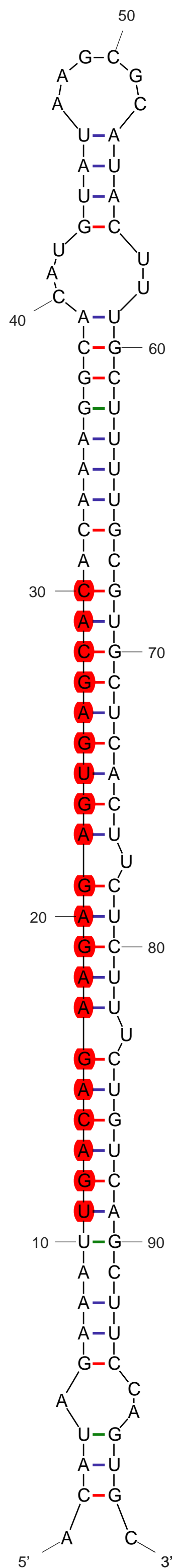
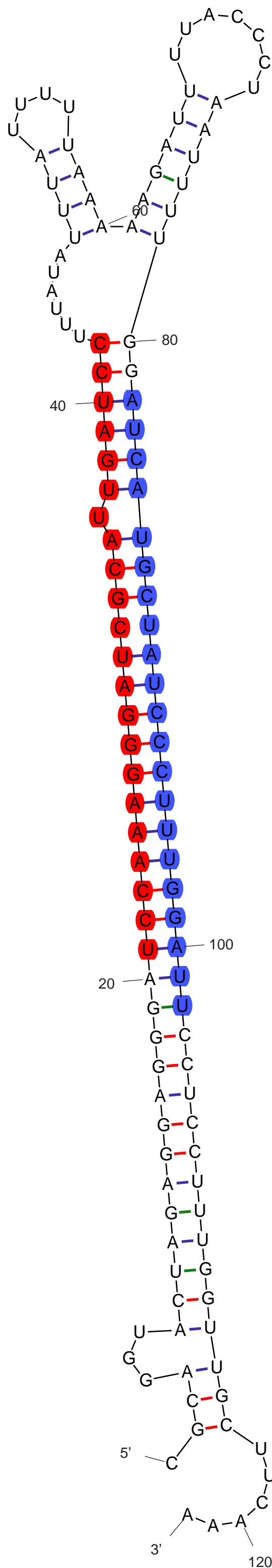


Additional Figure S1:

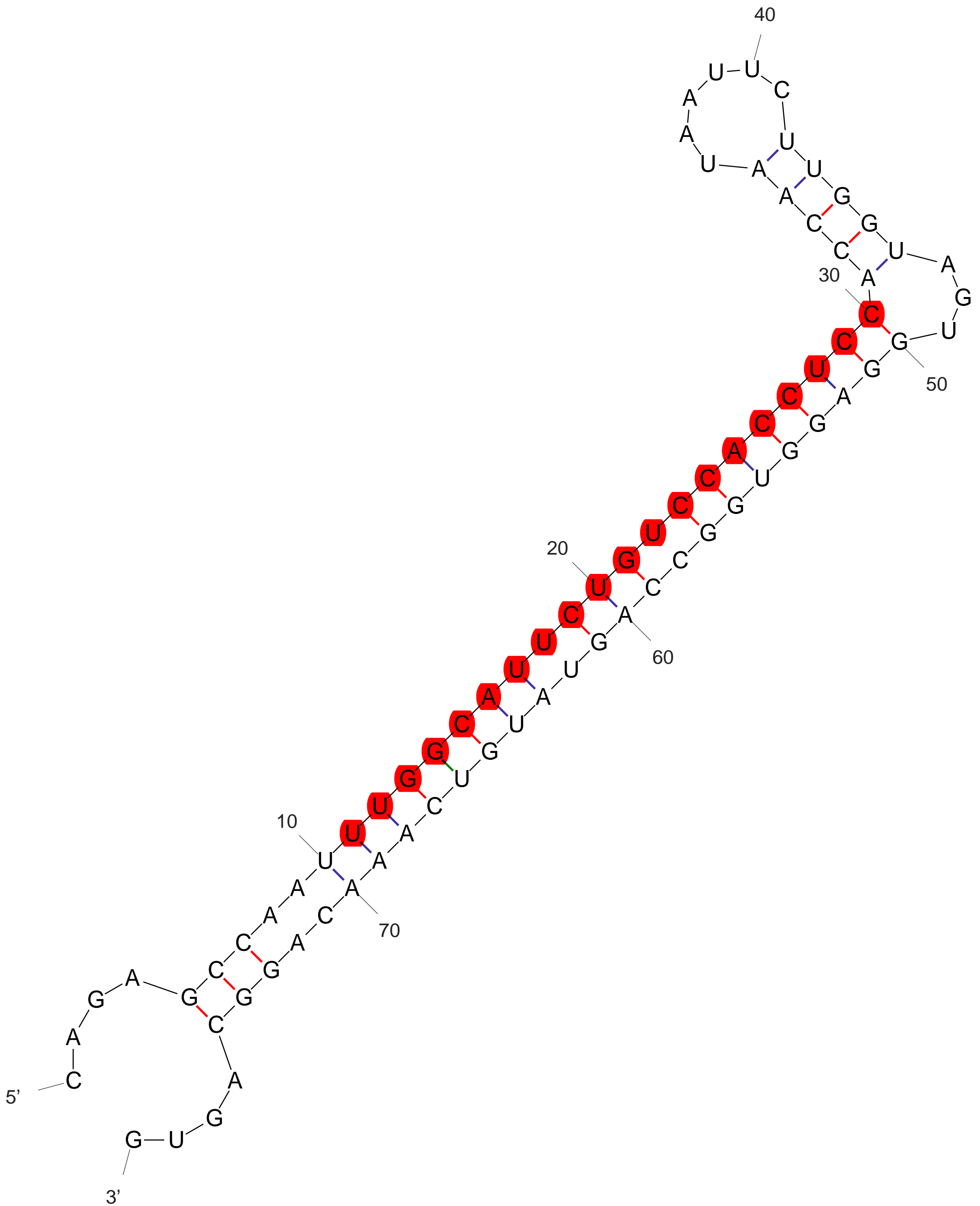
The 139 novel stem-loop structures of known miRNA precursors in elongating cotton fibers. In most cases, the red highlighting indicates the miRNA sequence and the blue highlighting indicates the miRNA* sequence. For example, in ‘17-MIR159-[hbr-MIR159a MI0022053]’, the ‘17’ came from the “index” column in the additional file 2; “MIR159” came from the “name” column in the additional file 2; and [hbr-MIR159a MI0022053] was the homolog of the precursor in miRBase. *tcc*: *Theobroma cacao*; *ctr*: *Citrus trifoliata*; *hbr*: *Hevea brasiliensis*; *vvi*: *Vitis vinifera*; *ptc*: *Populus trichocarpa*; *mdm*: *Malus domestica*.



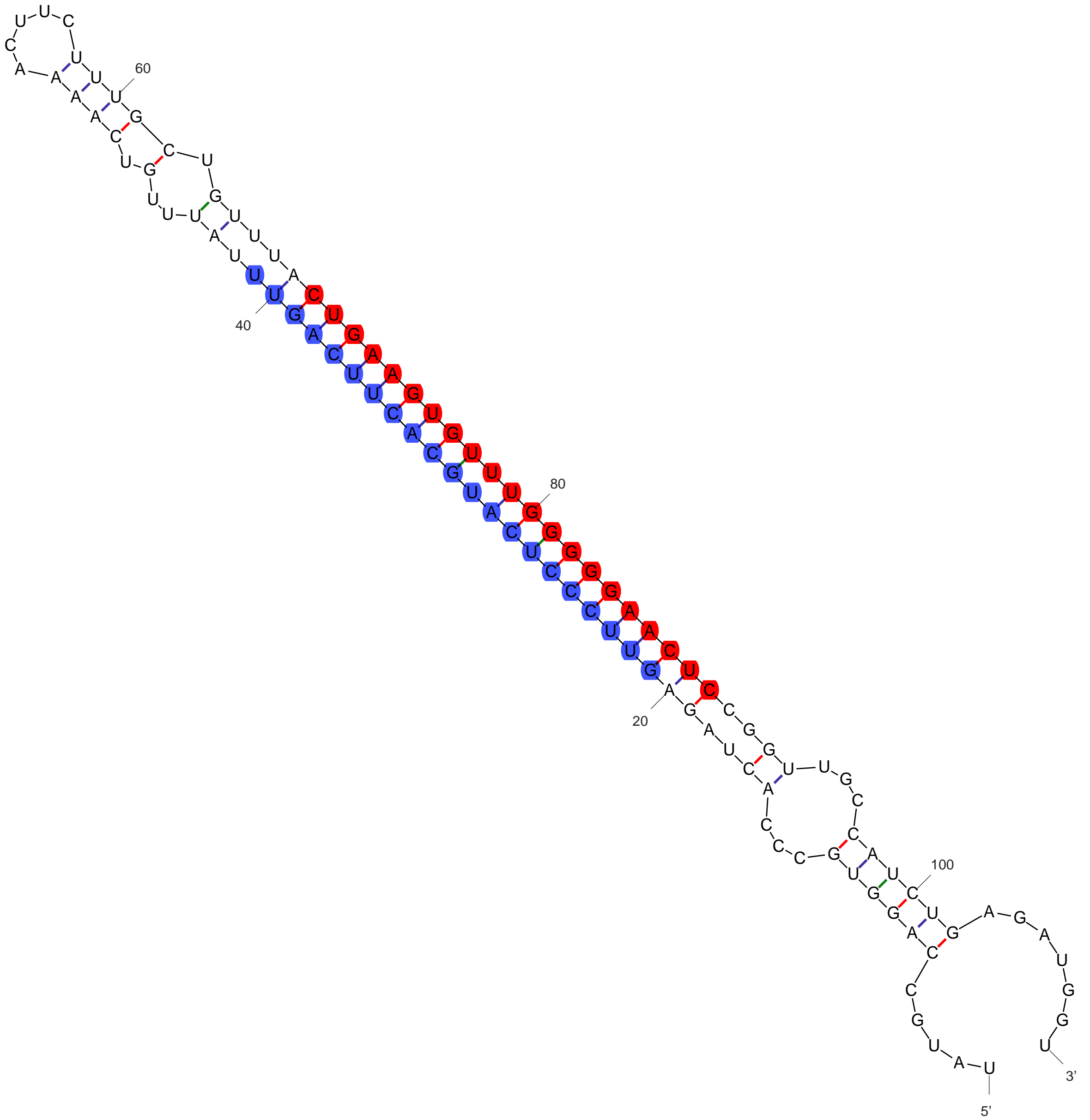
dG = -47.60 [Initially -47.60] 3-MIR156-[tcc-MIR156g MI0017459]



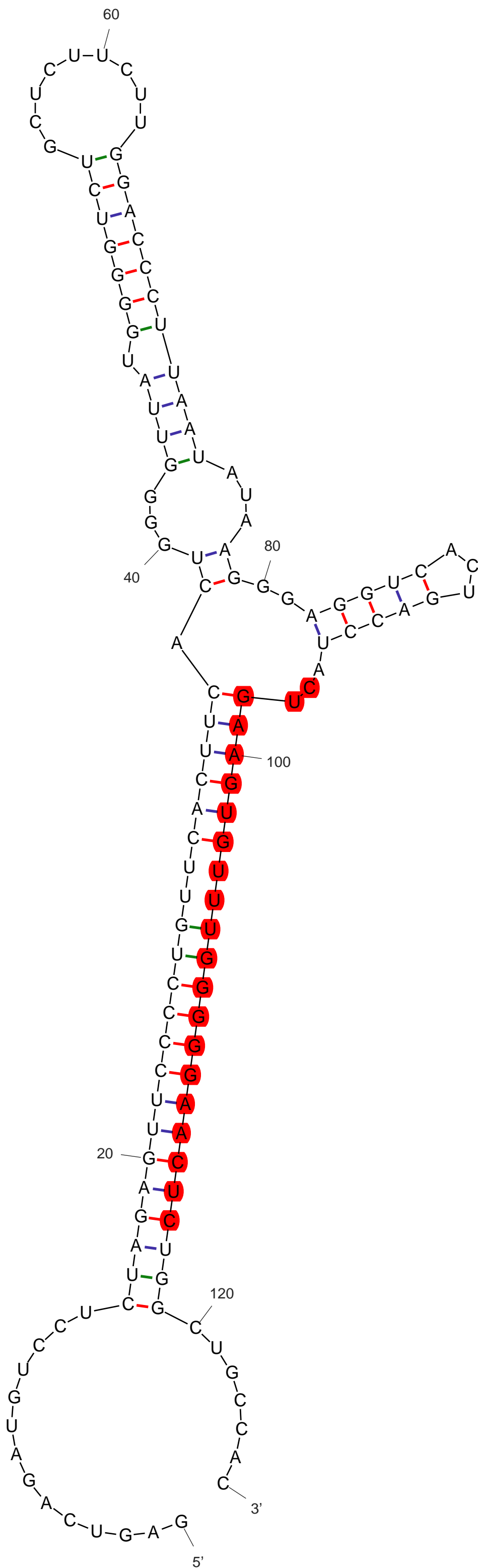
$dG = -54.20$ [Initially -56.10] 100-MIR393

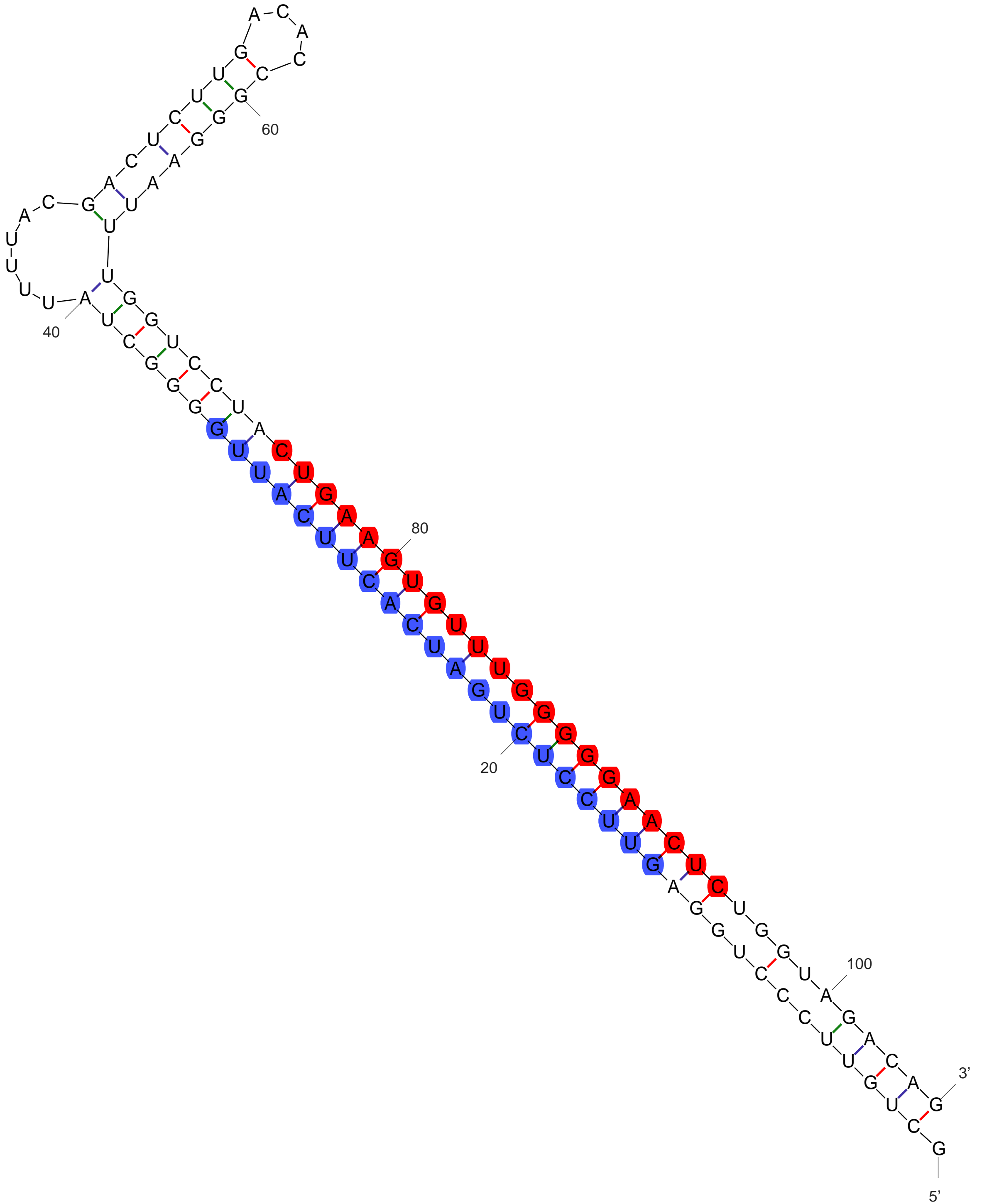


dG = -39.00 [Initially -39.00] 103-MIR394

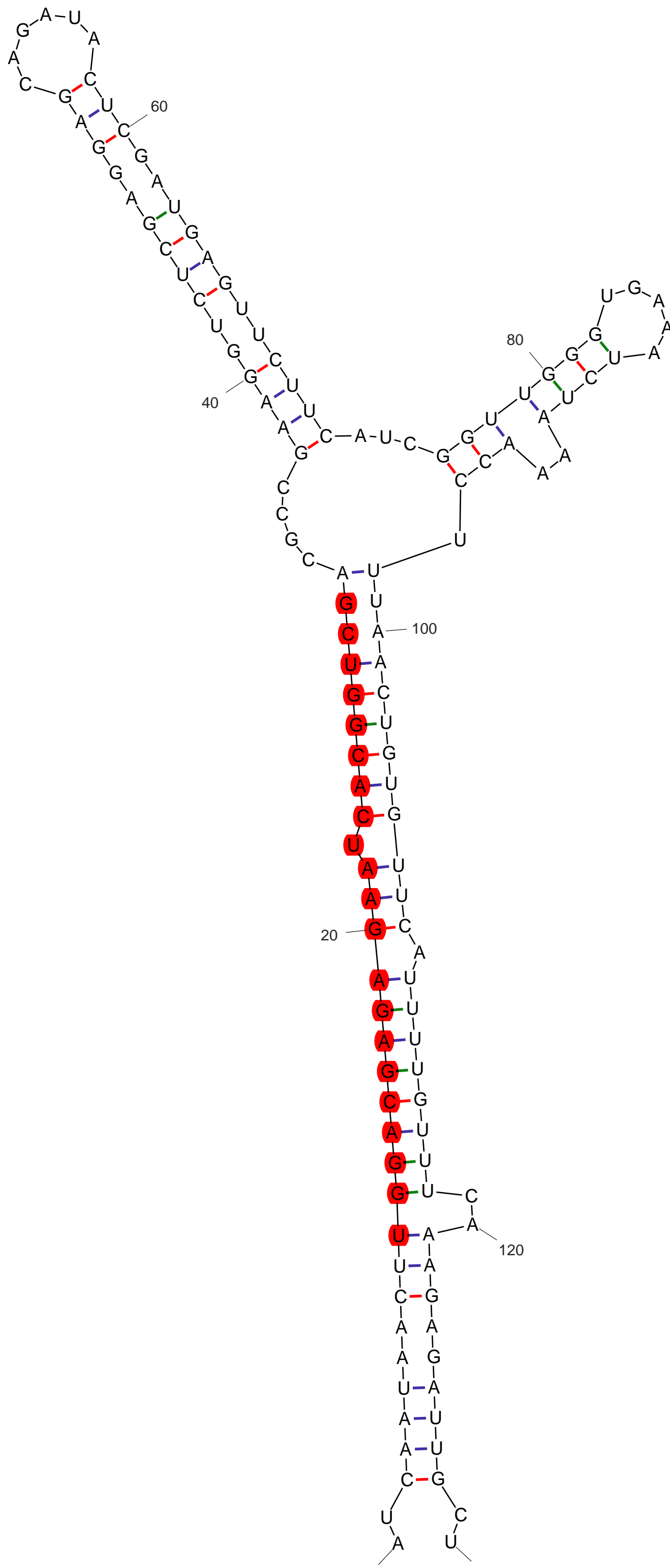


$dG = -47.20$ [Initially -47.50] 106-MIR395

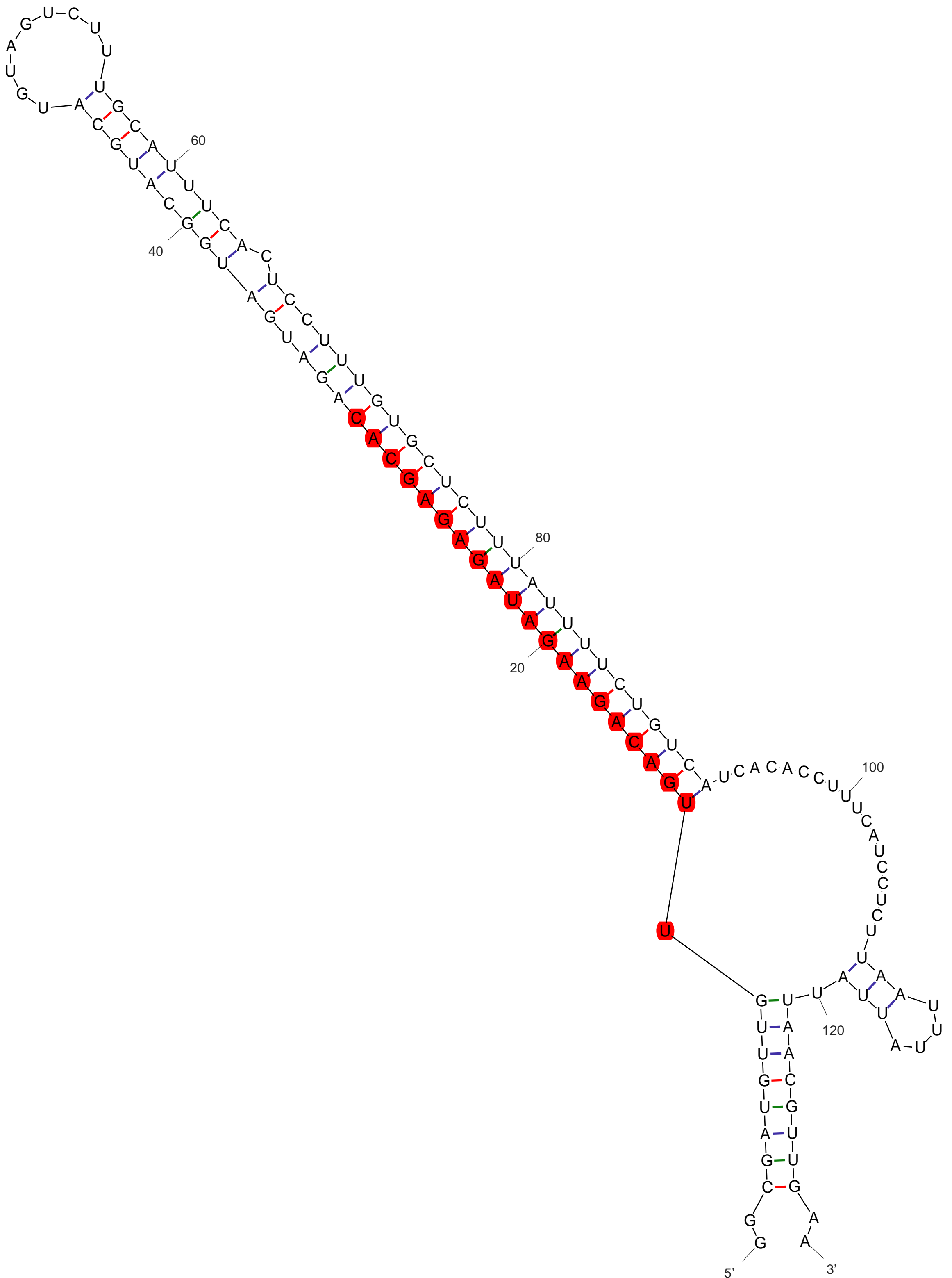




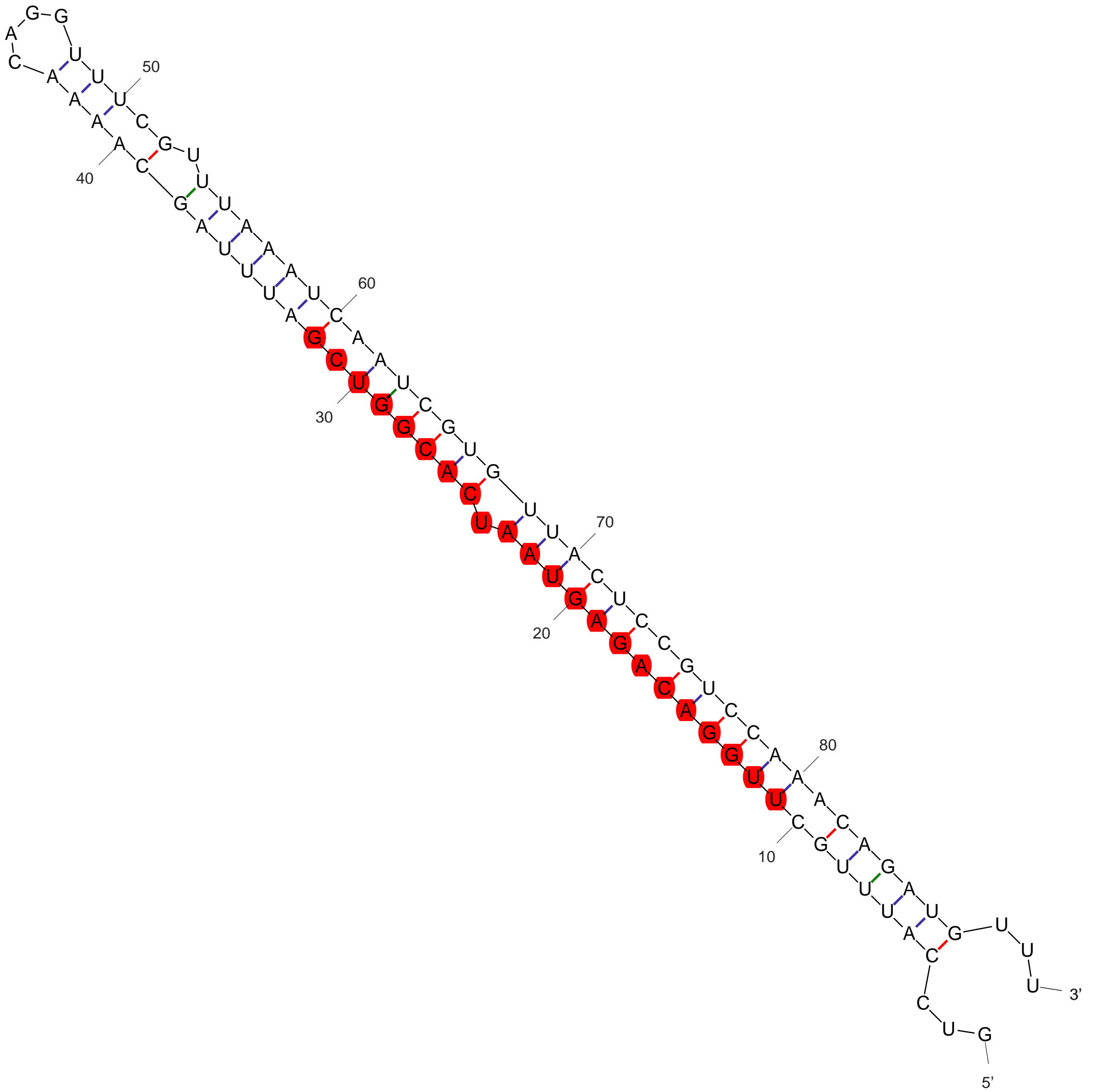
dG = -51.20 [Initially -51.20] 108-MIR395



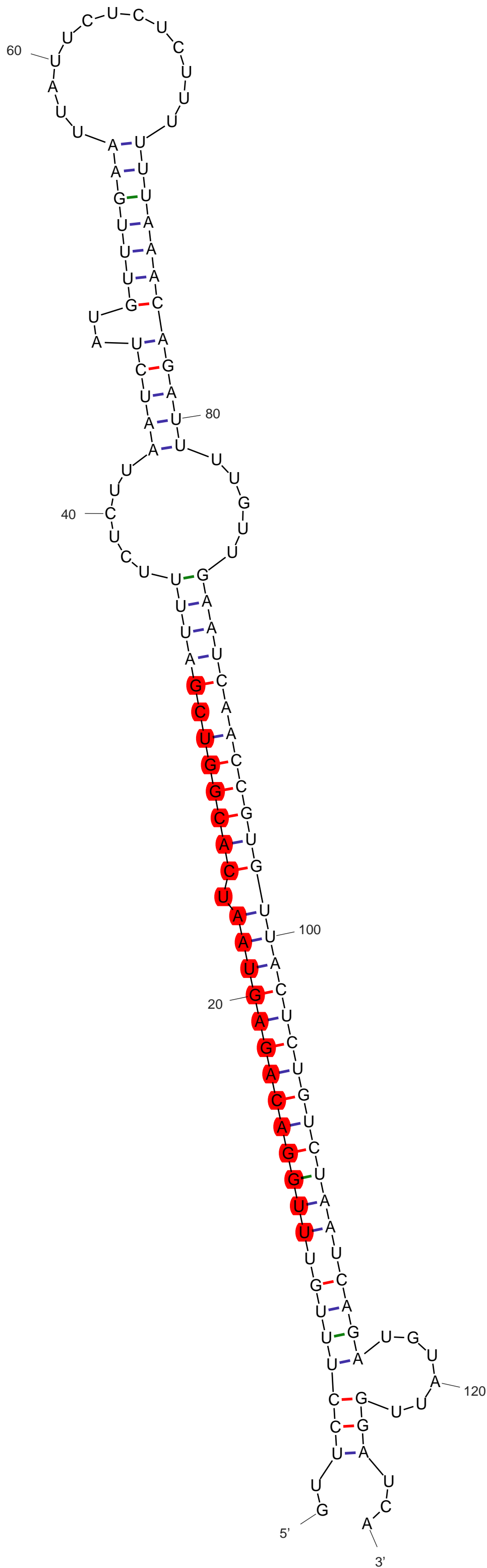
$dG = -32.18$ [Initially -34.10] 109-MIR3954



