTCAACACGGCCGGCCGCGAGACCGGAGGCGTGCACTGGCTCGCCTTCGGC
Ad40 GATTCGCCCGCCACGCAGGAGCTCAGAAAACGCATCTTTCCGACGCTGTATGCTATTTTCCAGCAGAGCCGCGGTCAACAGCT
Ad12 ....
26150 26160 26170 26180 26190 26200 26210 26220
Ad5 AAAGGGACGGGGGGGTTTACTTGGACCCCCAGTCCGGCGAGGAGCTCAACCCAATCCCCCCGCCGCCGCAGCCCTATCAGCAGC
Ad2 AAAGGGACGGGGGGGTTTACCTGGACCCCCAGTCCGGCGAGGAGCTCAACCCAATCCCCCCGCCGCCGCAGCCCTATCAGCAGC
Ad17 TGGAACCCGCGCTCGCGCACCTGCTACATGTTCGACCCCTTTGGGTTCTCGGACCGCCGGCTCAAGCAGATTTACAGCTTCGA
Ad40 GGAACTCAAAGTAAAAAACCGATCACTCCGTTCGCTCACCCGCAGCTGCTTGTATCACAGAAGTGAAGACCAACTGCAGCGCA
Ad12 ....
26230 26240 26250 26260 26270 26280 26290 26300 26310
Ad5 AGCCGCGGGCCCTTGCTTCCCAGGATGGCACCCAAAAAGAAGCTGCAGCTGCCGCCGCCC...ACCCACGGACGAGGAGGAATA
Ad2 ...CGCGGGCCCTTGCTTCCCAGGATGGCACCCAAAAAGAAGCTGCAGCTGCCGCCGCCGCCACCCACGGACGAGGAGGAATA
Ad17 GTACGAGGCCATGCTGCGCCGAAGCGCCGTGGCCTCTTCGCCCGACCGCTGTCTCAGCCTCGAACAGTCCACCCAGACCGTGC
Ad40 CGCTGGAGGACGCCGAGGCACTGTTCAATAAATATTGCTCGGTGTCTCTTAAGGACTAAACACCCGCGCTTTTTTTAGGCGCC
Ad12 ....
26320 26330 26340 26350 26360 26370 26380 26390
Ad5 CTGGGACAGTCAGGCAGAGGAGGTTTTGGACGAGGAGGAGGAGGACATGATGGAAGACTGGGAGAGCCTAGACGAGGAAGCTT
Ad2 CTGGGACAGTCAGGCAGAGGAGGTTTTGGACGAGGAGGAGGAG...ATGATGGAAGACTGGGACAGCCTAGAC...GAAGCTT
Ad17 AGGGGCCCGACTCCGCCGCCTGCGGACTTTTCTGTTGCATGTTCTTGCATGCCTTCGTGCACTGGCCCGACCGACCCATGGAC
Ad40 AAATTACGTCATTGACATTATGAGCAAAGACATTCCCACGCCTTACATGTGGAGCTATCAGCCGCAAATGGGCCTGGCAGCTG
Ad12 ....
26400 26410 26420 26430 26440 26450 26460 26470
Ad5 CCGAGGTCGAAGAGGTGTCAGACGAAACACCGTCACCCTCGGTCGCATTCCCCTCGCCGGCGCCCCAGAAATCGGCAACCGGT
Ad2 CCGAGGCCGAAGAGGTGTCAGACGAAACACCGTCACCCTCGGTCGCATTCCCCTCGCCGGCGCCCCAGAAATTGGCAACCGTT
Ad17 GGGAACCCCACCATGAACTTGCTGACGGGGGTGCCCAACGGCATGCTACAATCGCCACAGGTGCTGCCCACCCTCAGGCGCAA
Ad40 GAGCTTCTCAGGATTACTCCAGTCGCATGAATTGGCTTAGTGCCGGCCCCCACATGATTGGGCGGGTAAATGGAATTCGTGCC
Ad12 ....
26480 26490 26500 26510 26520 26530 26540 26550 26560
Ad5 TCCAGCATGGCTACAACCTCCGCTCCTCAGGCGCCGCCGGCACTGCCCGTTCGCCGACCCAACCGTAGATGGGACACCACTGG
Ad2 CCCAGCATCGCTACAACCTCCGCTCCTCAGGCGCCGCCGGCACTGCCTGTTCGCCGACCCAACCGTAGATGGGACACCACTGG
Ad17 CCAGGAGGAGCTCTATCGCTTCCTCGCGCGCCACTCCCCTTACTTTCGCTCCCACCGCGCCGCCATCGAACACGCCACCGCTT
Ad40 ACTCGAAACCAAATTCTGCTAGAACAGGCCGCCCTAACCTCTACCCCGCGACGTCAGCTGAACCCACCCTCTTGGCCTGCCGC
Ad12 ....
26570 26580 26590 26600 26610 26620 26630 26640
Ad5 AACCAGGGCCGGTAAGTCCAAGCAGCCGCCGCCGTTAGCCCAAGAGCAACAACAGCGCCAAGGCTACCGCTCATGGCGCGGGC
Ad2 AACCAGGGCCGGTAAGTCTAAGCAGCCGCCGCCGTTAGCCCAAGAGCAACAACAGCGCCAAGGCTACCGCTCGTGGCGCGGGC
Ad17 TTGACAAAATGAAACAACTGCGTGTATCTCAATAAACAGCACTTTTATTTTACATGCACTGGAGTATATGCAAGTTATTTAAA
Ad40 CCAGGTTTATCAGGAAAACCCCGCCCCGACCACAGTCCTTCTGCCACGCGACGCGGAAGCCGAAGTCCAAATGACTAACTCCG
Ad12 ....
26650 26660 26670 26680 26690 26700 26710 26720
Ad5 ACAAGAACGCCATAGTTGCTTGCTTGCAAGACTGTGGGGGCAACATCTCCTTCGCCCGCCGCTTTCTTCTCTACCATCACGGC
Ad2 ACAAGAACGCCATAGTTGCTTGCTTGCAAGACTGTGGGGGCAACATCTCCTTCGCCCGCCGCTTTCTTCTCTACCATCACGGC
Ad17 AGTCGAAGGGGTTCTCGCGCTCATCGTTGTGCGCCGCGCTGGGGAGGGCCACGTTGCGGTACTGGTACTTGGGCTGCCACTTG
Ad40 GAGCGCAATTAGCGGGCGGCGCCAGACACGTCAGGTTCAGAGATCGACCCTCGCCCTATTCCTCCGGCTCTATAAAAAGGCTA
Ad12 ....
26730 26740 26750 26760 26770 26780 26790 26800

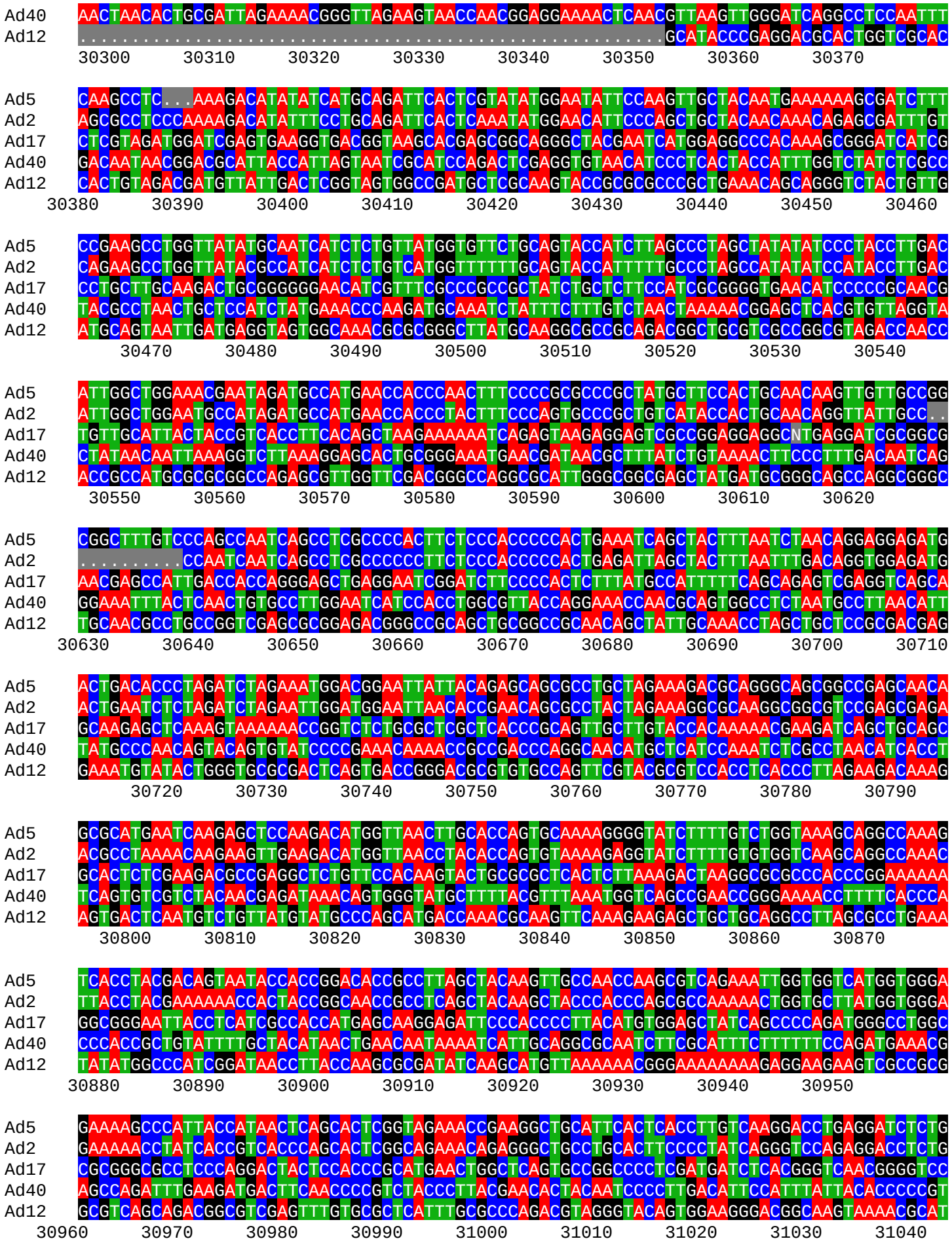

Ad5
Ad2
Ad17
Ad40
Ad12
26810 26820 26830 26840 26850 26860 26870 26880 26890
26900 26910 26920 26930 26940 26950 26960 26970
26980 26990 27000 27010 27020 27030 27040 27050
27060 27070 27080 27090 27100 27110 27120 27130 27140
27150 27160 27170 27180 27190 27200 27210 27220
27230 27240 27250 27260 27270 27280 27290 27300
27310 27320 27330 27340 27350 27360 27370 27380 27390
27400 27410 27420 27430 27440 27450 27460 27470
27480 27490 27500 27510 27520 27530 27540 27550

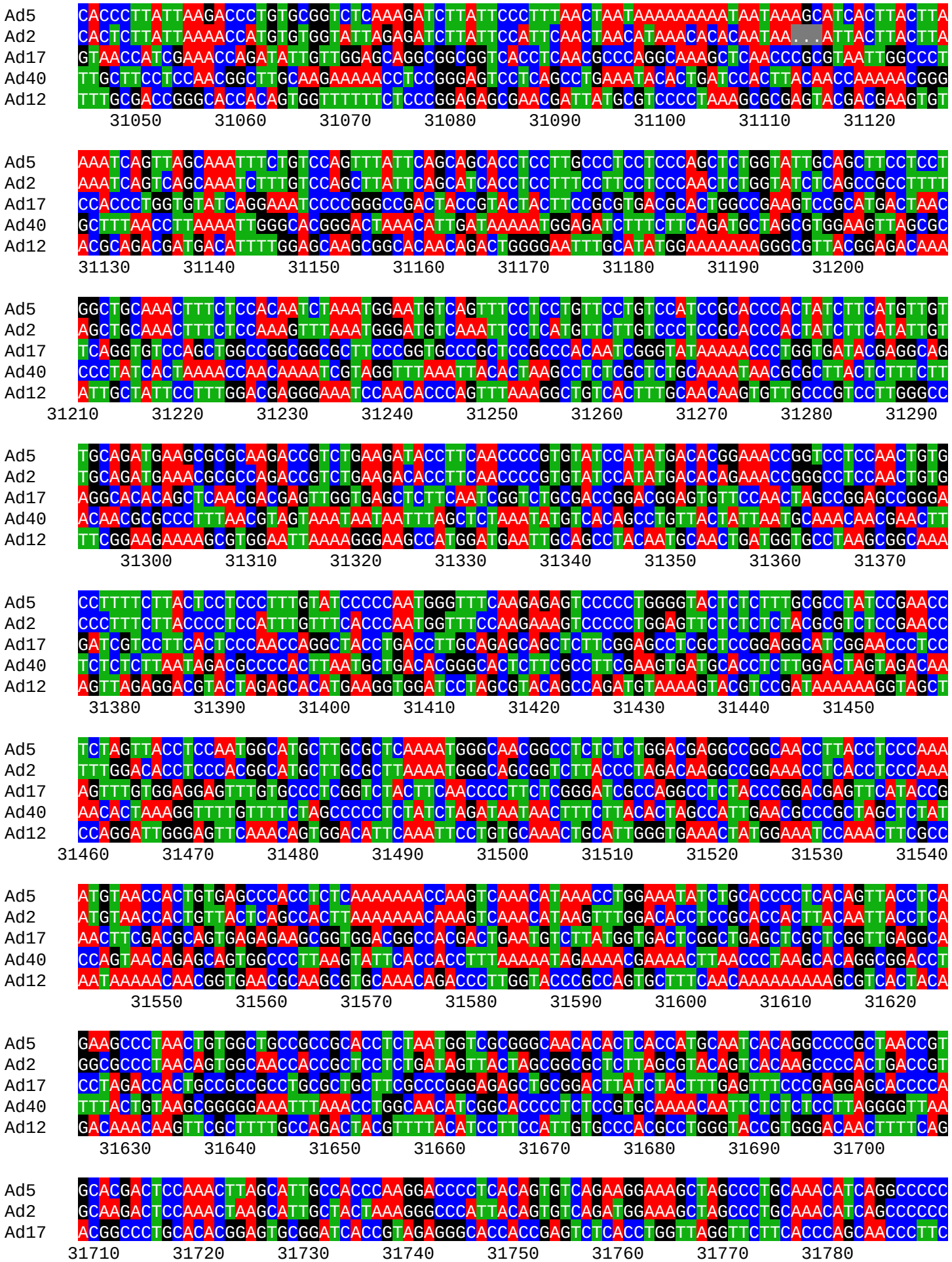

Ad40 AACAGCCTTTGTAACAACTGTACTGCTACTACTTTAACTCTTACACCTCCTTTTGTTCCCGGTCCATACTTGTGCATTGGCAC
Ad12 ....
27480 27490 27500 27510 27520 27530 27540 27550
Ad5 CCAGGAAAGTCCCGCTCCCACCACTGTGGTACTTCCCAGAGACGCCCAGGCCGAAGTTCAGATGACTAACTCAGGGGCGCAGC
Ad2 CCAGGAAAGTCCCGCTCCCACCACTGTGGTACTTCCCAGAGACGCCCAGGCCGAAGTTCAGATGACTAACTCAGGGGCGCAGC
Ad17 GGCTGAAGATGTAACCTTGCAAGAGGCGACCCATGATGGTGCTAAAGCTCTTCTGGGTGGTGAAGGTTAGTTGCAGACCGCGG
Ad40 AGGAAGAGGGCCTAGCTGCTTTAATCGCTGGACTTTACAAAAAGAGAATCTAACCACTACCACCCTCCTTCCCCTTACTACTT
Ad12 ....
27560 27570 27580 27590 27600 27610 27620 27630
Ad5 TTGCGGGCGGCTTTCGTCACAGGGTGCGGTCGCCCGGGCAGGGTATAACTCACCTGACAATCAGAGGGCGAGGTATTCAGCTC
Ad2 TTGCGGGCGGCTTTCGTCACAGGGTGCGGTCGCCCGGGCAGGGTATAACTCACCTGAAAATCAGAGGGCGAGGTATTCAGCTC
Ad17 GCCTCCTCGTTCATCCAGGTCTGGCACATCTTTTGGAAGATCTCGGTCTGCTCGGGCATGAGCTTGTAAGCATCGCGCAGGCC
Ad40 ATACTTTTTCCCAAAAAAAGAATTACTTTTTGCCCATTATTGCACTTTTGGCCTTTGTCTGTGTTATTACCGCTAATTATATT
Ad12 ....
27640 27650 27660 27670 27680 27690 27700 27710 27720
Ad5 AACGACGAGTCGGTGAGCTCCTCGCTTGGTCTCCGTCCGGACGGGACATTTCAGATCGGCGGCGCCGGCCGTCCTTCATTCAC
Ad2 AACGACGAGTCGGTGAGCTCCTCTCTTGGTCTCCGTCCGGACGGGACATTTCAGATCGGCGGCGCTGGCCGCTCTTCATTTAC
Ad17 GCTGTCGACGCGGTAACGTTCCATCAGCACGTTCATGGTATCCATGCCCTTTTCCCAGGACGAGACCAGAGGCAGACTCAGGG
Ad40 TTAATTTTCAATCTTGATAATTTTTACTAATCATGCTGCTGTTTTTACTTTGCCTTCTTTTCTGCTCTGCCTATGCCGCCGTG
Ad12 ....
27730 27740 27750 27760 27770 27780 27790 27800
Ad5 GCCTCGTCAGGCAATCCTAACTCTGCAGACCTCGTCCTCTGAGCCGCGCTCTGGAGGCATTGGAACTCTGCAATTTATTGAGG
Ad2 GCCCCGTCAGGCGATCCTAACTCTGCAGACCTCGTCCTCGGAGCCGCGCTCCGGAGGCATTGGAACTCTACAATTTATTGAGG
Ad17 GGTTGCGCACGTTCAGGACACCGGGGGTCKCGGGCTCGACGATACGTTTTCCGTCCTTGCCTTCCTTCAACAGAACCGGAGGC
Ad40 CCAGAAAAAACCCTTAACAACCTCGTTCGGGTGTACGCCTTAGTTGGTACCAATCTATCCCTTGATTCTATGAAAACTCCTCA
Ad12 ....
27810 27820 27830 27840 27850 27860 27870 27880
Ad5 AGTTTGTGCCATCGGTCTACTTTAACCCCTTCTCGGGACCTCCCGGCCACTATCCGGATCAATTTATTCCTAACTTTGACGCG
Ad2 AGTTCGTGCCTTCGGTTTACTTCAACCCCTTTTCTGGACCTCCCGGCCACTACCCGGACCAGTTTATTCCCAACTTTGACGCG
Ad17 TGGCTGAATCCCACTCCCACAATCACGGCATCTTCCTGGGGCATCTCTTCGTCGGGGTCTACCTTGGTCACATGCTTGGTCTT
Ad40 GATTGACGAACTTACTAGTCTTAGCTGGATCAAACAGGAAGACAATCCTAACAAAAACTTACAATCATTTTTTTTTATTGGTC
Ad12 ....
27890 27900 27910 27920 27930 27940 27950 27960 27970
Ad5 GTAAAGGACTCGGCGGACGGCTACGACTGAATGTTAAGTGGAGAGGCAGAGCAACTGCGCCTGAAACACCTGGTCCACTGTCG
Ad2 GTGAAAGACTCGGCGGACGGCTACGACTGAATGACCAGTGGAGAGGCAGAGCGACTGCGCCTGACACACCTCGACCACTGCCG
Ad17 TCTGGCTTGCTTCTTTTTTGGAGGGCTGTCCACGGGGACCACGTCCTCTCGGAAGACCCGGAGCCCACCCGCTGATACTTTCG
Ad40 AAAAACTCTGTGAAGTTACCAAAGACAAAATCACTGTTTTTAACTATTATCCGTTGGAATTTTCCTGCGCTAACGTAACCTTG
Ad12 ....
27980 27990 28000 28010 28020 28030 28040 28050
Ad5 CCGCCACAAGTGCTTTGCCCGCGACTCCGGTGAGTTTTGCTACTTTGAATTGCCCGAGGATCATATCGAGGGCCCGGCGCACG
Ad2 CCGCCACAAGTGCTTTGCCCGCGGCTCCGGTGAGTTTTGTTACTTTGAATTGCCCGAAGAGCATATCGAGGGCCCGGCGCACG
Ad17 GCGCTTGGTGGGCAGAGGAGGTGGCGGCGGCGAGGGGCTCCTCTCGTGCTCCGGCGGATAGCGCGCCGACCCGTGGCCCCGGG
Ad40 TATTTGTATAATCTTAAAACTGACGATTCTGGCCTCTATAATGGAAAGGCCCATACCAAAGAGCTTGAACATAACACCTATGT
Ad12 ....
28060 28070 28080 28090 28100 28110 28120 28130
Ad5 GCGTCCGGCTTACCGCCCAGGGAGAGCTTGCCCGTAGCCTGATTCGGGAGTTTACCCAGCGCCCCCTGCTAGTTGAGCGGGAC
Ad2 GCGTCCGGCTCACCACCCAGGTAGAGCTTACACGTAGCCTGATTCGGGAGTTTACCAAGCGCCCCCTGCTAGTGGAGCGGGAG
Ad17 GCGGAGTGGCCTCTCGCTCCATGAACCGGCGCACGTCTGACTGCCGCCGGCCATTGTTTCCTAGGGGAAGATGGAGGAGCAGC
Ad40 TAGGCTTTATGTTATTGACATTCCTCCGCCTAAGTGTGACATTACTTCACGTTACTTAGGCATACAGGCTACTGGGGAAGATT
Ad12 ....
28140 28150 28160 28170 28180 28190 28200 28210 28220