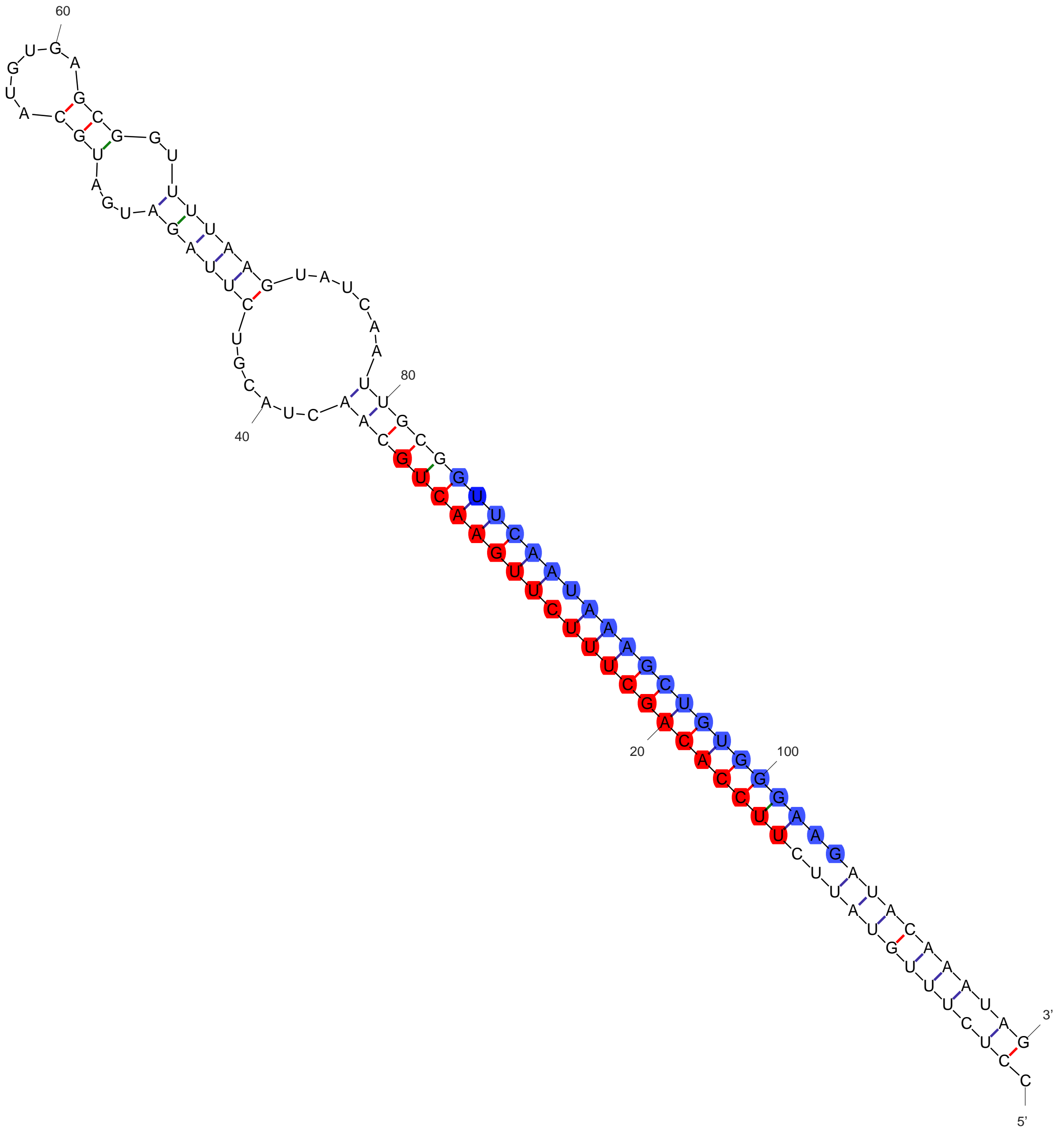
$dG = -43.08$ [Initially -46.30] 10-MIR156-[tcc-MIR156e MI0017457]



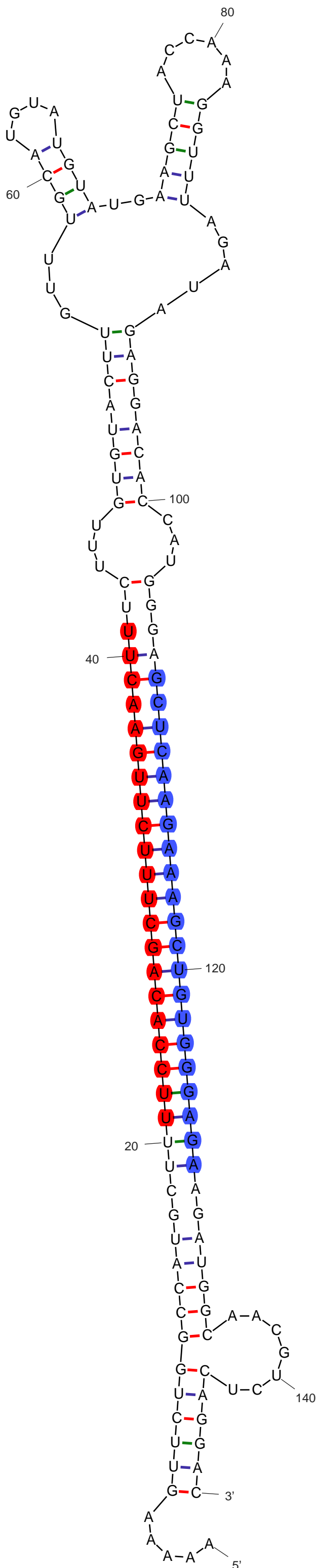
$dG = -35.80$ [Initially -35.80] 110-MIR3954



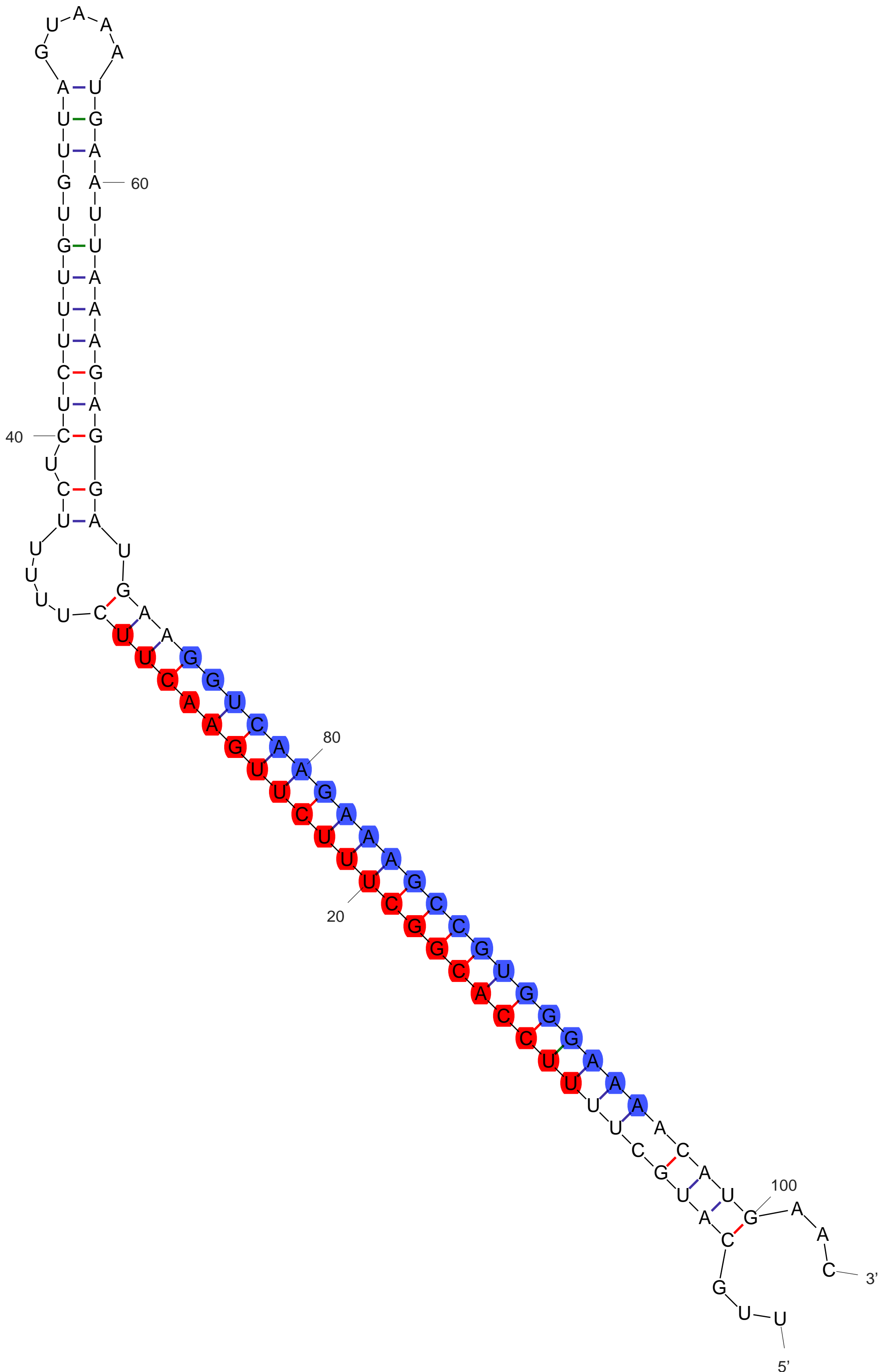
$dG = -42.60$ [Initially -42.60] 111-MIR3954



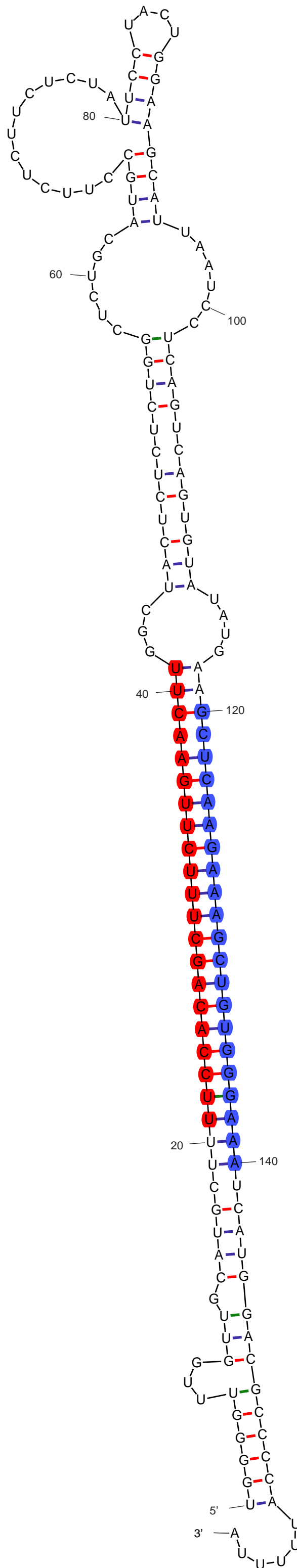
$dG = -50.50$ [Initially -50.50] 112-MIR396



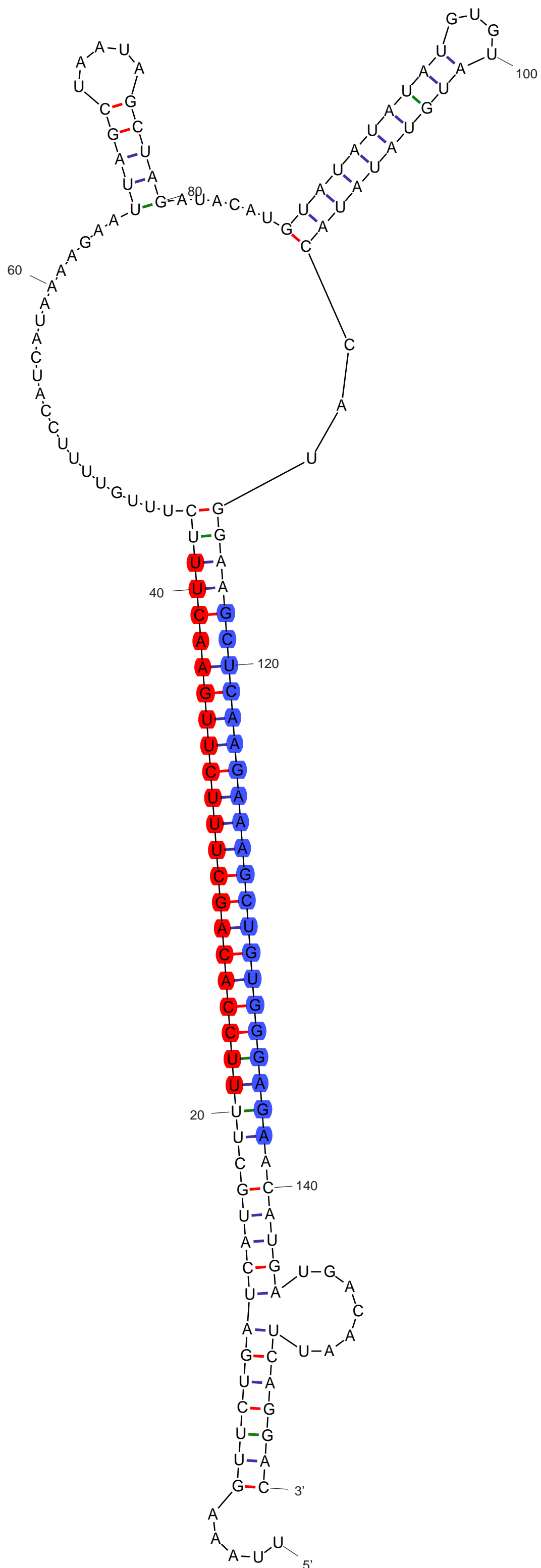
$dG = -53.34$ [Initially -56.70] 113-MIR396



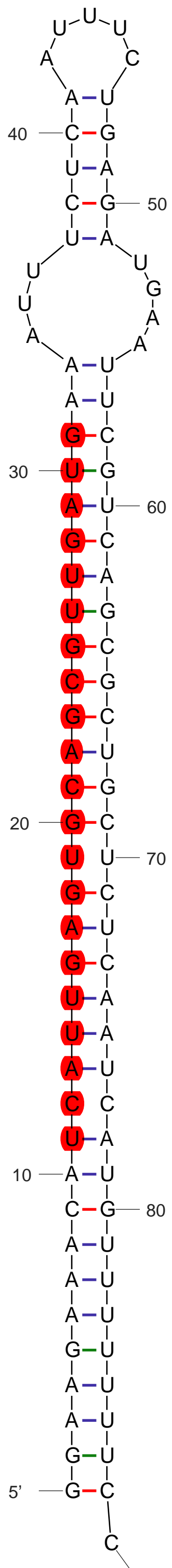
dG = -47.80 [Initially -47.80] 114-MIR396



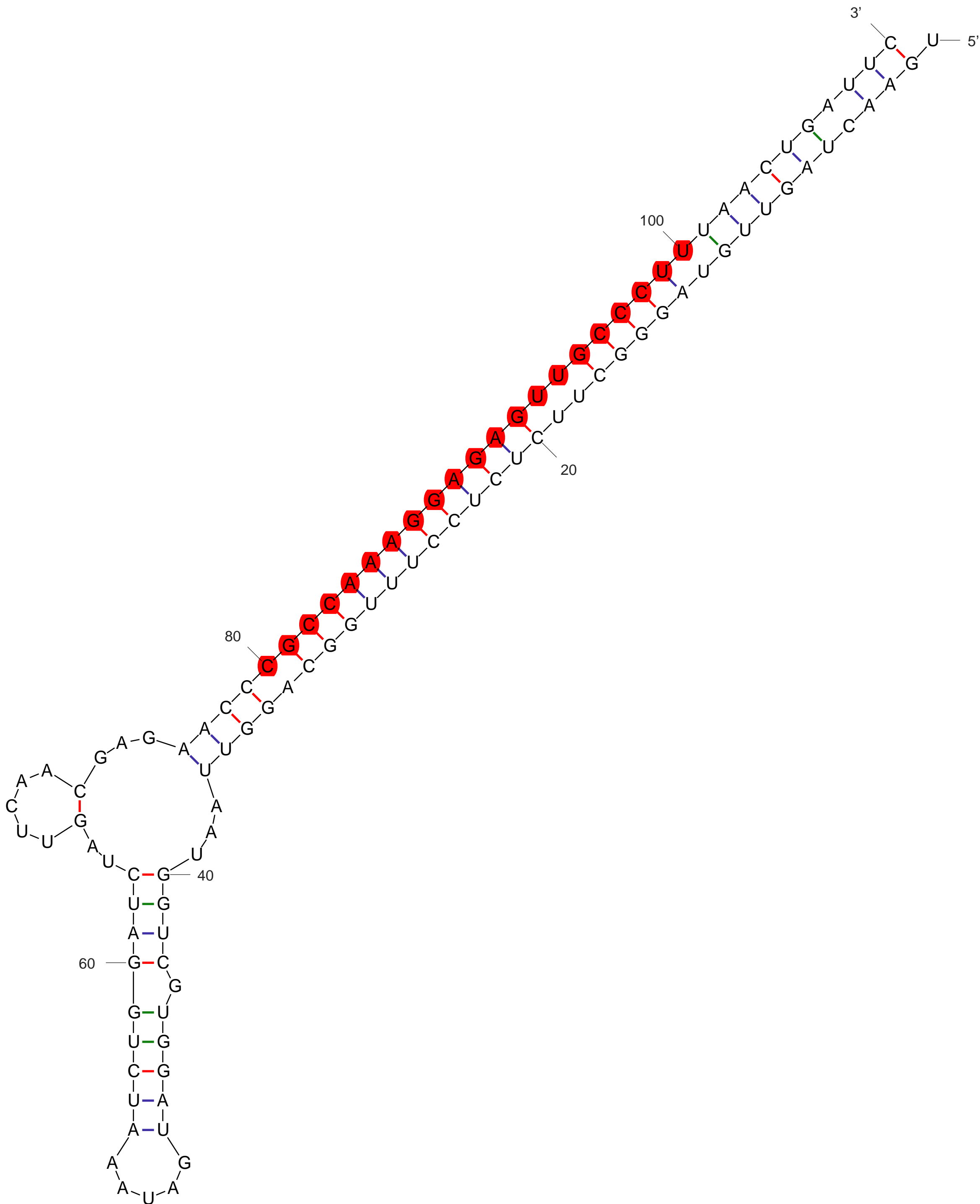
$dG = -58.00$ [Initially -58.00] 115-MIR396



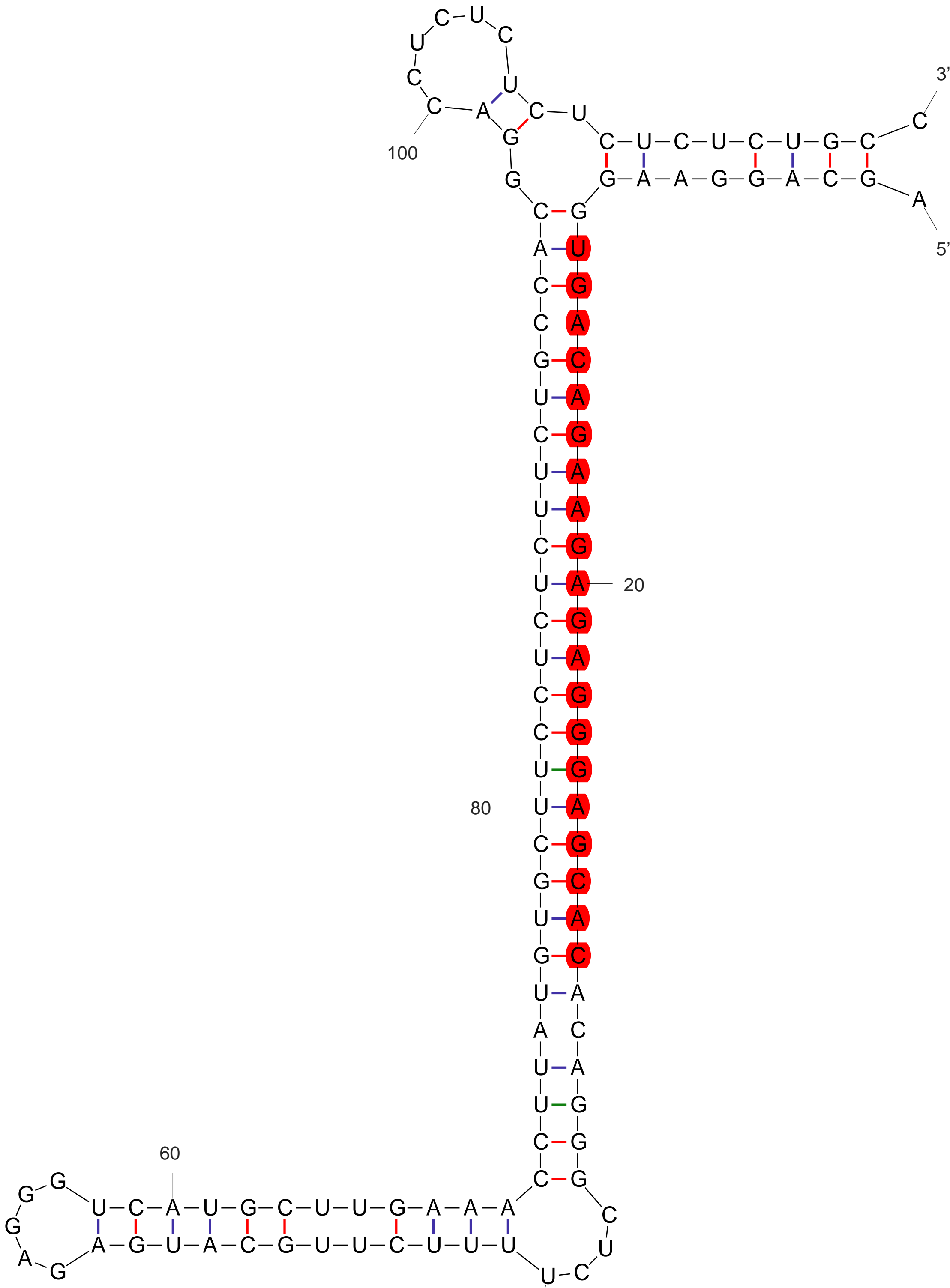
$dG = -53.99$ [Initially -59.10] 117-MIR396



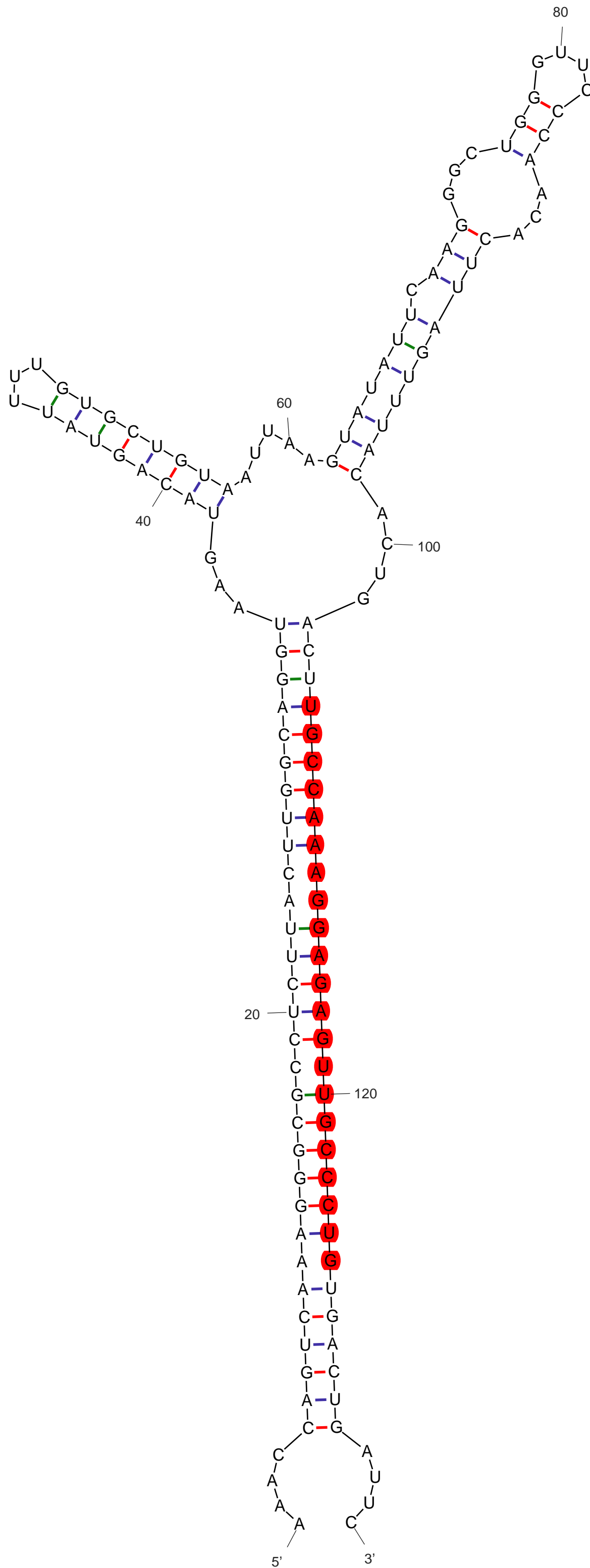
$dG = -48.40$ [Initially -48.40] 118-MIR397



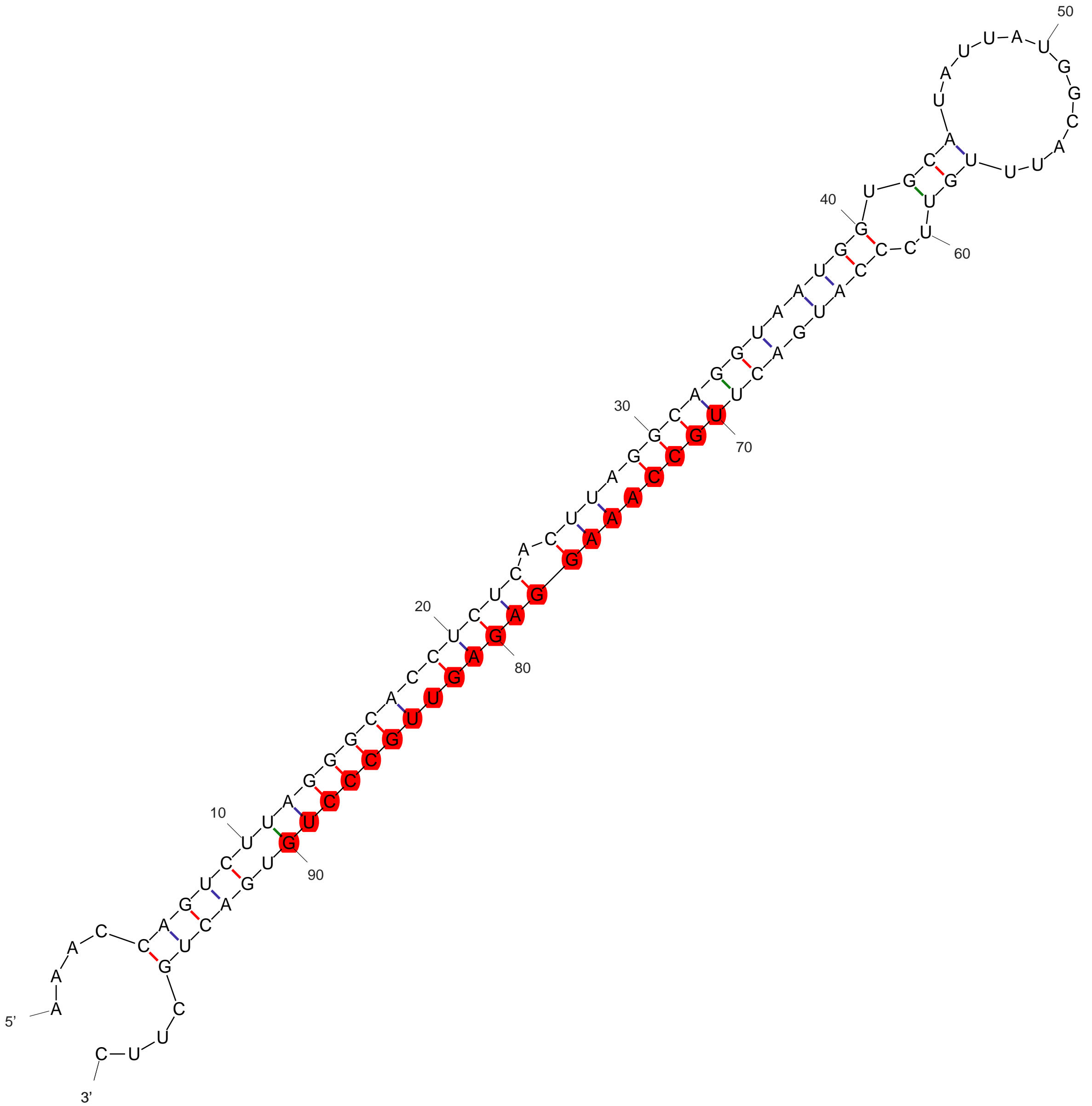
$dG = -46.88$ [Initially -49.70] 119-MIR399



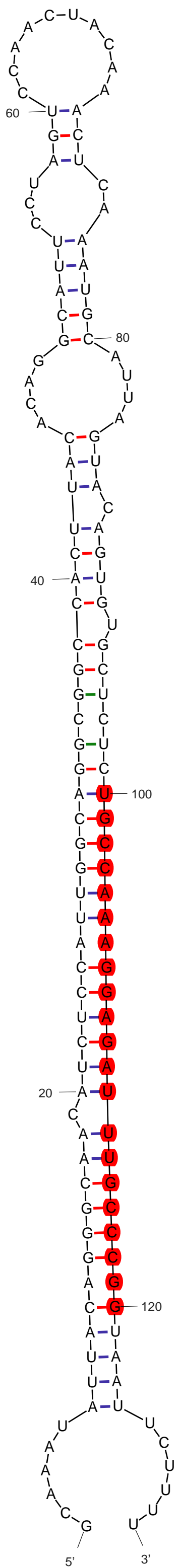
$dG = -56.30$ [Initially -58.30] 11-MIR156-[tcc-MIR156d MI0017456]



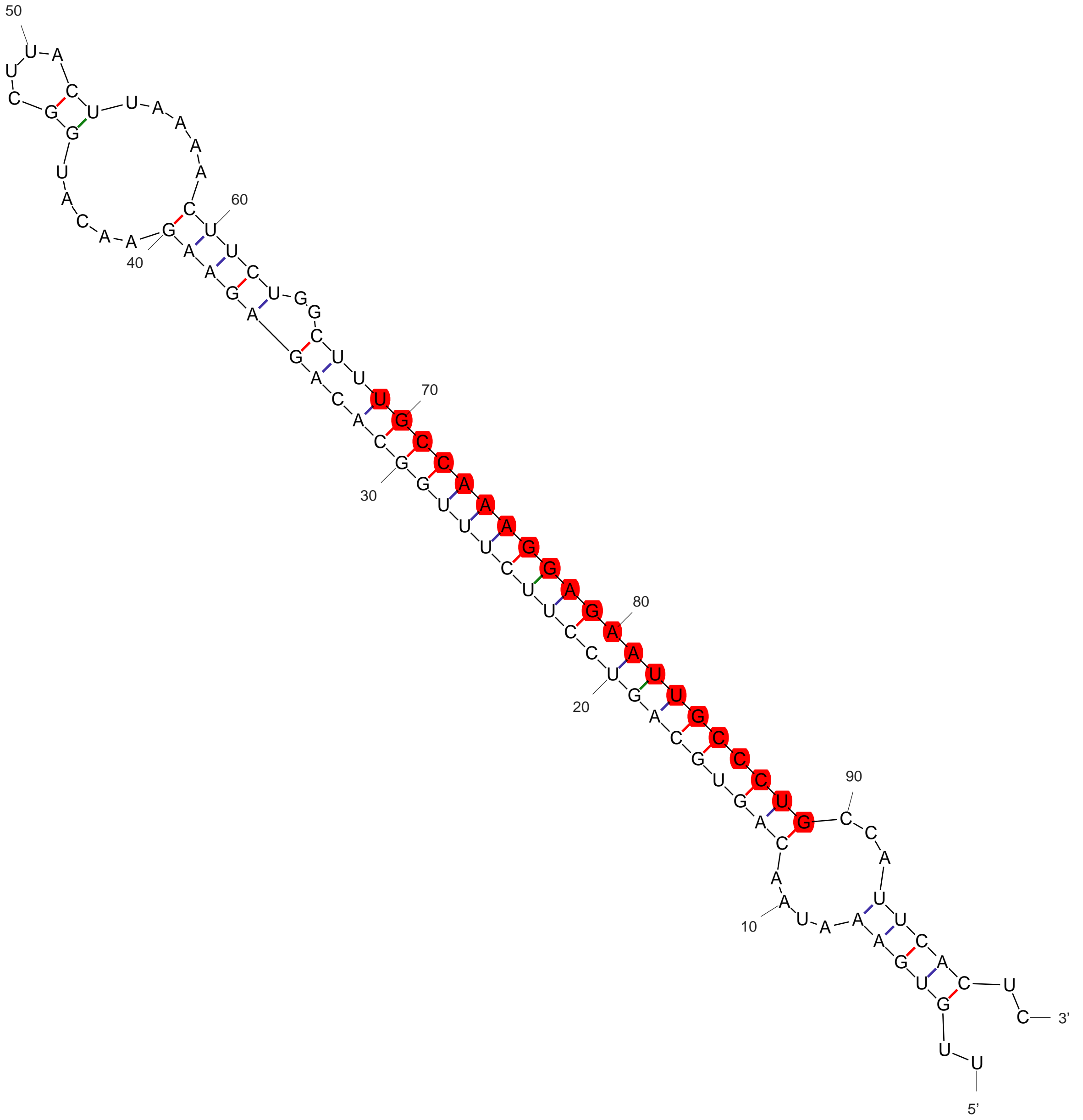
$dG = -52.94$ [Initially -56.40] 120-MIR399

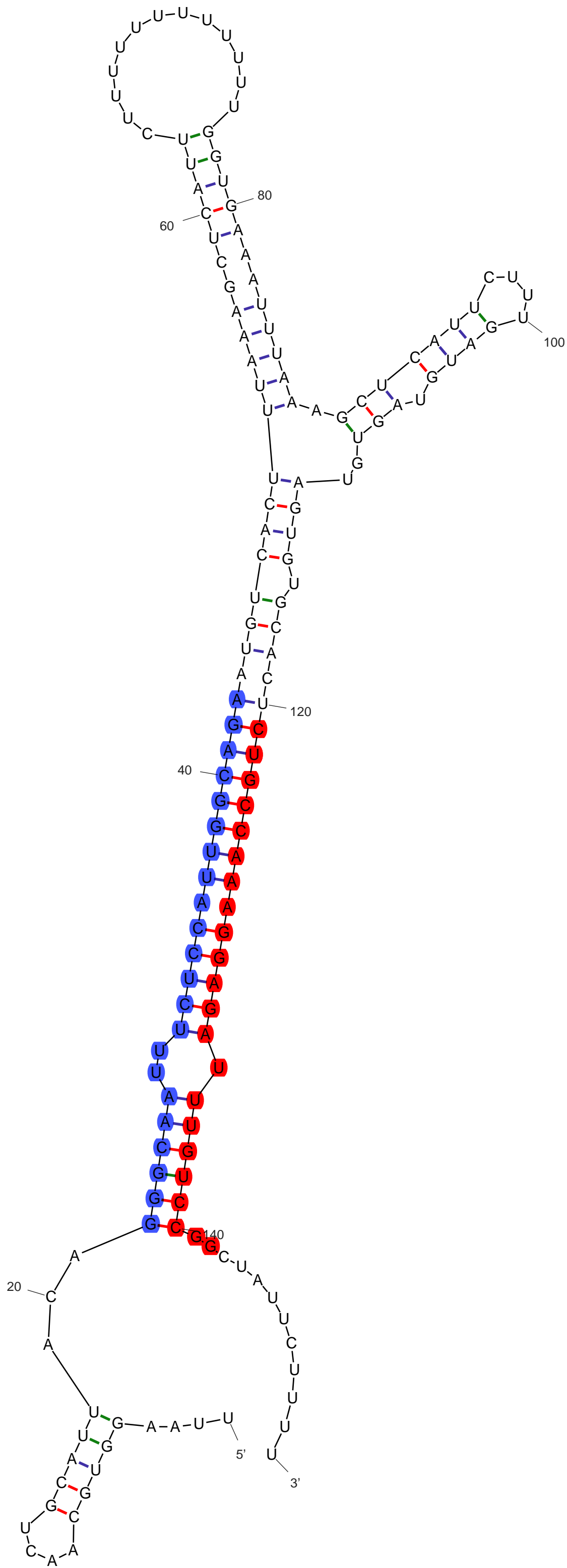


$dG = -47.90$ [Initially -47.90] 121-MIR399

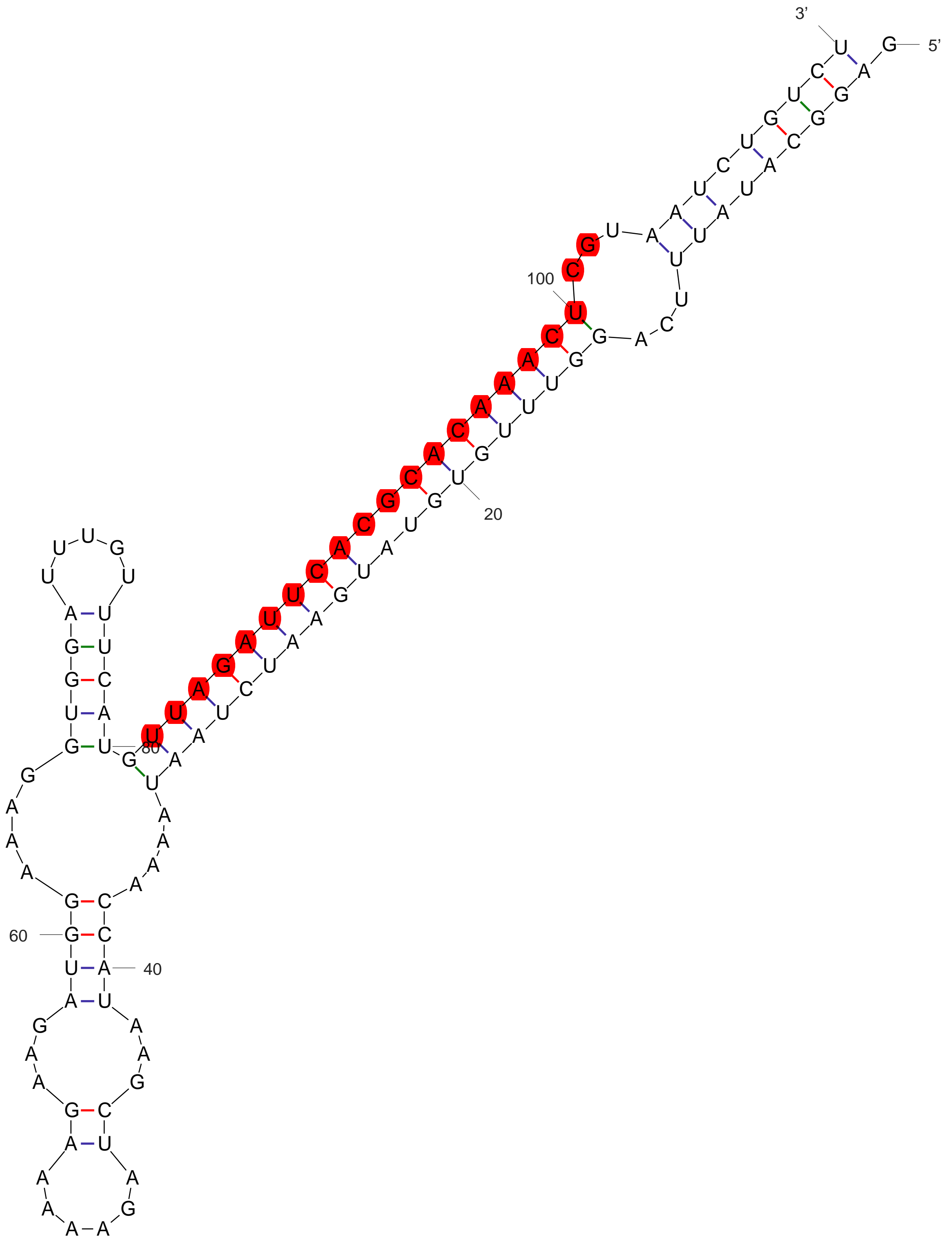


$dG = -51.50$ [Initially -51.50] 123-MIR399

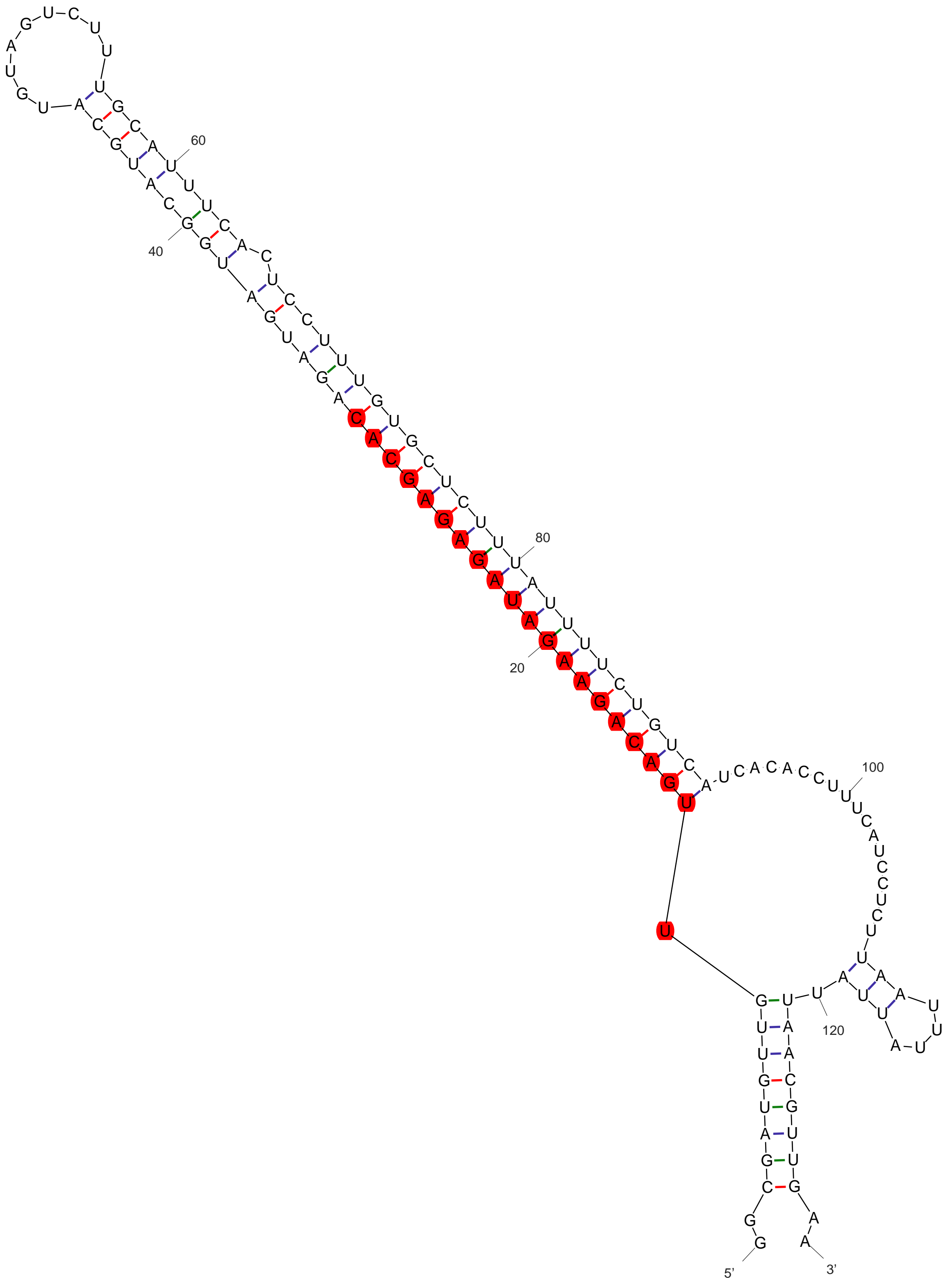




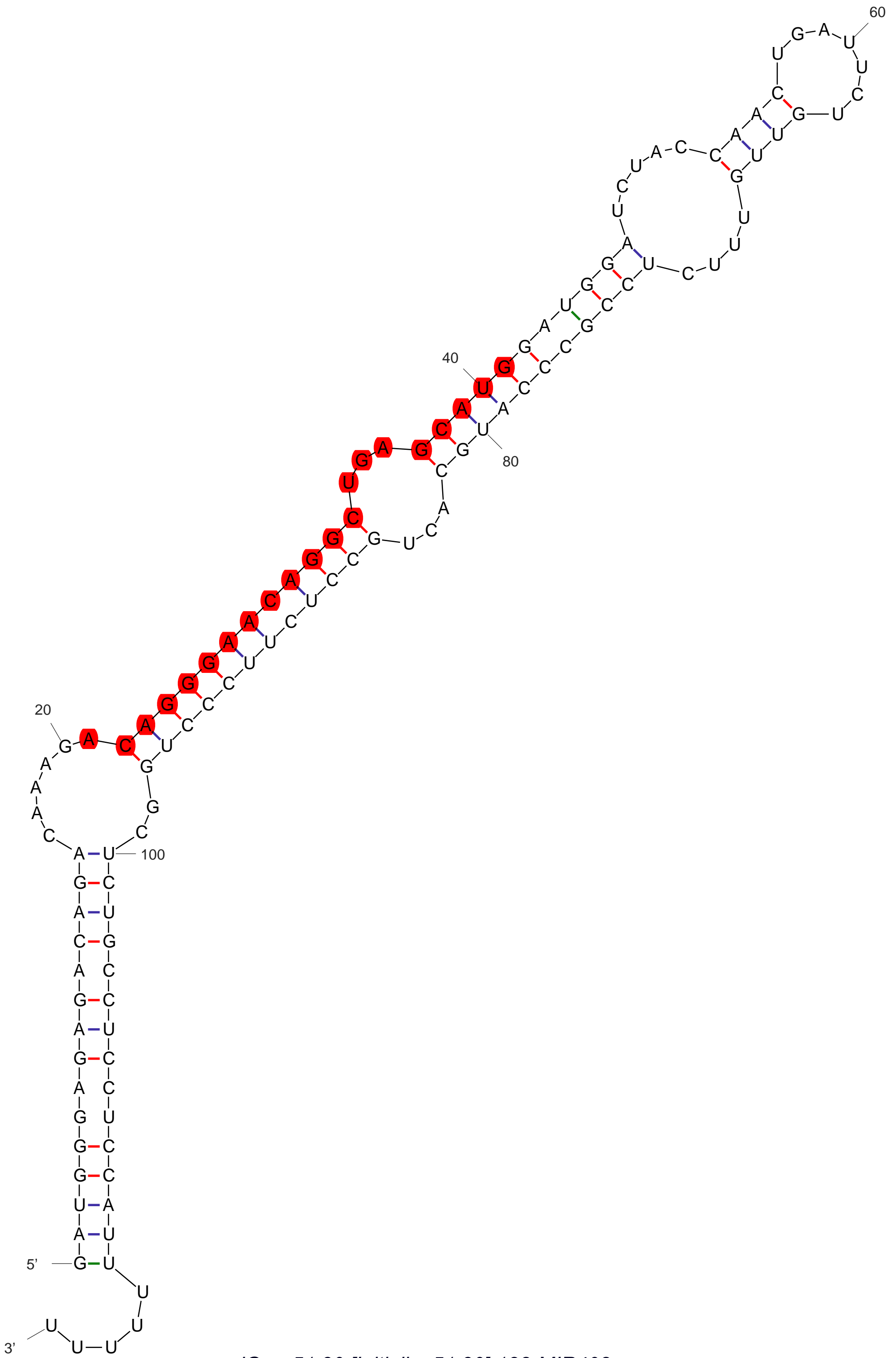
dG = -45.30 [Initially -45.90] 125-MIR399

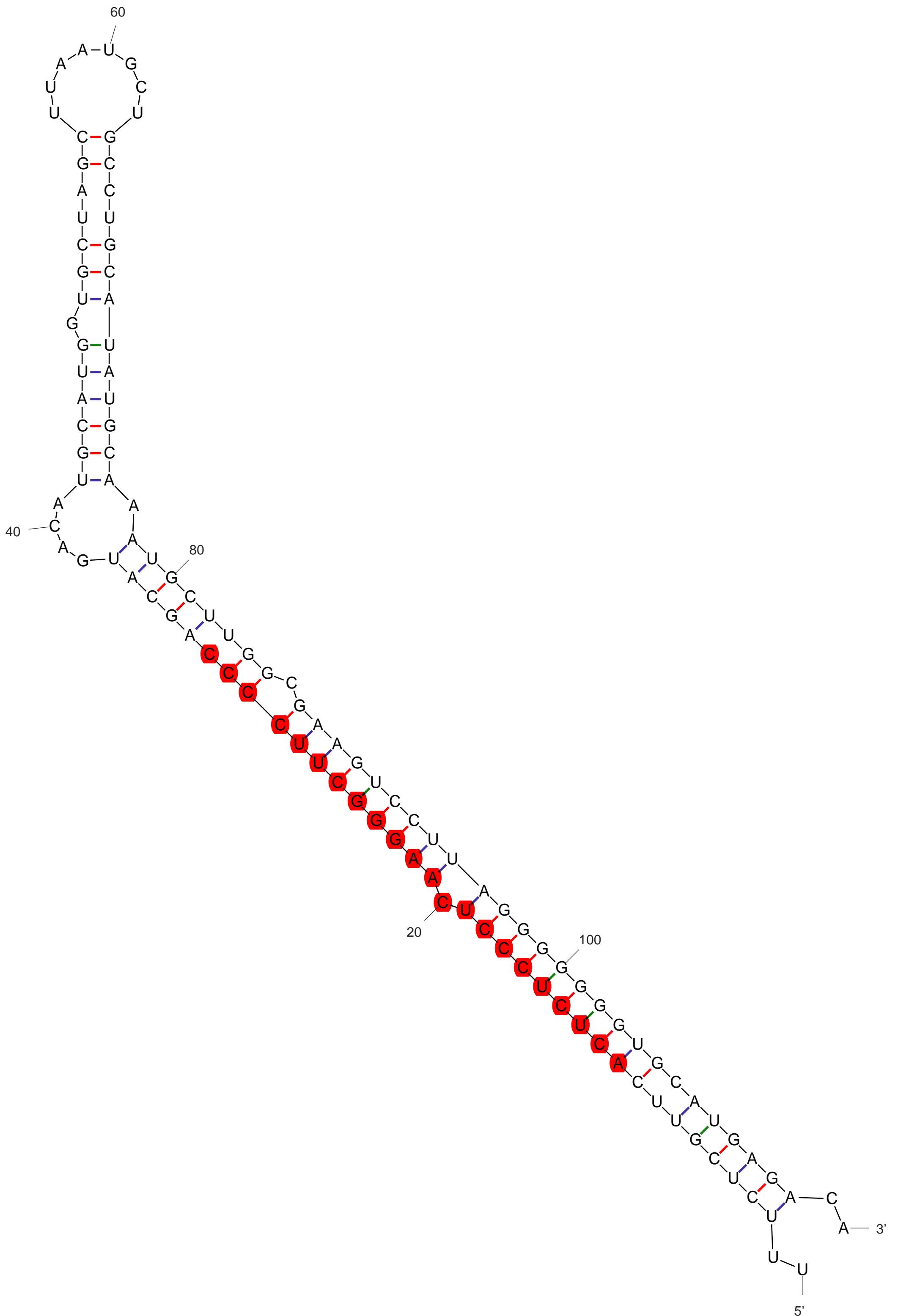


$dG = -33.08$ [Initially -36.20] 126-MIR403-[tcc-MIR403a MI0017528]

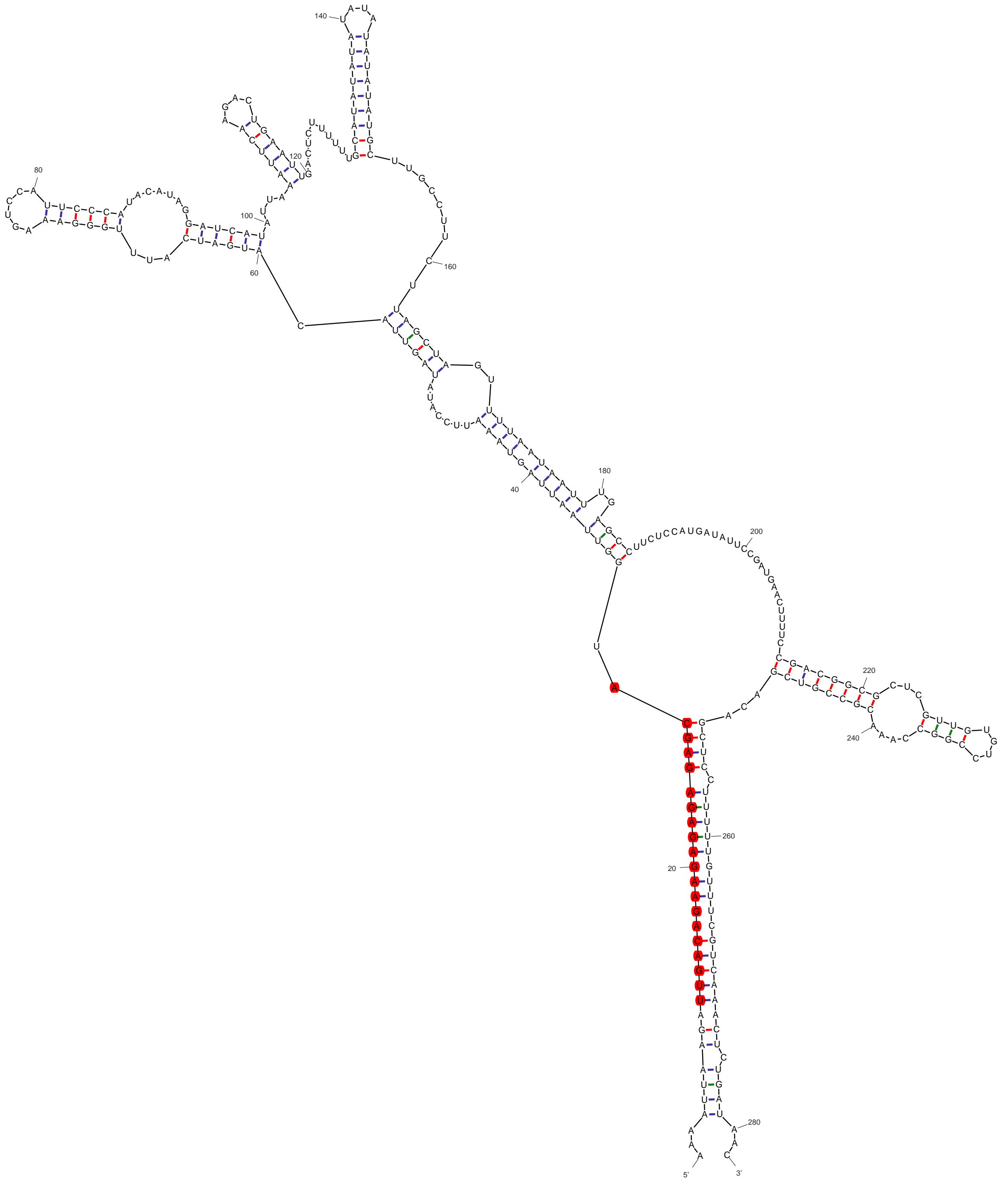


$dG = -43.08$ [Initially -46.30] 127-MIR403

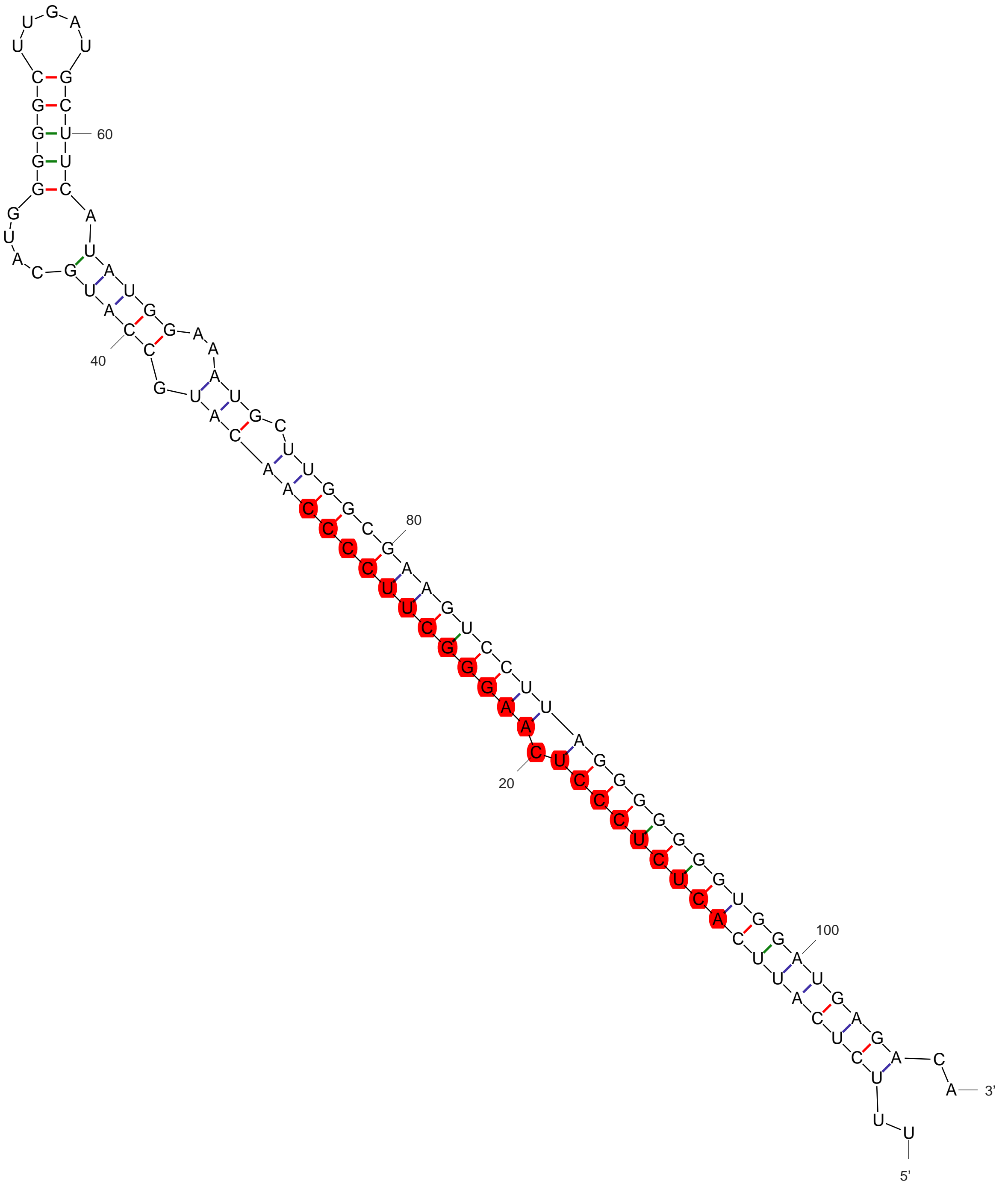




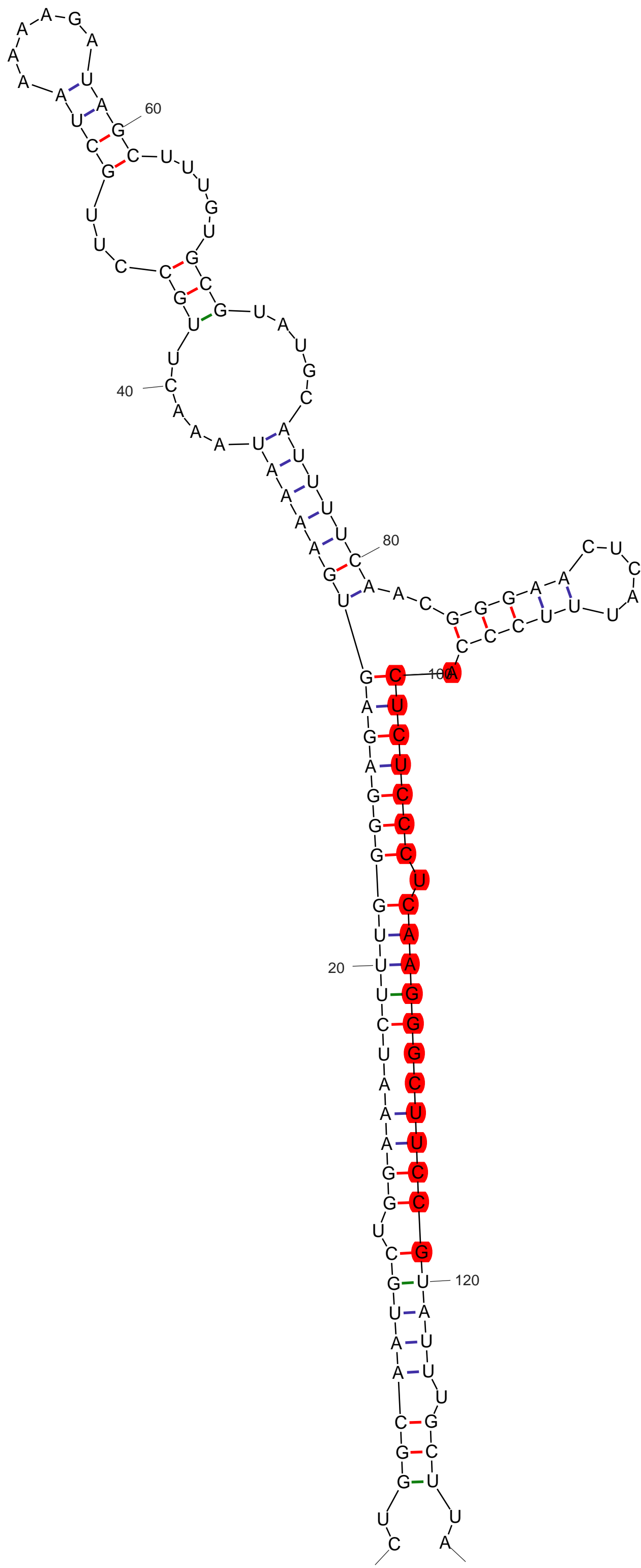
dG = -60.20 [Initially -60.20] 129-MIR477