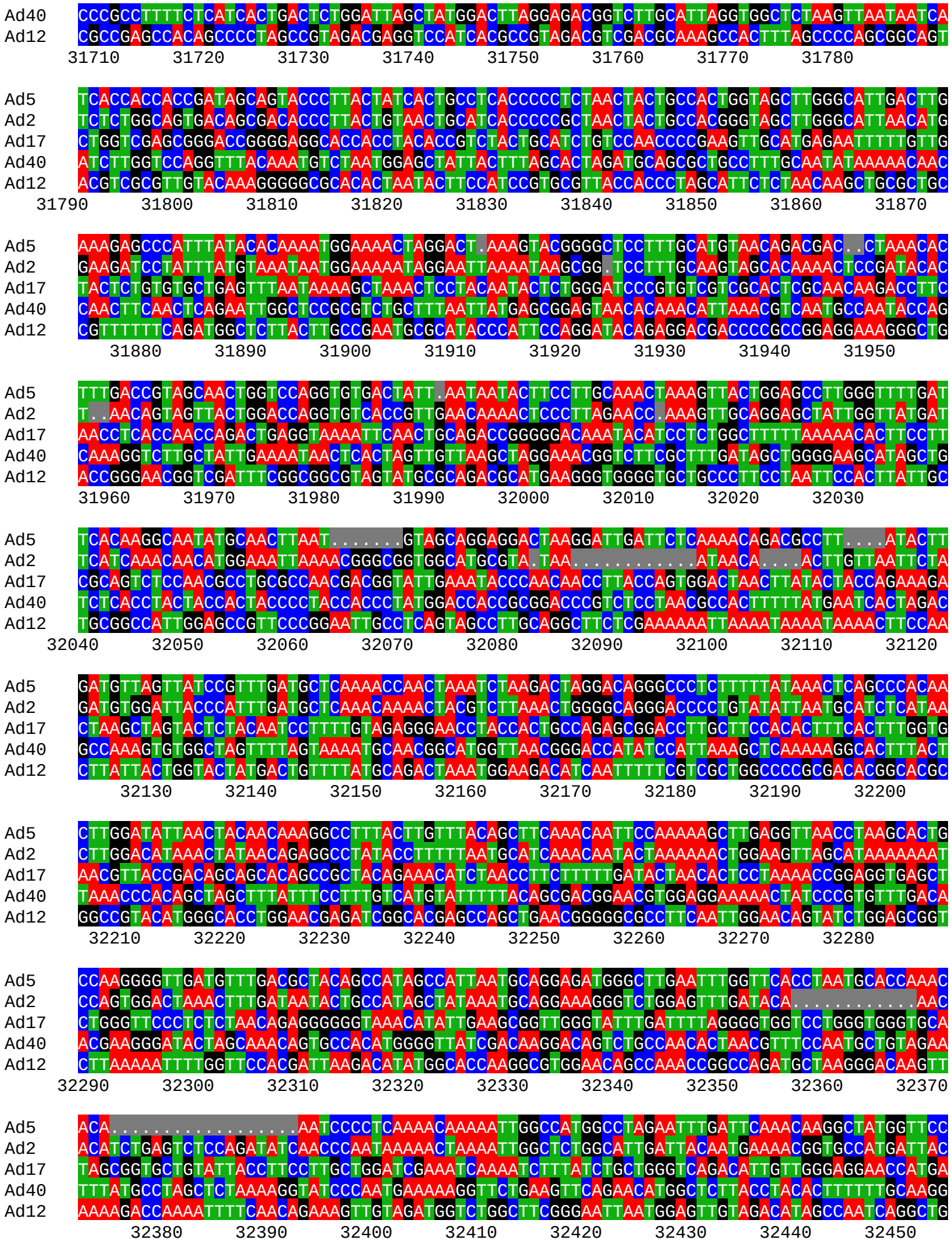

Ad5
Ad2
Ad17
Ad40
Ad12
28230 28240 28250 28260 28270 28280 28290 28300
28310 28320 28330 28340 28350 28360 28370 28380
28390 28400 28410 28420 28430 28440 28450 28460
28470 28480 28490 28500 28510 28520 28530 28540 28550
28560 28570 28580 28590 28600 28610 28620 28630
28640 28650 28660 28670 28680 28690 28700 28710
28720 28730 28740 28750 28760 28770 28780 28790 28800
28810 28820 28830 28840 28850 28860 28870 28880
28890 28900 28910 28920 28930 28940 28950 28960

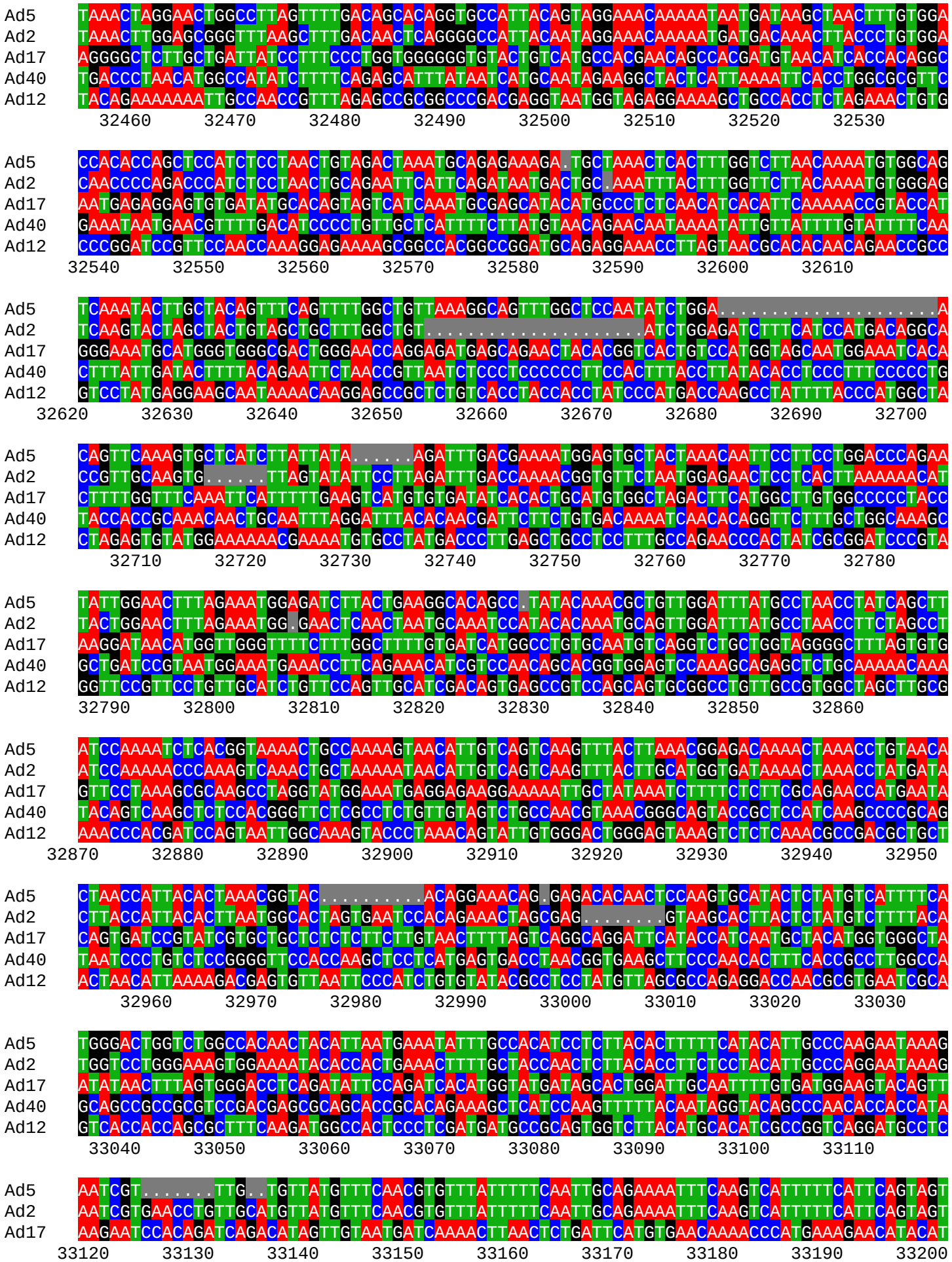

Ad40
Ad12
28890 28900 28910 28920 28930 28940 28950 28960
Ad5
Ad2
Ad17
Ad40
Ad12
28970 28980 28990 29000 29010 29020 29030 29040 29050
Ad5
Ad2
Ad17
Ad40
Ad12
29060 29070 29080 29090 29100 29110 29120 29130
Ad5
Ad2
Ad17
Ad40
Ad12
29140 29150 29160 29170 29180 29190 29200 29210
Ad5
Ad2
Ad17
Ad40
Ad12
29220 29230 29240 29250 29260 29270 29280 29290
Ad5
Ad2
Ad17
Ad40
Ad12
29300 29310 29320 29330 29340 29350 29360 29370 29380
Ad5
Ad2
Ad17
Ad40
Ad12
29390 29400 29410 29420 29430 29440 29450 29460
Ad5
Ad2
Ad17
Ad40
Ad12
29470 29480 29490 29500 29510 29520 29530 29540
Ad5
Ad2
Ad17
Ad40
Ad12
29550 29560 29570 29580 29590 29600 29610 29620 29630

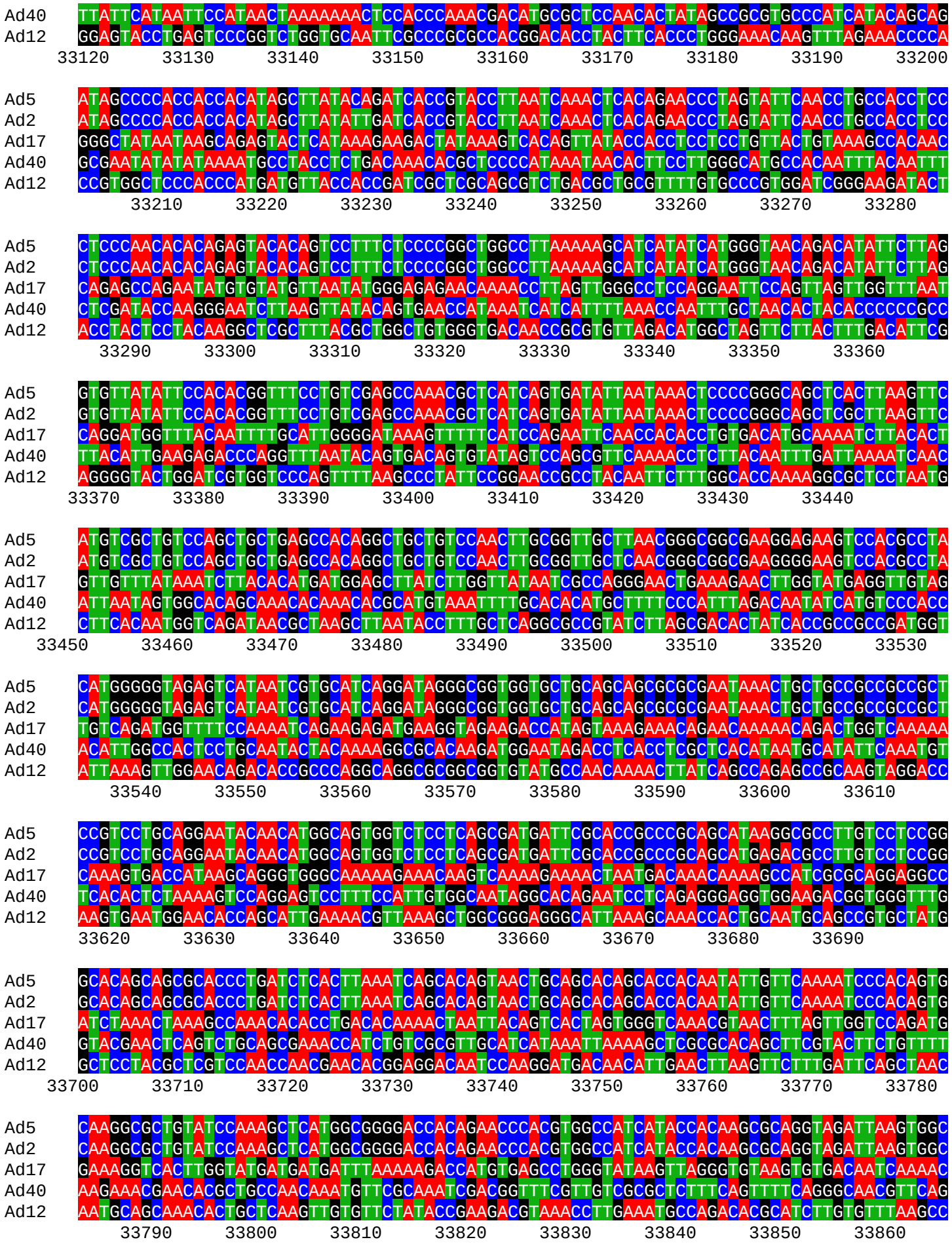

Ad5
Ad2
Ad17
Ad40
Ad12
29640 29650 29660 29670 29680 29690 29700 29710
29720 29730 29740 29750 29760 29770 29780 29790
29800 29810 29820 29830 29840 29850 29860 29870 29880
29890 29900 29910 29920 29930 29940 29950 29960
29970 29980 29990 30000 30010 30020 30030 30040
30050 30060 30070 30080 30090 30100 30110 30120
30130 30140 30150 30160 30170 30180 30190 30200 30210
30220 30230 30240 30250 30260 30270 30280 30290
30300 30310 30320 30330 30340 30350 30360 30370

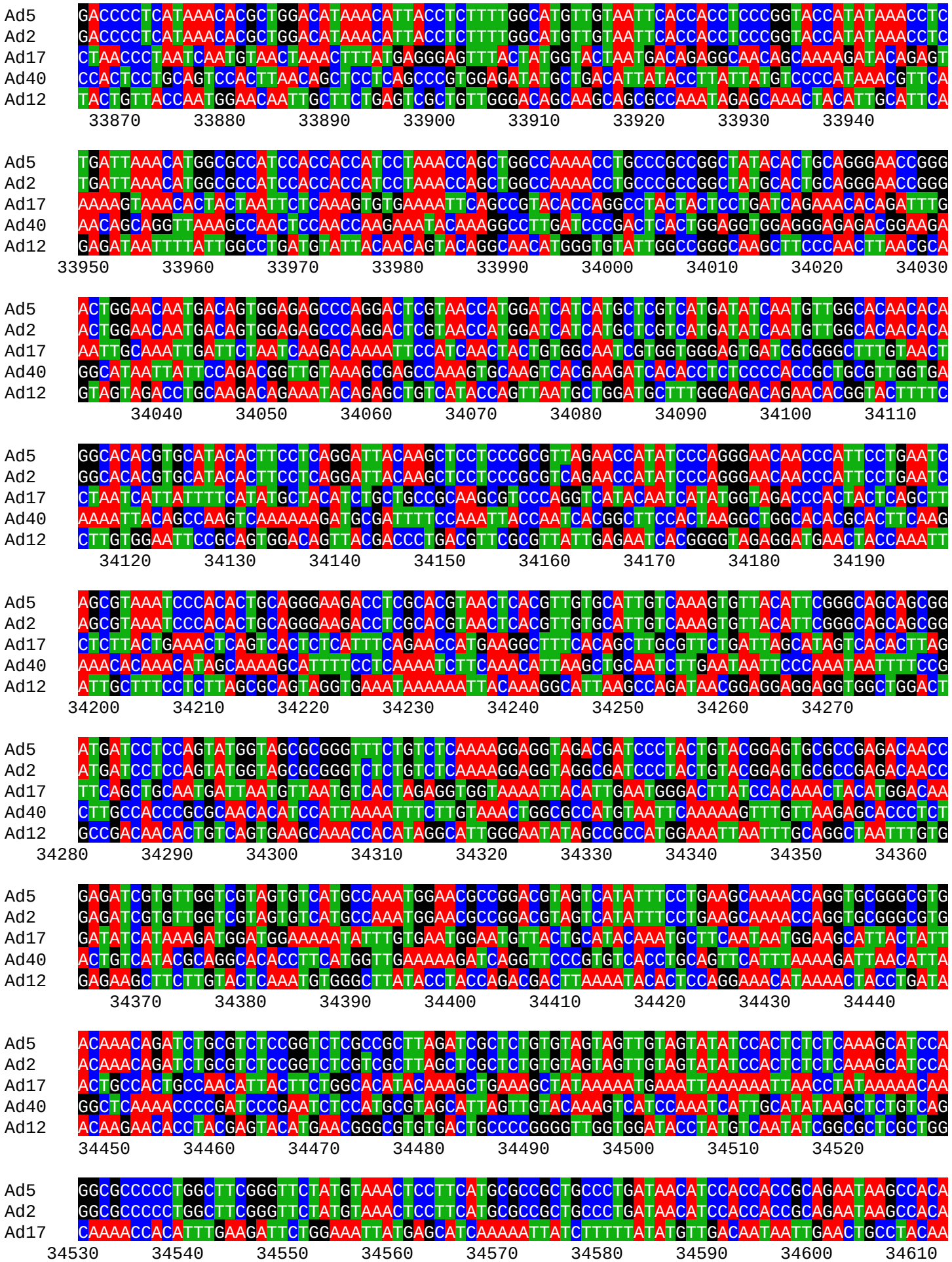

Ad40
Ad12
30300 30310 30320 30330 30340 30350 30360 30370
Ad5
Ad2
Ad17
Ad40
Ad12
30380 30390 30400 30410 30420 30430 30440 30450 30460
Ad5
Ad2
Ad17
Ad40
Ad12
30470 30480 30490 30500 30510 30520 30530 30540
Ad5
Ad2
Ad17
Ad40
Ad12
30550 30560 30570 30580 30590 30600 30610 30620
Ad5
Ad2
Ad17
Ad40
Ad12
30630 30640 30650 30660 30670 30680 30690 30700 30710
Ad5
Ad2
Ad17
Ad40
Ad12
30720 30730 30740 30750 30760 30770 30780 30790
Ad5
Ad2
Ad17
Ad40
Ad12
30800 30810 30820 30830 30840 30850 30860 30870
Ad5
Ad2
Ad17
Ad40
Ad12
30880 30890 30900 30910 30920 30930 30940 30950
Ad5
Ad2
Ad17
Ad40
Ad12
30960 30970 30980 30990 31000 31010 31020 31030 31040

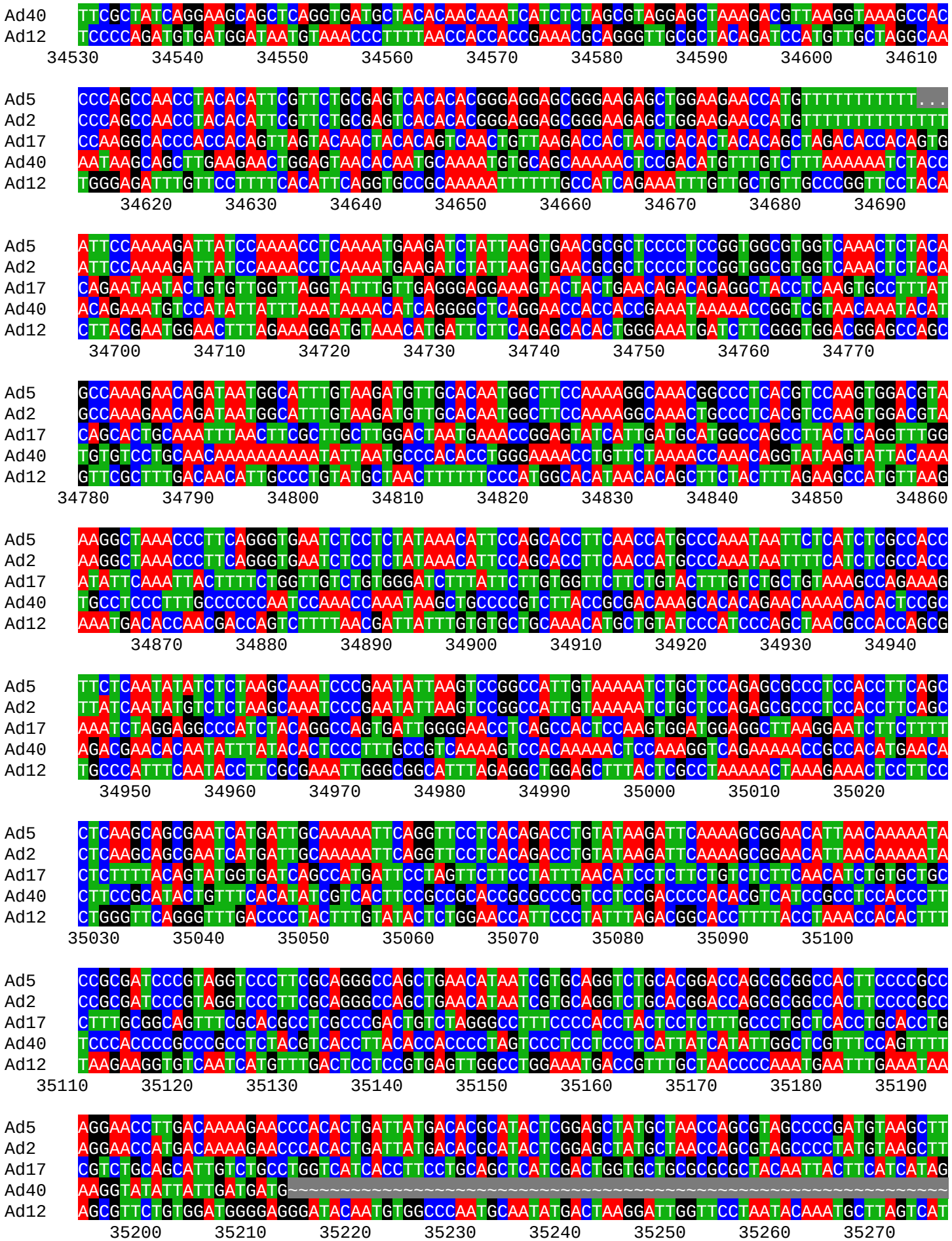

Ad5
Ad2
Ad17
Ad40
Ad12
31050 31060 31070 31080 31090 31100 31110 31120
31130 31140 31150 31160 31170 31180 31190 31200
31210 31220 31230 31240 31250 31260 31270 31280 31290
31300 31310 31320 31330 31340 31350 31360 31370
31380 31390 31400 31410 31420 31430 31440 31450
31460 31470 31480 31490 31500 31510 31520 31530 31540
31550 31560 31570 31580 31590 31600 31610 31620
31630 31640 31650 31660 31670 31680 31690 31700
31710 31720 31730 31740 31750 31760 31770 31780

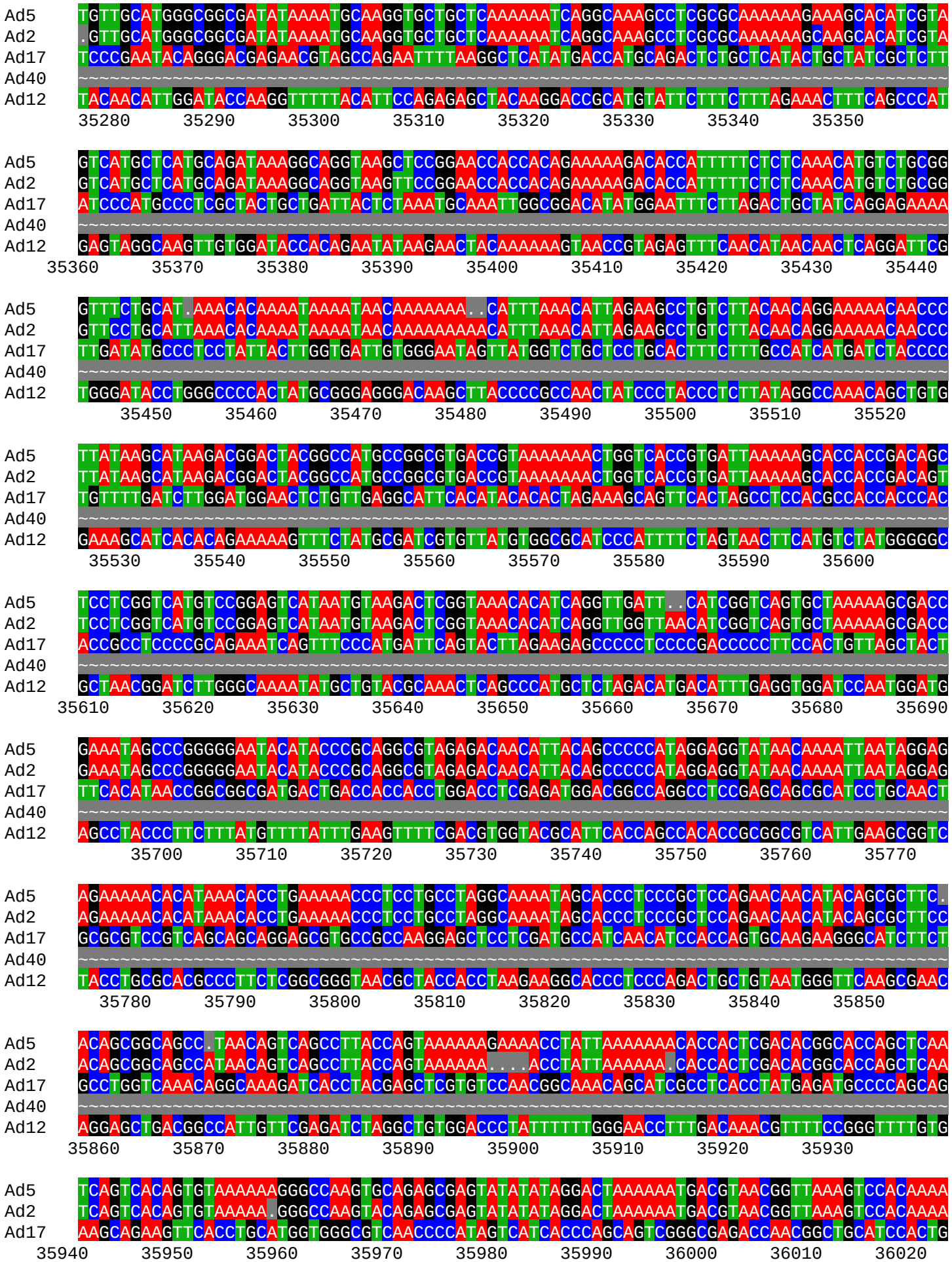

Ad40 CCCGCCTTTTCTCATCACTGACTCTGGATTAGCTATGGACTTAGGAGACGGTCTTGCATTAGGTGGCTCTAAGTTAATAATCA
Ad12 CGCCGAGCCACAGCCCCTAGCCGTAGACGAGGTCCATCACGCCGTAGACGTCGACGCAAAGCCACTTTAGCCCCAGCGGCAGT
31710 31720 31730 31740 31750 31760 31770 31780
Ad5 TCACCACCACCGATAGCAGTACCCTTACTATCACTGCCTCACCCCCTCTAACTACTGCCACTGGTAGCTTGGGCATTGACTTG
Ad2 TCTCTGGCAGTGACAGCGACACCCTTACTGTAACTGCATCACCCCCGCTAACTACTGCCACGGGTAGCTTGGGCATTAACATG
Ad17 CTGGTCGAGCGGGACCGGGGAGGCACCACCTACACCGTCTACTGCATCTGTCCAACCCCGAAGTTGCATGAGAATTTTTGTTG
Ad40 ATCTTGGTCCAGGTTTACAAATGTCTAATGGAGCTATTACTTTAGCACTAGATGCAGCGCTGCCTTTGCAATATAAAAACAAC
Ad12 ACGTCGCGTTGTACAAAGGGGGCGCACACTAATACTTCCATCCGTGCGTTACCACCCTAGCATTCTCTAACAAGCTGCGCTGC
31790 31800 31810 31820 31830 31840 31850 31860 31870
Ad5 AAAGAGCCCATTTATACACAAAATGGAAAACTAGGACT.AAAGTACGGGGCTCCTTTGCATGTAACAGACGAC..CTAAACAC
Ad2 GAAGATCCTATTTATGTAAATAATGGAAAAATAGGAATTAAAATAAGCGG.TCCTTTGCAAGTAGCACAAAACTCCGATACAC
Ad17 TACTCTGTGTGCTGAGTTTAATAAAAGCTAAACTCCTACAATACTCTGGGATCCCGTGTCGTCGCACTCGCAACAAGACCTTC
Ad40 CAACTTCAACTCAGAATTGGCTCCGCGTCTGCTTTAATTATGAGCGGAGTAACACAAACATTAAACGTCAATGCCAATACCAG
Ad12 CGTTTTTTCAGATGGCTCTTACTTGCCGAATGCGCATACCCATTCCAGGATACAGAGGACGACCCCGCCGGAGGAAAGGGCTG
31880 31890 31900 31910 31920 31930 31940 31950
Ad5 TTTGACCGTAGCAACTGGTCCAGGTGTGACTATT.AATAATACTTCCTTGCAAACTAAAGTTACTGGAGCCTTGGGTTTTGAT
Ad2 T..AACAGTAGTTACTGGACCAGGTGTCACCGTTGAACAAAACTCCCTTAGAACC.AAAGTTGCAGGAGCTATTGGTTATGAT
Ad17 AACCTCACCAACCAGACTGAGGTAAAATTCAACTGCAGACCGGGGGACAAATACATCCTCTGGCTTTTTAAAAACACTTCCTT
Ad40 CAAAGGTCTTGCTATTGAAAATAACTCACTAGTTGTTAAGCTAGGAAACGGTCTTCGCTTTGATAGCTGGGGAAGCATAGCTG
Ad12 ACCGGGAACGGTCGATTTCGGCGGCGTAGTATGCGCAGACGCATGAAGGGTGGGGTGCTGCCCTTCCTAATTCCACTTATTGC
31960 31970 31980 31990 32000 32010 32020 32030
Ad5 TCACAAGGCAATATGCAACTTAAT.......GTAGCAGGAGGACTAAGGATTGATTCTCAAAACAGACGCCTT....ATACTT
Ad2 TCATCAAACAACATGGAAATTAAAACGGGCGGTGGCATGCGTA.TAA............ATAACA....ACTTGTTAATTCTA
Ad17 CGCAGTCTCCAACGCCTGCGCCAACGACGGTATTGAAATACCCAACAACCTTACCAGTGGACTAACTTATACTACCAGAAAGA
Ad40 TCTCACCTACTACCACTACCCCTACCACCCTATGGACCACCGCGGACCCGTCTCCTAACGCCACTTTTTATGAATCACTAGAC
Ad12 TGCGGCCATTGGAGCCGTTCCCGGAATTGCCTCAGTAGCCTTGCAGGCTTCTCGAAAAAATTAAAATAAAATAAAACTTCCAA
32040 32050 32060 32070 32080 32090 32100 32110 32120
Ad5 GATGTTAGTTATCCGTTTGATGCTCAAAACCAACTAAATCTAAGACTAGGACAGGGCCCTCTTTTTATAAACTCAGCCCACAA
Ad2 GATGTGGATTACCCATTTGATGCTCAAACAAAACTACGTCTTAAACTGGGGCAGGGACCCCTGTATATTAATGCATCTCATAA
Ad17 CTAAGCTAGTACTCTACAATCCTTTTGTAGAGGGAACCTACCACTGCCAGAGCGGACCTTGCTTCCACACTTTCACTTTGGTG
Ad40 GCCAAAGTGTGGCTAGTTTTAGTAAAATGCAACGGCATGGTTAACGGGACCATATCCATTAAAGCTCAAAAAGGCACTTTACT
Ad12 CTTATTACTGGTACTATGACTGTTTTATGCAGACTAAATGGAAGACATCAATTTTTCGTCGCTGGCCCCGCGACACGGCACGC
32130 32140 32150 32160 32170 32180 32190 32200
Ad5 CTTGGATATTAACTACAACAAAGGCCTTTACTTGTTTACAGCTTCAAACAATTCCAAAAAGCTTGAGGTTAACCTAAGCACTG
Ad2 CTTGGACATAAACTATAACAGAGGCCTATACCTTTTTAATGCATCAAACAATACTAAAAAACTGGAAGTTAGCATAAAAAAAT
Ad17 AACGTTACCGACAGCAGCACAGCCGCTACAGAAACATCTAACCTTCTTTTTGATACTAACACTCCTAAAACCGGAGGTGAGCT
Ad40 TAAACCCACAGCTAGCTTTATTTCCTTTGTCATGTATTTTTACAGCGACGGAACGTGGAGGAAAAACTATCCCGTGTTTGACA
Ad12 GGCCGTACATGGGCACCTGGAACGAGATCGGCACGAGCCAGCTGAACGGGGGCGCCTTCAATTGGAACAGTATCTGGAGCGGT
32210 32220 32230 32240 32250 32260 32270 32280
Ad5 CCAAGGGGTTGATGTTTGACGCTACAGCCATAGCCATTAATGCAGGAGATGGGCTTGAATTTGGTTCACCTAATGCACCAAAC
Ad2 CCAGTGGACTAAACTTTGATAATACTGCCATAGCTATAAATGCAGGAAAGGGTCTGGAGTTTGATACA.............AAC
Ad17 CTGGGTTCCCTCTCTAACAGAGGGGGGTAAACATATTGAAGCGGTTGGGTATTTGATTTTAGGGGTGGTCCTGGGTGGGTGCA
Ad40 ACGAAGGGATACTAGCAAACAGTGCCACATGGGGTTATCGACAAGGACAGTCTGCCAACACTAACGTTTCCAATGCTGTAGAA
Ad12 CTTAAAAATTTTGGTTCCACGATTAAGACATATGGCACCAAGGCGTGGAACAGCCAAACCGGCCAGATGCTAAGGGACAAGTT
32290 32300 32310 32320 32330 32340 32350 32360 32370
Ad5 ACA.................AATCCCCTCAAAACAAAAATTGGCCATGGCCTAGAATTTGATTCAAACAAGGCTATGGTTCC
Ad2 ACATCTGAGTCTCCAGATATCAACCCAATAAAAACTAAAATTGGCTCTGGCATTGATTACAATGAAAACGGTGCCATGATTAC
Ad17 TAGCGGTGCTGTATTACCTTCCTTGCTGGATCGAAATCAAAATCTTTATCTGCTGGGTCAGACATTGTTGGGAGGAACCATGA
Ad40 TTTATGCCTAGCTCTAAAAGGTATCCCAATGAAAAAGGTTCTGAAGTTCAGAACATGGCTCTTACCTACACTTTTTTGCAAGG
Ad12 AAAAGACCAAAATTTTCAACAGAAAGTTGTAGATGGTCTGGCTTCGGGAATTAATGGAGTTGTAGACATAGCCAATCAGGCTG
32380 32390 32400 32410 32420 32430 32440 32450

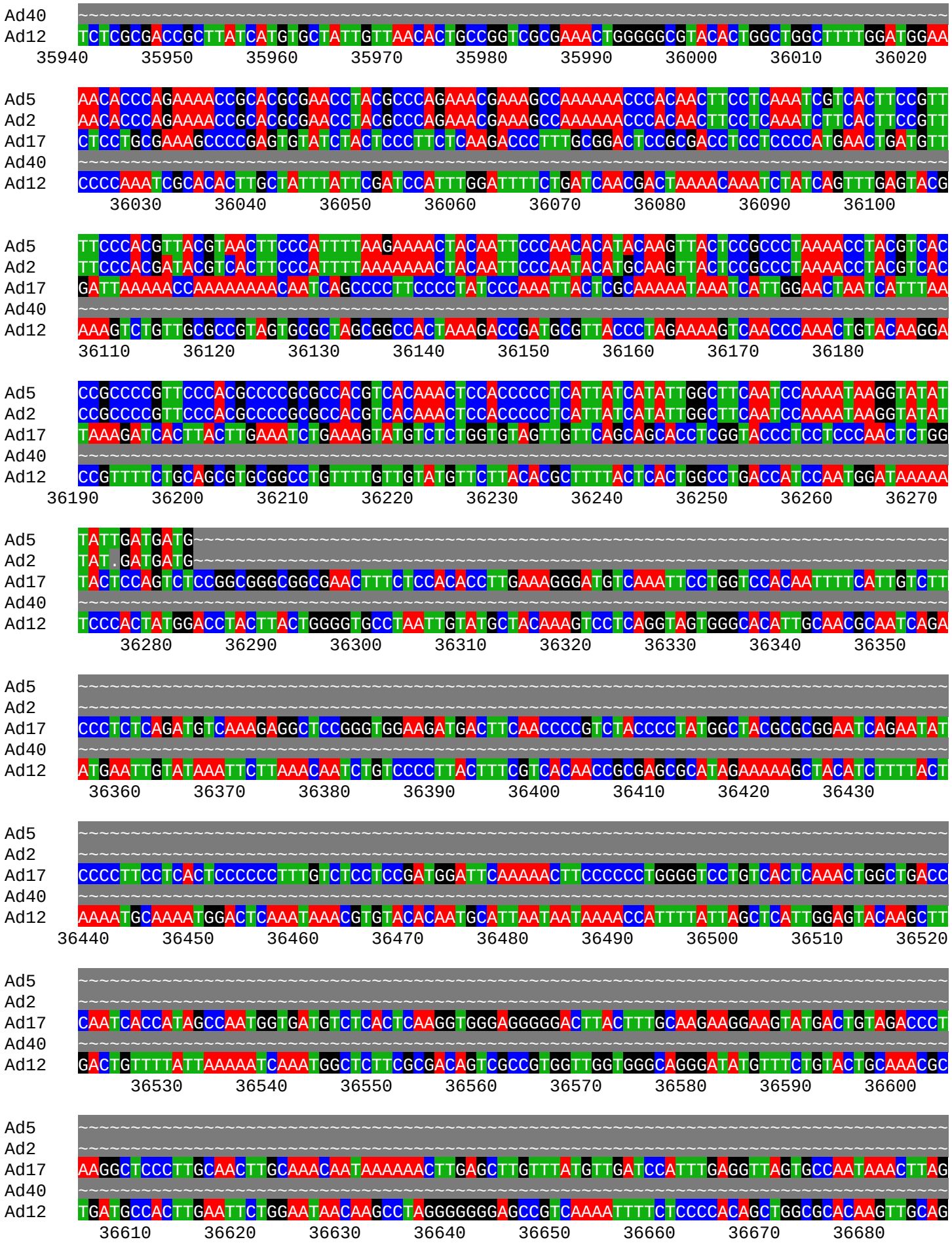

Ad5
Ad2
Ad17
Ad40
Ad12
32460 32470 32480 32490 32500 32510 32520 32530
32540 32550 32560 32570 32580 32590 32600 32610
32620 32630 32640 32650 32660 32670 32680 32690 32700
32710 32720 32730 32740 32750 32760 32770 32780
32790 32800 32810 32820 32830 32840 32850 32860
32870 32880 32890 32900 32910 32920 32930 32940 32950
32960 32970 32980 32990 33000 33010 33020 33030
33040 33050 33060 33070 33080 33090 33100 33110
33120 33130 33140 33150 33160 33170 33180 33190 33200