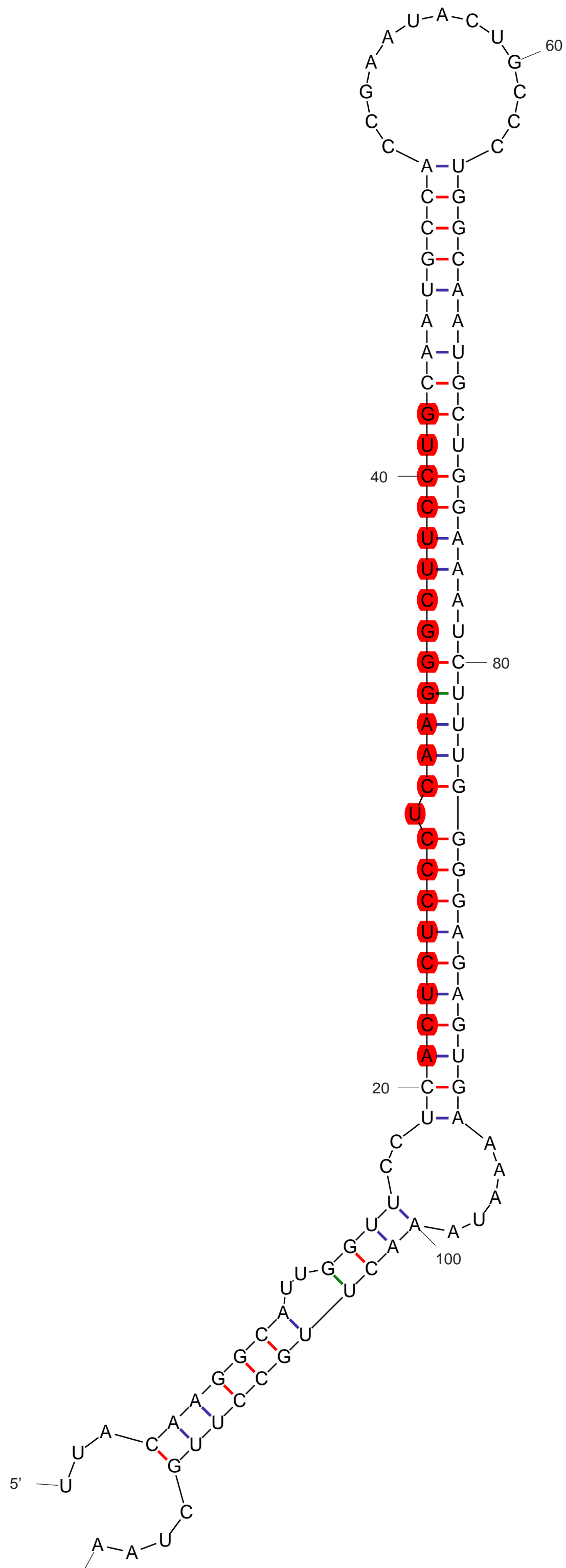
$dG = -59.95$ [Initially -67.70] 12-MIR156



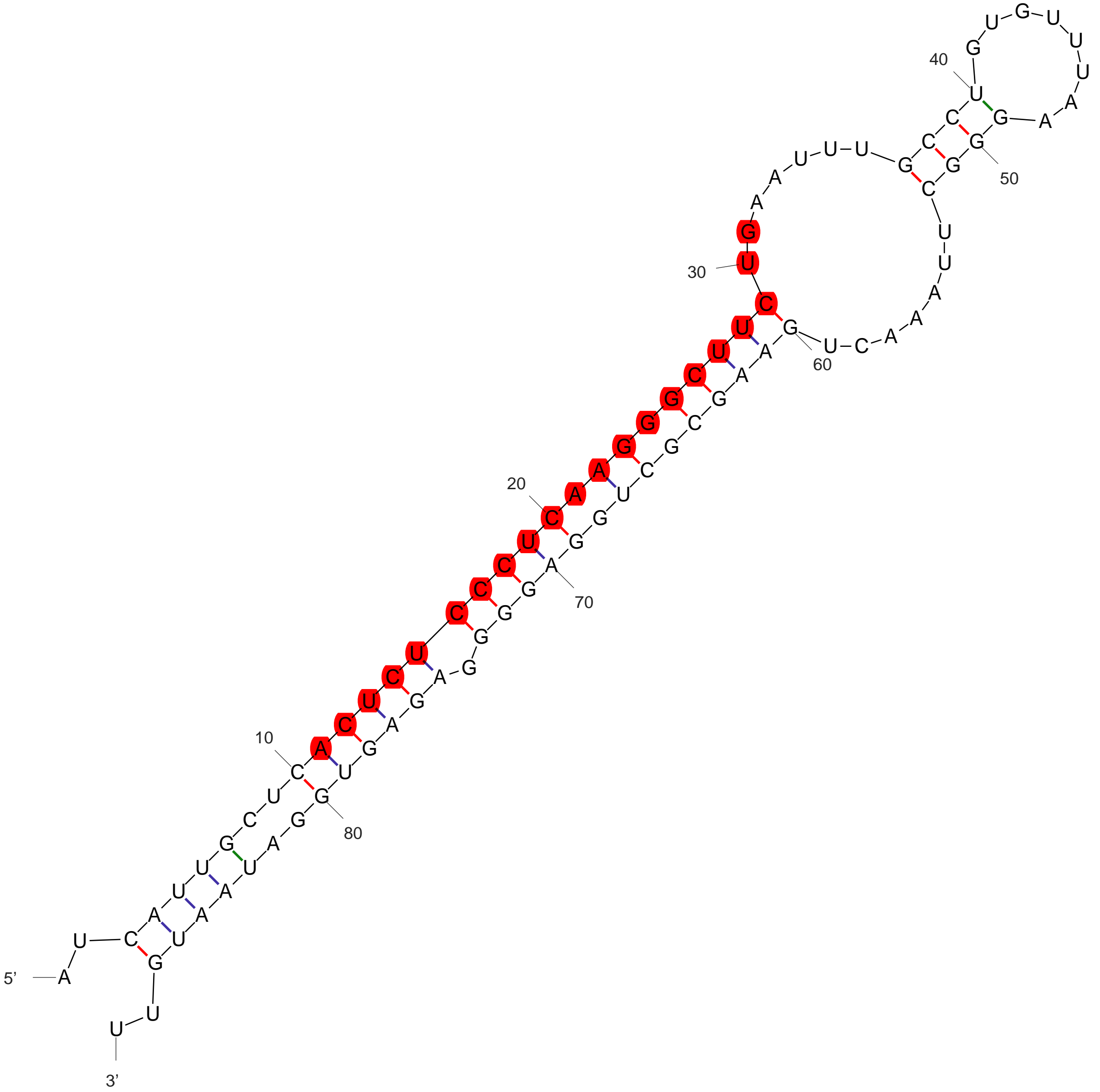
$dG = -58.80$ [Initially -58.80] 130-MIR477

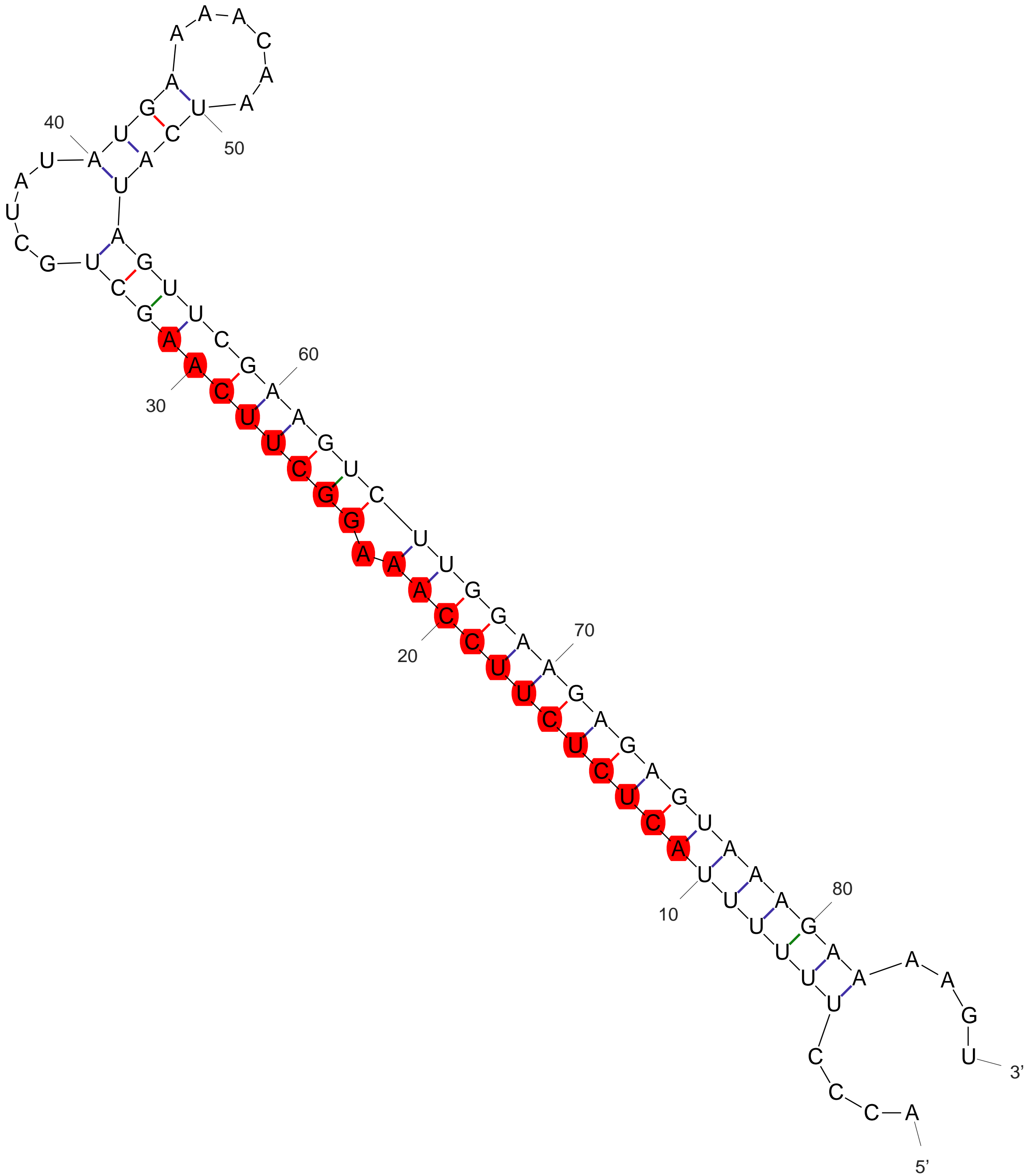


$dG = -44.50$ [Initially -47.10] 131-MIR477

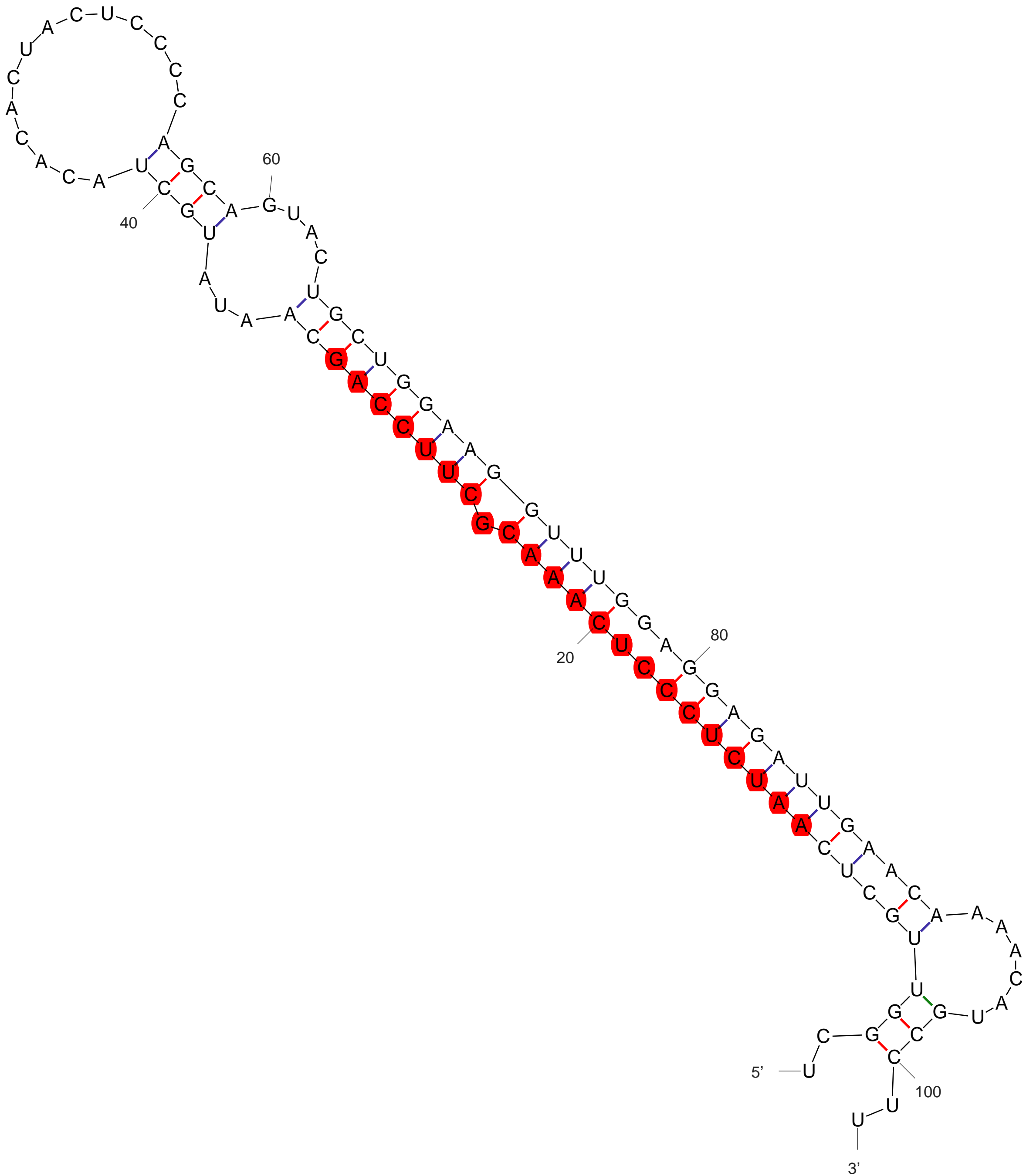


dG = -53.70 [Initially -53.70] 132-MIR477

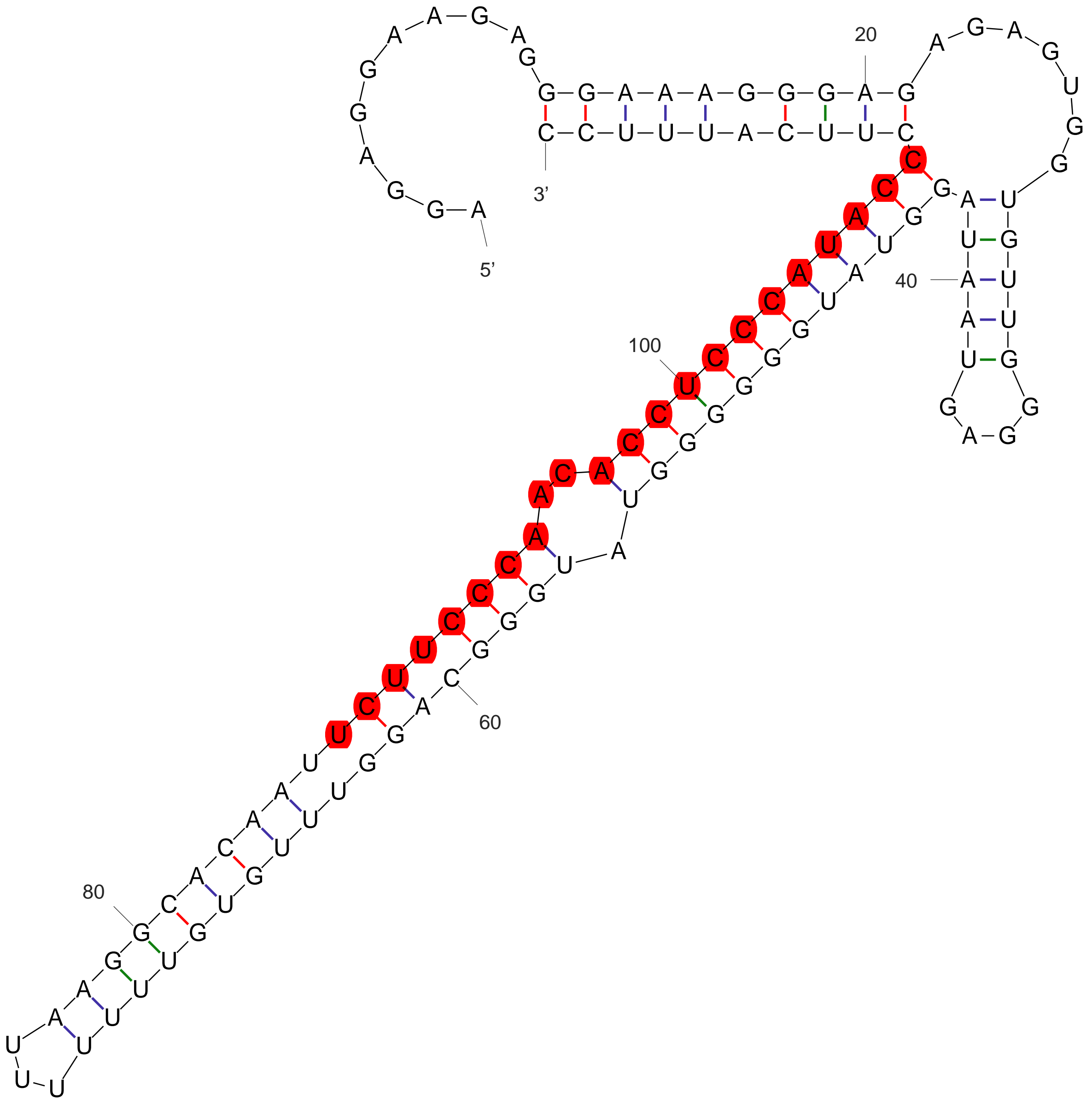




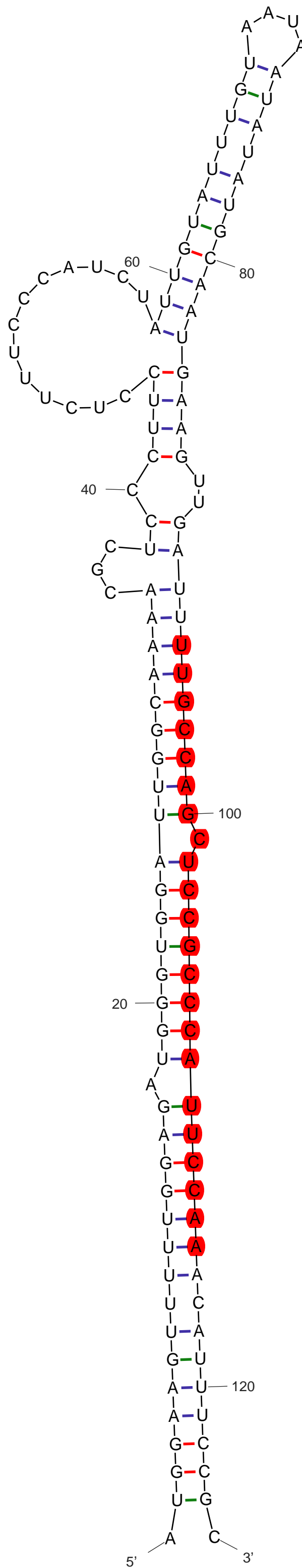
dG = -36.50 [Initially -36.50] 134-MIR477



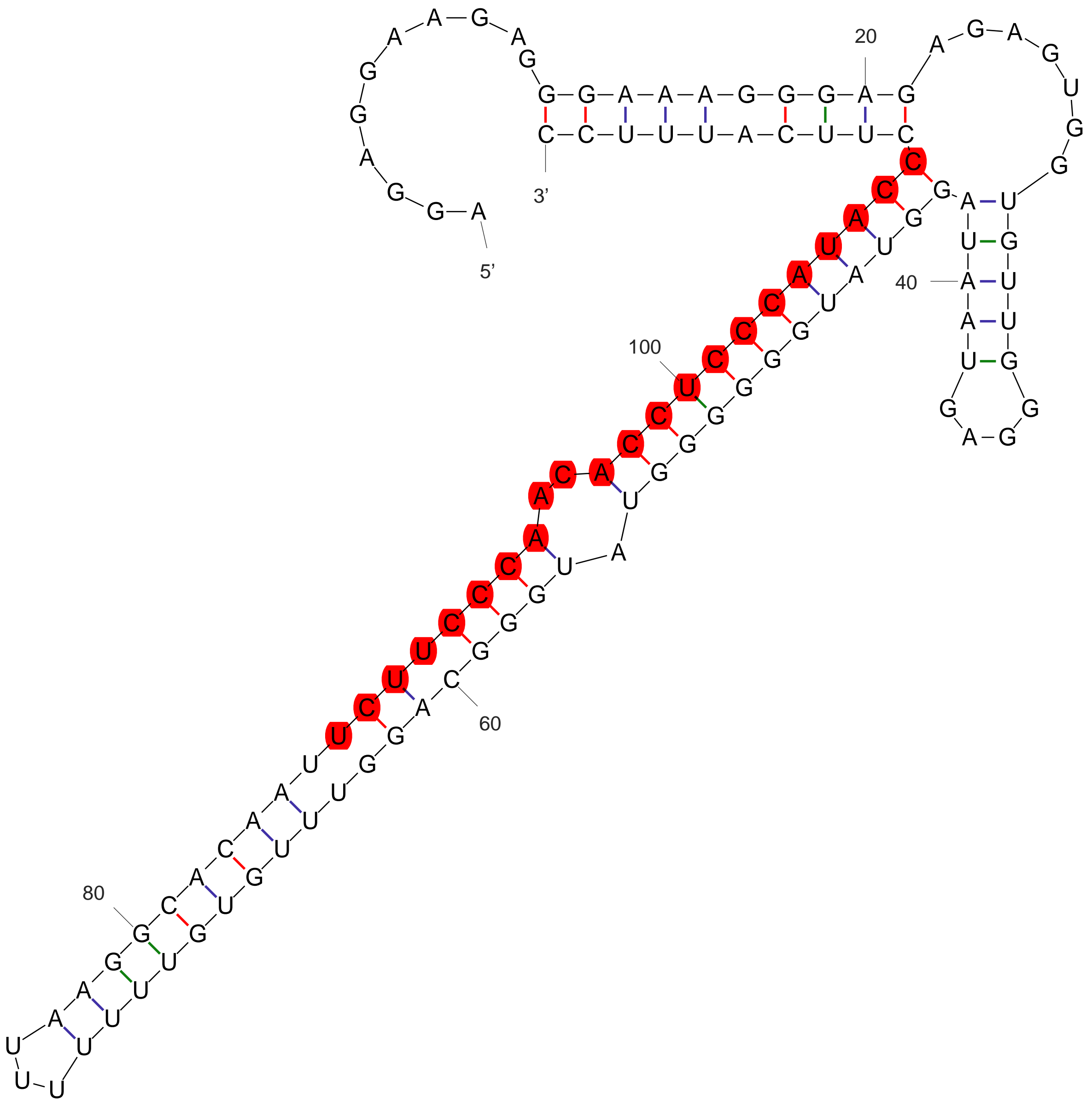
$dG = -43.10$ [Initially -43.10] 135-MIR477



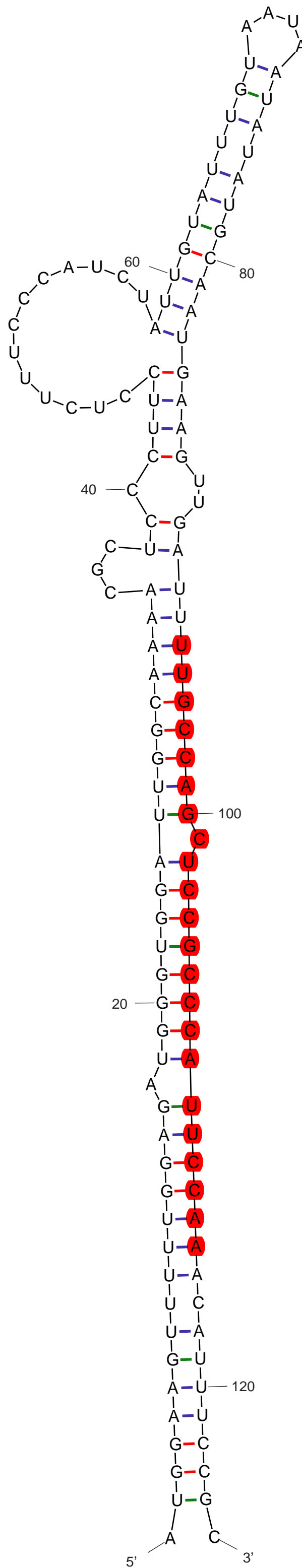
$dG = -42.93$ [Initially -43.70] 136-MIR482



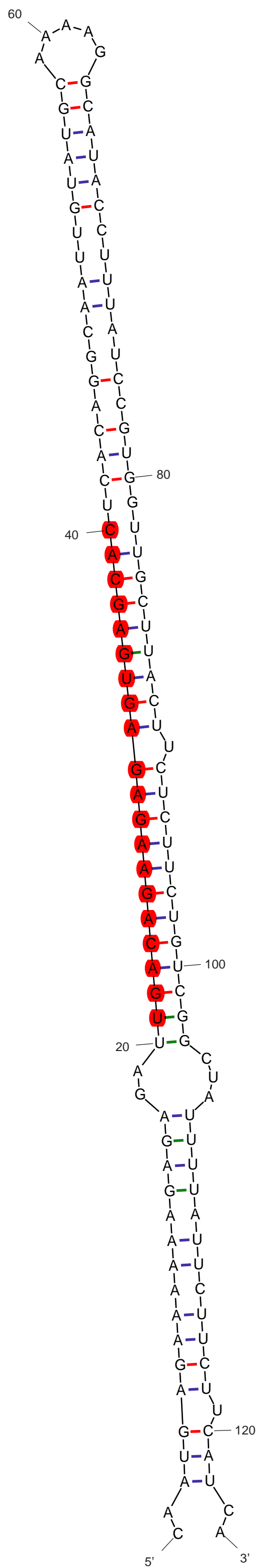
$dG = -46.70$ [Initially -46.70] 137-MIR482



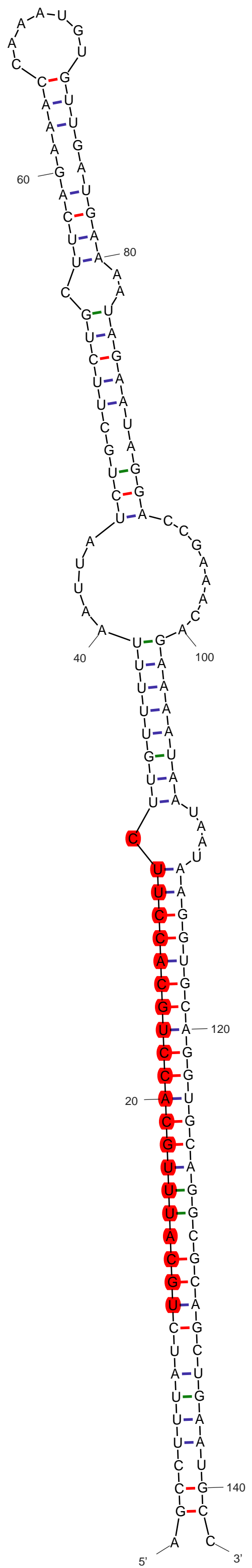
$dG = -42.93$ [Initially -43.70] 138-MIR482



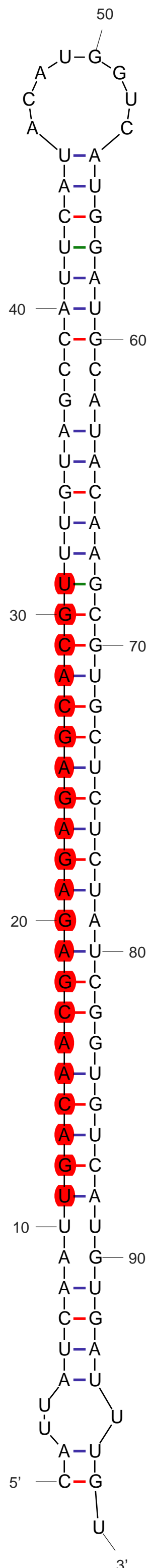
$dG = -46.70$ [Initially -46.70] 139-MIR482



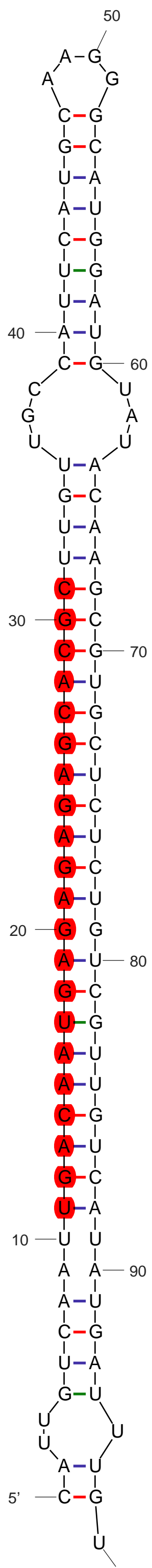
$dG = -48.80$ [Initially -48.80] 13-MIR156



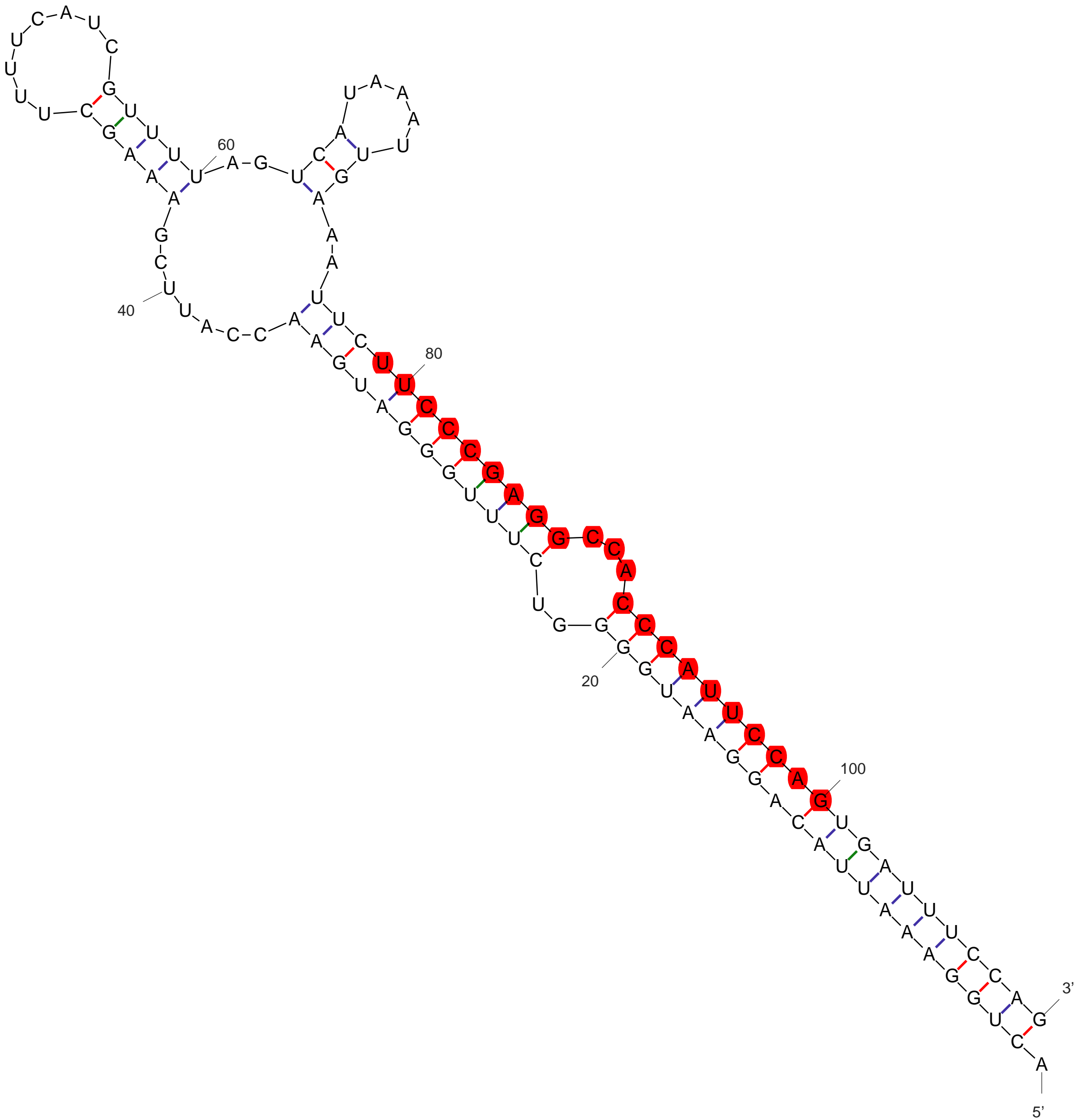
$dG = -48.80$ [Initially -48.80] 148-MIR530



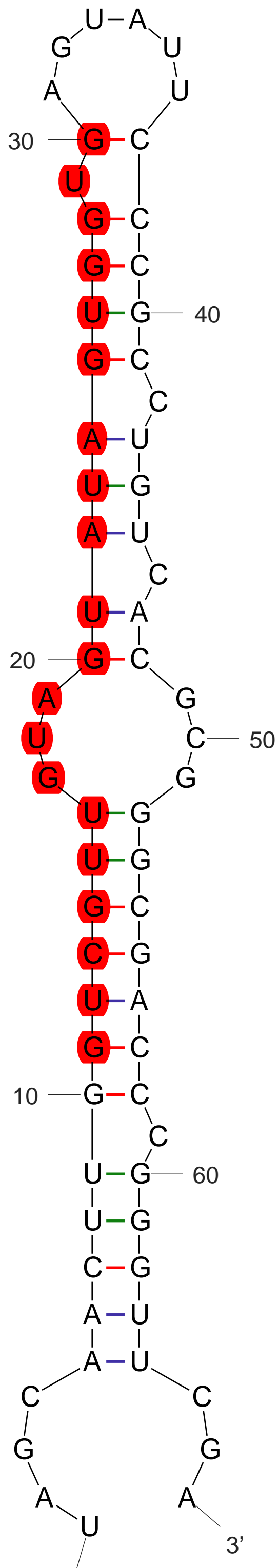
$dG = -47.30$ [Initially -47.30] 149-MIR535-[tcc-MIR535 MI0017532]



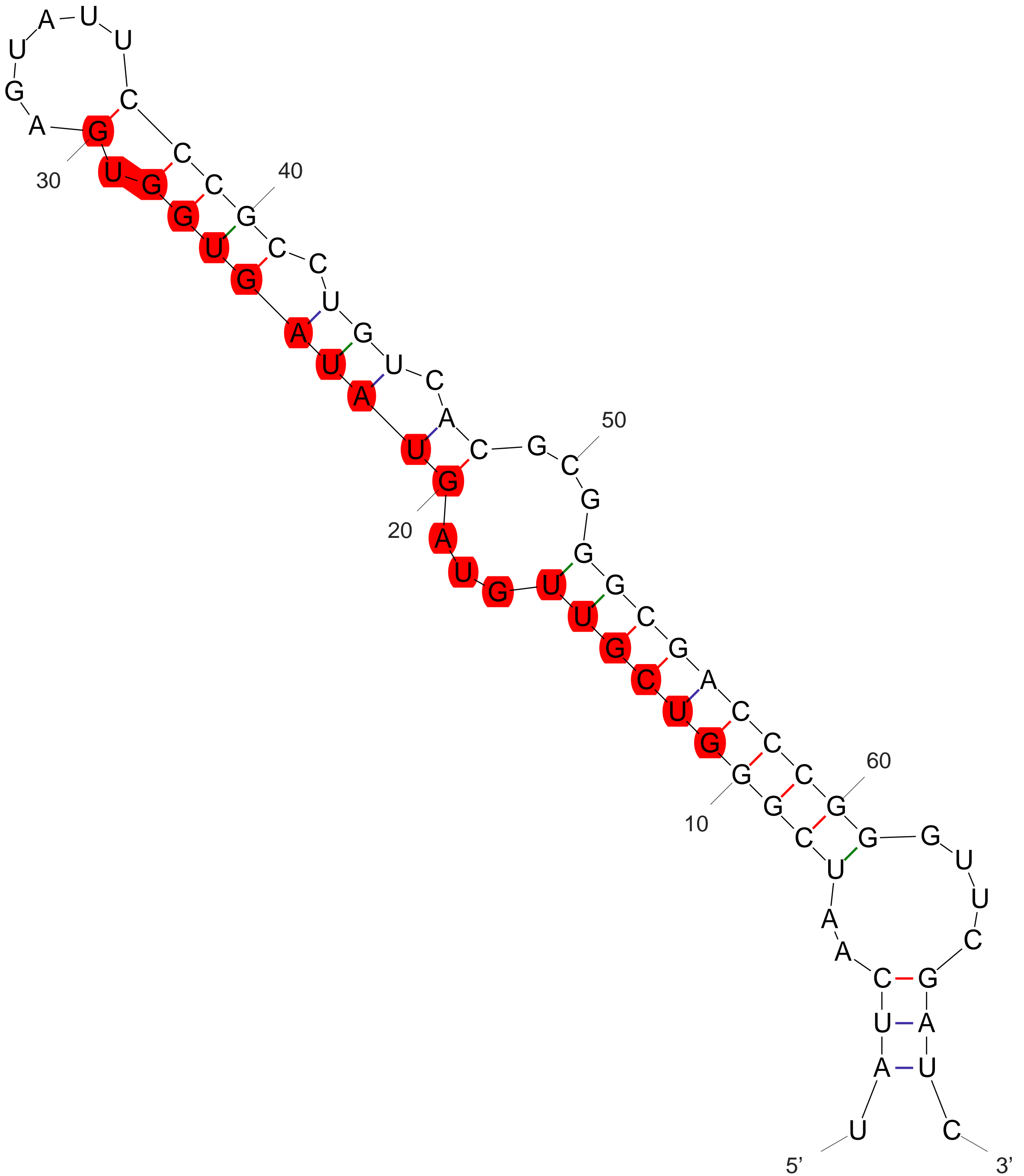
$dG = -58.90$ [Initially -58.90] 150-MIR535-[tcc-MIR535 MI0017532]



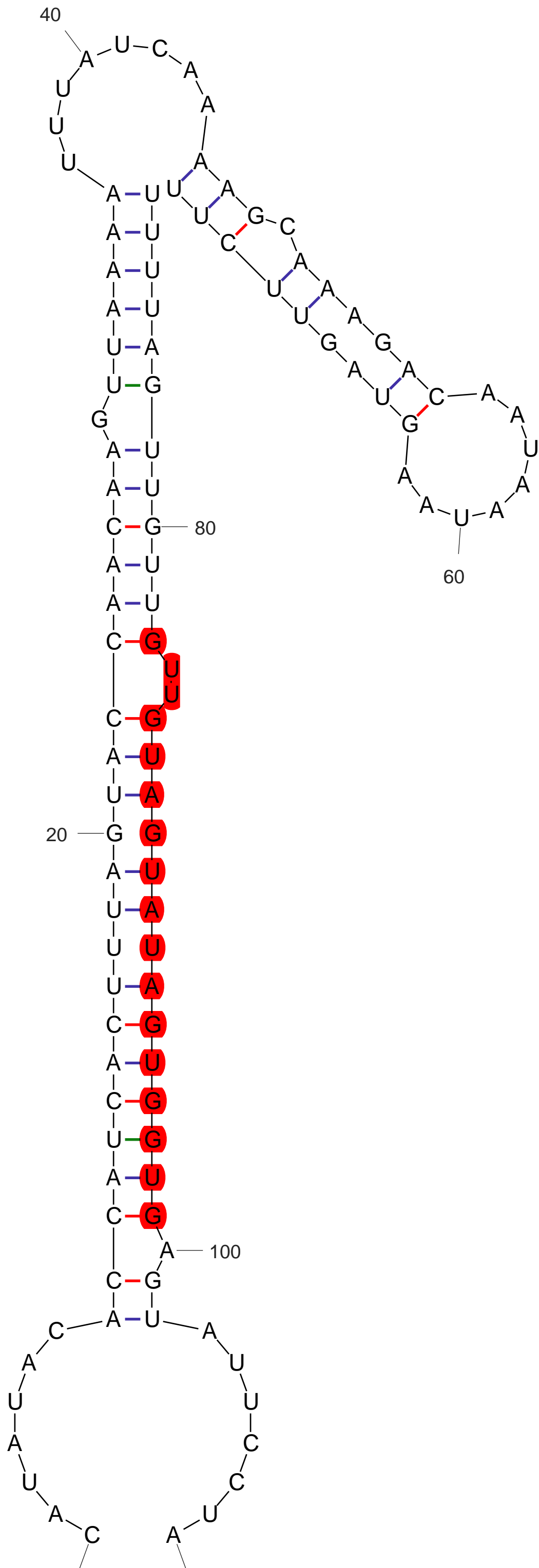
$dG = -42.63$ [Initially -46.00] 151-MIR6118



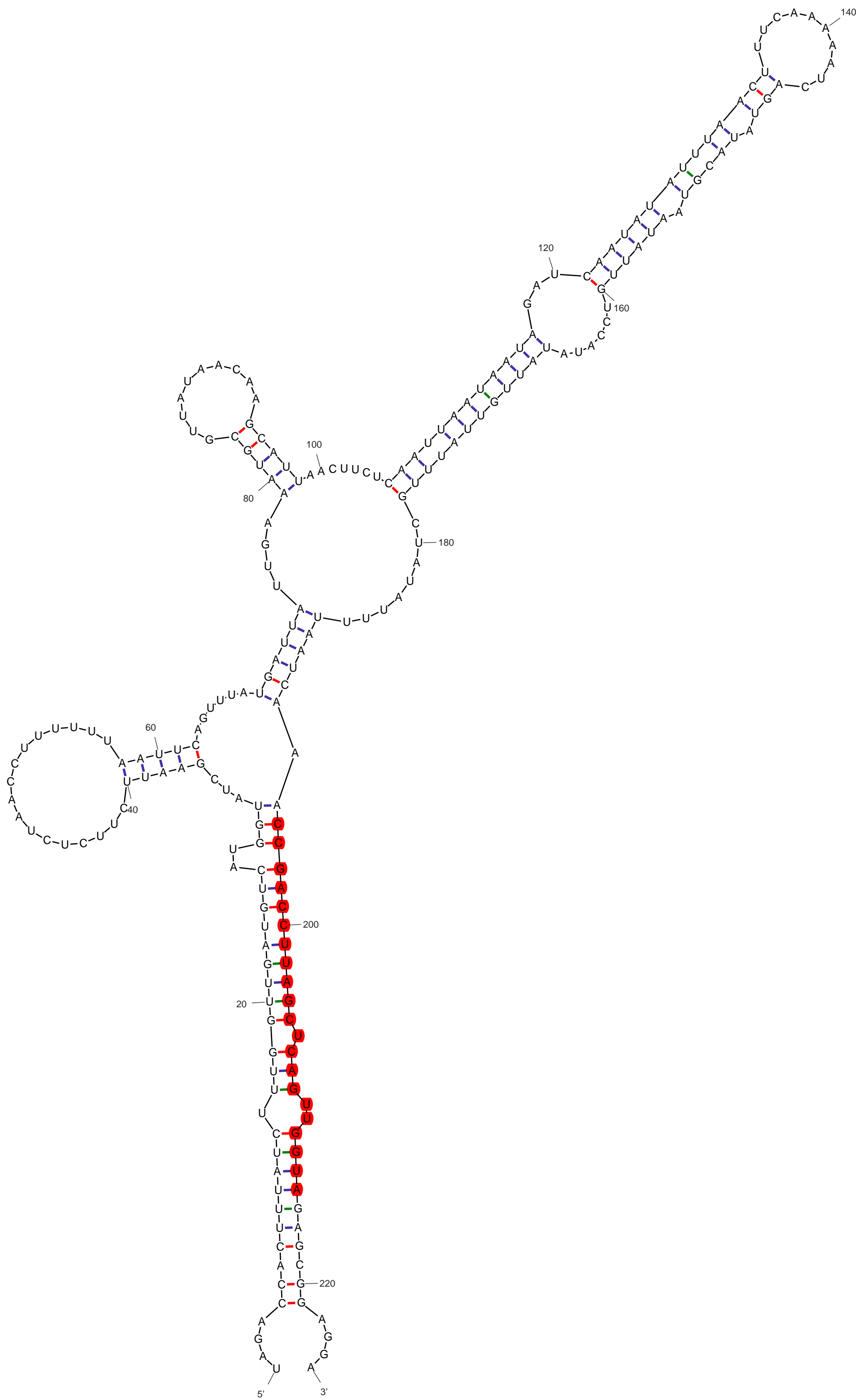
5'
dG = -18.70 [Initially -18.70] 152-MIR6300



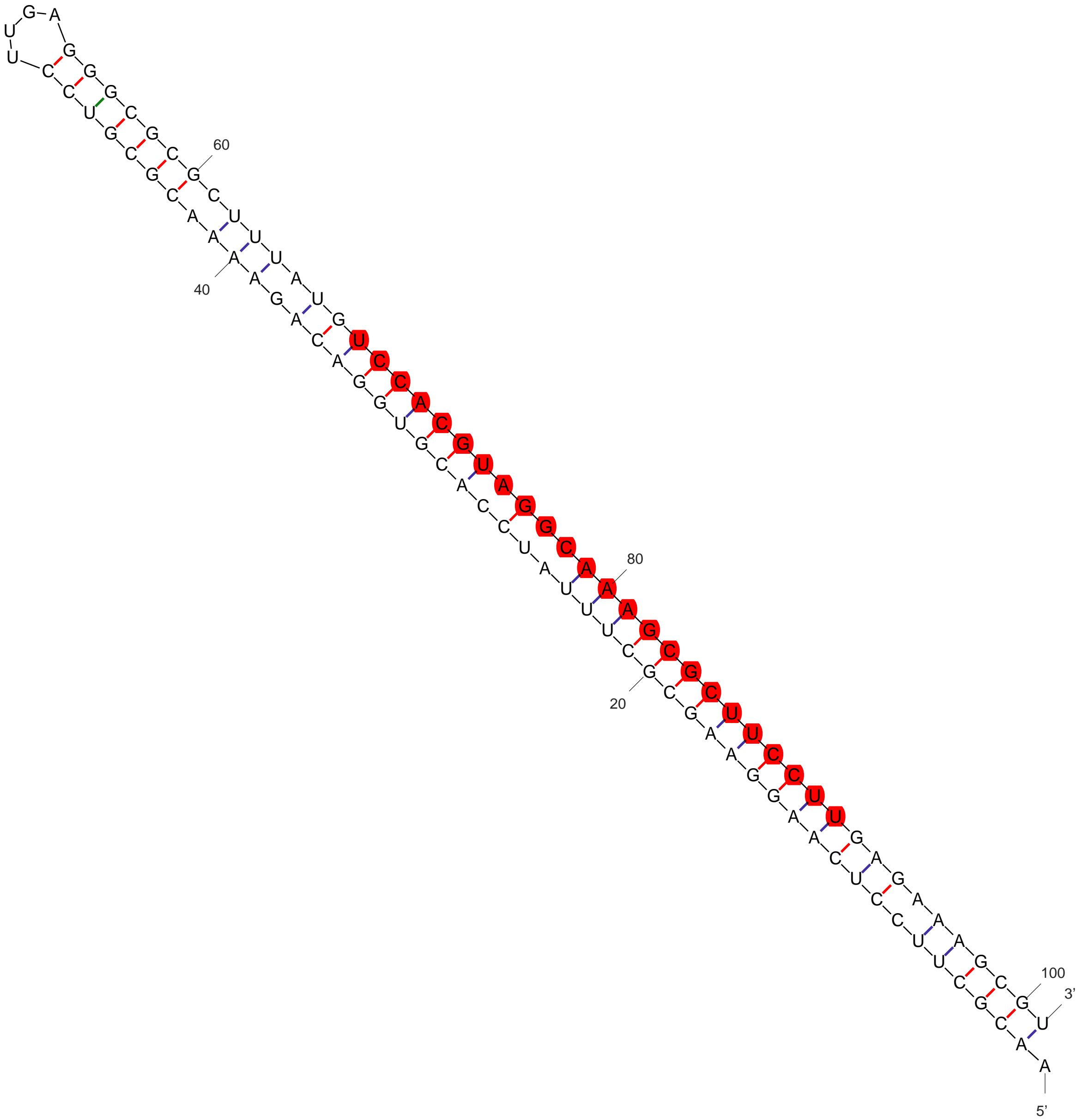
$dG = -23.40$ [Initially -23.40] 153-MIR6300



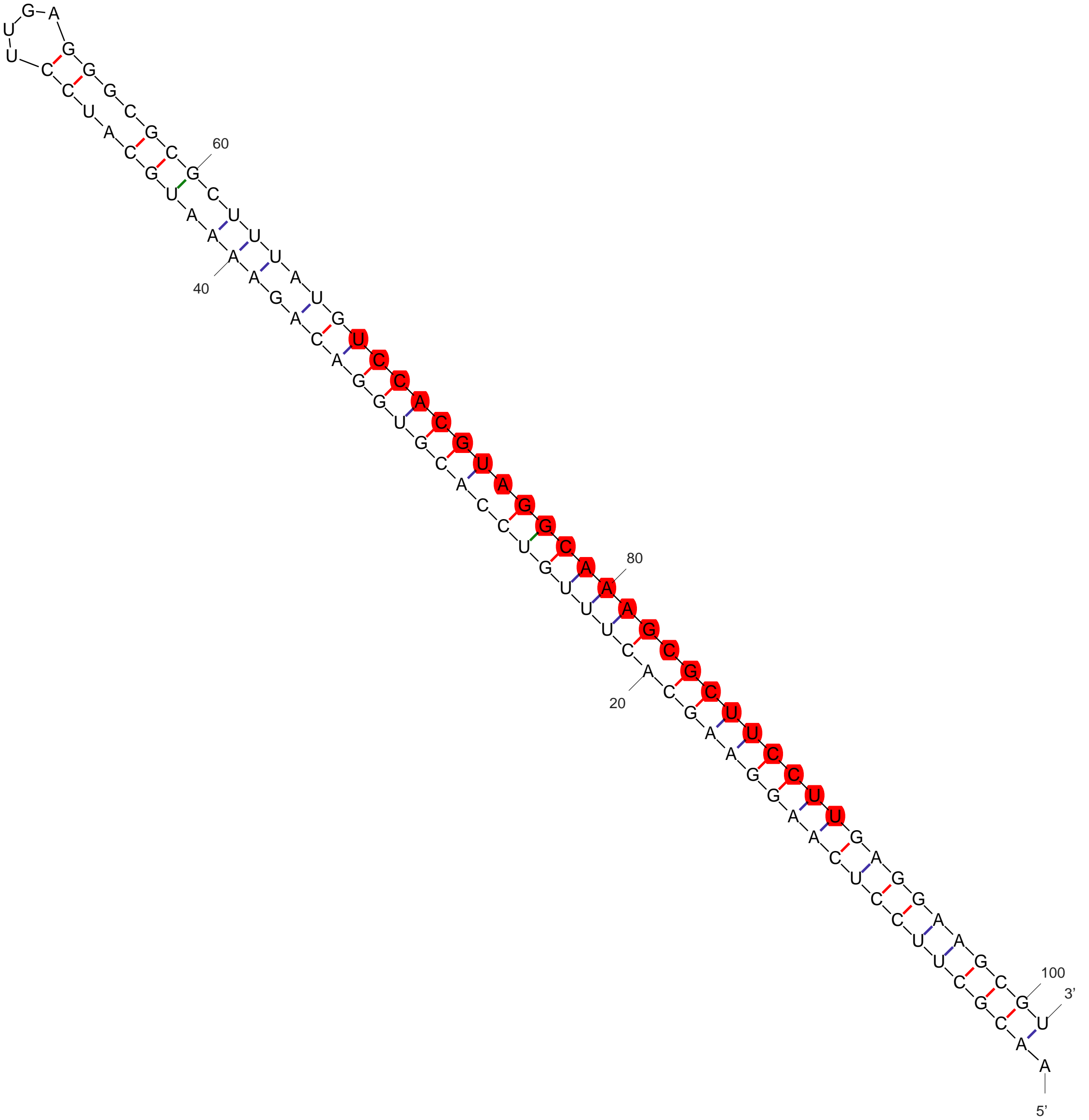
dG = -19.30 [Initially -19.30] 154-MIR6300



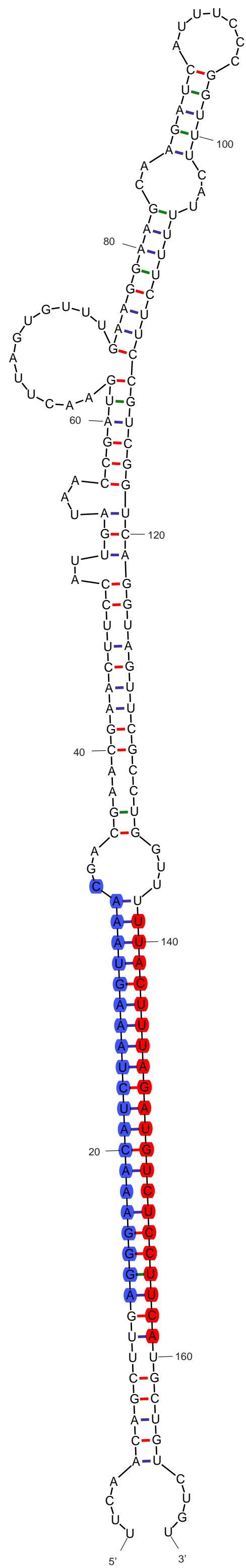
dG = -29.57 [Initially -36.30] 155-MIR6478



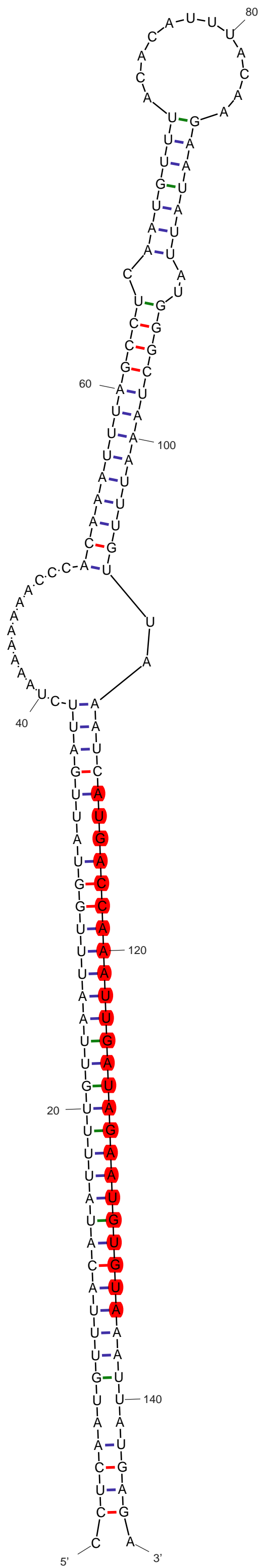
dG = -70.10 [Initially -70.10] 156-MIR7486



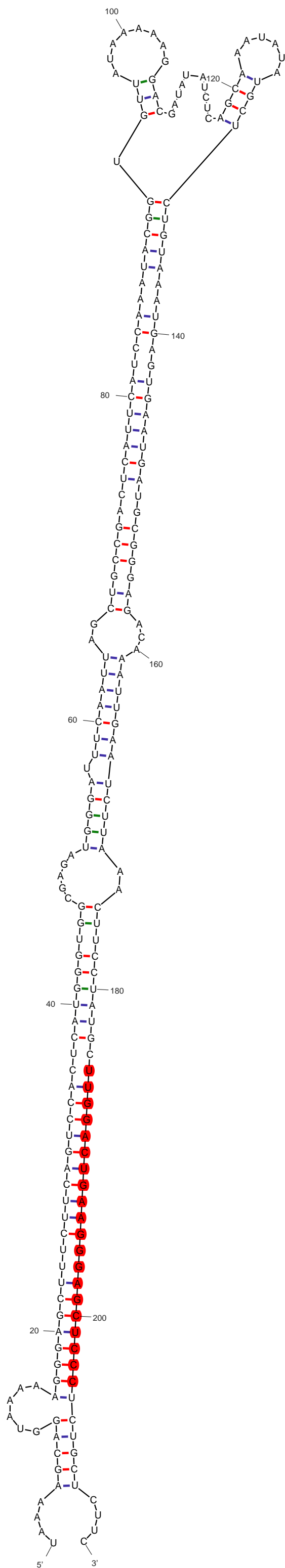
$dG = -69.60$ [Initially -69.60] 157-MIR7486



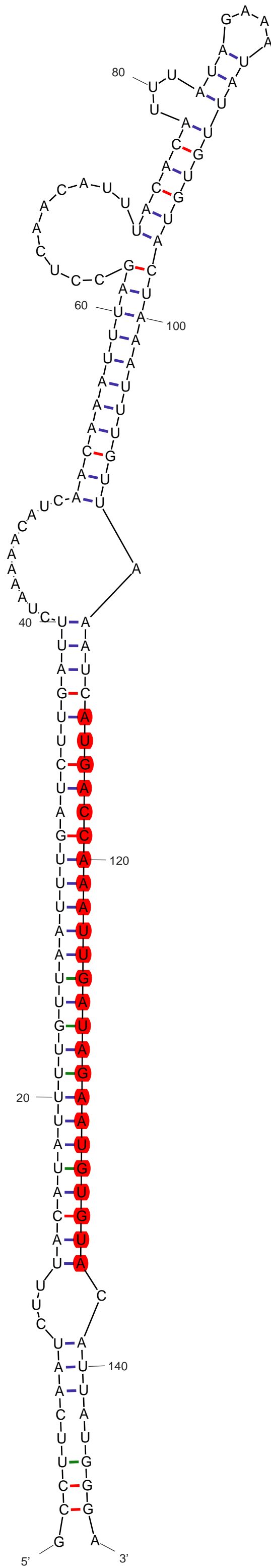
$dG = -60.20$ [Initially -60.20] 158-MIR7495



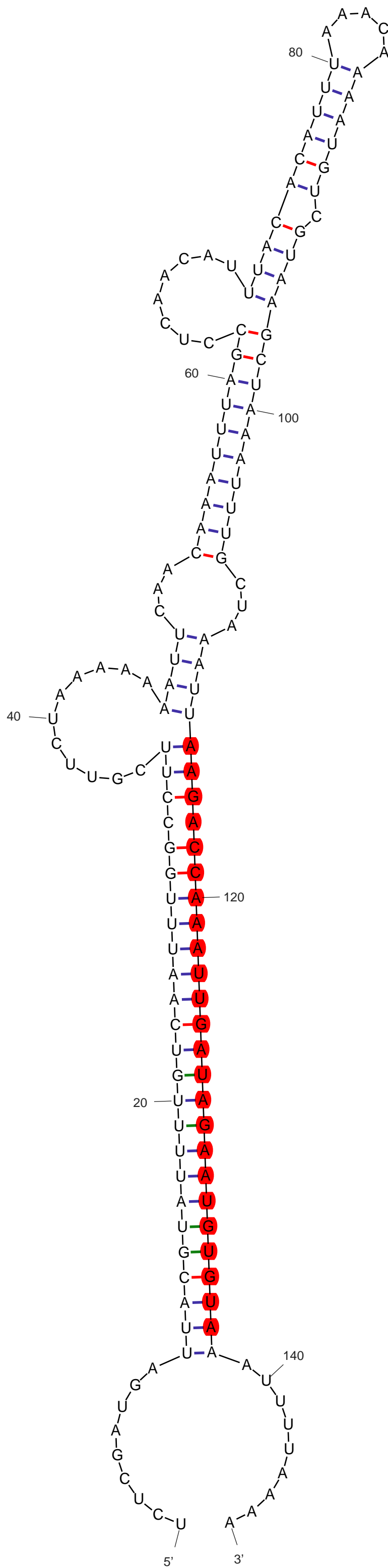
$dG = -50.90$ [Initially -50.90] 159-MIR7496



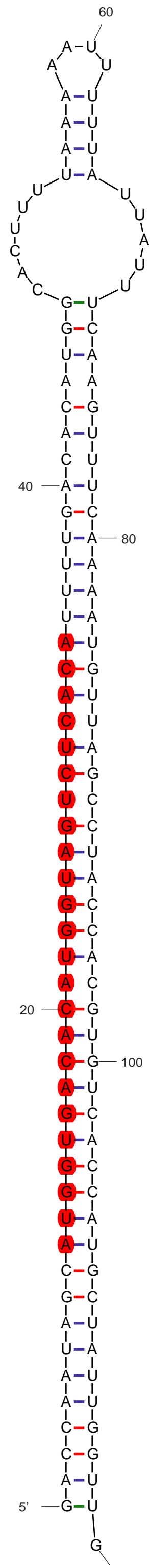
$dG = -82.63$ [Initially -84.60] 15-MIR159-[ctr-MIR319 MI0013303]



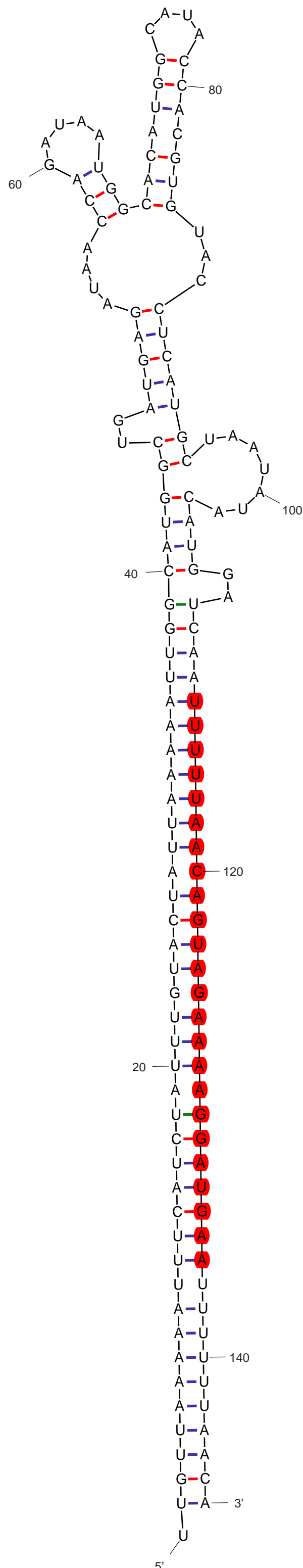
dG = -38.30 [Initially -38.30] 160-MIR7496