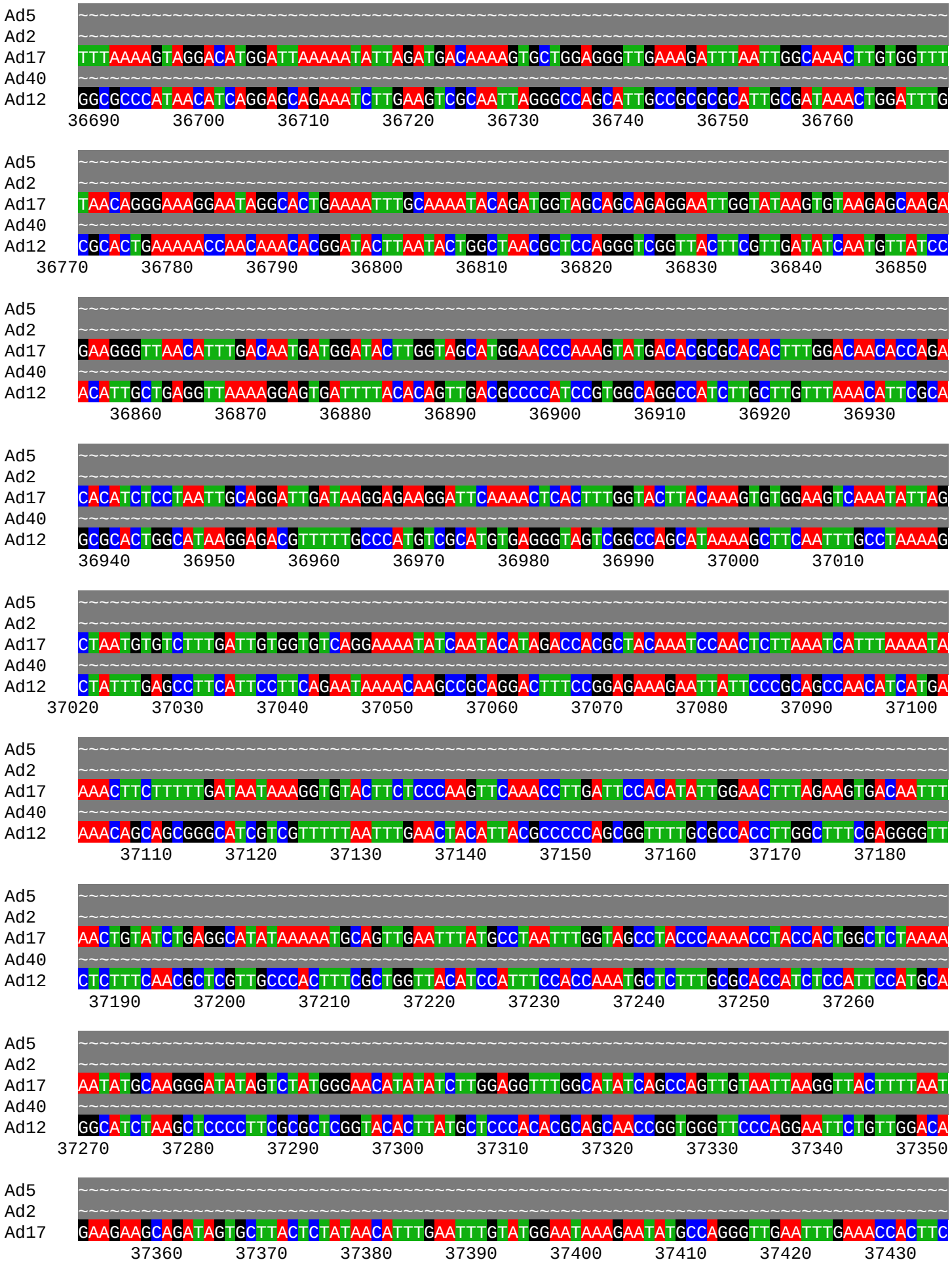

Ad40 TTATTCATAATTCCATAACTAAAAAAACTCCACCCAAACGACATGCGCTCCAACACTATAGCCGCGTGCCCATCATACAGCAG
Ad12 GGAGTACCTGAGTCCCGGTCTGGTGCAATTCGCCCGCGCCACGGACACCTACTTCACCCTGGGAAACAAGTTTAGAAACCCCA
33120 33130 33140 33150 33160 33170 33180 33190 33200
Ad5 ATAGCCCCACCACCACATAGCTTATACAGATCACCGTACCTTAATCAAACTCACAGAACCCTAGTATTCAACCTGCCACCTCC
Ad2 ATAGCCCCACCACCACATAGCTTATATTGATCACCGTACCTTAATCAAACTCACAGAACCCTAGTATTCAACCTGCCACCTCC
Ad17 GGGCTATAATAAGCAGAGTACTCATAAAGAAGACTATAAAGTCACAGTTATACCACCTCCTCCTGTTACTGTAAAGCCACAAC
Ad40 GCGAATATATATAAAATGCCTACCTCTGACAAACACGCTCCCCATAAATAACACTTCCTTGGGCATGCCACAATTTACAATTT
Ad12 CCGTGGCTCCCACCCATGATGTTACCACCGATCGCTCGCAGCGTCTGACGCTGCGTTTTGTGCCCGTGGATCGGGAAGATACT
33210 33220 33230 33240 33250 33260 33270 33280
Ad5 CTCCCAACACACAGAGTACACAGTCCTTTCTCCCCGGCTGGCCTTAAAAAGCATCATATCATGGGTAACAGACATATTCTTAG
Ad2 CTCCCAACACACAGAGTACACAGTCCTTTCTCCCCGGCTGGCCTTAAAAAGCATCATATCATGGGTAACAGACATATTCTTAG
Ad17 CAGAGCCAGAATATGTGTATGTTAATATGGGAGAGAACAAAACCTTAGTTGGGCCTCCAGGAATTCCAGTTAGTTGGTTTAAT
Ad40 CTCGATACCAAGGGAATCTTAAGTTATACAGTGAACCATAAATCATCATTTTAAACCAATTTGCTAACACTACACCCCCGCC
Ad12 ACCTACTCCTACAAGGCTCGCTTTACGCTGGCTGTGGGTGACAACCGCGTGTTAGACATGGCTAGTTCTTACTTTGACATTCG
33290 33300 33310 33320 33330 33340 33350 33360
Ad5 GTGTTATATTCCACACGGTTTCCTGTCGAGCCAAACGCTCATCAGTGATATTAATAAACTCCCCGGGCAGCTCACTTAAGTTC
Ad2 GTGTTATATTCCACACGGTTTCCTGTCGAGCCAAACGCTCATCAGTGATATTAATAAACTCCCCGGGCAGCTCGCTTAAGTTC
Ad17 CAGGATGGTTTACAATTTTGCATTGGGGATAAAGTTTTTCATCCAGAATTCAACCACACCTGTGACATGCAAAATCTTACACT
Ad40 TTACATTGAAGAGACCCAGGTTTAATACAGTGACAGTGTATAGTCCAGCGTTCAAAACCTCTTACAATTTGATTAAAATCAAC
Ad12 AGGGGTACTGGATCGTGGTCCCAGTTTTAAGCCCTATTCCGGAACCGCCTACAATTCTTTGGCACCAAAAGGCGCTCCTAATG
33370 33380 33390 33400 33410 33420 33430 33440
Ad5 ATGTCGCTGTCCAGCTGCTGAGCCACAGGCTGCTGTCCAACTTGCGGTTGCTTAACGGGCGGCGAAGGAGAAGTCCACGCCTA
Ad2 ATGTCGCTGTCCAGCTGCTGAGCCACAGGCTGCTGTCCAACTTGCGGTTGCTCAACGGGCGGCGAAGGGGAAGTCCACGCCTA
Ad17 GTTGTTTATAAATCTTACACATGATGGAGCTTATCTTGGTTATAATCGCCAGGGAACTGAAAGAACTTGGTATGAGGTTGTAG
Ad40 ATTAATAGTGGCACAGCAAACACAAACACGCATGTAAATTTTGCACACATGCTTTTCCCATTTAGACAATATCATGTCCCACC
Ad12 CTTCACAATGGTCAGATAACGCTAAGCTTAATACCTTTGCTCAGGCGCCGTATCTTAGCGACACTATCACCGCCGCCGATGGT
33450 33460 33470 33480 33490 33500 33510 33520 33530
Ad5 CATGGGGGTAGAGTCATAATCGTGCATCAGGATAGGGCGGTGGTGCTGCAGCAGCGCGCGAATAAACTGCTGCCGCCGCCGCT
Ad2 CATGGGGGTAGAGTCATAATCGTGCATCAGGATAGGGCGGTGGTGCTGCAGCAGCGCGCGAATAAACTGCTGCCGCCGCCGCT
Ad17 TGTCAGATGGTTTTCCAAAATCAGAAGAGATGAAGGTAGAAGACCATAGTAAAGAAACAGAACAAAAACAGACTGGTCAAAAAA
Ad40 ACATTGGCCACTCCTGCAATACTACAAAAGGCGCACAAGATGGAATAGACCTCACCTCGCTCACATAATGCATATTCAAATGT
Ad12 ATTAAAGTTGGAACAGACACCGCCCAGGCAGGCGCGGCGGTGTATGCCAACAAAACTTATCAGCCAGAGCCGCAAGTAGGACC
33540 33550 33560 33570 33580 33590 33600 33610
Ad5 CCGTCCTGCAGGAATACAACATGGCAGTGGTCTCCTCAGCGATGATTCGCACCGCCCGCAGCATAAGGCGCCTTGTCCTCCGG
Ad2 CCGTCCTGCAGGAATACAACATGGCAGTGGTCTCCTCAGCGATGATTCGCACCGCCCGCAGCATGAGACGCCTTGTCCTCCGG
Ad17 CAAAGTGACCATAAGCAGGGTGGGCAAAAAGAAACAAGTCAAAAGAAAACTAATGACAAACAAAAGCCATCGCGCAGGAGGCC
Ad40 TCACACTCTAAAAGTCCAGGAGTCCTTTCCATTGTGGCAATAGGCACAGAATCCTCAGAGGGAGGTGGAAGACGGTGGGTTTG
Ad12 AAGTGAATGGAACACCAGCATTGAAAACGTTAAAGCTGGCGGGAGGGCATTAAAGCAAACCACTGCAATGCAGCCGTGCTATG
33620 33630 33640 33650 33660 33670 33680 33690
Ad5 GCACAGCAGCGCACCCTGATCTCACTTAAATCAGCACAGTAACTGCAGCACAGCACCACAATATTGTTCAAAATCCCACAGTG
Ad2 GCACAGCAGCGCACCCTGATCTCACTTAAATCAGCACAGTAACTGCAGCACAGCACCACAATATTGTTCAAAATCCCACAGTG
Ad17 ATCTAAACTAAAGCCAAACACACCTGACACAAAACTAATTACAGTCACTAGTGGGTCAAACGTAACTTTAGTTGGTCCAGATG
Ad40 GTACGAACTCAGTCTGCAGCGAAACCATCTGTCGCGTTGCATCATAAATTAAAAGCTCGCGCACAGCTTCGTACTTCTGTTTT
Ad12 GCTCCTACGCTCGTCCAACCAACGAACACGGAGGACAATCCAAGGATGACAACATTGAACTTAAGTTCTTTGATTCAGCTAAC
33700 33710 33720 33730 33740 33750 33760 33770 33780
Ad5 CAAGGCGCTGTATCCAAAGCTCATGGCGGGGACCACAGAACCCACGTGGCCATCATACCACAAGCGCAGGTAGATTAAGTGGC
Ad2 CAAGGCGCTGTATCCAAAGCTCATGGCGGGGACCACAGAACCCACGTGGCCATCATACCACAAGCGCAGGTAGATTAAGTGGC
Ad17 GAAAGGTCACTTGGTATGATGATGATTTAAAAAGACCATGTGAGCCTGGGTATAAGTTAGGGTGTAAGTGTGACAATCAAAAC
Ad40 AAGAAACGAACACGCTGCCAACAAATGTTCGCAAATCGACGGTTTCGTTGTCGCGCTCTTTCAGTTTTCAGGGCAACGTTCAG
Ad12 AATGCAGCAAACACTGCTCAAGTTGTGTTCTATACCGAAGACGTAAACCTTGAAATGCCAGACACGCATCTTGTGTTTAAGCC
33790 33800 33810 33820 33830 33840 33850 33860

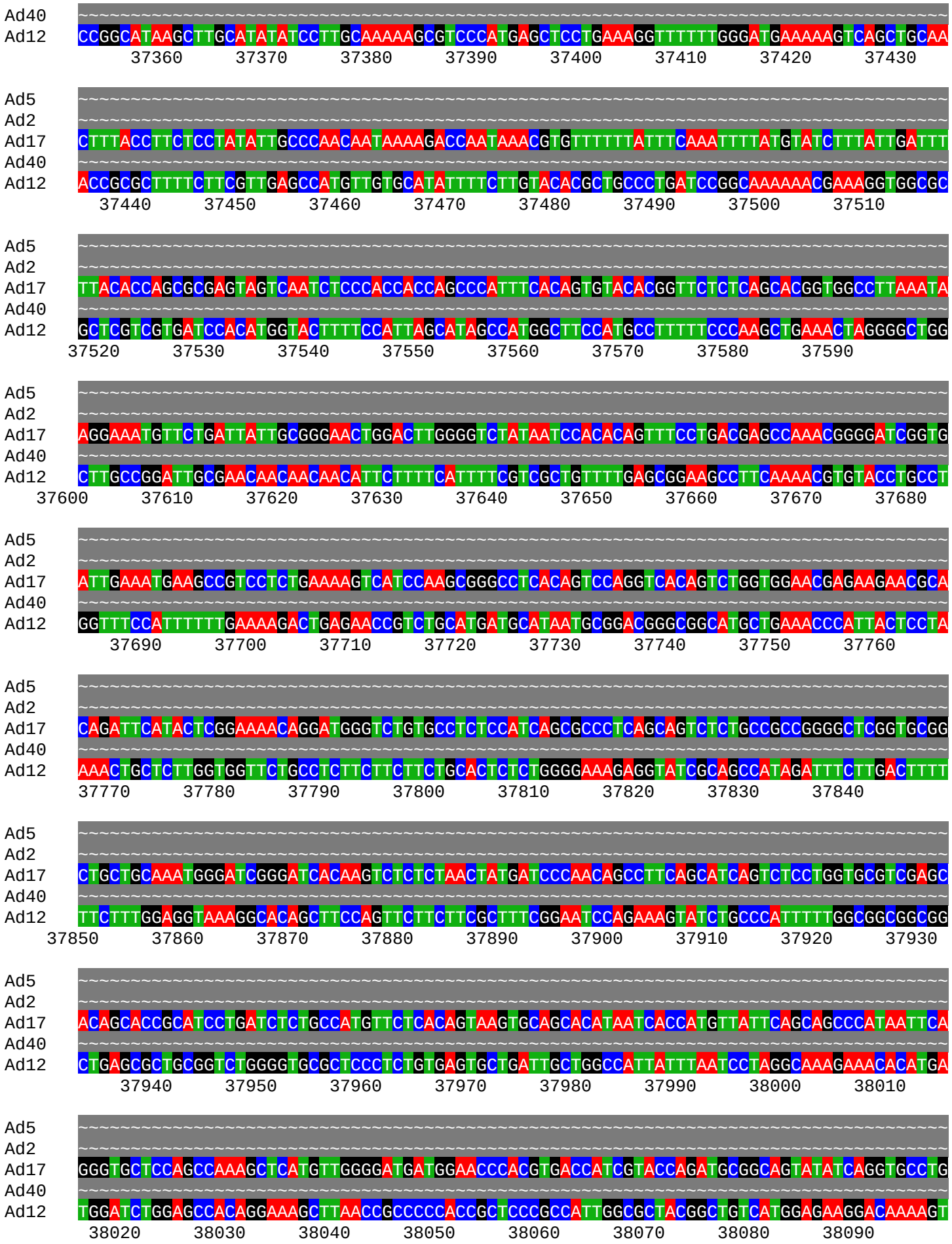

Ad5 GACCCCTCATAAACACGCTGGACATAAACATTACCTCTTTTGGCATGTTGTAATTCACCACCTCCCGGTACCATATAAACCTC
Ad2 GACCCCTCATAAACACGCTGGACATAAACATTACCTCTTTTGGCATGTTGTAATTCACCACCTCCCGGTACCATATAAACCTC
Ad17 CTAACCCTAATCAATGTAACTAAACTTTATGAGGGAGTTTACTATGGTACTAATGACAGAGGCAACAGCAAAAGATACAGAGT
Ad40 CCACTCCTGCAGTCCACTTAACAGCTCCTCAGCCCGTGGAGATATGCTGACATTATACCTTATTATGTCCCCATAAACGTTCA
Ad12 TACTGTTACCAATGGAACAATTGCTTCTGAGTCGCTGTTGGGACAGCAAGCAGCGCCAAATAGAGCAAACTACATTGCATTCA
33870 33880 33890 33900 33910 33920 33930 33940
Ad5 TGATTAAACATGGCGCCATCCACCACCATCCTAAACCAGCTGGCCAAAACCTGCCCGCCGGCTATACACTGCAGGGAACCGGG
Ad2 TGATTAAACATGGCGCCATCCACCACCATCCTAAACCAGCTGGCCAAAACCTGCCCGCCGGCTATGCACTGCAGGGAACCGGG
Ad17 AAAAGTAAACACTACTAATTCTCAAAGTGTGAAAATTCAGCCGTACACCAGGCCTACTACTCCTGATCAGAAACACAGATTTG
Ad40 AACAGCAGGTTAAAGCCAACTCCAACCAAGAAATACAAAGGCCTTGATCCCGACTCACTGGAGGTGGAGGGAGAGACGGAAGA
Ad12 GAGATAATTTTATTGGCCTGATGTATTACAACAGTACAGGCAACATGGGTGTATTGGCCGGGCAAGCTTCCCAACTTAACGCA
33950 33960 33970 33980 33990 34000 34010 34020 34030
Ad5 ACTGGAACAATGACAGTGGAGAGCCCAGGACTCGTAACCATGGATCATCATGCTCGTCATGATATCAATGTTGGCACAACACA
Ad2 ACTGGAACAATGACAGTGGAGAGCCCAGGACTCGTAACCATGGATCATCATGCTCGTCATGATATCAATGTTGGCACAACACA
Ad17 AATTGCAAATTGATTCTAATCAAGACAAAATTCCATCAACTACTGTGGCAATCGTGGTGGGAGTGATCGCGGGCTTTGTAACT
Ad40 GGCATAATTATTCCAGACGGTTGTAAAGCGAGCCAAAGTGCAAGTCACGAAGATCACACCTCTCCCCACCGCTGCGTTGGTGA
Ad12 GTAGTAGACCTGCAAGACAGAAATACAGAGCTGTCATACCAGTTAATGCTGGATGCTTTGGGAGACAGAACACGGTACTTTTC
34040 34050 34060 34070 34080 34090 34100 34110
Ad5 GGCACACGTGCATACACTTCCTCAGGATTACAAGCTCCTCCCGCGTTAGAACCATATCCCAGGGAACAACCCATTCCTGAATC
Ad2 GGCACACGTGCATACACTTCCTCAGGATTACAAGCTCCTCCCGCGTCAGAACCATATCCCAGGGAACAACCCATTCCTGAATC
Ad17 CTAATCATTATTTTCATATGCTACATCTGCTGCCGCAAGCGTCCCAGGTCATACAATCATATGGTAGACCCACTACTCAGCTT
Ad40 AAAATTACAGCCAAGTCAAAAAAGATGCGATTTTCCAAATTACCAATCACGGCTTCCACTAAGGCTGGCACACGCACTTCAAG
Ad12 CTTGTGGAATTCCGCAGTGGACAGTTACGACCCTGACGTTCGCGTTATTGAGAATCACGGGGTAGAGGATGAACTACCAAATT
34120 34130 34140 34150 34160 34170 34180 34190
Ad5 AGCGTAAATCCCACACTGCAGGGAAGACCTCGCACGTAACTCACGTTGTGCATTGTCAAAGTGTTACATTCGGGCAGCAGCGG
Ad2 AGCGTAAATCCCACACTGCAGGGAAGACCTCGCACGTAACTCACGTTGTGCATTGTCAAAGTGTTACATTCGGGCAGCAGCGG
Ad17 CTCTTACTGAAACTCAGTCACTCTCATTTCAGAACCATGAAGGCTTTCACAGCTTGCGTTCTGATTAGCATAGTCACACTTAG
Ad40 AAACACAAACATAGCAAAAGCATTTTCCTCAAAATCTTCAAACATTAAGCTGCAATCTTGAATAATTCCCAAATAATTTTCCG
Ad12 ATTGCTTTCCTCTTAGCGCAGTAGGTGAAATAAAAAATTACAAAGGCATTAAGCCAGATAACGGAGGAGGAGGTGGCTGGACT
34200 34210 34220 34230 34240 34250 34260 34270
Ad5 ATGATCCTCCAGTATGGTAGCGCGGGTTTCTGTCTCAAAAGGAGGTAGACGATCCCTACTGTACGGAGTGCGCCGAGACAACC
Ad2 ATGATCCTCCAGTATGGTAGCGCGGGTCTCTGTCTCAAAAGGAGGTAGGCGATCCCTACTGTACGGAGTGCGCCGAGACAACC
Ad17 TTCAGCTGCAATGATTAATGTTAATGTCACTAGAGGTGGTAAAATTACATTGAATGGGACTTATCCACAAACTACATGGACAA
Ad40 CTTGCCACCCGCGCAACACATCCATTAAAATTTCTTGTAAACTGGCGCCATGTAATTCAAAAAGTTTGTTAAGAGCACCCTCT
Ad12 GCCGACAACACTGTCAGTGAAGCAAACCACATAGGCATTGGGAATATAGCCGCCATGGAAATTAATTTGCAGGCTAATTTGTG
34280 34290 34300 34310 34320 34330 34340 34350 34360
Ad5 GAGATCGTGTTGGTCGTAGTGTCATGCCAAATGGAACGCCGGACGTAGTCATATTTCCTGAAGCAAAACCAGGTGCGGGCGTG
Ad2 GAGATCGTGTTGGTCGTAGTGTCATGCCAAATGGAACGCCGGACGTAGTCATATTTCCTGAAGCAAAACCAGGTGCGGGCGTG
Ad17 GATATCATAAAGATGGATGGAAAAATATTTGTGAATGGAATGTTACTGCATACAAATGCTTCAATAATGGAAGCATTACTATT
Ad40 ACTGTCATACGCAGGCACACCTTCATGGTTGAAAAAGATCAGGTTCCCGTGTCACCTGCAGTTCATTTAAAAGATTAACATTA
Ad12 GAGAAGCTTCTTGTACTCAAATGTGGGCTTATACCTACCAGACGACTTAAAATACACTCCAGGAAACATAAAACTACCTGATA
34370 34380 34390 34400 34410 34420 34430 34440
Ad5 ACAAACAGATCTGCGTCTCCGGTCTCGCCGCTTAGATCGCTCTGTGTAGTAGTTGTAGTATATCCACTCTCTCAAAGCATCCA
Ad2 ACAAACAGATCTGCGTCTCCGGTCTCGTCGCTTAGCTCGCTCTGTGTAGTAGTTGTAGTATATCCACTCTCTCAAAGCATCCA
Ad17 ACTGCCACTGCCAACATTACTTCTGGCACATACAAAGCTGAAAGCTATAAAAATGAAATTAAAAAATTAACCTATAAAAACAA
Ad40 GGCTCAAAACCCCGATCCCGAATCTCCATGCGTAGCATTAGTTGTACAAAGTCATCCAAATCATTGCATATAAGCTCTGTCAG
Ad12 ACAAGAACACCTACGAGTACATGAACGGGCGTGTGACTGCCCCGGGGTTGGTGGATACCTATGTCAATATCGGCGCTCGCTGG
34450 34460 34470 34480 34490 34500 34510 34520
Ad5 GGCGCCCCCTGGCTTCGGGTTCTATGTAAACTCCTTCATGCGCCGCTGCCCTGATAACATCCACCACCGCAGAATAAGCCACA
Ad2 GGCGCCCCCTGGCTTCGGGTTCTATGTAAACTCCTTCATGCGCCGCTGCCCTGATAACATCCACCACCGCAGAATAAGCCACA
Ad17 CAAAACCACATTTGAAGATTCTGGAAATTATGAGCATCAAAAATTATCTTTTTATATGTTGACAATAATTGAACTGCCTACAA
34530 34540 34550 34560 34570 34580 34590 34600 34610

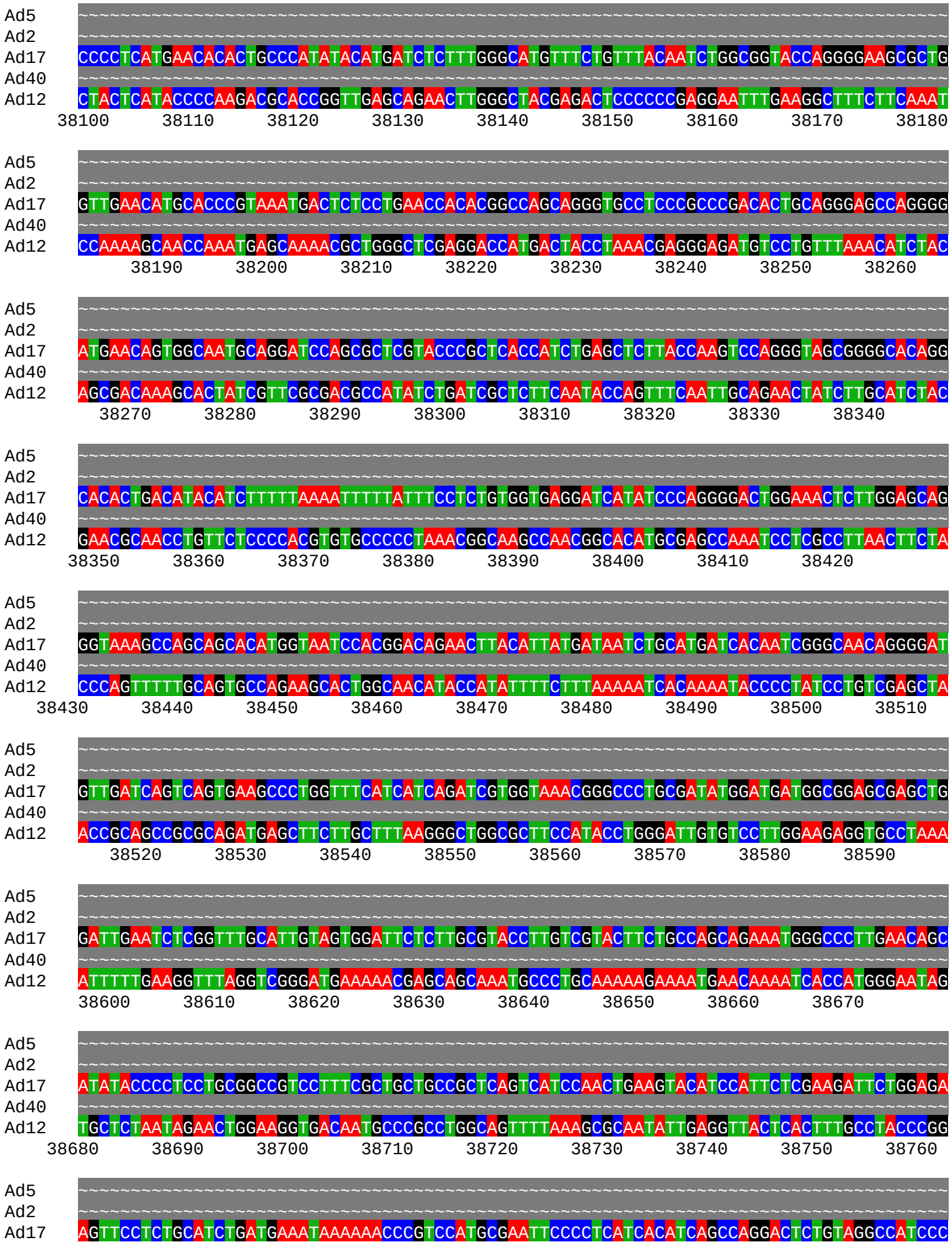

Ad40
Ad12
34530 34540 34550 34560 34570 34580 34590 34600 34610
Ad5
Ad2
Ad17
Ad40
Ad12
34620 34630 34640 34650 34660 34670 34680 34690
Ad5
Ad2
Ad17
Ad40
Ad12
34700 34710 34720 34730 34740 34750 34760 34770
Ad5
Ad2
Ad17
Ad40
Ad12
34780 34790 34800 34810 34820 34830 34840 34850 34860
Ad5
Ad2
Ad17
Ad40
Ad12
34870 34880 34890 34900 34910 34920 34930 34940
Ad5
Ad2
Ad17
Ad40
Ad12
34950 34960 34970 34980 34990 35000 35010 35020
Ad5
Ad2
Ad17
Ad40
Ad12
35030 35040 35050 35060 35070 35080 35090 35100
Ad5
Ad2
Ad17
Ad40
Ad12
35110 35120 35130 35140 35150 35160 35170 35180 35190
Ad5
Ad2
Ad17
Ad40
Ad12
35200 35210 35220 35230 35240 35250 35260 35270