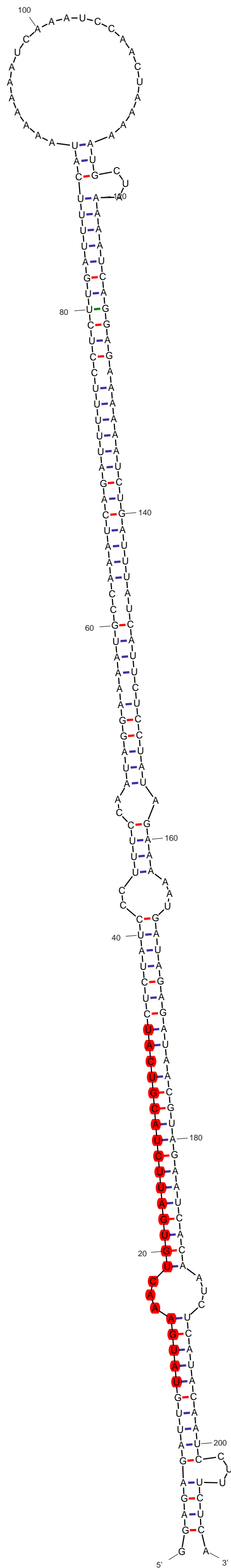
$dG = -36.10$ [Initially -36.10] 161-MIR7496



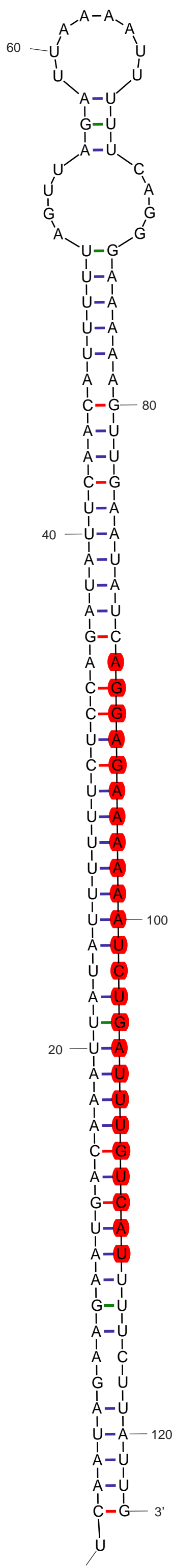
$dG = -59.20$ [Initially -59.20] 163-MIR7498



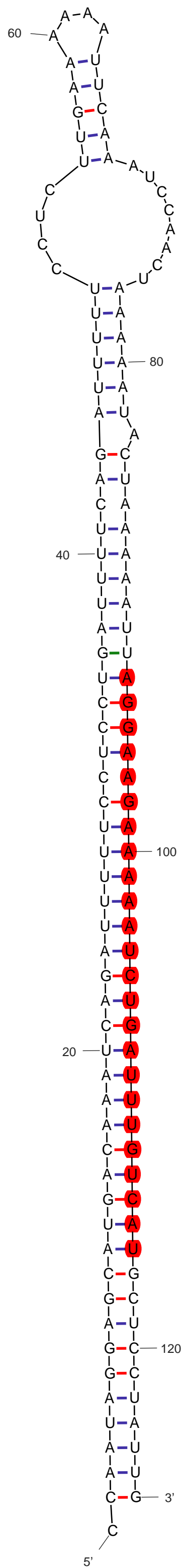
$dG = -42.93$ [Initially -43.50] 164-MIR7502



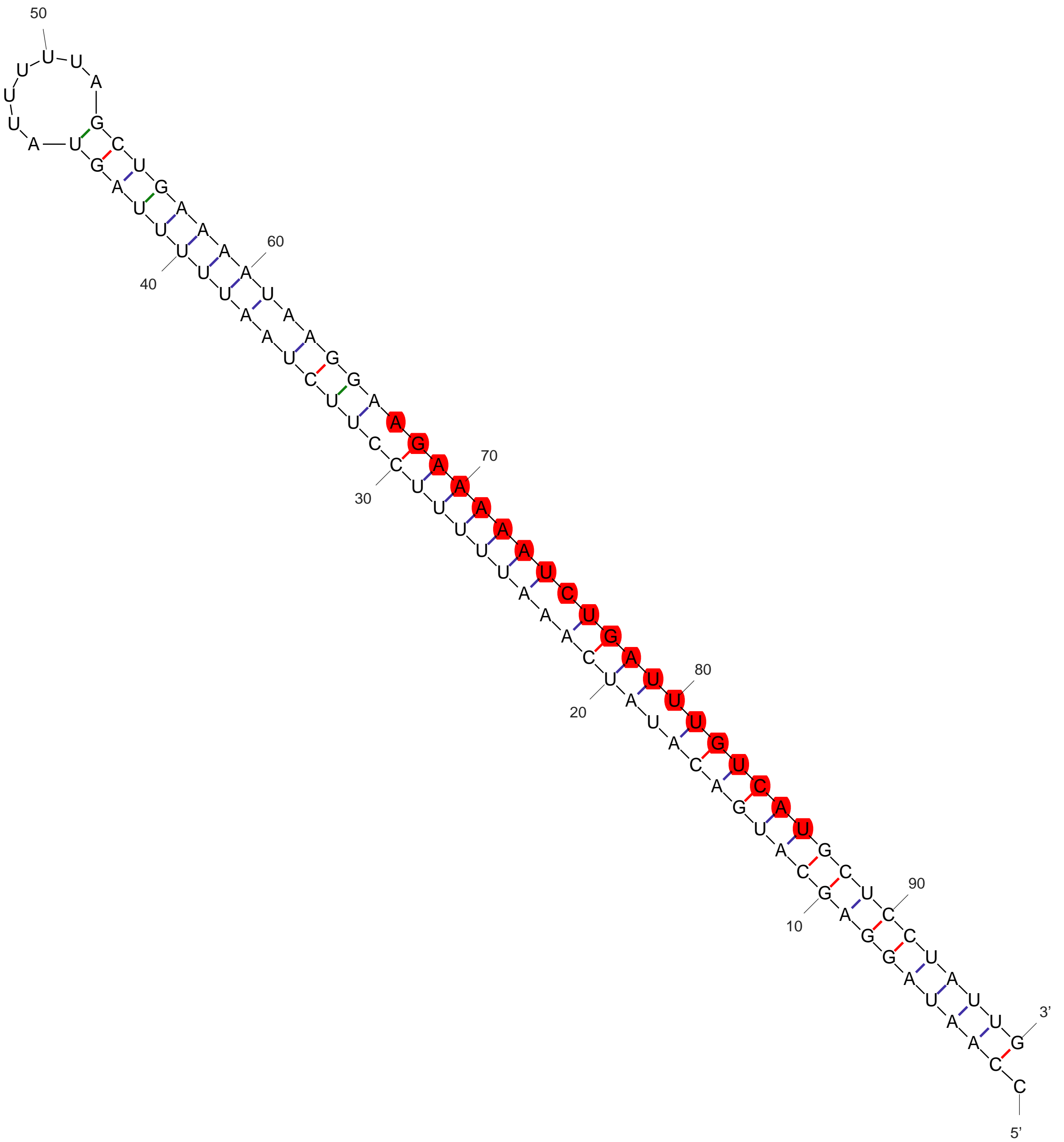
$dG = -86.30$ [Initially -86.30] 165-MIR7504a



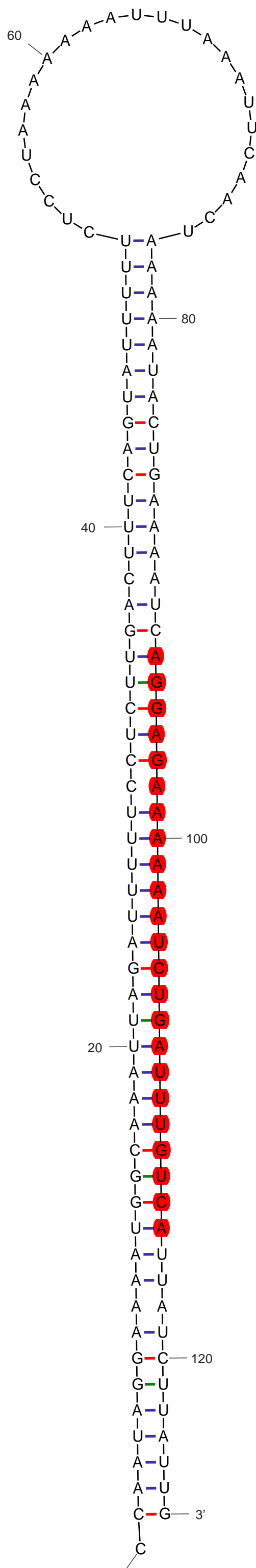
$dG = -47.60$ [Initially -47.60] 166-MIR7504b



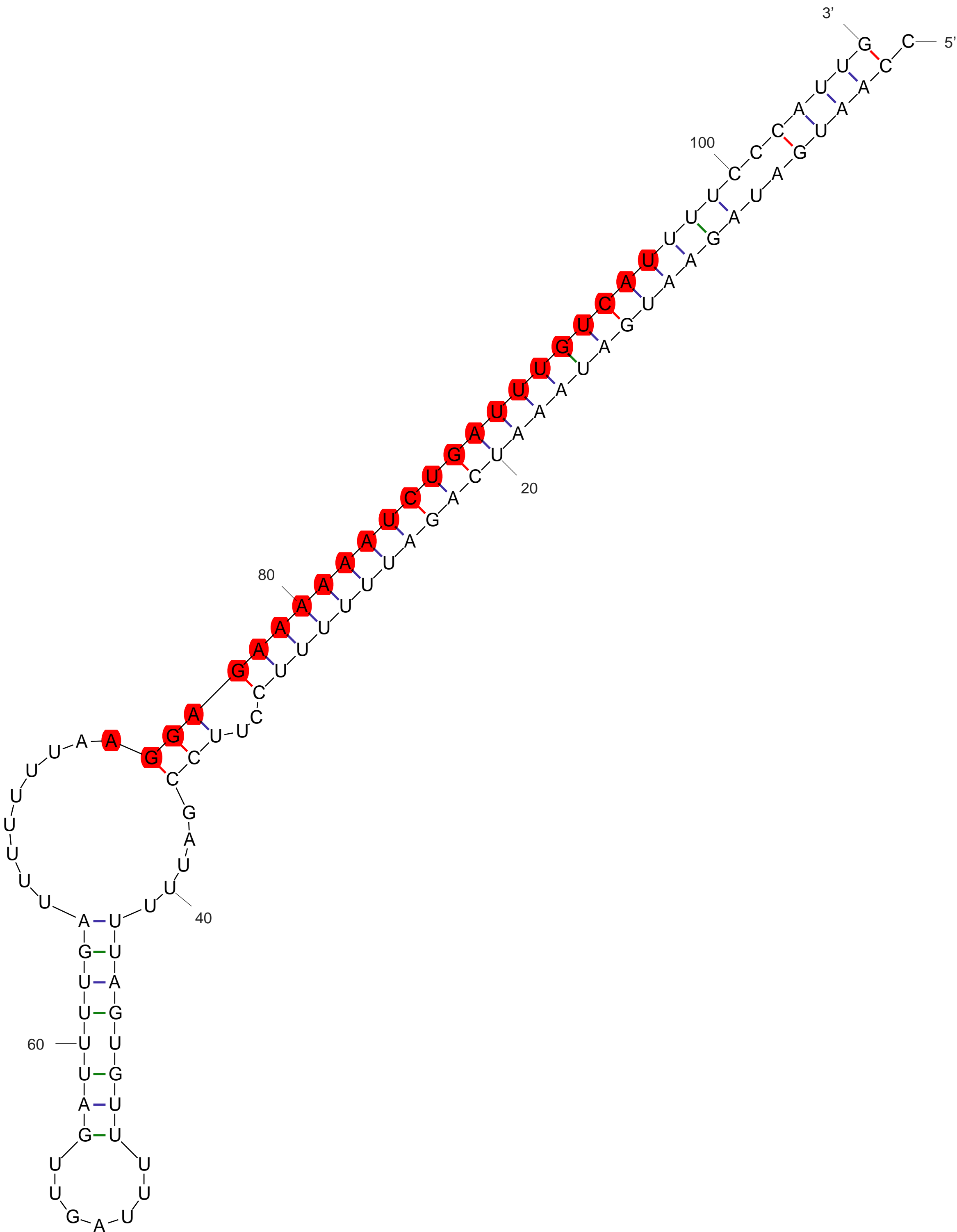
$dG = -61.40$ [Initially -61.40] 167-MIR75047b



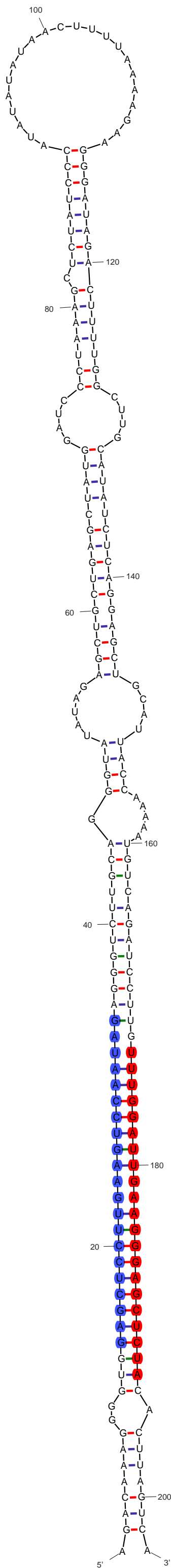
$dG = -47.90$ [Initially -47.90] 168-MIR7504b



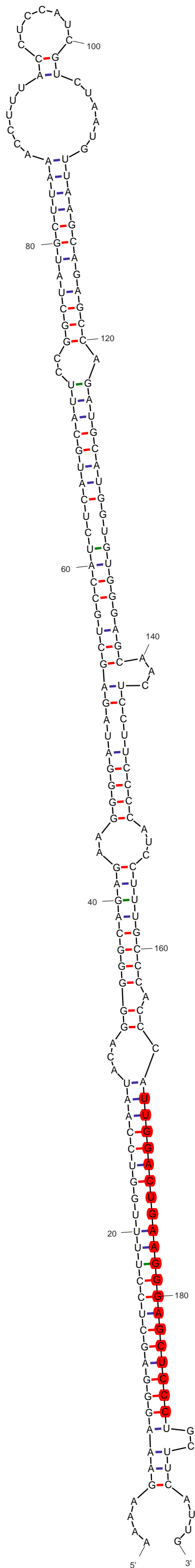
$dG = -51.70$ [Initially -51.70] 169-MIR7504b



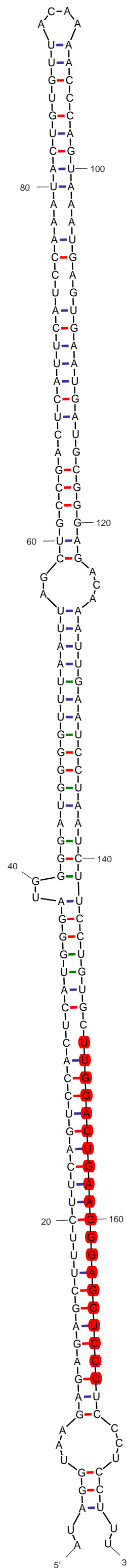
dG = -33.10 [Initially -33.10] 170-MIR7504b



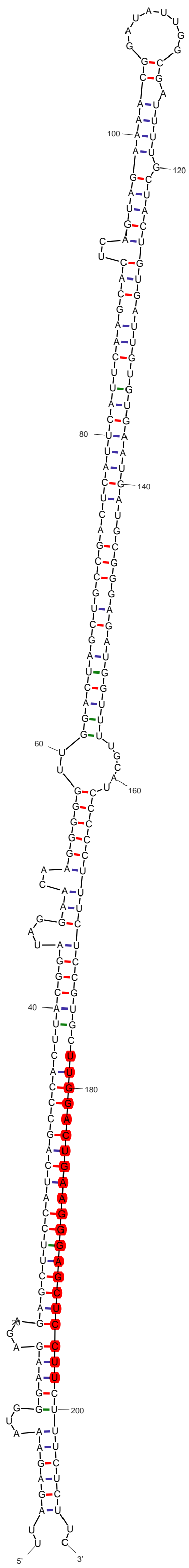
$dG = -87.80$ [Initially -87.80] 17-MIR159-[hbr-MIR159a MI0022053]



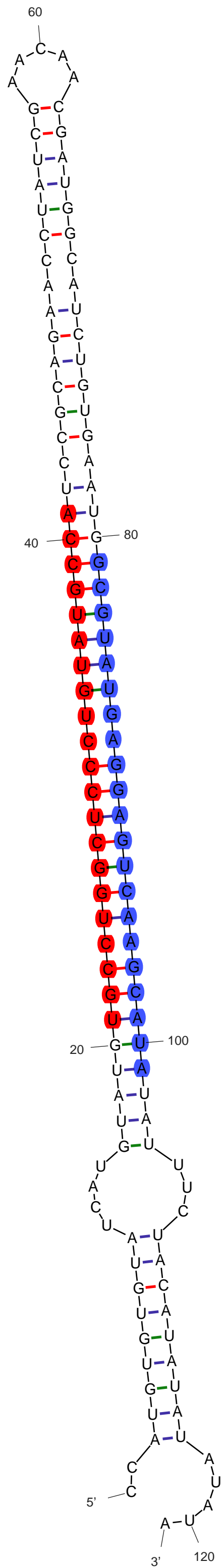
$dG = -104.20$ [Initially -104.20] 18-MIR159



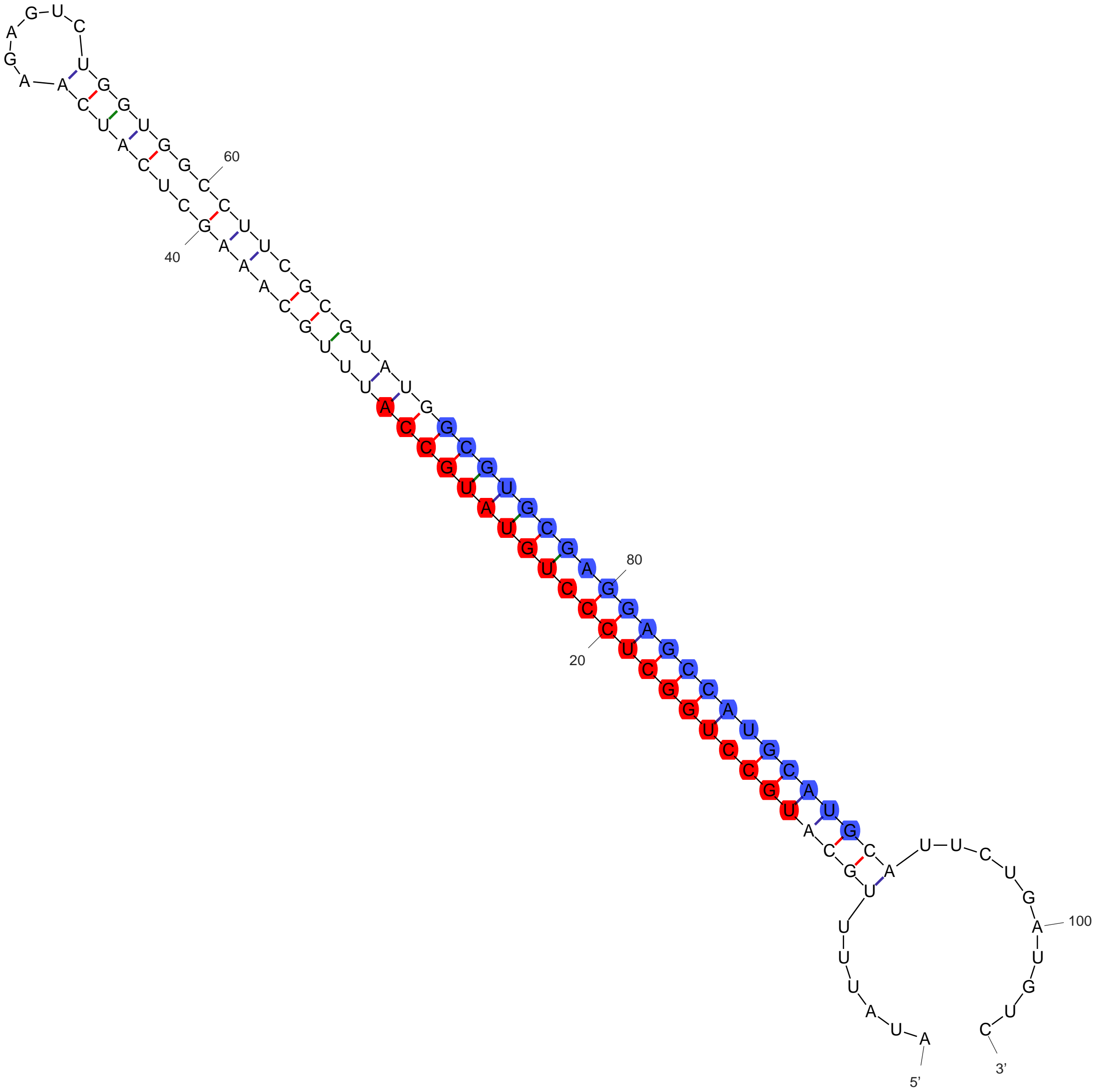
$dG = -85.70$ [Initially -85.70] 19-MIR159-[vvi-MIR319c MI0006549]



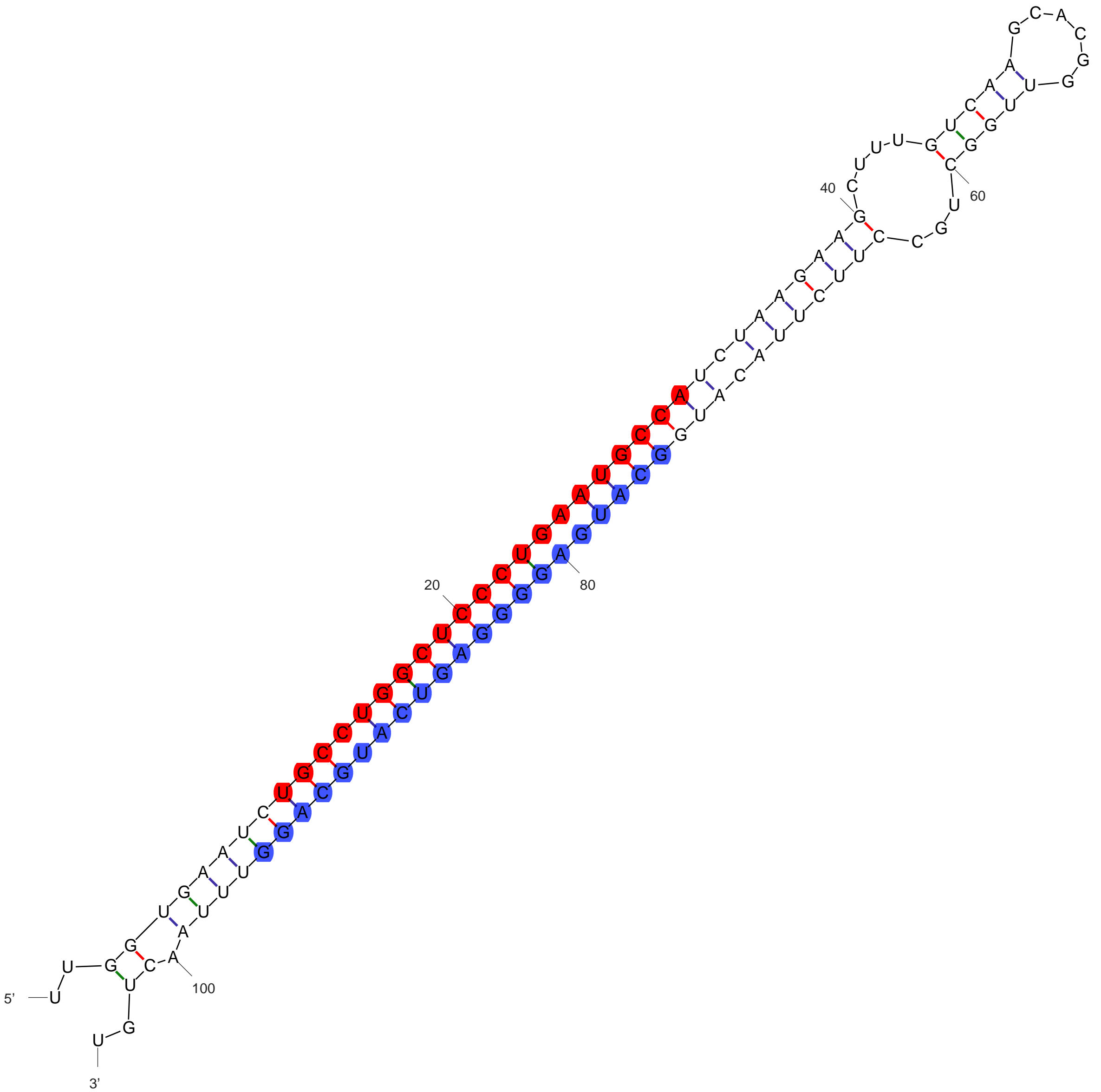
$dG = -86.80$ [Initially -86.80] 20-MIR159-[ptc-MIR319f MI0002301]



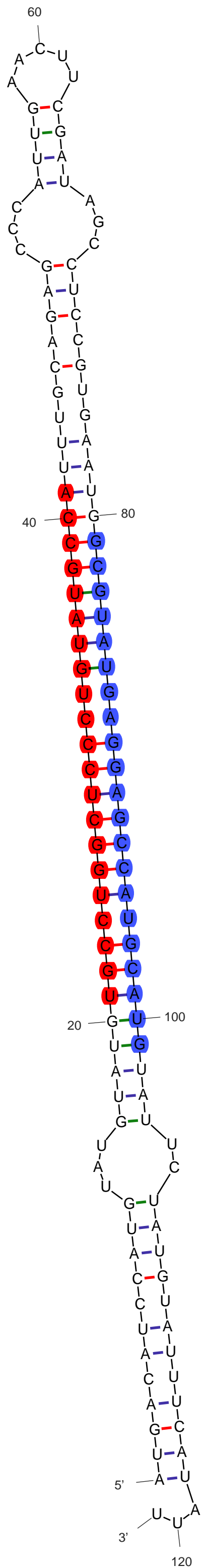
$dG = -59.50$ [Initially -59.50] 21-MIR160-[mdm-MIR160c MI0023006]



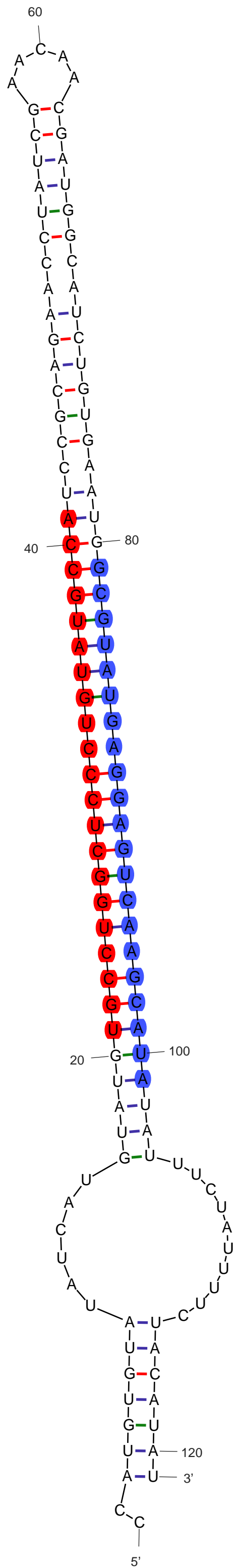
$dG = -54.20$ [Initially -54.20] 22-MIR160-[tcc-MIR160b MI0017461]



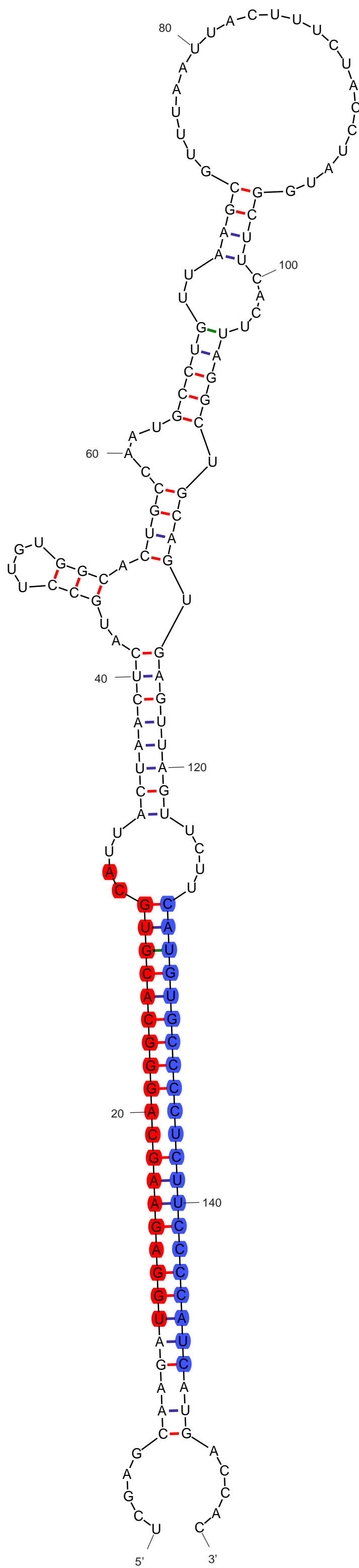
$dG = -53.00$ [Initially -53.00] 23-MIR160-[tcc-MIR160a MI0017460]



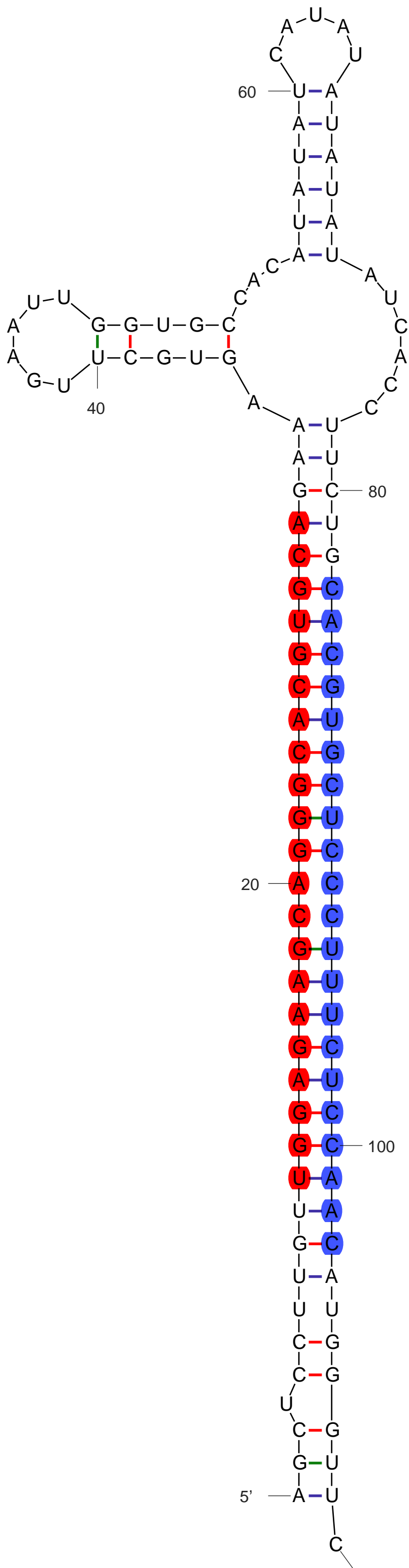
$dG = -53.00$ [Initially -53.00] 24-MIR160-[mdm-MIR160e MI0023008]



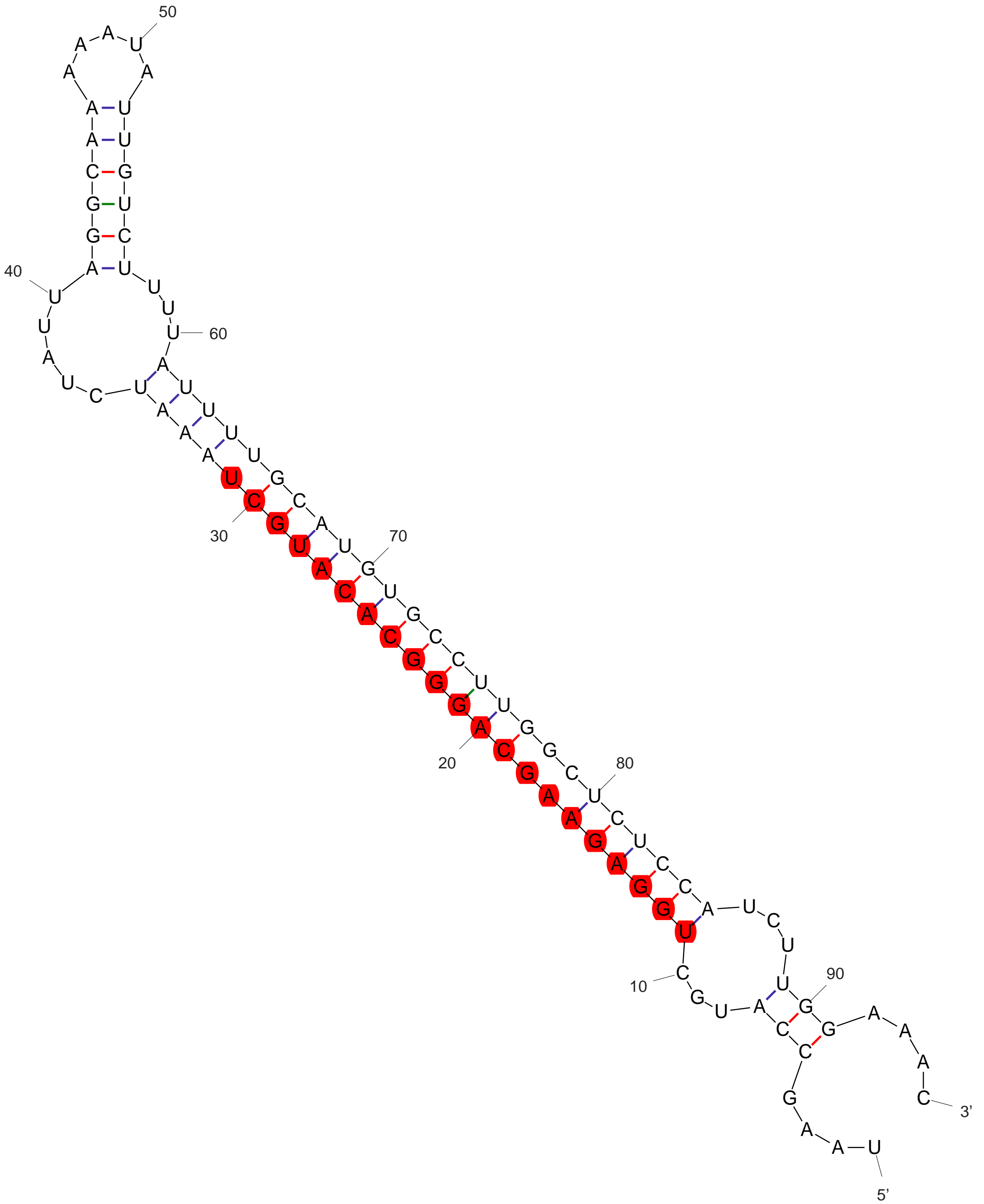
$dG = -54.10$ [Initially -54.10] 25-MIR160-[mdm-MIR160c MI0023006]



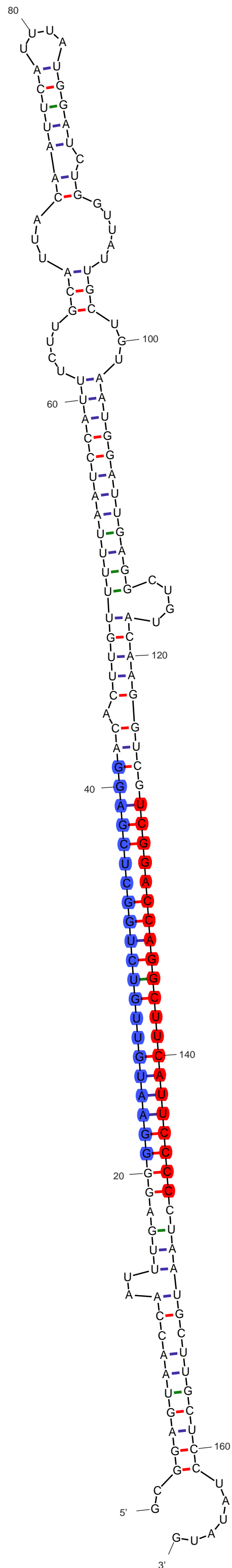
$dG = -57.10$ [Initially -58.90] 28-MIR164



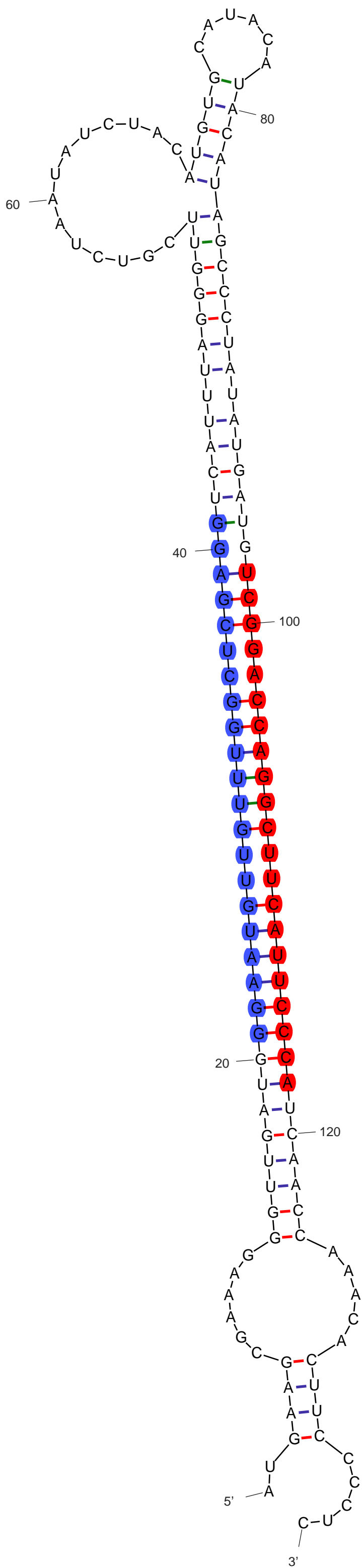
$dG = -48.54$ [Initially -50.50] 29-MIR164



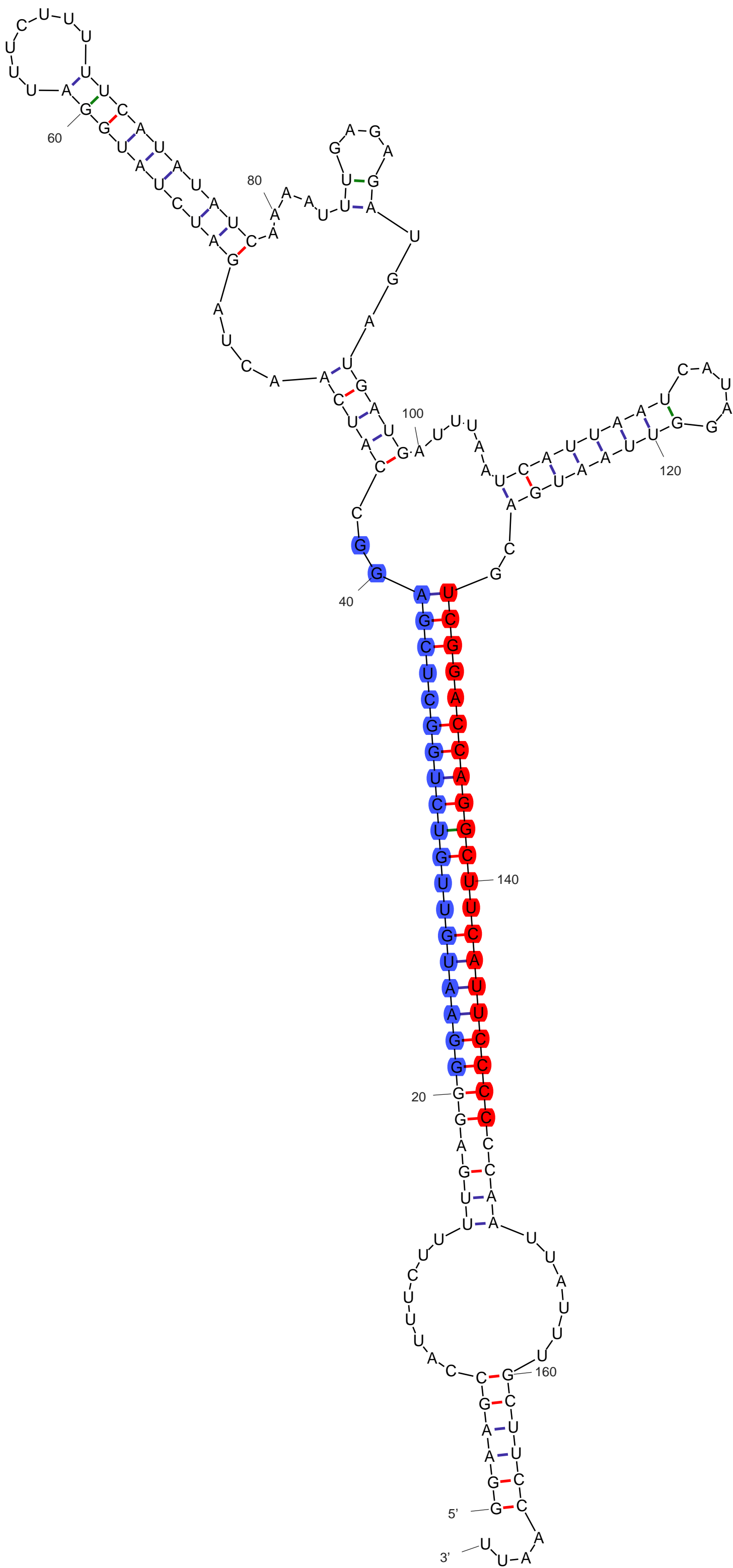
dG = -40.80 [Initially -40.80] 31-MIR164



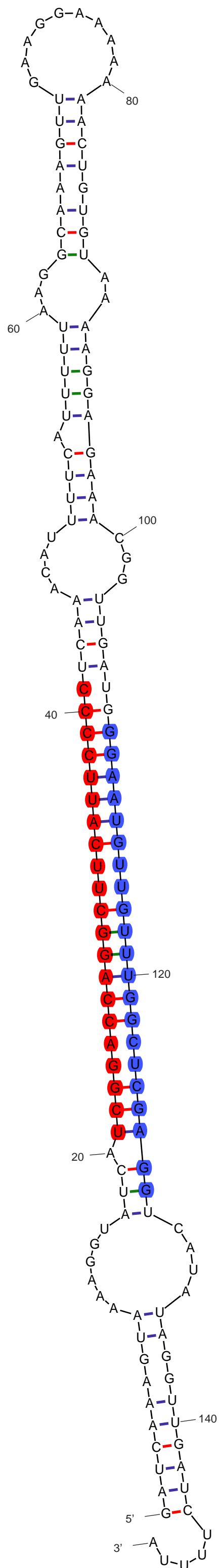
$dG = -69.50$ [Initially -69.50] 32-MIR166



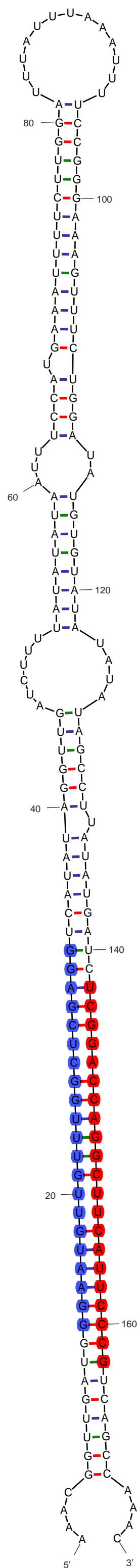
$dG = -59.90$ [Initially -59.90] 33-MIR166



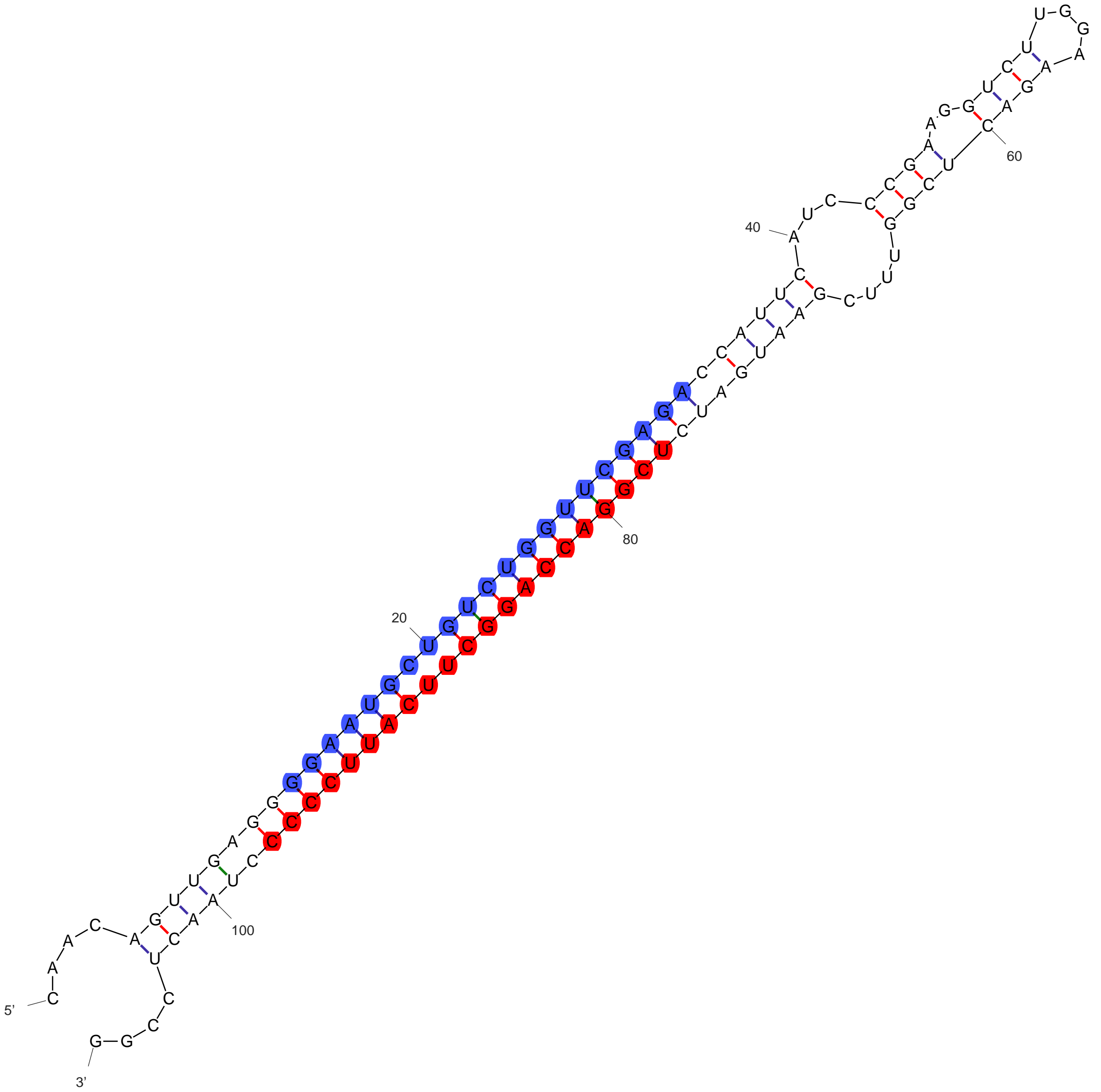
dG = -52.37 [Initially -59.20] 34-MIR166



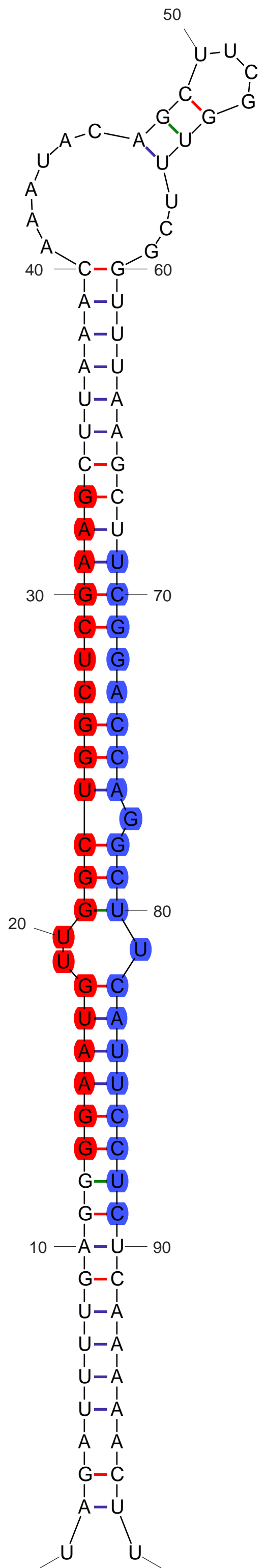
$dG = -42.20$ [Initially -42.20] 35-MIR166



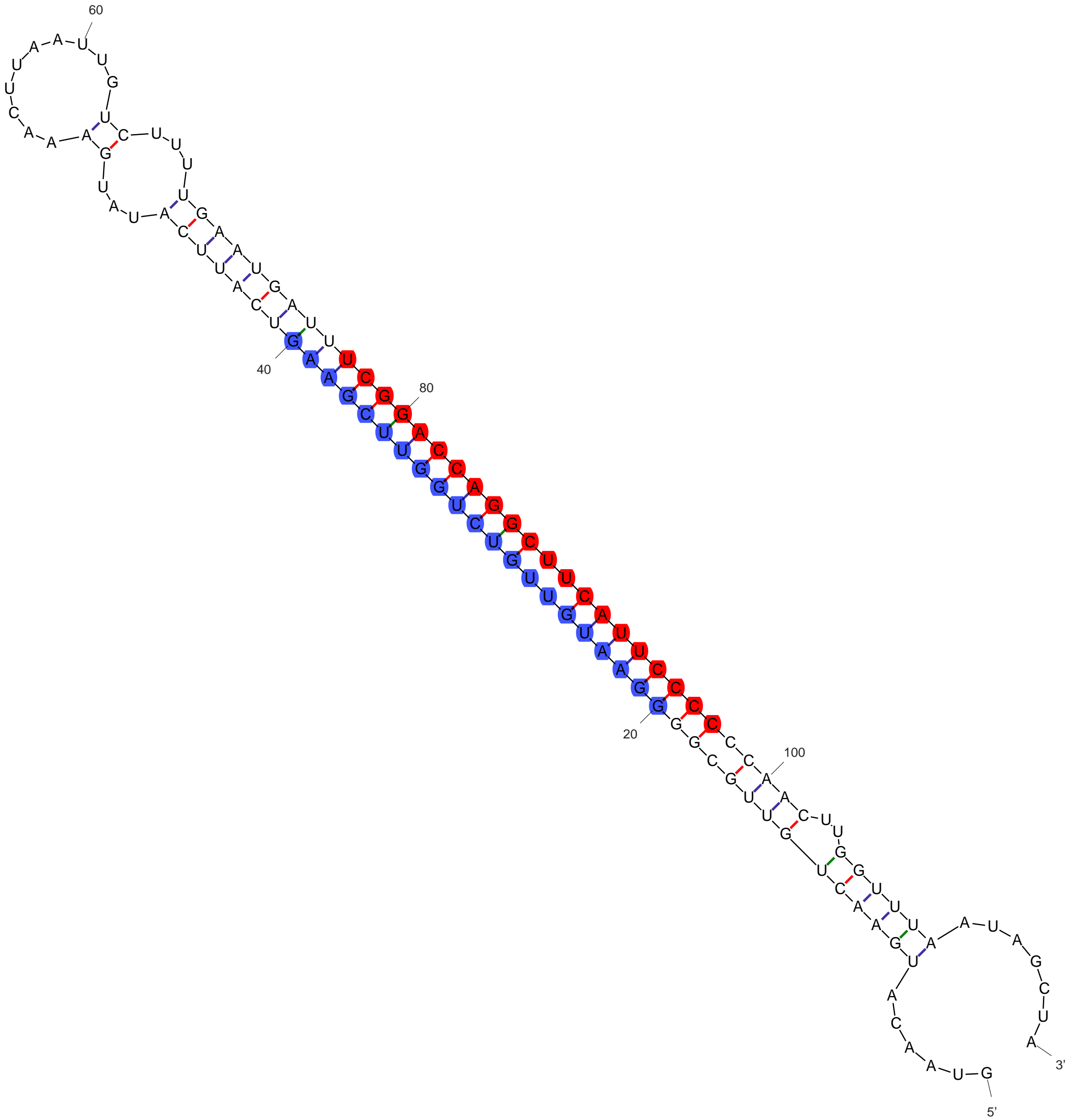
$dG = -85.30$ [Initially -85.30] 36-MIR166-[tcc-MIR166b MI0017468]



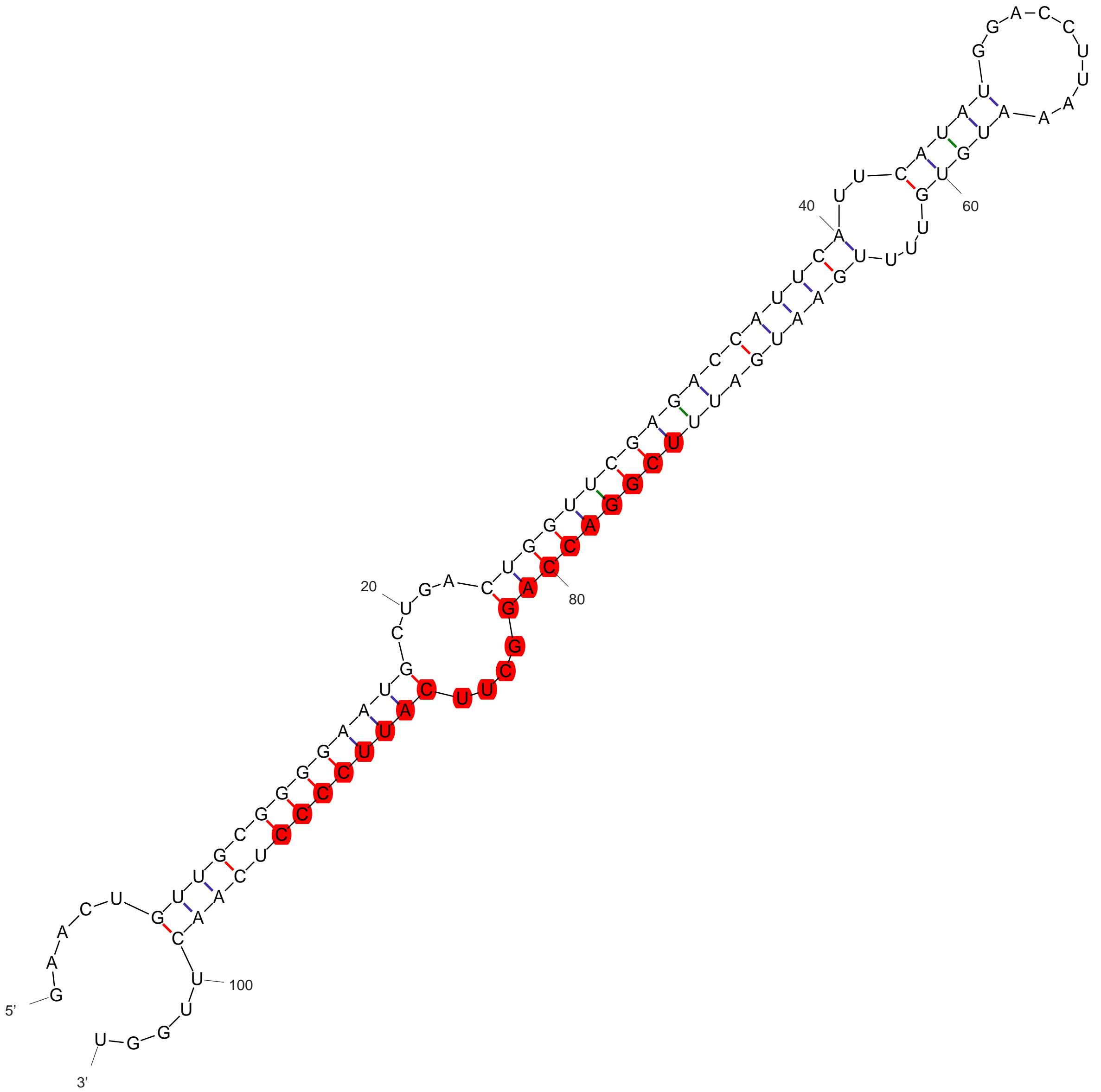
$dG = -55.80$ [Initially -55.80] 37-MIR166



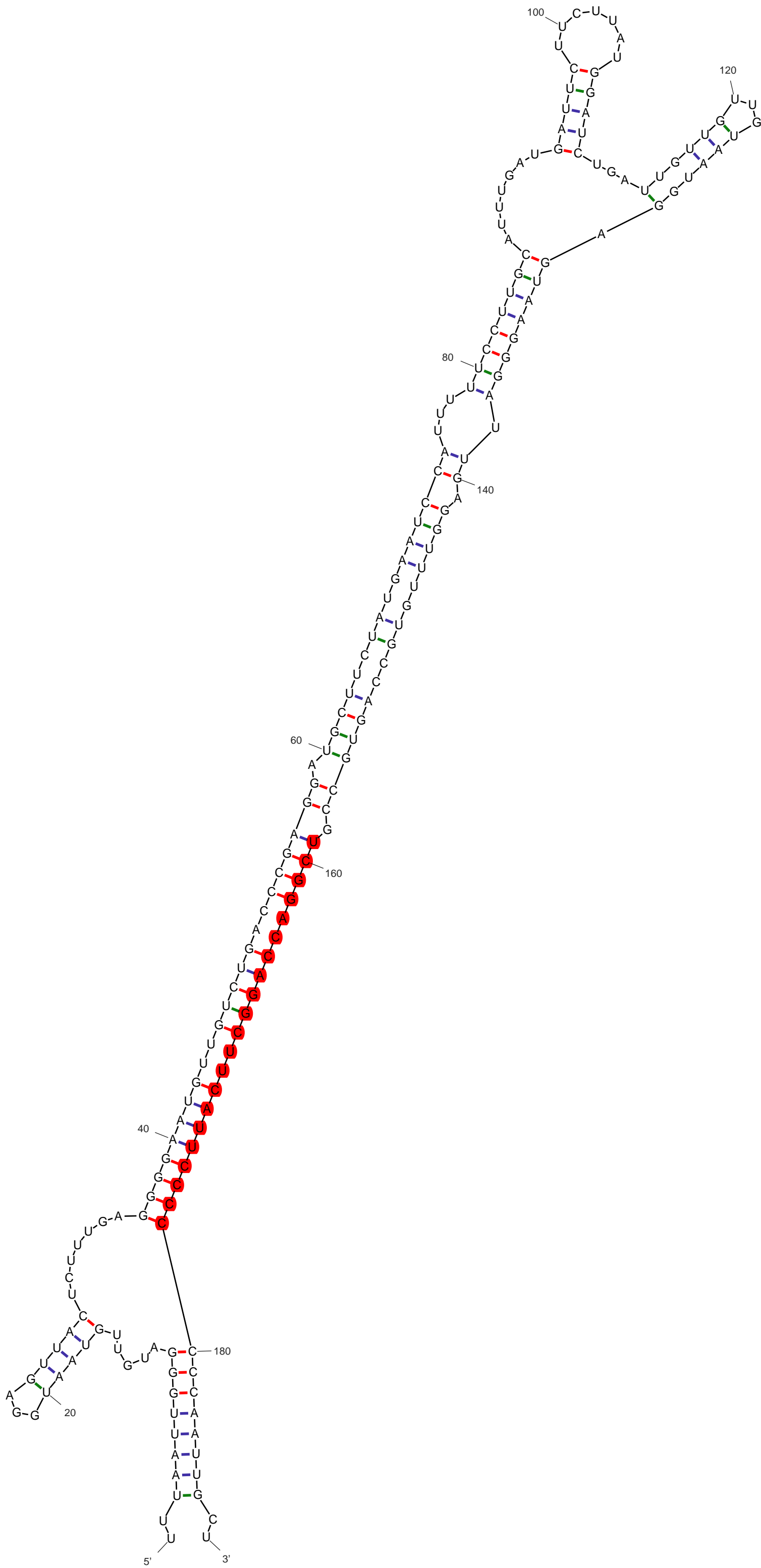
dG = -50.50 [Initially -50.50] 38-MIR166