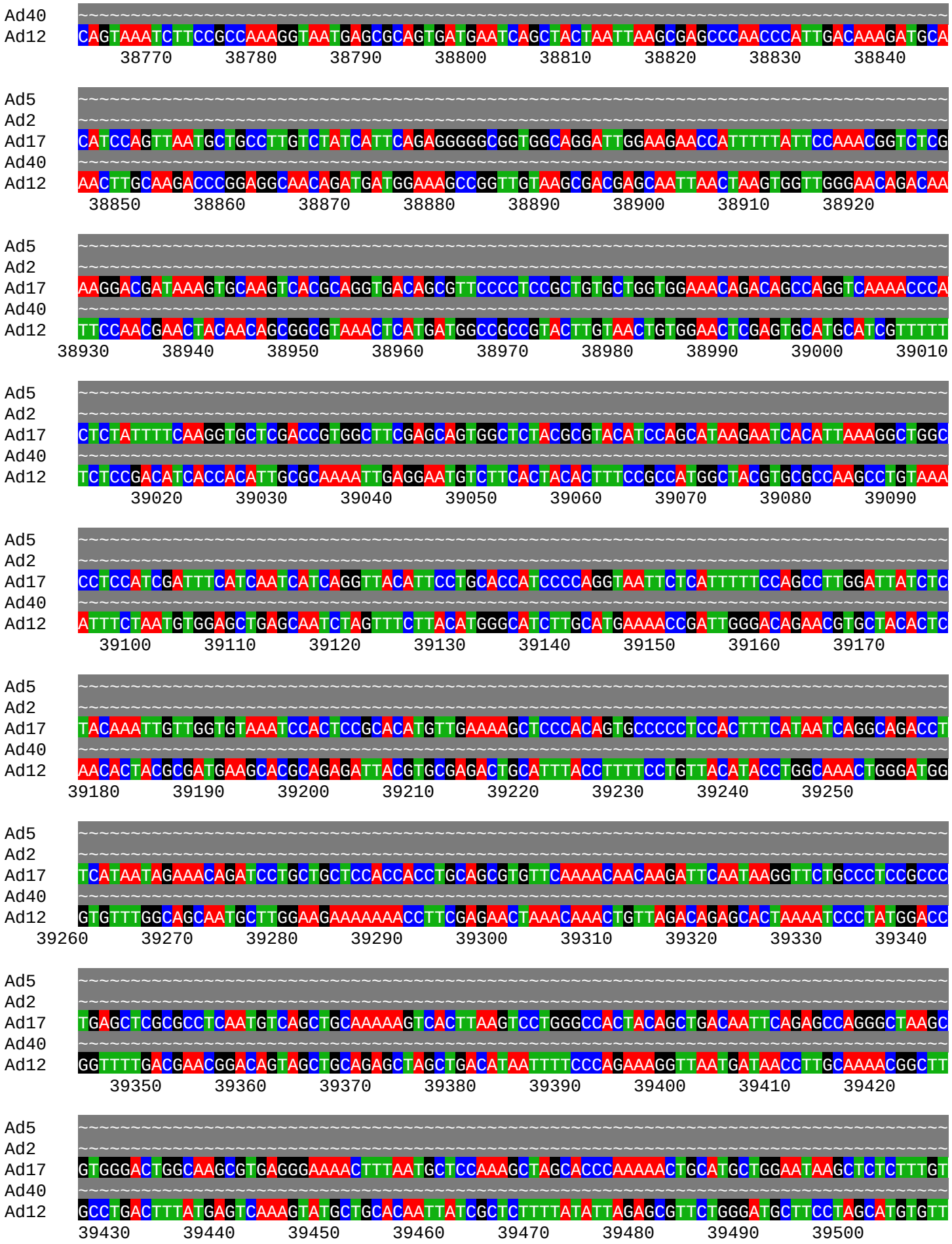

Ad5
Ad2
Ad17
Ad40
Ad12
35280 35290 35300 35310 35320 35330 35340 35350
35360 35370 35380 35390 35400 35410 35420 35430 35440
35450 35460 35470 35480 35490 35500 35510 35520
35530 35540 35550 35560 35570 35580 35590 35600
35610 35620 35630 35640 35650 35660 35670 35680 35690
35700 35710 35720 35730 35740 35750 35760 35770
35780 35790 35800 35810 35820 35830 35840 35850
35860 35870 35880 35890 35900 35910 35920 35930
35940 35950 35960 35970 35980 35990 36000 36010 36020

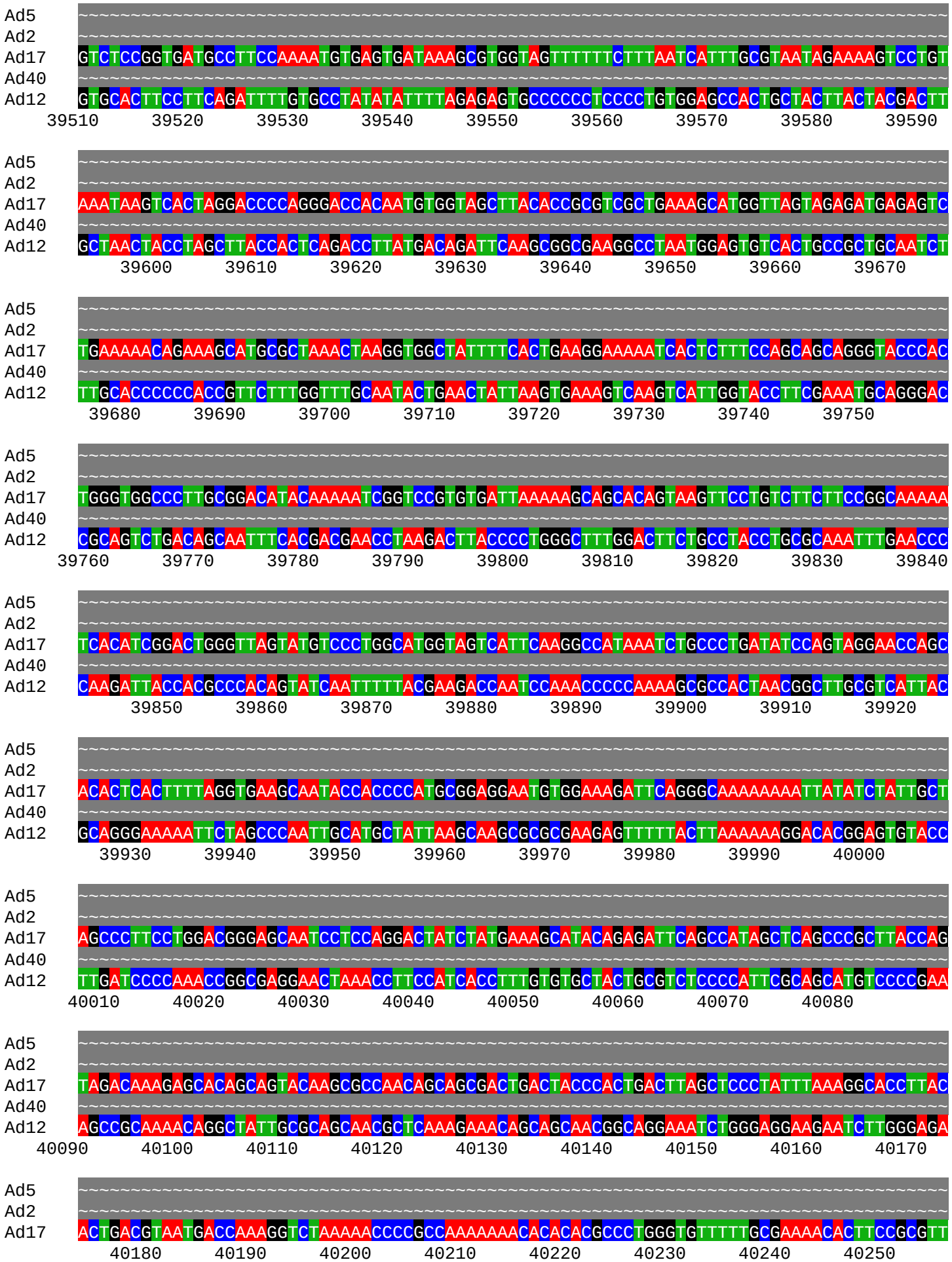

Ad40
Ad12
35940 35950 35960 35970 35980 35990 36000 36010 36020
Ad5
Ad2
Ad17
Ad40
Ad12
36030 36040 36050 36060 36070 36080 36090 36100
Ad5
Ad2
Ad17
Ad40
Ad12
36110 36120 36130 36140 36150 36160 36170 36180
Ad5
Ad2
Ad17
Ad40
Ad12
36190 36200 36210 36220 36230 36240 36250 36260 36270
Ad5
Ad2
Ad17
Ad40
Ad12
36280 36290 36300 36310 36320 36330 36340 36350
Ad5
Ad2
Ad17
Ad40
Ad12
36360 36370 36380 36390 36400 36410 36420 36430
Ad5
Ad2
Ad17
Ad40
Ad12
36440 36450 36460 36470 36480 36490 36500 36510 36520
Ad5
Ad2
Ad17
Ad40
Ad12
36530 36540 36550 36560 36570 36580 36590 36600
Ad5
Ad2
Ad17
Ad40
Ad12
36610 36620 36630 36640 36650 36660 36670 36680

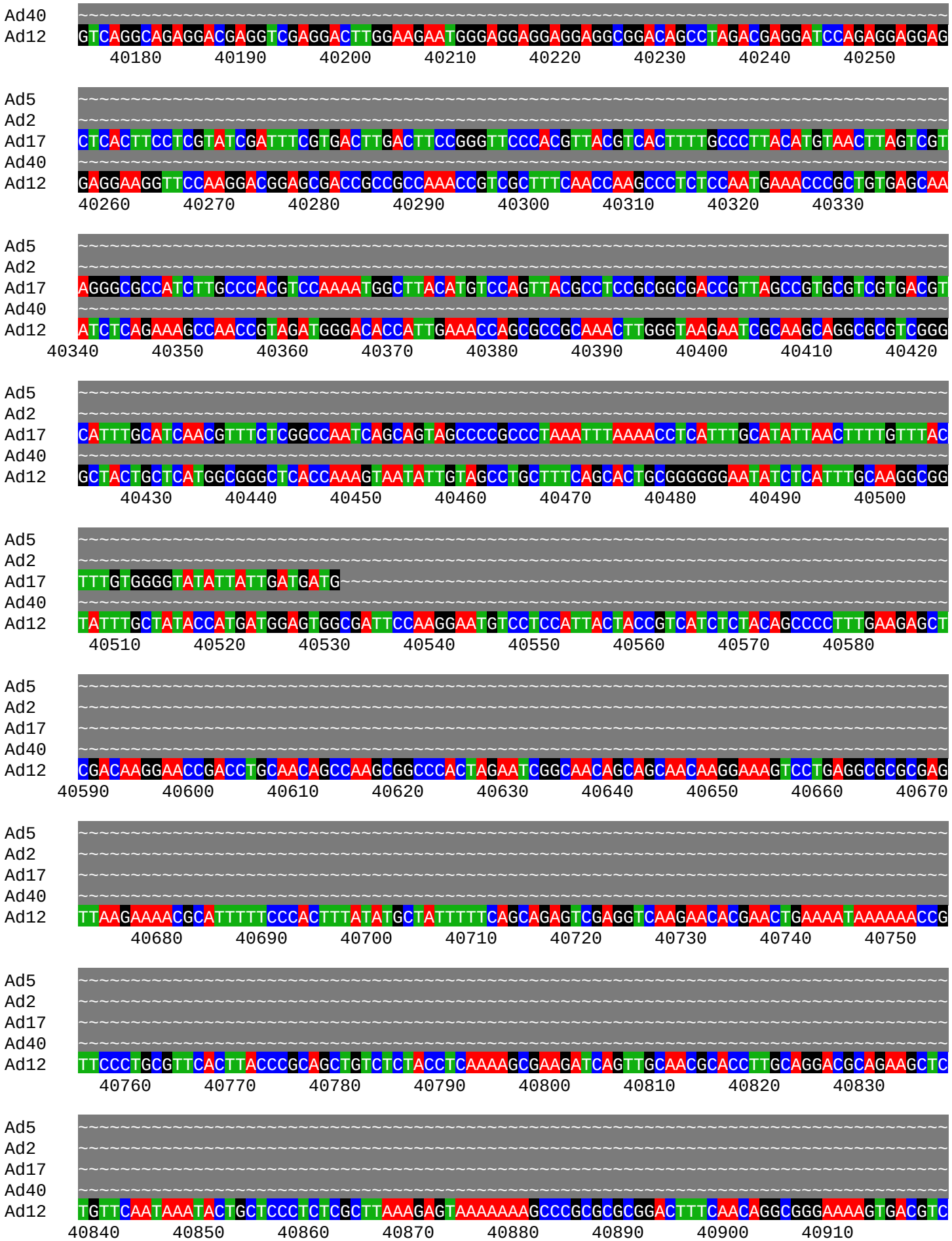

Ad5
Ad2
Ad17
Ad40
Ad12
36690 36700 36710 36720 36730 36740 36750 36760
36770 36780 36790 36800 36810 36820 36830 36840 36850
36860 36870 36880 36890 36900 36910 36920 36930
36940 36950 36960 36970 36980 36990 37000 37010
37020 37030 37040 37050 37060 37070 37080 37090 37100
37110 37120 37130 37140 37150 37160 37170 37180
37190 37200 37210 37220 37230 37240 37250 37260
37270 37280 37290 37300 37310 37320 37330 37340 37350
37360 37370 37380 37390 37400 37410 37420 37430

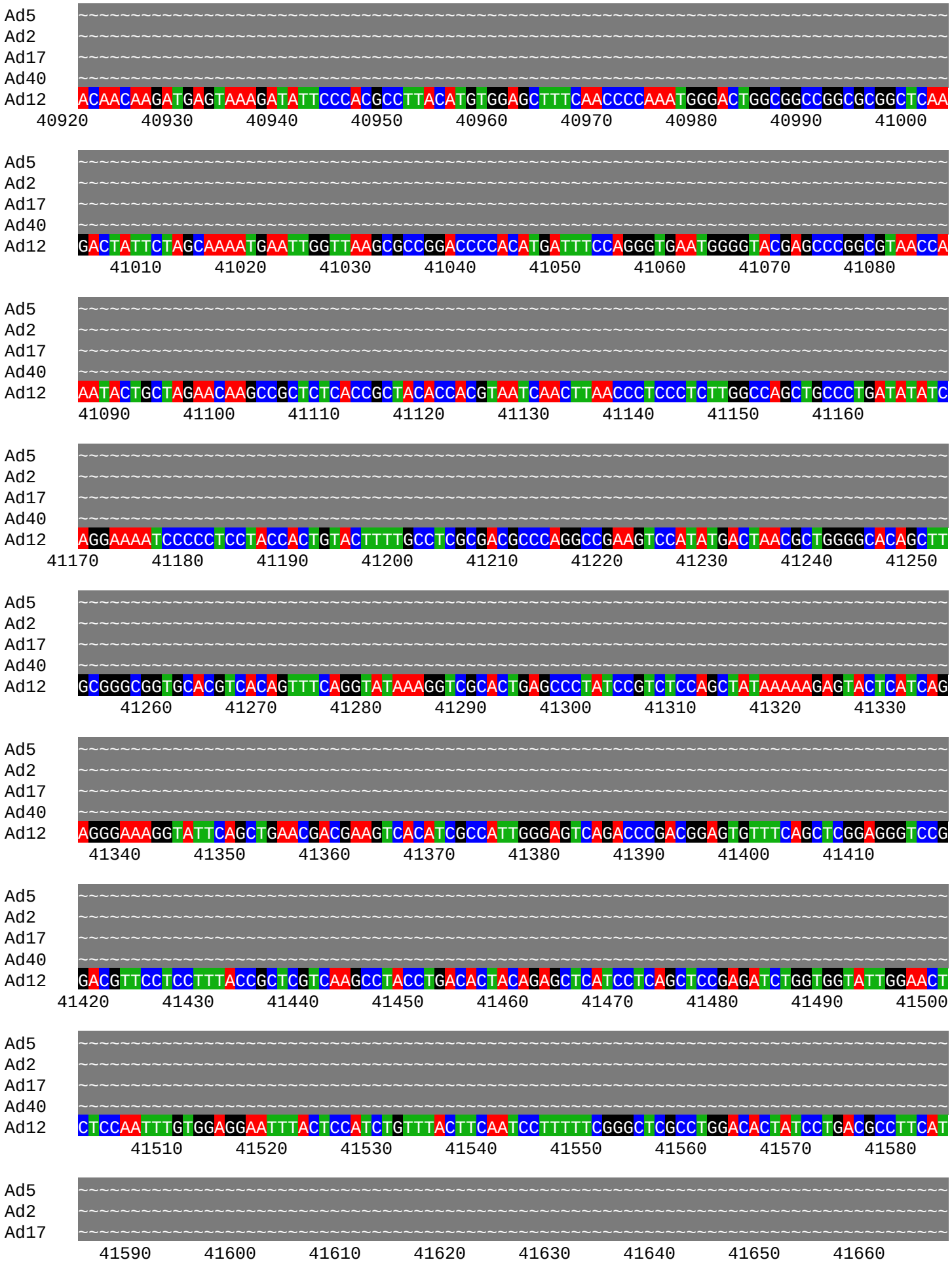

Ad40
Ad12
37360 37370 37380 37390 37400 37410 37420 37430
Ad5
Ad2
Ad17
Ad40
Ad12
37440 37450 37460 37470 37480 37490 37500 37510
Ad5
Ad2
Ad17
Ad40
Ad12
37520 37530 37540 37550 37560 37570 37580 37590
Ad5
Ad2
Ad17
Ad40
Ad12
37600 37610 37620 37630 37640 37650 37660 37670 37680
Ad5
Ad2
Ad17
Ad40
Ad12
37690 37700 37710 37720 37730 37740 37750 37760
Ad5
Ad2
Ad17
Ad40
Ad12
37770 37780 37790 37800 37810 37820 37830 37840
Ad5
Ad2
Ad17
Ad40
Ad12
37850 37860 37870 37880 37890 37900 37910 37920 37930
Ad5
Ad2
Ad17
Ad40
Ad12
37940 37950 37960 37970 37980 37990 38000 38010
Ad5
Ad2
Ad17
Ad40
Ad12
38020 38030 38040 38050 38060 38070 38080 38090

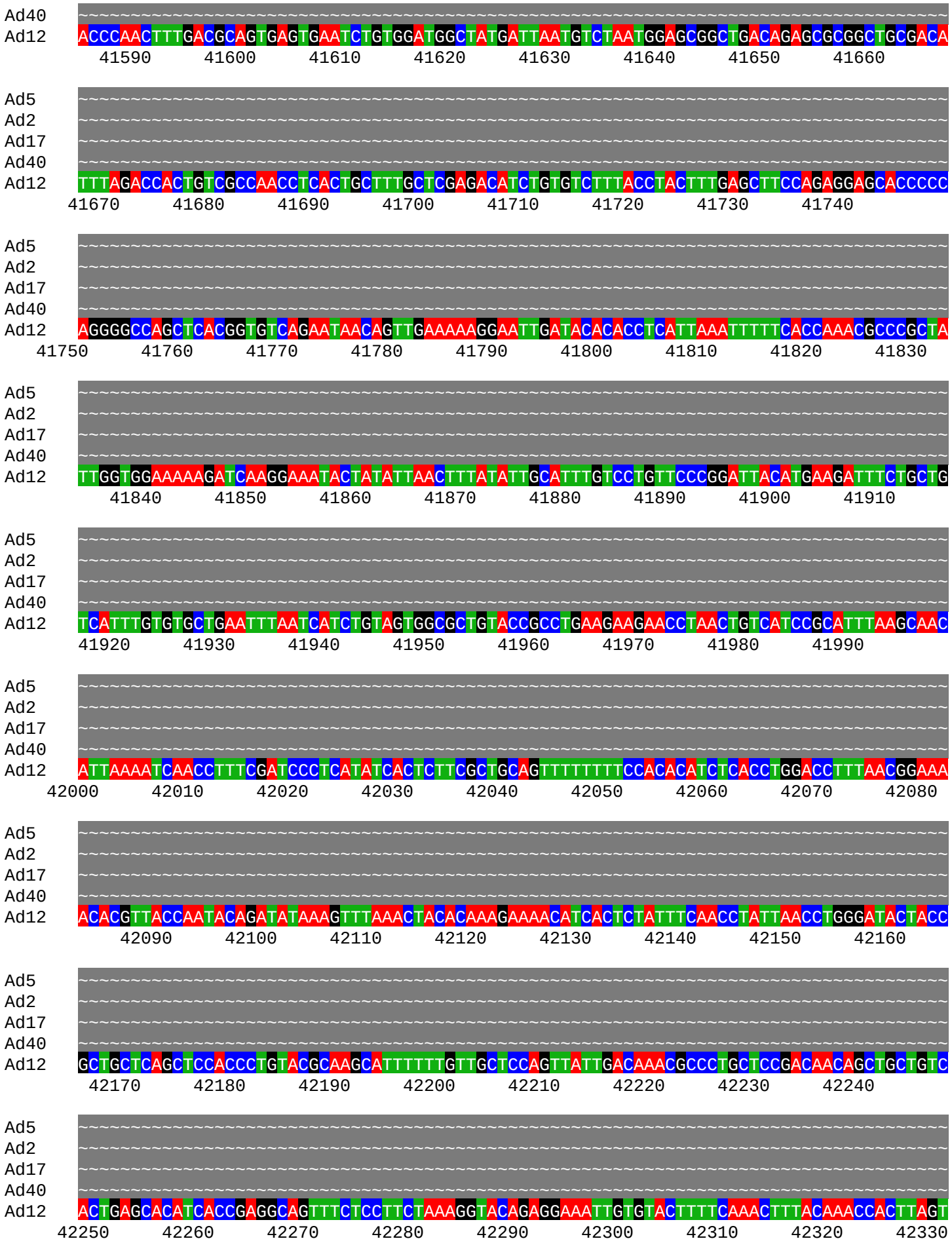

Ad5
Ad2
Ad17
Ad40
Ad12
38100 38110 38120 38130 38140 38150 38160 38170 38180
38190 38200 38210 38220 38230 38240 38250 38260
38270 38280 38290 38300 38310 38320 38330 38340
38350 38360 38370 38380 38390 38400 38410 38420
38430 38440 38450 38460 38470 38480 38490 38500 38510
38520 38530 38540 38550 38560 38570 38580 38590
38600 38610 38620 38630 38640 38650 38660 38670
38680 38690 38700 38710 38720 38730 38740 38750 38760
38770 38780 38790 38800 38810 38820 38830 38840

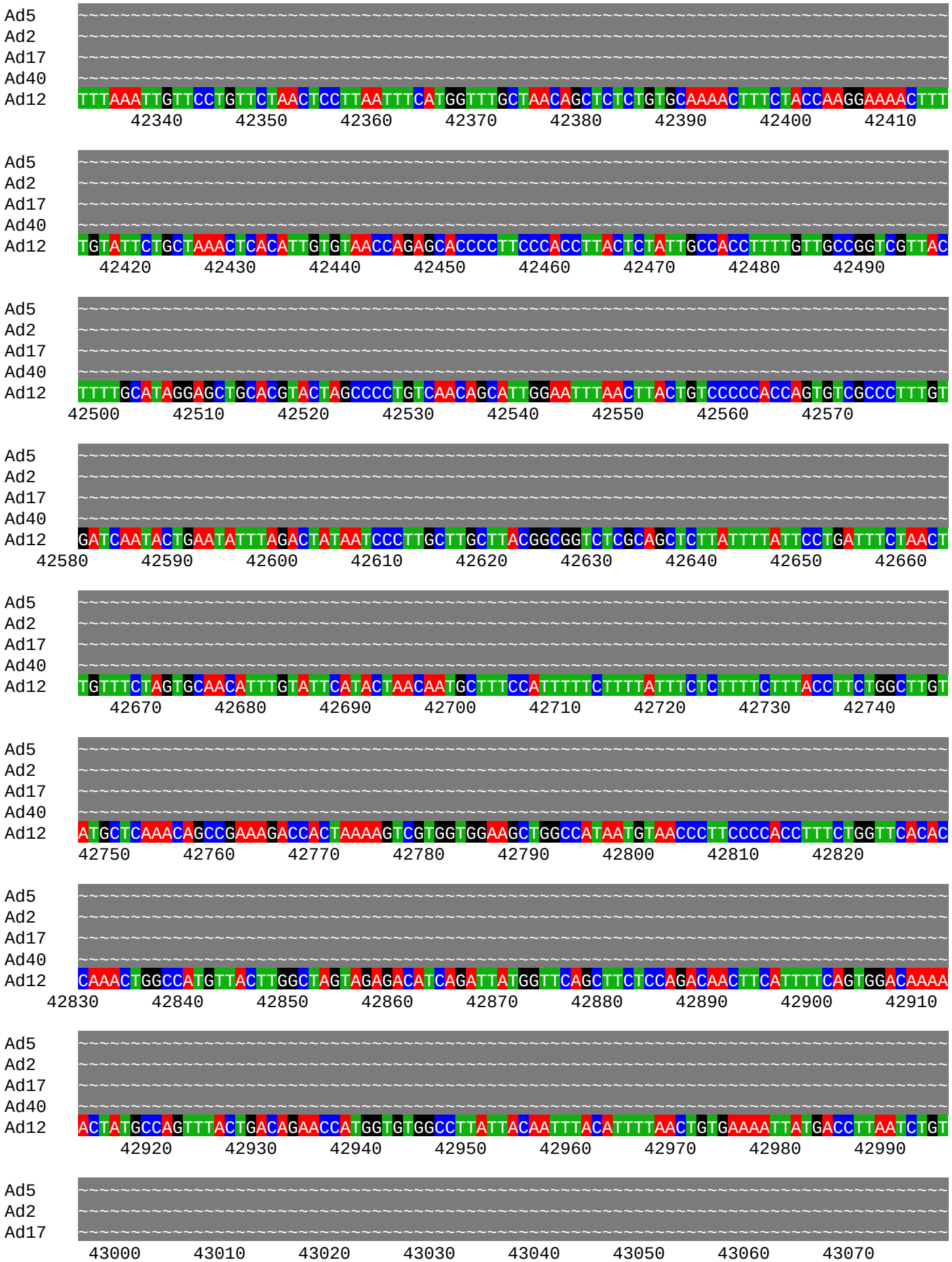

Ad40
Ad12
38770 38780 38790 38800 38810 38820 38830 38840
Ad5
Ad2
Ad17
Ad40
Ad12
38850 38860 38870 38880 38890 38900 38910 38920
Ad5
Ad2
Ad17
Ad40
Ad12
38930 38940 38950 38960 38970 38980 38990 39000 39010
Ad5
Ad2
Ad17
Ad40
Ad12
39020 39030 39040 39050 39060 39070 39080 39090
Ad5
Ad2
Ad17
Ad40
Ad12
39100 39110 39120 39130 39140 39150 39160 39170
Ad5
Ad2
Ad17
Ad40
Ad12
39180 39190 39200 39210 39220 39230 39240 39250
Ad5
Ad2
Ad17
Ad40
Ad12
39260 39270 39280 39290 39300 39310 39320 39330 39340
Ad5
Ad2
Ad17
Ad40
Ad12
39350 39360 39370 39380 39390 39400 39410 39420
Ad5
Ad2
Ad17
Ad40
Ad12
39430 39440 39450 39460 39470 39480 39490 39500

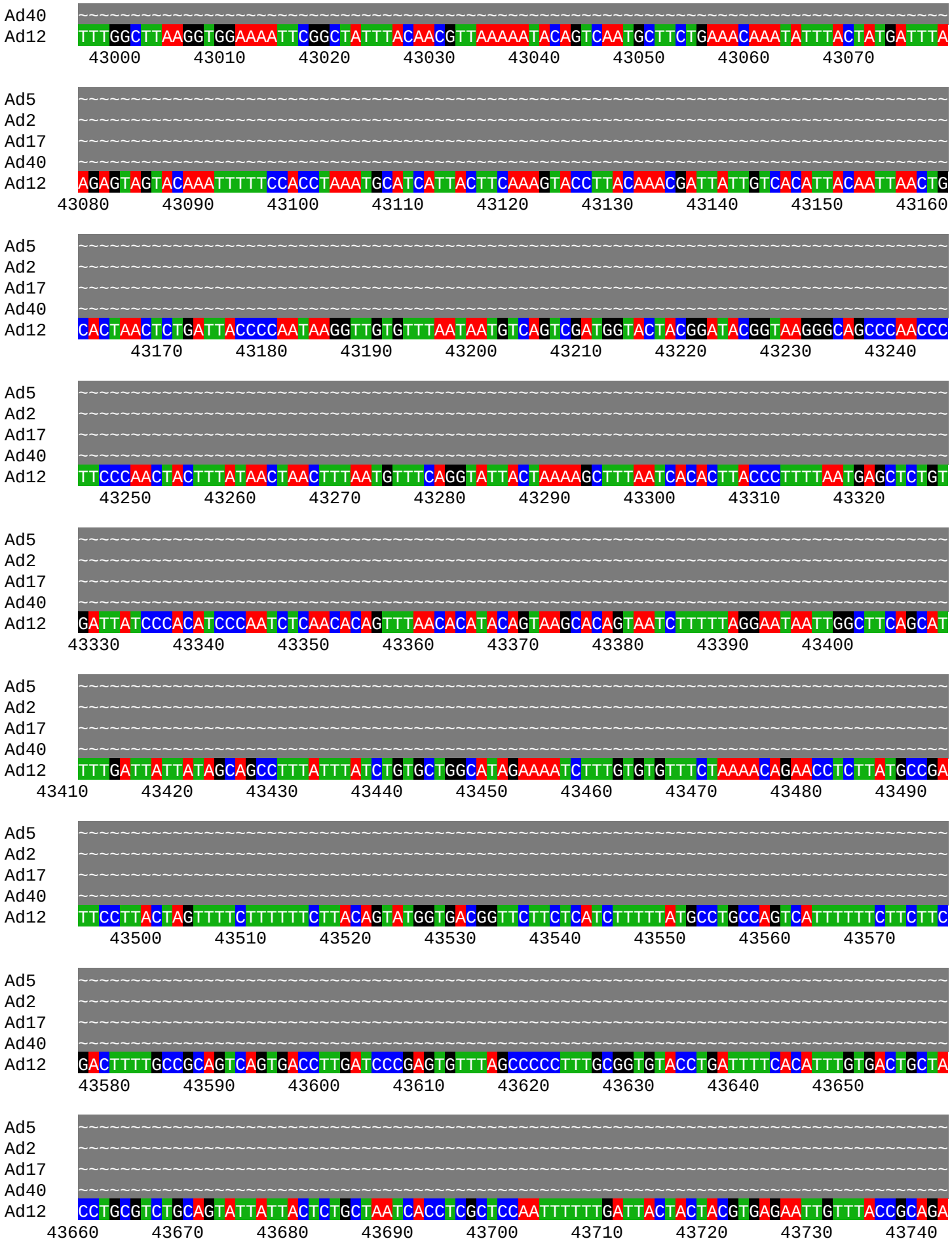

Ad5
Ad2
Ad17
Ad40
Ad12
39510 39520 39530 39540 39550 39560 39570 39580 39590
39600 39610 39620 39630 39640 39650 39660 39670
39680 39690 39700 39710 39720 39730 39740 39750
39760 39770 39780 39790 39800 39810 39820 39830 39840
39850 39860 39870 39880 39890 39900 39910 39920
39930 39940 39950 39960 39970 39980 39990 40000
40010 40020 40030 40040 40050 40060 40070 40080
40090 40100 40110 40120 40130 40140 40150 40160 40170
40180 40190 40200 40210 40220 40230 40240 40250

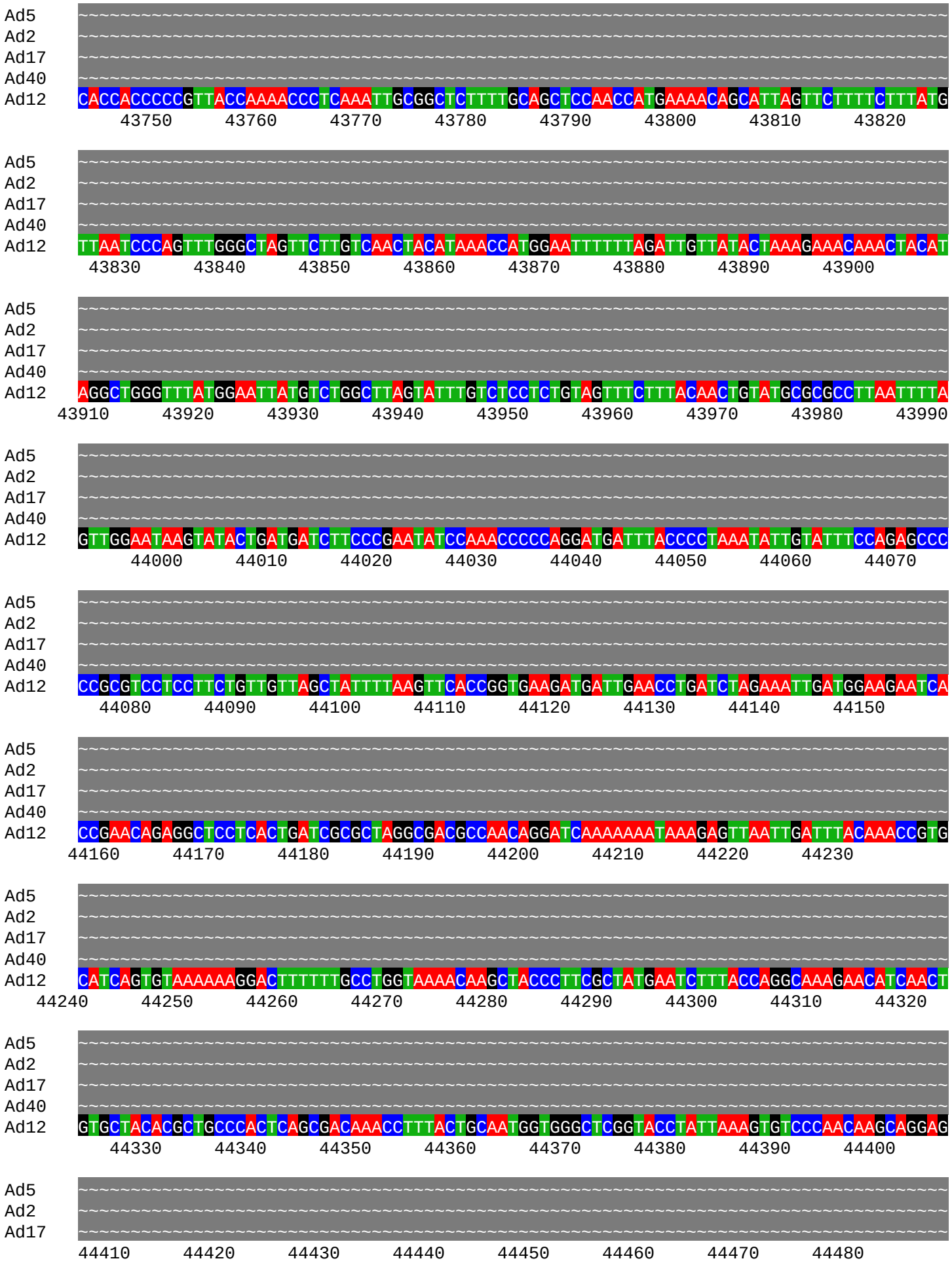

Ad40
Ad12
40180 40190 40200 40210 40220 40230 40240 40250
Ad5
Ad2
Ad17
Ad40
Ad12
40260 40270 40280 40290 40300 40310 40320 40330
Ad5
Ad2
Ad17
Ad40
Ad12
40340 40350 40360 40370 40380 40390 40400 40410 40420
Ad5
Ad2
Ad17
Ad40
Ad12
40430 40440 40450 40460 40470 40480 40490 40500
Ad5
Ad2
Ad17
Ad40
Ad12
40510 40520 40530 40540 40550 40560 40570 40580
Ad5
Ad2
Ad17
Ad40
Ad12
40590 40600 40610 40620 40630 40640 40650 40660 40670
Ad5
Ad2
Ad17
Ad40
Ad12
40680 40690 40700 40710 40720 40730 40740 40750
Ad5
Ad2
Ad17
Ad40
Ad12
40760 40770 40780 40790 40800 40810 40820 40830
Ad5
Ad2
Ad17
Ad40
Ad12
40840 40850 40860 40870 40880 40890 40900 40910

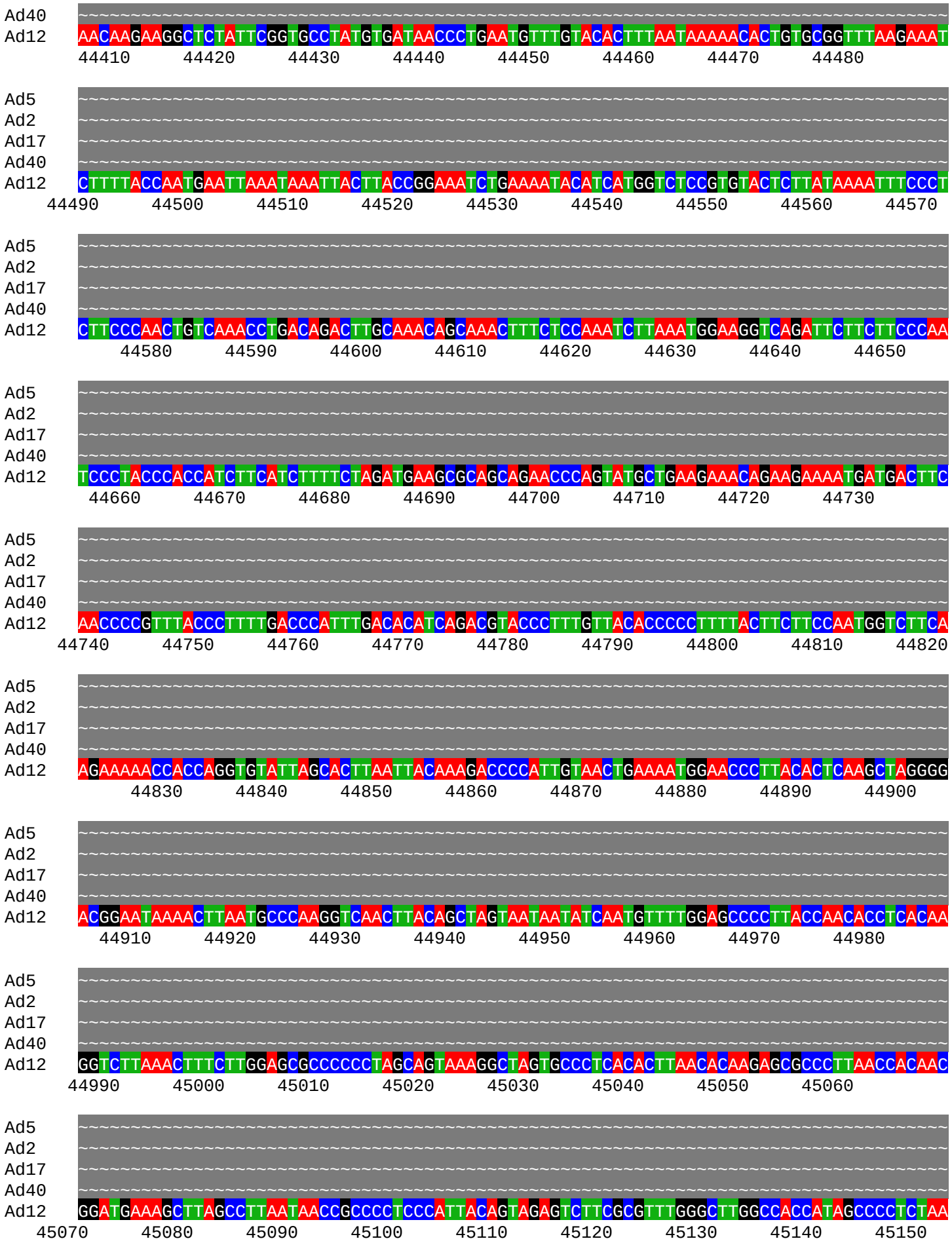

Ad5
Ad2
Ad17
Ad40
Ad12
ACAACAAGATGAGTAAAGATATTCCCACGCCTTACATGTGGAGCTTTCAACCCCAAATGGGACTGGCGGCCGGCGCGGCTCAA
40920 40930 40940 40950 40960 40970 40980 40990 41000
GACTATTCTAGCAAAATGAATTGGTTAAGCGCCGGACCCCACATGATTTCCAGGGTGAATGGGGTACGAGCCCGGCGTAACCA
41010 41020 41030 41040 41050 41060 41070 41080
AATACTGCTAGAACAAGCCGCTCTCACCGCTACACCACGTAATCAACTTAACCCTCCCTCTTGGCCAGCTGCCCTGATATATC
41090 41100 41110 41120 41130 41140 41150 41160
AGGAAAATCCCCCTCCTACCACTGTACTTTTGCCTCGCGACGCCCAGGCCGAAGTCCATATGACTAACGCTGGGGCACAGCTT
41170 41180 41190 41200 41210 41220 41230 41240 41250
GCGGGCGGTGCACGTCACAGTTTCAGGTATAAAGGTCGCACTGAGCCCTATCCGTCTCCAGCTATAAAAAGAGTACTCATCAG
41260 41270 41280 41290 41300 41310 41320 41330
AGGGAAAGGTATTCAGCTGAACGACGAAGTCACATCGCCATTGGGAGTCAGACCCGACGGAGTGTTTCAGCTCGGAGGGTCCG
41340 41350 41360 41370 41380 41390 41400 41410
GACGTTCCTCCTTTACCGCTCGTCAAGCCTACCTGACACTACAGAGCTCATCCTCAGCTCCGAGATCTGGTGGTATTGGAACT
41420 41430 41440 41450 41460 41470 41480 41490 41500
CTCCAATTTGTGGAGGAATTTACTCCATCTGTTTACTTCAATCCTTTTTCGGGCTCGCCTGGACACTATCCTGACGCCTTCAT
41510 41520 41530 41540 41550 41560 41570 41580
41590 41600 41610 41620 41630 41640 41650 41660

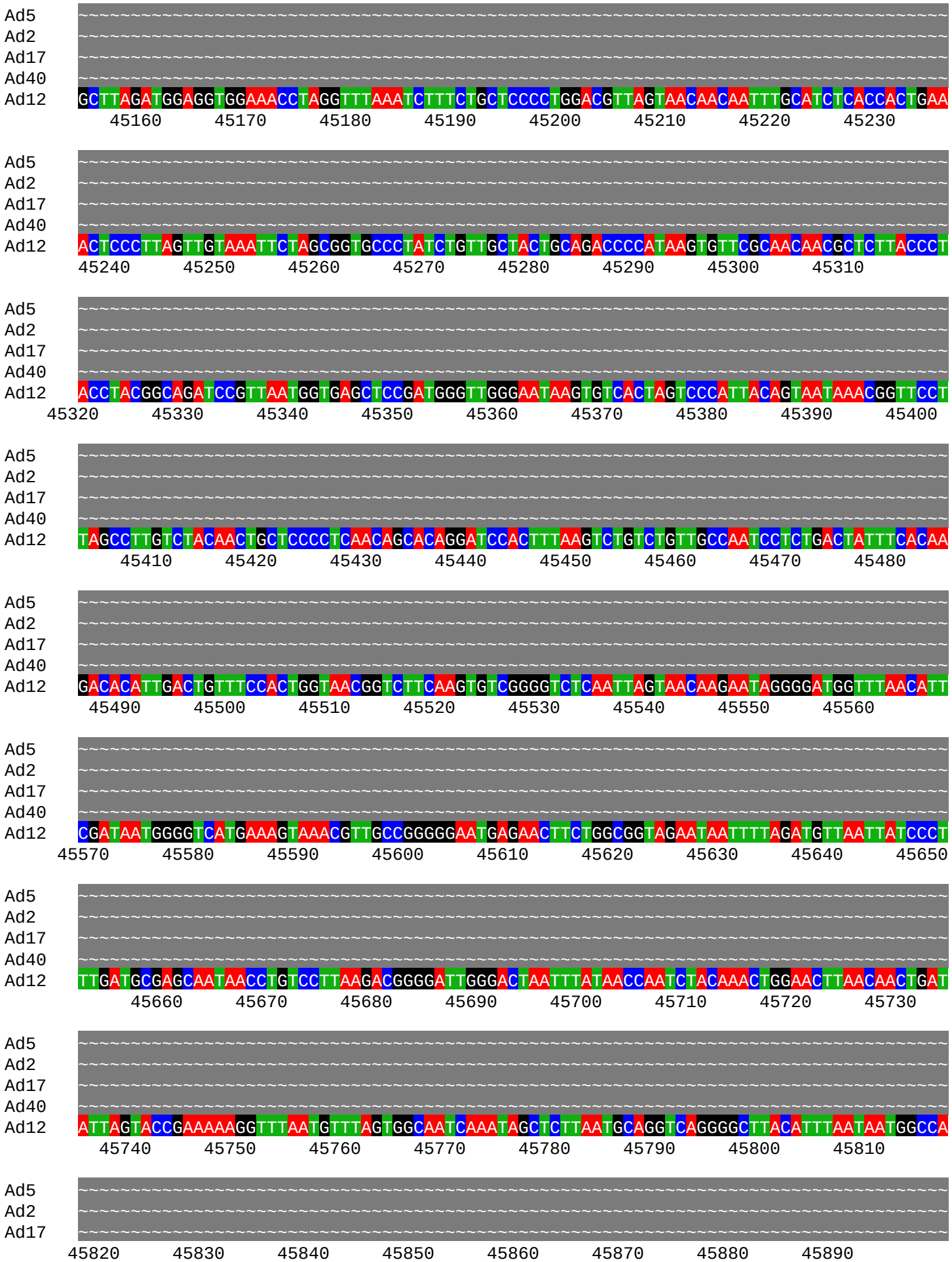

Ad40
Ad12
ACCCAACTTTGACGCAGTGAGTGAATCTGTGGATGGCTATGATTAATGTCTAATGGAGCGGCTGACAGAGCGCGGCTGCGACA
41590 41600 41610 41620 41630 41640 41650 41660
Ad5
Ad2
Ad17
Ad40
Ad12
TTTAGACCACTGTCGCCAACCTCACTGCTTTGCTCGAGACATCTGTGTCTTTACCTACTTTGAGCTTCCAGAGGAGCACCCCC
41670 41680 41690 41700 41710 41720 41730 41740
Ad5
Ad2
Ad17
Ad40
Ad12
AGGGGCCAGCTCACGGTGTCAGAATAACAGTTGAAAAAGGAATTGATACACACCTCATTAAATTTTTCACCAAACGCCCGCTA
41750 41760 41770 41780 41790 41800 41810 41820 41830
Ad5
Ad2
Ad17
Ad40
Ad12
TTGGTGGAAAAAGATCAAGGAAATACTATATTAACTTTATATTGCATTTGTCCTGTTCCCGGATTACATGAAGATTTCTGCTG
41840 41850 41860 41870 41880 41890 41900 41910
Ad5
Ad2
Ad17
Ad40
Ad12
TCATTTGTGTGCTGAATTTAATCATCTGTAGTGGCGCTGTACCGCCTGAAGAAGAACCTAACTGTCATCCGCATTTAAGCAAC
41920 41930 41940 41950 41960 41970 41980 41990
Ad5
Ad2
Ad17
Ad40
Ad12
ATTAAAATCAACCTTTCGATCCCTCATATCACTCTTCGCTGCAGTTTTTTTTCCACACATCTCACCTGGACCTTTAACGGAAA
42000 42010 42020 42030 42040 42050 42060 42070 42080
Ad5
Ad2
Ad17
Ad40
Ad12
ACACGTTACCAATACAGATATAAAGTTTAAACTACACAAAGAAAACATCACTCTATTTCAACCTATTAACCTGGGATACTACC
42090 42100 42110 42120 42130 42140 42150 42160
Ad5
Ad2
Ad17
Ad40
Ad12
GCTGCTCAGCTCCACCCTGTACGCAAGCATTTTTTGTTGCTCCAGTTATTGACAAACGCCCTGCTCCGACAACAGCTGCTGTC
42170 42180 42190 42200 42210 42220 42230 42240
Ad5
Ad2
Ad17
Ad40
Ad12
ACTGAGCACATCACCGAGGCAGTTTCTCCTTCTAAAGGTACAGAGGAAATTGTGTACTTTTCAAACTTTACAAACCACTTAGT
42250 42260 42270 42280 42290 42300 42310 42320 42330

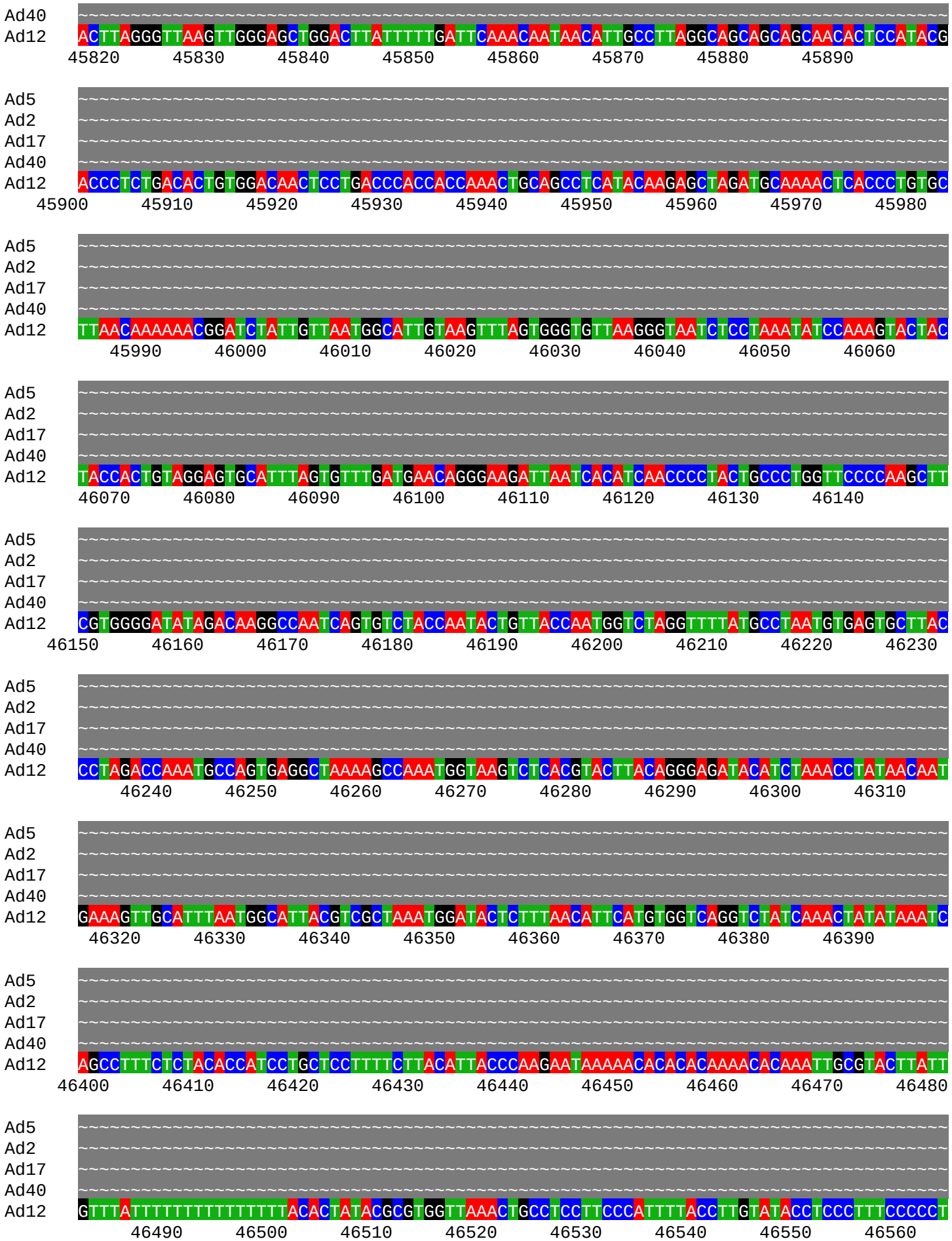

Ad5
Ad2
Ad17
Ad40
Ad12
TTTAAATTGTTCCTGTTCTAACTCCTTAATTTCATGGTTTGCTAACAGCTCTCTGTGCAAAACTTTCTACCAAGGAAAACTTT
42340 42350 42360 42370 42380 42390 42400 42410
Ad5
Ad2
Ad17
Ad40
Ad12
TGTATTCTGCTAAACTCACATTGTGTAACCAGAGCACCCCTTCCCACCTTACTCTATTGCCACCTTTTGTTGCCGGTCGTTAC
42420 42430 42440 42450 42460 42470 42480 42490
Ad5
Ad2
Ad17
Ad40
Ad12
TTTTGCATAGGAGCTGCACGTACTAGCCCCTGTCAACAGCATTGGAATTTAACTTACTGTCCCCCACCAGTGTCGCCCTTTGT
42500 42510 42520 42530 42540 42550 42560 42570
Ad5
Ad2
Ad17
Ad40
Ad12
GATCAATACTGAATATTTAGACTATAATCCCTTGCTTGCTTACGGCGGTCTCGCAGCTCTTATTTTATTCCTGATTTCTAACT
42580 42590 42600 42610 42620 42630 42640 42650 42660
Ad5
Ad2
Ad17
Ad40
Ad12
TGTTTCTAGTGCAACATTTGTATTCATACTAACAATGCTTTCCATTTTTCTTTTATTTCTCTTTTCTTTACCTTCTGGCTTGT
42670 42680 42690 42700 42710 42720 42730 42740
Ad5
Ad2
Ad17
Ad40
Ad12
ATGCTCAAACAGCCGAAAGACCACTAAAAGTCGTGGTGGAAGCTGGCCATAATGTAACCCTTCCCCACCTTTCTGGTTCACAC
42750 42760 42770 42780 42790 42800 42810 42820
Ad5
Ad2
Ad17
Ad40
Ad12
CAAACTGGCCATGTTACTTGGCTAGTAGAGACATCAGATTATGGTTCAGCTTCTCCAGACAACTTCATTTTCAGTGGACAAAA
42830 42840 42850 42860 42870 42880 42890 42900 42910
Ad5
Ad2
Ad17
Ad40
Ad12
ACTATGCCAGTTTACTGACAGAACCATGGTGTGGCCTTATTACAATTTACATTTTAACTGTGAAAATTATGACCTTAATCTGT
42920 42930 42940 42950 42960 42970 42980 42990
Ad5
Ad2
Ad17
43000 43010 43020 43030 43040 43050 43060 43070

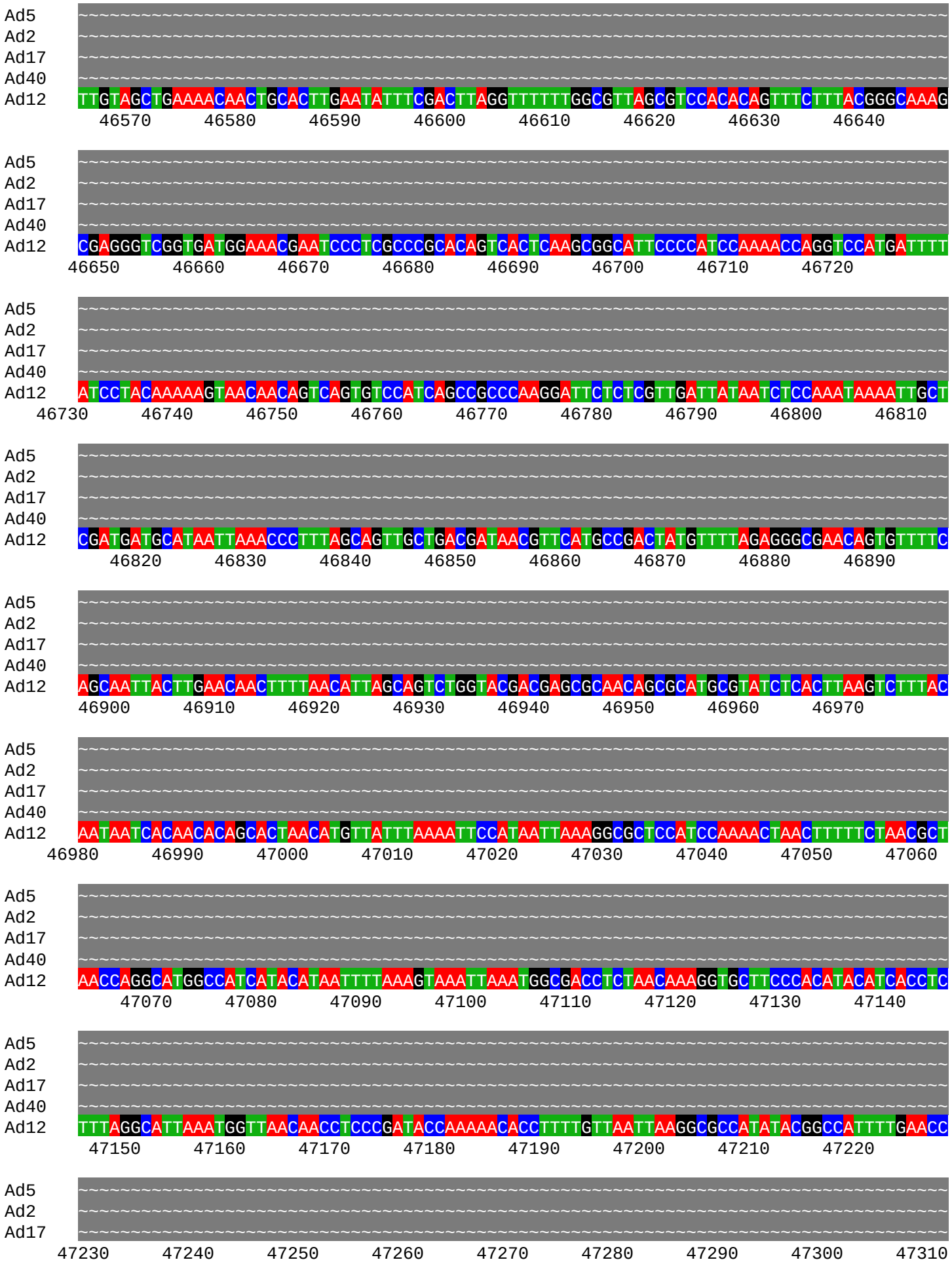

Ad40
Ad12
TTTGGCTTAAGGTGGAAAATTCGGCTATTTACAACGTTAAAAATACAGTCAATGCTTCTGAAACAAATATTTACTATGATTTA
43000 43010 43020 43030 43040 43050 43060 43070
Ad5
Ad2
Ad17
Ad40
Ad12
AGAGTAGTACAAATTTTTCCACCTAAATGCATCATTACTTCAAAGTACCTTACAAACGATTATTGTCACATTACAATTAACTG
43080 43090 43100 43110 43120 43130 43140 43150 43160
Ad5
Ad2
Ad17
Ad40
Ad12
CACTAACTCTGATTACCCCAATAAGGTTGTGTTTAATAATGTCAGTCGATGGTACTACGGATACGGTAAGGGCAGCCCAACCC
43170 43180 43190 43200 43210 43220 43230 43240
Ad5
Ad2
Ad17
Ad40
Ad12
TTCCCAACTACTTTATAACTAACTTTAATGTTTCAGGTATTACTAAAAGCTTTAATCACACTTACCCTTTTAATGAGCTCTGT
43250 43260 43270 43280 43290 43300 43310 43320
Ad5
Ad2
Ad17
Ad40
Ad12
GATTATCCCACATCCCAATCTCAACACAGTTTAACACATACAGTAAGCACAGTAATCTTTTTAGGAATAATTGGCTTCAGCAT
43330 43340 43350 43360 43370 43380 43390 43400
Ad5
Ad2
Ad17
Ad40
Ad12
TTTGATTATTATAGCAGCCTTTATTTATCTGTGCTGGCATAGAAAATCTTTGTGTGTTTCTAAAACAGAACCTCTTATGCCGA
43410 43420 43430 43440 43450 43460 43470 43480 43490
Ad5
Ad2
Ad17
Ad40
Ad12
TTCCTTACTAGTTTTCTTTTTTCTTACAGTATGGTGACGGTTCTTCTCATCTTTTTATGCCTGCCAGTCATTTTTTCTTCTTC
43500 43510 43520 43530 43540 43550 43560 43570
Ad5
Ad2
Ad17
Ad40
Ad12
GACTTTTGCCGCAGTCAGTGACCTTGATCCCGAGTGTTTAGCCCCCTTTGCGGTGTACCTGATTTTCACATTTGTGACTGCTA
43580 43590 43600 43610 43620 43630 43640 43650
Ad5
Ad2
Ad17
Ad40
Ad12
CCTGCGTCTGCAGTATTATTACTCTGCTAATCACCTCGCTCCAATTTTTTGATTACTACTACGTGAGAATTGTTTACCGCAGA
43660 43670 43680 43690 43700 43710 43720 43730 43740

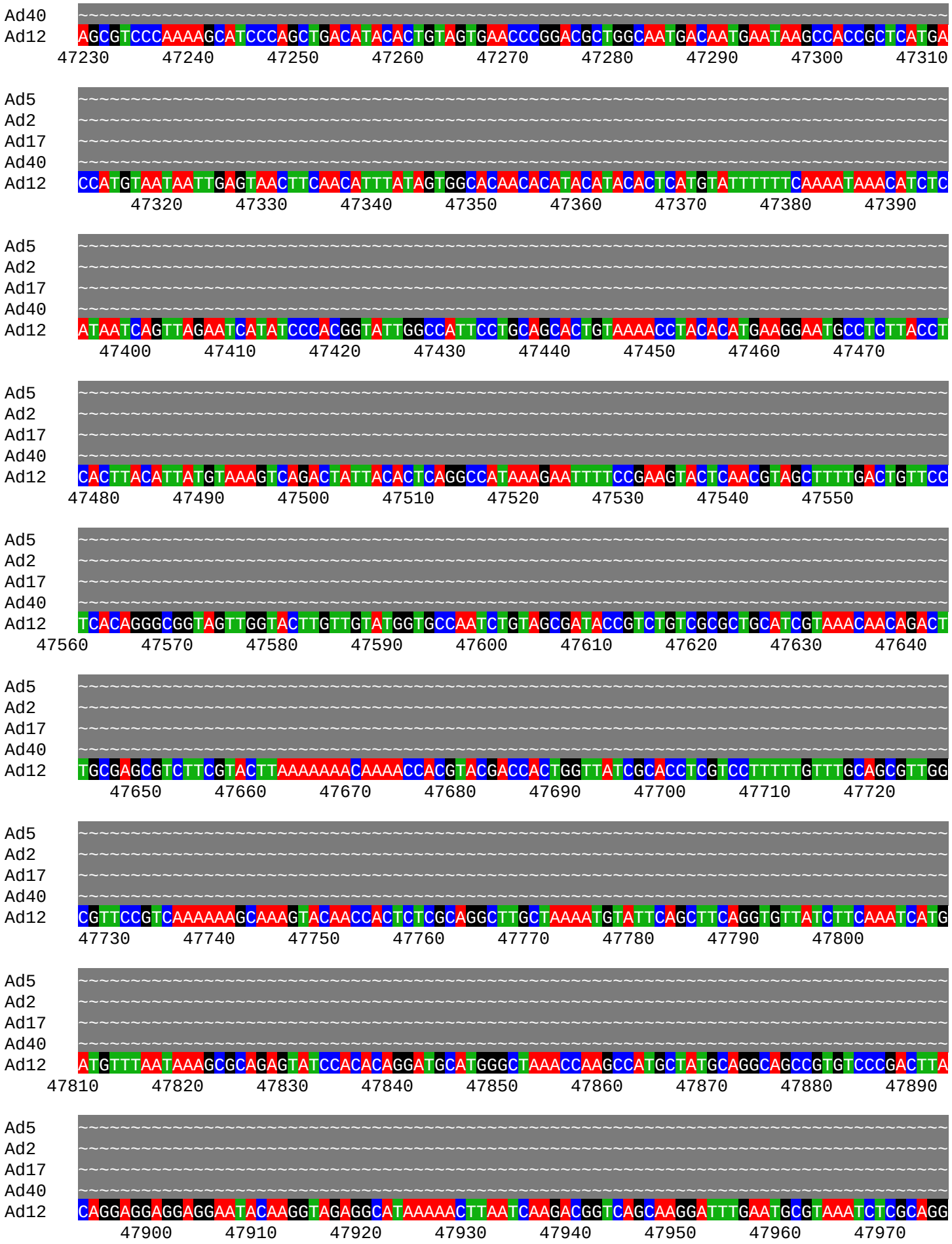

Ad5
Ad2
Ad17
Ad40
Ad12
CACCACCCCCGTTACCAAAACCCTCAAATTGCGGCTCTTTTGCAGCTCCAACCATGAAAACAGCATTAGTTCTTTTCTTTATG
43750 43760 43770 43780 43790 43800 43810 43820
Ad5
Ad2
Ad17
Ad40
Ad12
TTAATCCCAGTTTGGGCTAGTTCTTGTCAACTACATAAACCATGGAATTTTTTAGATTGTTATACTAAAGAAACAAACTACAT
43830 43840 43850 43860 43870 43880 43890 43900
Ad5
Ad2
Ad17
Ad40
Ad12
AGGCTGGGTTTATGGAATTATGTCTGGCTTAGTATTTGTCTCCTCTGTAGTTTCTTTACAACTGTATGCGCGCCTTAATTTTA
43910 43920 43930 43940 43950 43960 43970 43980 43990
Ad5
Ad2
Ad17
Ad40
Ad12
GTTGGAATAAGTATACTGATGATCTTCCCGAATATCCAAACCCCCAGGATGATTTACCCCTAAATATTGTATTTCCAGAGCCC
44000 44010 44020 44030 44040 44050 44060 44070
Ad5
Ad2
Ad17
Ad40
Ad12
CCGCGTCCTCCTTCTGTTGTTAGCTATTTTAAGTTCACCGGTGAAGATGATTGAACCTGATCTAGAAATTGATGGAAGAATCA
44080 44090 44100 44110 44120 44130 44140 44150
Ad5
Ad2
Ad17
Ad40
Ad12
CCGAACAGAGGCTCCTCACTGATCGCGCTAGGCGACGCCAACAGGATCAAAAAAATAAAGAGTTAATTGATTTACAAACCGTG
44160 44170 44180 44190 44200 44210 44220 44230
Ad5
Ad2
Ad17
Ad40
Ad12
CATCAGTGTAAAAAAGGACTTTTTTGCCTGGTAAAACAAGCTACCCTTCGCTATGAATCTTTACCAGGCAAAGAACATCAACT
44240 44250 44260 44270 44280 44290 44300 44310 44320
Ad5
Ad2
Ad17
Ad40
Ad12
GTGCTACACGCTGCCCACTCAGCGACAAACCTTTACTGCAATGGTGGGCTCGGTACCTATTAAAGTGTCCCAACAAGCAGGAG
44330 44340 44350 44360 44370 44380 44390 44400
Ad5
Ad2
Ad17
44410 44420 44430 44440 44450 44460 44470 44480

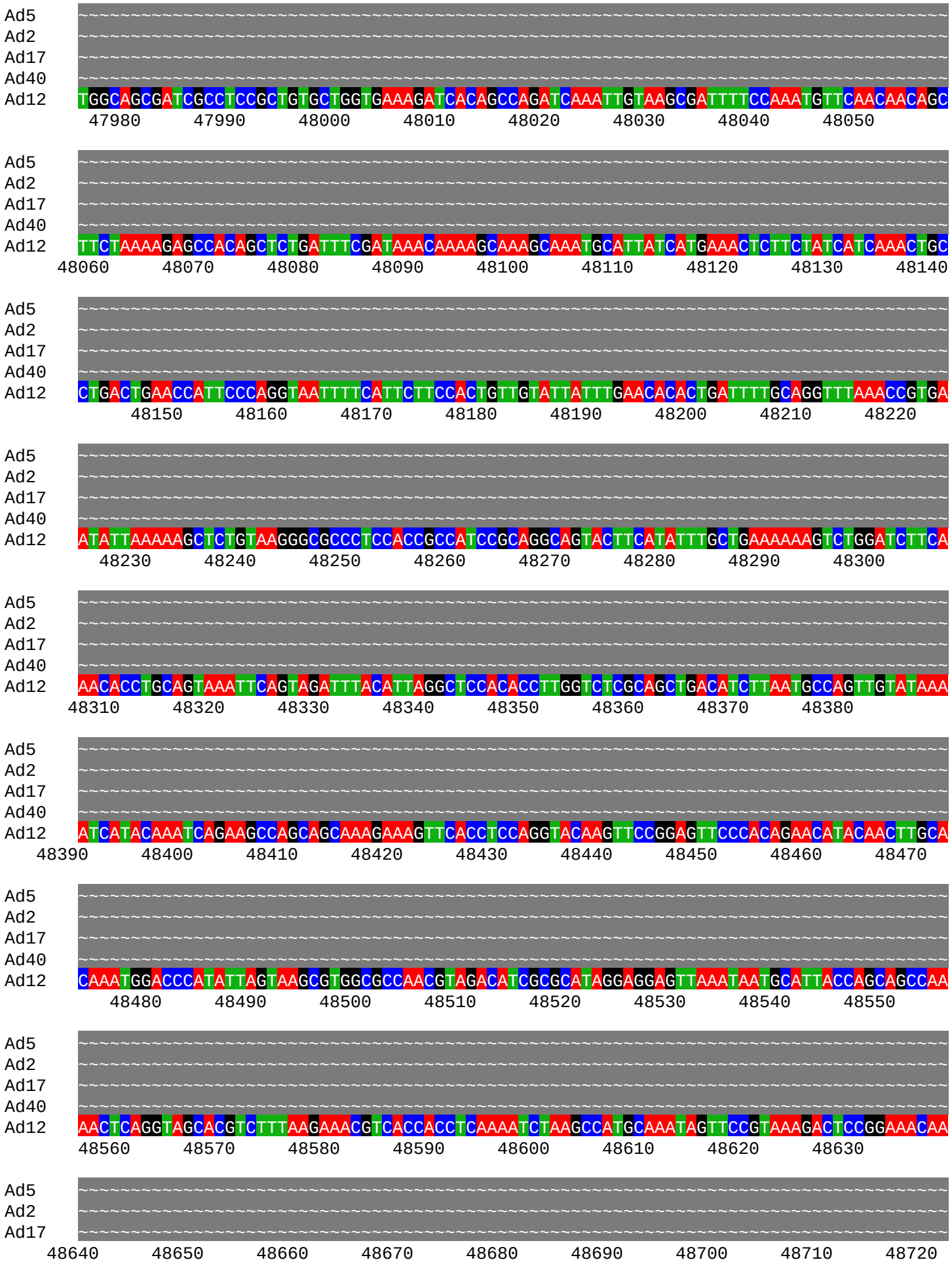

Ad40
Ad12
AACAAGAAGGCTCTATTCGGTGCCTATGTGATAACCCTGAATGTTTGTACACTTTAATAAAAACACTGTGCGGTTTAAGAAAT
44410 44420 44430 44440 44450 44460 44470 44480
Ad5
Ad2
Ad17
Ad40
Ad12
CTTTTACCAATGAATTAAATAAATTACTTACCGGAAATCTGAAAATACATCATGGTCTCCGTGTACTCTTATAAAATTTCCCT
44490 44500 44510 44520 44530 44540 44550 44560 44570
Ad5
Ad2
Ad17
Ad40
Ad12
CTTCCCAACTGTCAAACCTGACAGACTTGCAAACAGCAAACTTTCTCCAAATCTTAAATGGAAGGTCAGATTCTTCTTCCCAA
44580 44590 44600 44610 44620 44630 44640 44650
Ad5
Ad2
Ad17
Ad40
Ad12
TCCCTACCCACCATCTTCATCTTTTCTAGATGAAGCGCAGCAGAACCCAGTATGCTGAAGAAACAGAAGAAAATGATGACTTC
44660 44670 44680 44690 44700 44710 44720 44730
Ad5
Ad2
Ad17
Ad40
Ad12
AACCCCGTTTACCCTTTTGACCCATTTGACACATCAGACGTACCCTTTGTTACACCCCCTTTTACTTCTTCCAATGGTCTTCA
44740 44750 44760 44770 44780 44790 44800 44810 44820
Ad5
Ad2
Ad17
Ad40
Ad12
AGAAAAACCACCAGGTGTATTAGCACTTAATTACAAAGACCCCATTGTAACTGAAAATGGAACCCTTACACTCAAGCTAGGGG
44830 44840 44850 44860 44870 44880 44890 44900
Ad5
Ad2
Ad17
Ad40
Ad12
ACGGAATAAAACTTAATGCCCAAGGTCAACTTACAGCTAGTAATAATATCAATGTTTTGGAGCCCCTTACCAACACCTCACAA
44910 44920 44930 44940 44950 44960 44970 44980
Ad5
Ad2
Ad17
Ad40
Ad12
GGTCTTAAACTTTCTTGGAGCGCCCCCCTAGCAGTAAAGGCTAGTGCCCTCACACTTAACACAAGAGCGCCCTTAACCACAAC
44990 45000 45010 45020 45030 45040 45050 45060
Ad5
Ad2
Ad17
Ad40
Ad12
GGATGAAAGCTTAGCCTTAATAACCGCCCCTCCCATTACAGTAGAGTCTTCGCGTTTGGGCTTGGCCACCATAGCCCCTCTAA
45070 45080 45090 45100 45110 45120 45130 45140 45150

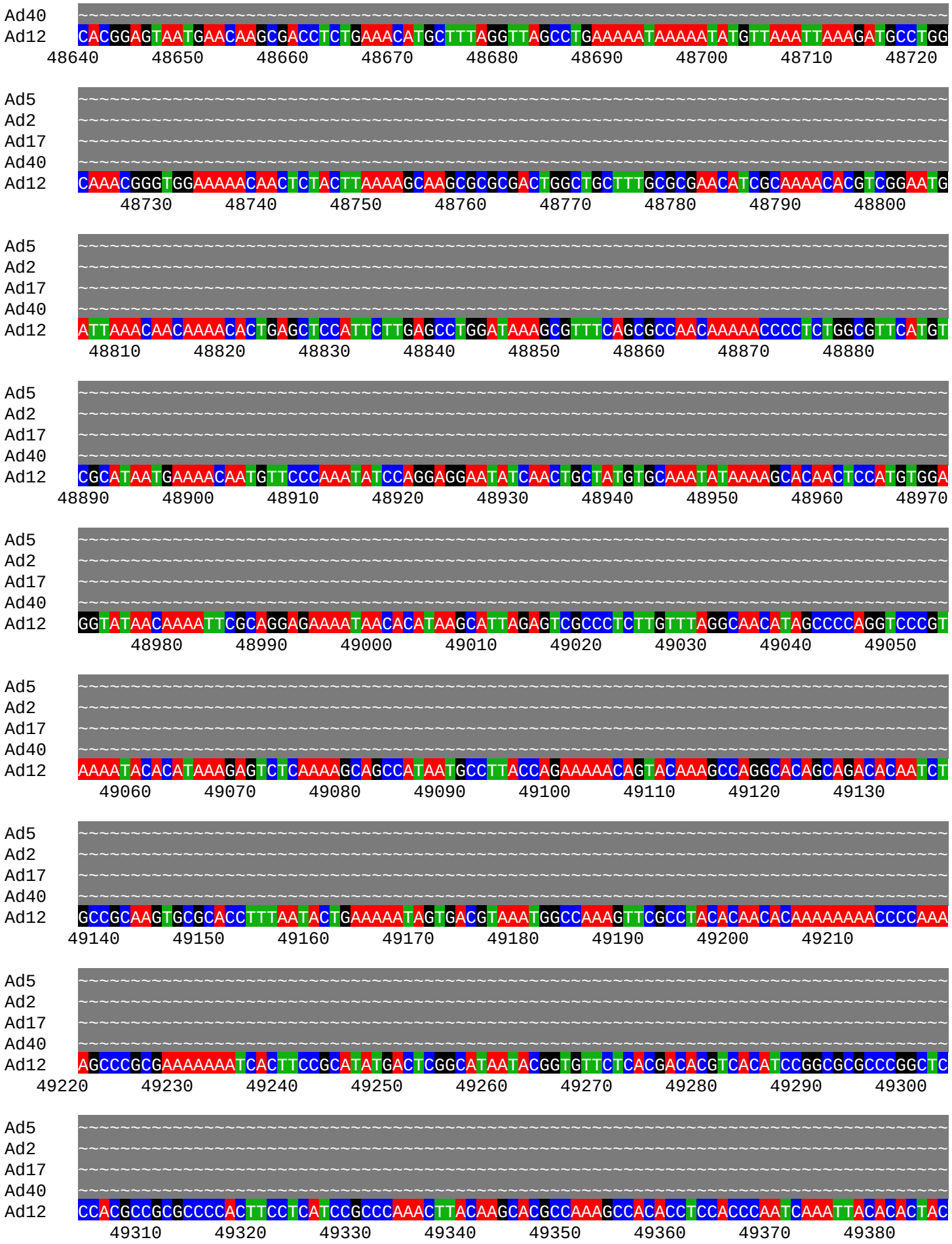

Ad5
Ad2
Ad17
Ad40
Ad12
GCTTAGATGGAGGTGGAAACCTAGGTTTAAATCTTTCTGCTCCCCTGGACGTTAGTAACAACAATTTGCATCTCACCACTGAA
45160 45170 45180 45190 45200 45210 45220 45230
Ad5
Ad2
Ad17
Ad40
Ad12
ACTCCCTTAGTTGTAAATTCTAGCGGTGCCCTATCTGTTGCTACTGCAGACCCCATAAGTGTTCGCAACAACGCTCTTACCCT
45240 45250 45260 45270 45280 45290 45300 45310
Ad5
Ad2
Ad17
Ad40
Ad12
ACCTACGGCAGATCCGTTAATGGTGAGCTCCGATGGGTTGGGAATAAGTGTCACTAGTCCCATTACAGTAATAAACGGTTCCT
45320 45330 45340 45350 45360 45370 45380 45390 45400
Ad5
Ad2
Ad17
Ad40
Ad12
TAGCCTTGTCTACAACTGCTCCCCTCAACAGCACAGGATCCACTTTAAGTCTGTCTGTTGCCAATCCTCTGACTATTTCACAA
45410 45420 45430 45440 45450 45460 45470 45480
Ad5
Ad2
Ad17
Ad40
Ad12
GACACATTGACTGTTTCCACTGGTAACGGTCTTCAAGTGTCGGGGTCTCAATTAGTAACAAGAATAGGGGATGGTTTAACATT
45490 45500 45510 45520 45530 45540 45550 45560
Ad5
Ad2
Ad17
Ad40
Ad12
CGATAATGGGGTCATGAAAGTAAACGTTGCCGGGGGAATGAGAACTTCTGGCGGTAGAATAATTTTAGATGTTAATTATCCCT
45570 45580 45590 45600 45610 45620 45630 45640 45650
Ad5
Ad2
Ad17
Ad40
Ad12
TTGATGCGAGCAATAACCTGTCCTTAAGACGGGGATTGGGACTAATTTATAACCAATCTACAAACTGGAACTTAACAACTGAT
45660 45670 45680 45690 45700 45710 45720 45730
Ad5
Ad2
Ad17
Ad40
Ad12
ATTAGTACCGAAAAAGGTTTAATGTTTAGTGGCAATCAAATAGCTCTTAATGCAGGTCAGGGGCTTACATTTAATAATGGCCA
45740 45750 45760 45770 45780 45790 45800 45810
Ad5
Ad2
Ad17
45820 45830 45840 45850 45860 45870 45880 45890

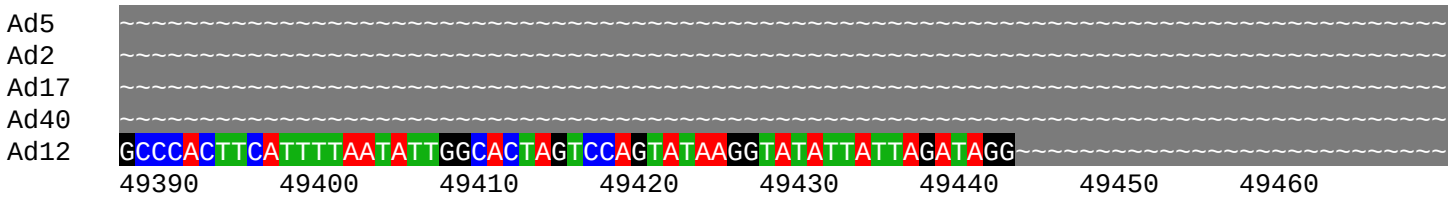

Ad40
Ad12
45820 45830 45840 45850 45860 45870 45880 45890
Ad5
Ad2
Ad17
Ad40
Ad12
45900 45910 45920 45930 45940 45950 45960 45970 45980
Ad5
Ad2
Ad17
Ad40
Ad12
45990 46000 46010 46020 46030 46040 46050 46060
Ad5
Ad2
Ad17
Ad40
Ad12
46070 46080 46090 46100 46110 46120 46130 46140
Ad5
Ad2
Ad17
Ad40
Ad12
46150 46160 46170 46180 46190 46200 46210 46220 46230
Ad5
Ad2
Ad17
Ad40
Ad12
46240 46250 46260 46270 46280 46290 46300 46310
Ad5
Ad2
Ad17
Ad40
Ad12
46320 46330 46340 46350 46360 46370 46380 46390
Ad5
Ad2
Ad17
Ad40
Ad12
46400 46410 46420 46430 46440 46450 46460 46470 46480
Ad5
Ad2
Ad17
Ad40
Ad12
46490 46500 46510 46520 46530 46540 46550 46560


Ad5
Ad2
Ad17
Ad40
Ad12
TTGTAGCTGAAAACAACTGCACTTGAATATTTCGACTTAGGTTTTTTGGCGTTAGCGTCCACACAGTTTCTTTACGGGCAAAG
46570 46580 46590 46600 46610 46620 46630 46640
CGAGGGTCGGTGATGGAAACGAATCCCTCGCCCGCACAGTCACTCAAGCGGCATTCCCCATCCAAAACCAGGTCCATGATTTT
46650 46660 46670 46680 46690 46700 46710 46720
ATCCTACAAAAAGTAACAACAGTCAGTGTCCATCAGCCGCCCAAGGATTCTCTCGTTGATTATAATCTCCAAATAAAATTGCT
46730 46740 46750 46760 46770 46780 46790 46800 46810
CGATGATGCATAATTAAACCCTTTAGCAGTTGCTGACGATAACGTTCATGCCGACTATGTTTTAGAGGGCGAACAGTGTTTTC
46820 46830 46840 46850 46860 46870 46880 46890
AGCAATTACTTGAACAACTTTTAACATTAGCAGTCTGGTACGACGAGCGCAACAGCGCATGCGTATCTCACTTAAGTCTTTAC
46900 46910 46920 46930 46940 46950 46960 46970
AATAATCACAACACAGCACTAACATGTTATTTAAAATTCCATAATTAAAGGCGCTCCATCCAAAACTAACTTTTTCTAACGCT
46980 46990 47000 47010 47020 47030 47040 47050 47060
AACCAGGCATGGCCATCATACATAATTTTAAAGTAAATTAAATGGCGACCTCTAACAAAGGTGCTTCCCACATACATCACCTC
47070 47080 47090 47100 47110 47120 47130 47140
TTTAGGCATTAAATGGTTAACAACCTCCCGATACCAAAAACACCTTTTGTTAATTAAGGCGCCATATACGGCCATTTTGAACC
47150 47160 47170 47180 47190 47200 47210 47220
47230 47240 47250 47260 47270 47280 47290 47300 47310


Ad40
Ad12
47230 47240 47250 47260 47270 47280 47290 47300 47310
Ad5
Ad2
Ad17
Ad40
Ad12
47320 47330 47340 47350 47360 47370 47380 47390
Ad5
Ad2
Ad17
Ad40
Ad12
47400 47410 47420 47430 47440 47450 47460 47470
Ad5
Ad2
Ad17
Ad40
Ad12
47480 47490 47500 47510 47520 47530 47540 47550
Ad5
Ad2
Ad17
Ad40
Ad12
47560 47570 47580 47590 47600 47610 47620 47630 47640
Ad5
Ad2
Ad17
Ad40
Ad12
47650 47660 47670 47680 47690 47700 47710 47720
Ad5
Ad2
Ad17
Ad40
Ad12
47730 47740 47750 47760 47770 47780 47790 47800
Ad5
Ad2
Ad17
Ad40
Ad12
47810 47820 47830 47840 47850 47860 47870 47880 47890
Ad5
Ad2
Ad17
Ad40
Ad12
47900 47910 47920 47930 47940 47950 47960 47970


Ad5
Ad2
Ad17
Ad40
Ad12
TGGCAGCGATCGCCTCCGCTGTGCTGGTGAAAGATCACAGCCAGATCAAATTGTAAGCGATTTTCCAAATGTTCAACAACAGC
47980 47990 48000 48010 48020 48030 48040 48050
TTCTAAAAGAGCCACAGCTCTGATTTCGATAAACAAAAGCAAAGCAAATGCATTATCATGAAACTCTTCTATCATCAAACTGC
48060 48070 48080 48090 48100 48110 48120 48130 48140
CTGACTGAACCATTCCCAGGTAATTTTCATTCTTCCACTGTTGTATTATTTGAACACACTGATTTTGCAGGTTTAAACCGTGA
48150 48160 48170 48180 48190 48200 48210 48220
ATATTAAAAAGCTCTGTAAGGGCGCCCTCCACCGCCATCCGCAGGCAGTACTTCATATTTGCTGAAAAAAGTCTGGATCTTCA
48230 48240 48250 48260 48270 48280 48290 48300
AACACCTGCAGTAAATTCAGTAGATTTACATTAGGCTCCACACCTTGGTCTCGCAGCTGACATCTTAATGCCAGTTGTATAAA
48310 48320 48330 48340 48350 48360 48370 48380
ATCATACAAATCAGAAGCCAGCAGCAAAGAAAGTTCACCTCCAGGTACAAGTTCCGGAGTTCCCACAGAACATACAACTTGCA
48390 48400 48410 48420 48430 48440 48450 48460 48470
CAAATGGACCCATATTAGTAAGCGTGGCGCCAACGTAGACATCGCGCATAGGAGGAGTTAAATAATGCATTACCAGCAGCCAA
48480 48490 48500 48510 48520 48530 48540 48550
AACTCAGGTAGCACGTCTTTAAGAAACGTCACCACCTCAAAATCTAAGCCATGCAAATAGTTCCGTAAAGACTCCGGAAACAA
48560 48570 48580 48590 48600 48610 48620 48630
48640 48650 48660 48670 48680 48690 48700 48710 48720


Ad40
Ad12
48640 48650 48660 48670 48680 48690 48700 48710 48720
Ad5
Ad2
Ad17
Ad40
Ad12
48730 48740 48750 48760 48770 48780 48790 48800
Ad5
Ad2
Ad17
Ad40
Ad12
48810 48820 48830 48840 48850 48860 48870 48880
Ad5
Ad2
Ad17
Ad40
Ad12
48890 48900 48910 48920 48930 48940 48950 48960 48970
Ad5
Ad2
Ad17
Ad40
Ad12
48980 48990 49000 49010 49020 49030 49040 49050
Ad5
Ad2
Ad17
Ad40
Ad12
49060 49070 49080 49090 49100 49110 49120 49130
Ad5
Ad2
Ad17
Ad40
Ad12
49140 49150 49160 49170 49180 49190 49200 49210
Ad5
Ad2
Ad17
Ad40
Ad12
49220 49230 49240 49250 49260 49270 49280 49290 49300
Ad5
Ad2
Ad17
Ad40
Ad12
49310 49320 49330 49340 49350 49360 49370 49380


Ad5
Ad2
Ad17
Ad40
Ad12
GCCCACTTCATTTTAATATTGGCACTAGTCCAGTATAAGGTATATTATTAGATAGG
49390
49400
49410
49420
49430
49440
49450
49460