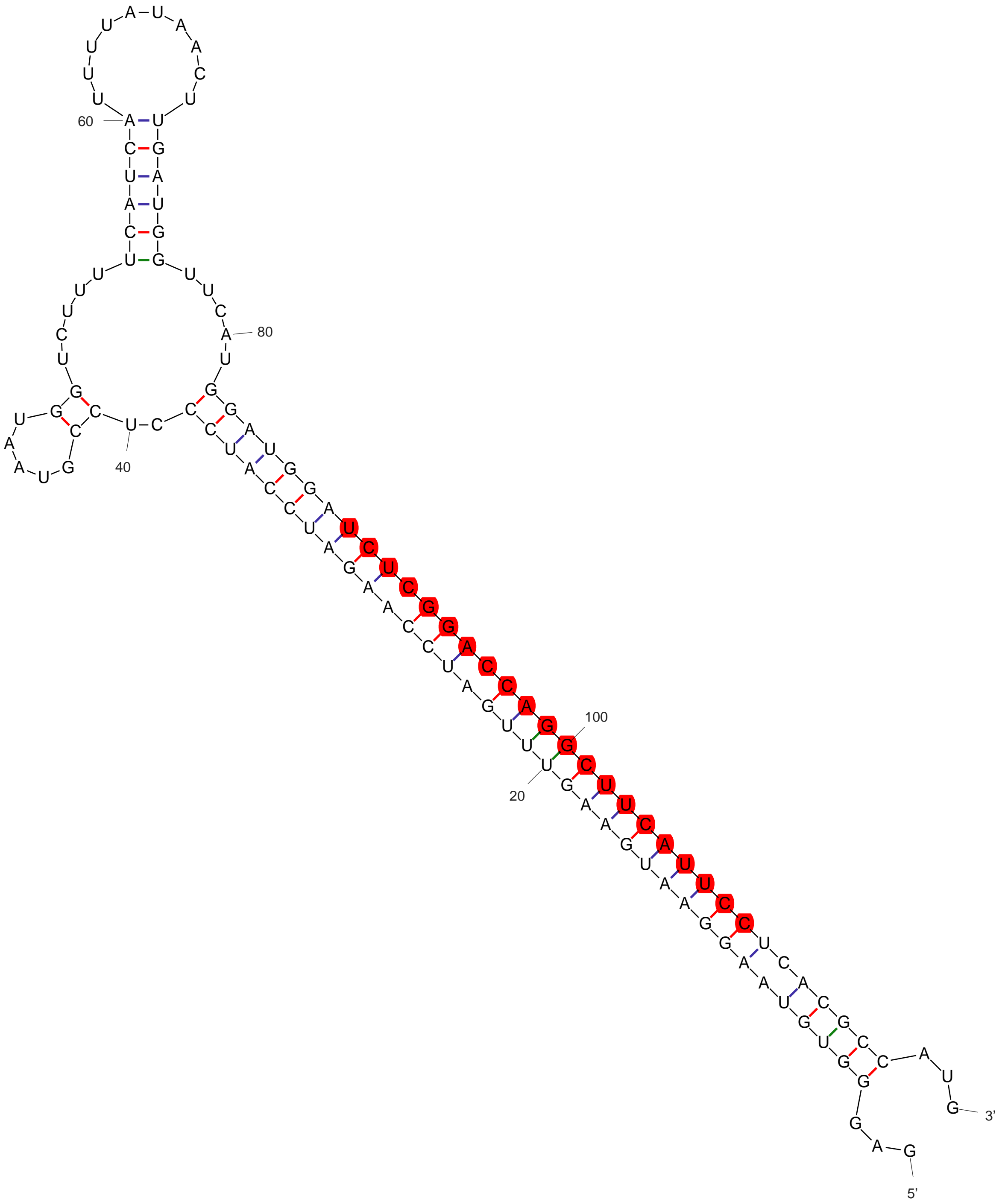
$dG = -55.40$ [Initially -55.40] 39-MIR166-[tcc-MIR166a MI0017467]



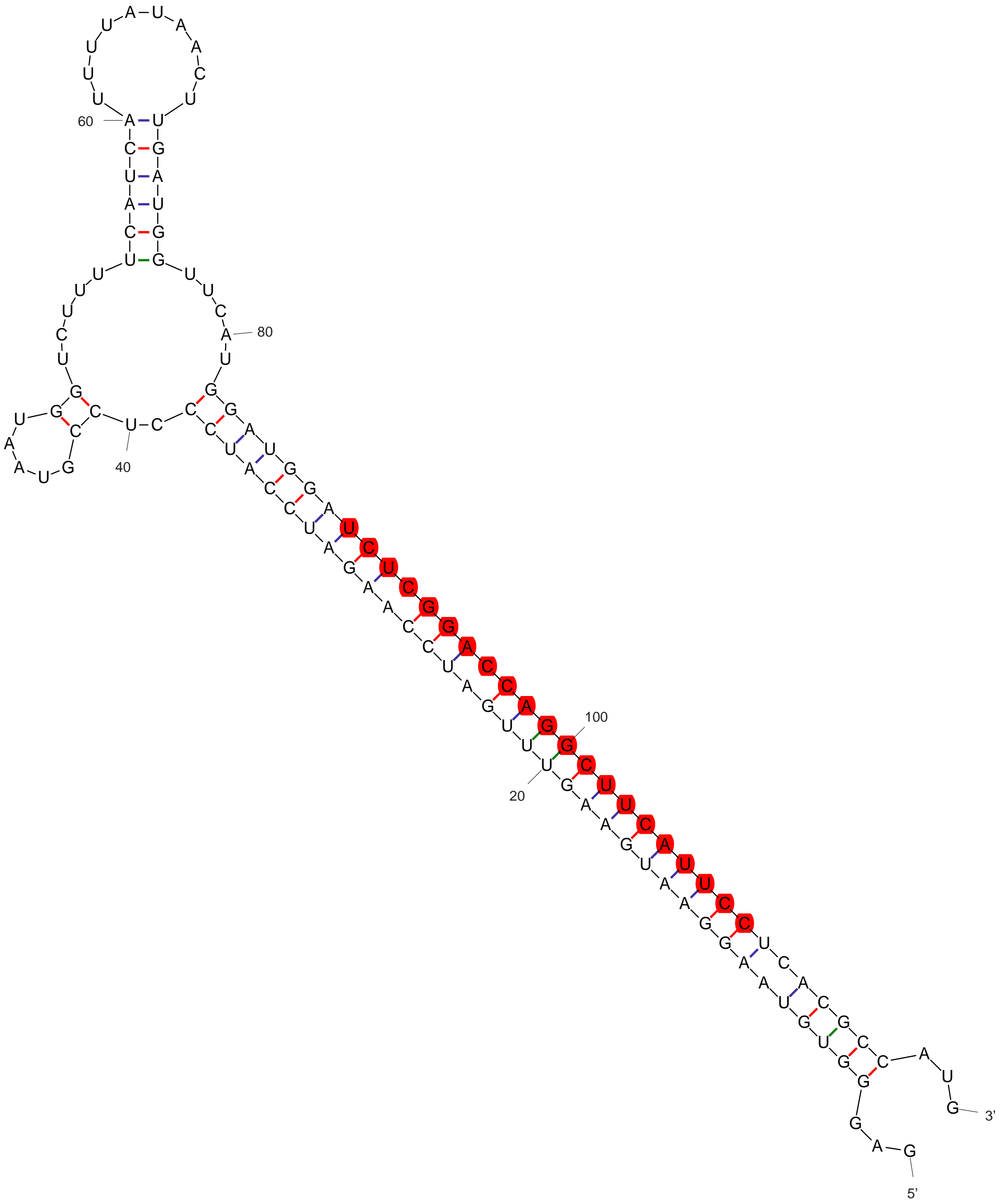
$dG = -47.30$ [Initially -47.30] 40-MIR166



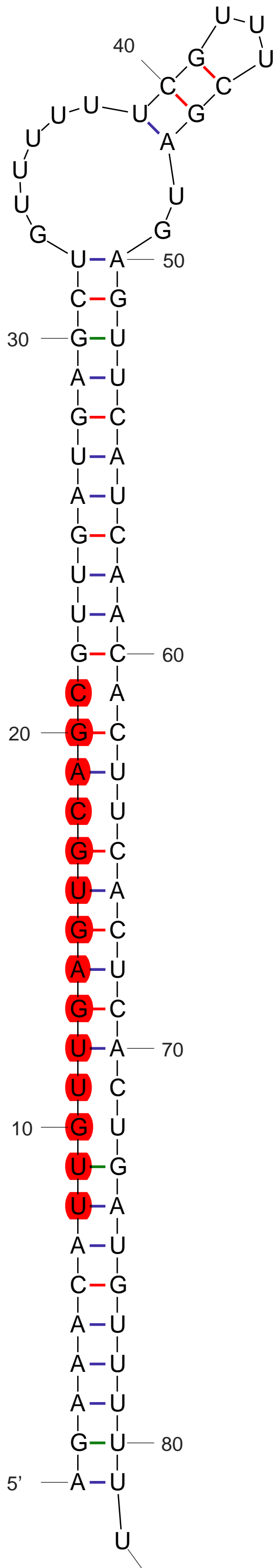
$dG = -55.77$ [Initially -60.50] 41-MIR166



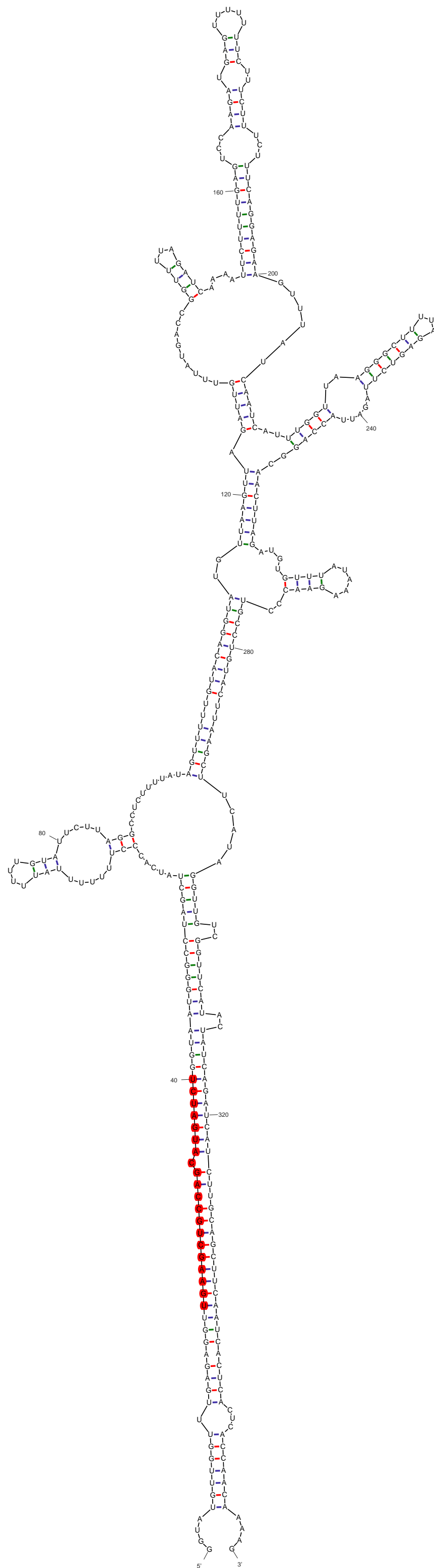
$dG = -52.34$ [Initially -55.90] 43-MIR166



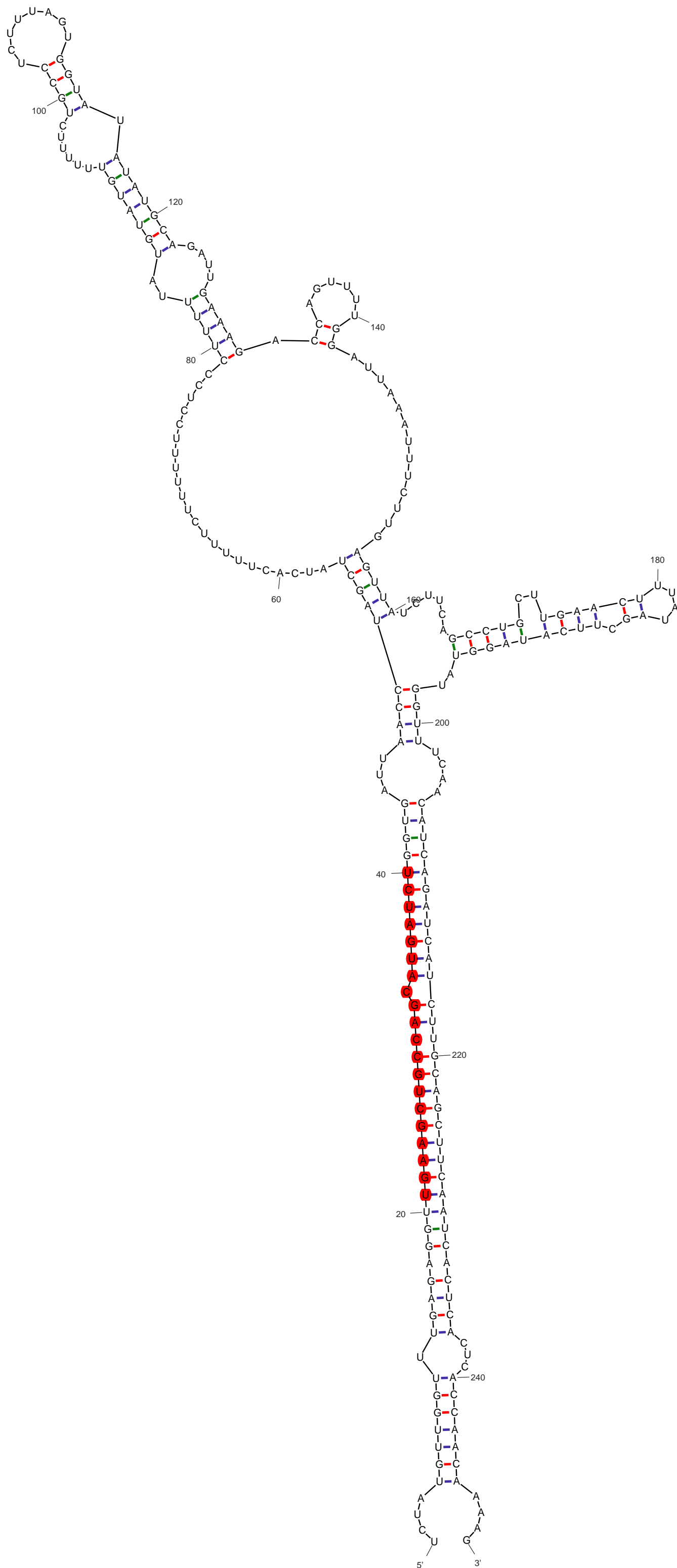
dG = -52.34 [Initially -55.90] 44-MIR166



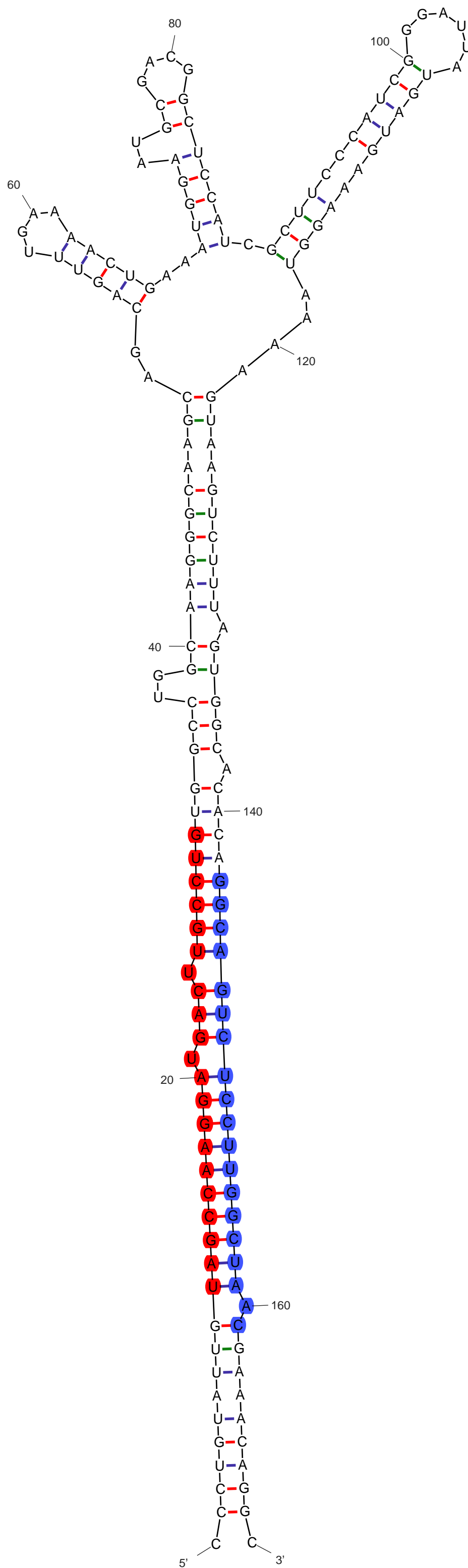
dG = -32.90 [Initially -32.90] 45-MIR397



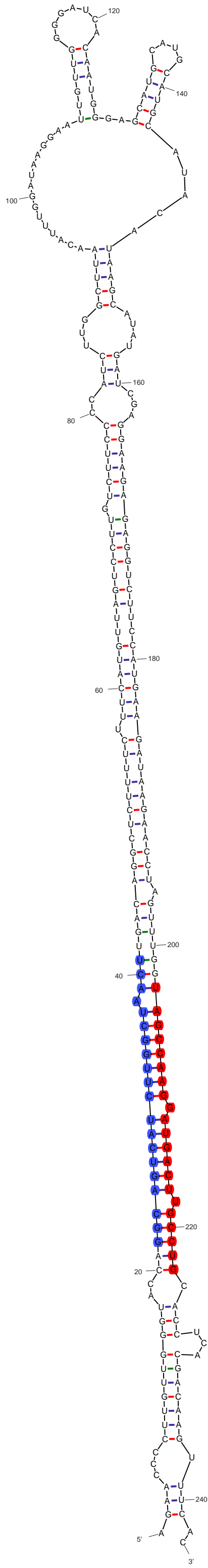
$dG = -96.79$ [Initially -110.00] 49-MIR167_1



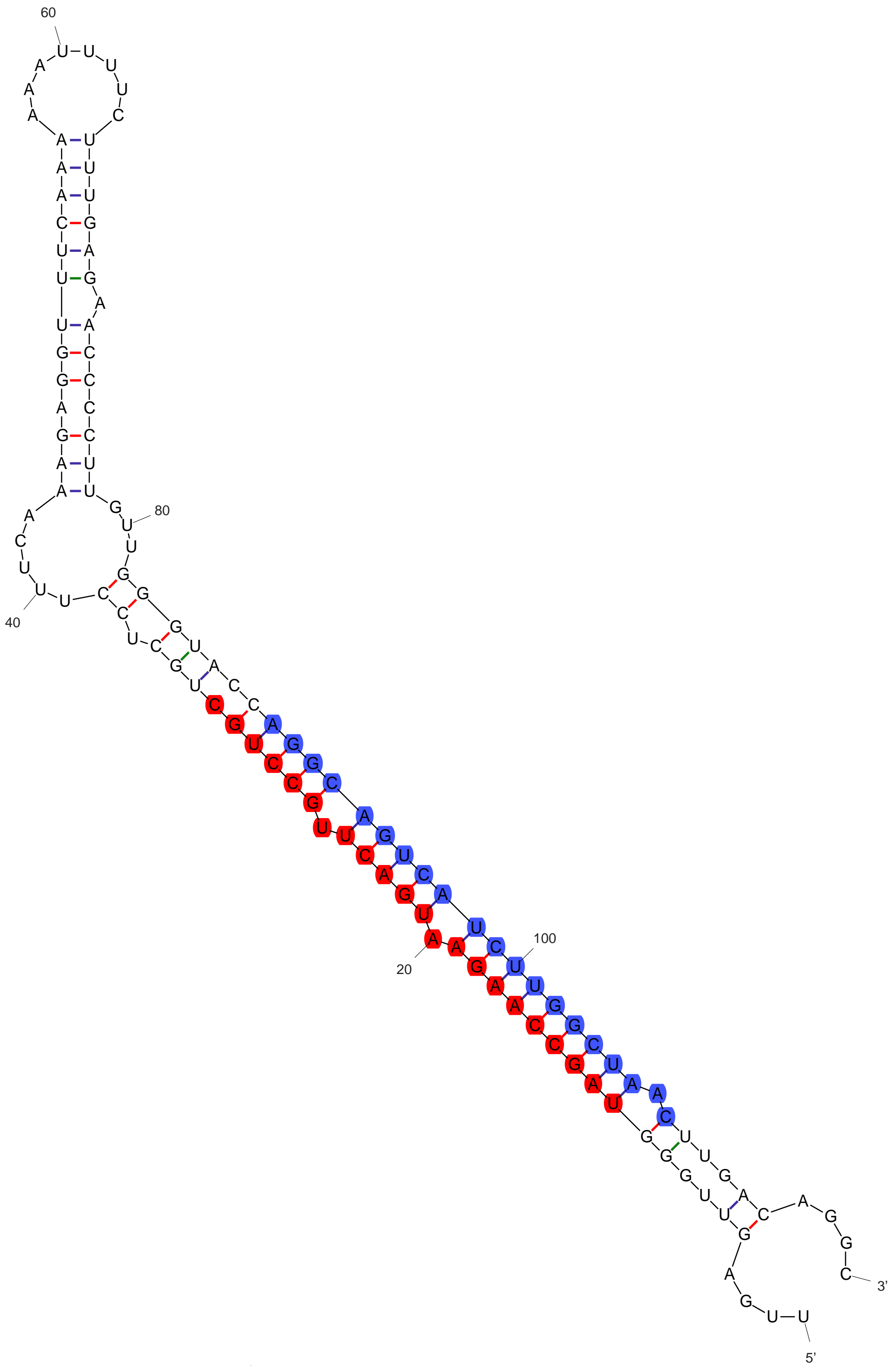
dG = -69.31 [Initially -75.10] 51-MIR167_1



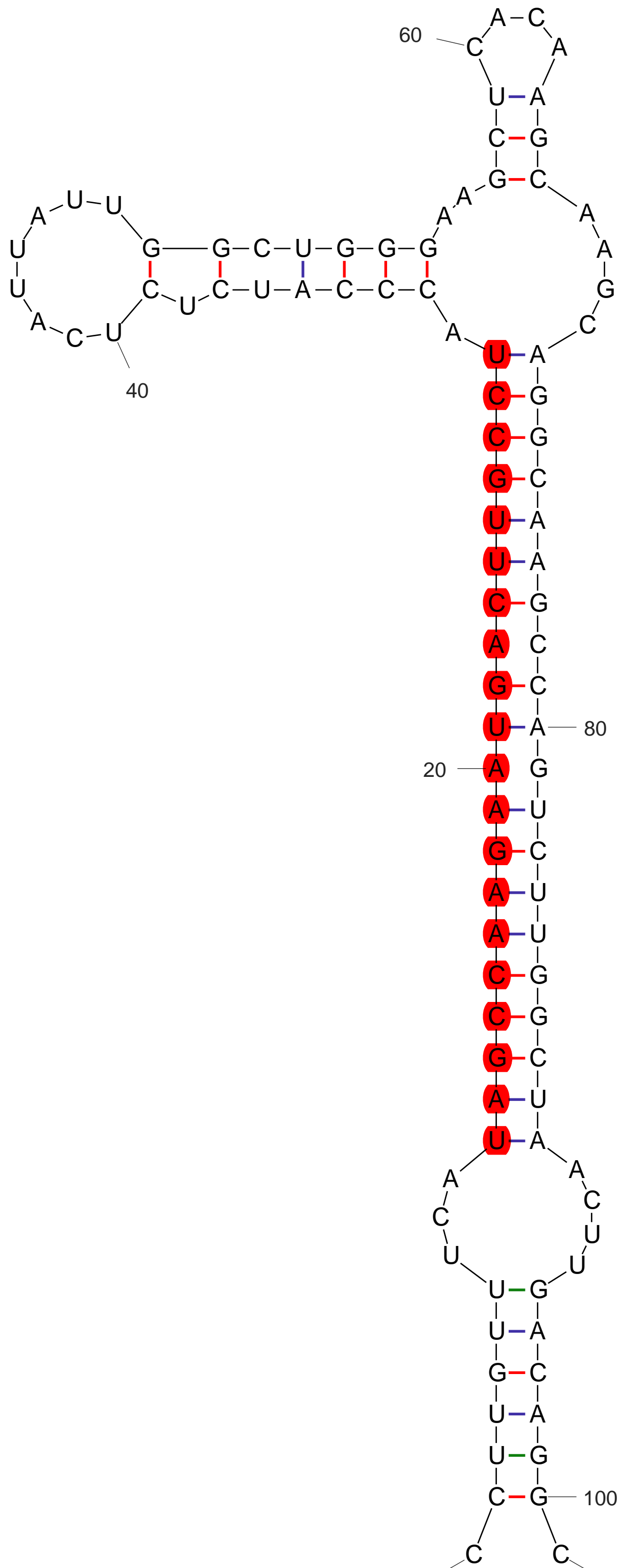
$dG = -71.95$ [Initially -72.80] 52-MIR169_1



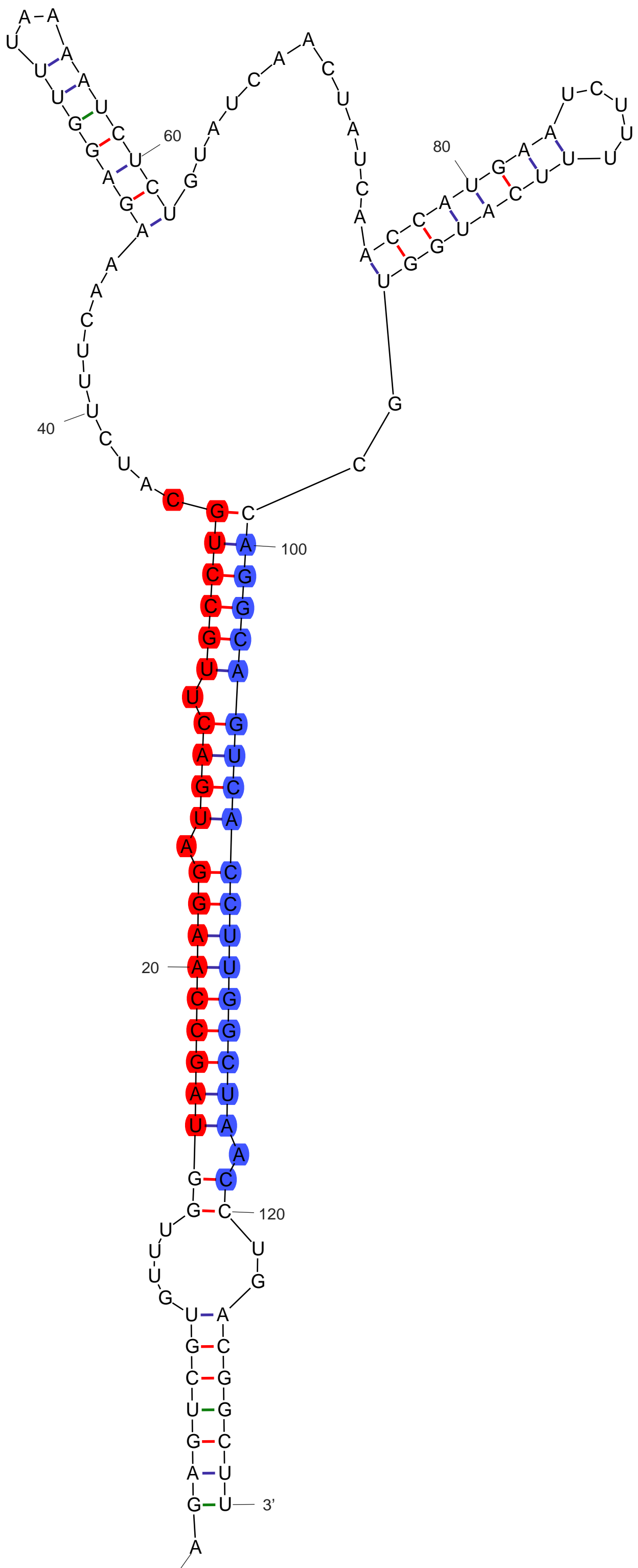
$dG = -88.22$ [Initially -92.80] 53_MIR169_1



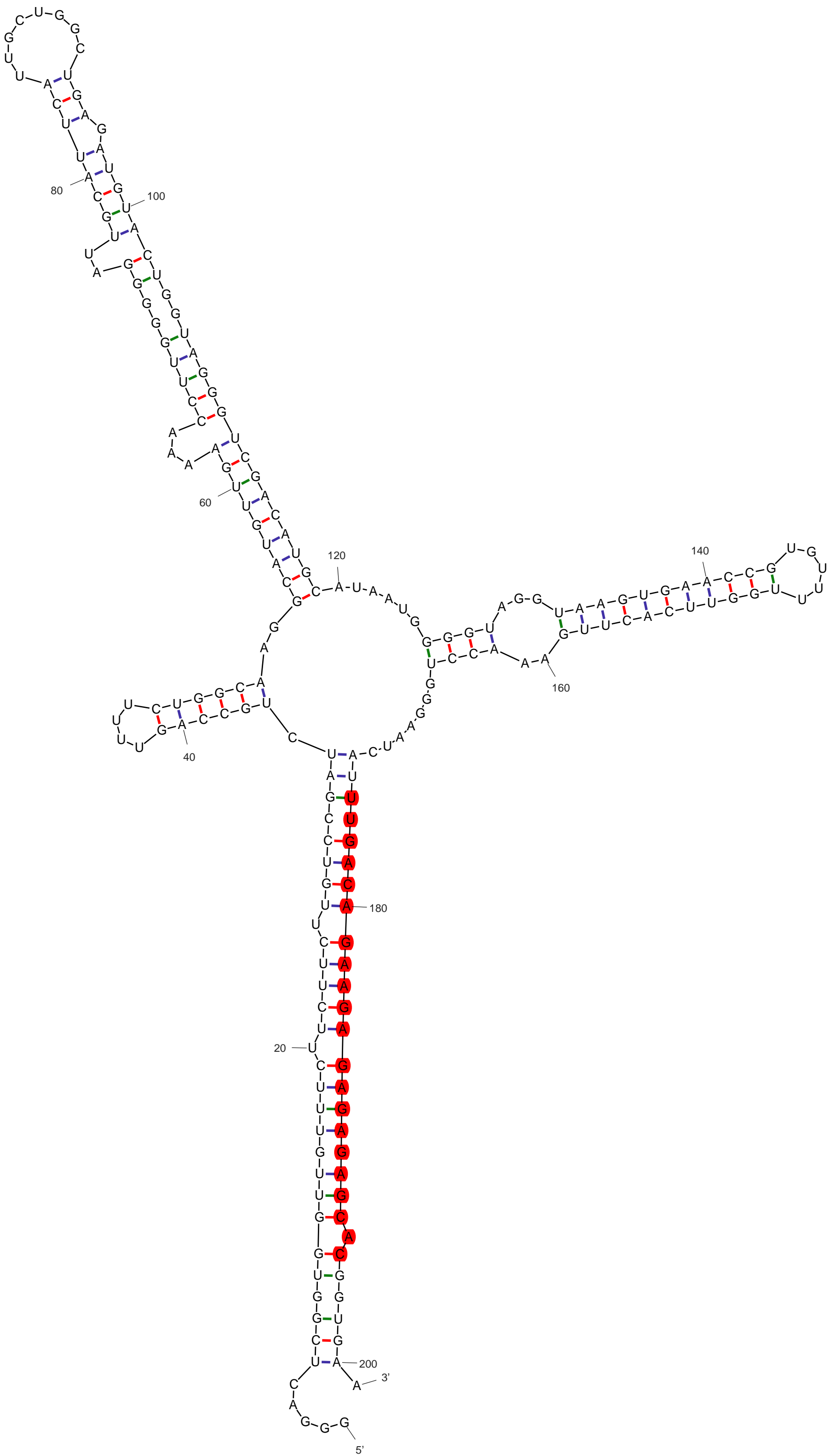
$dG = -50.90$ [Initially -50.90] 54-MIR169_1



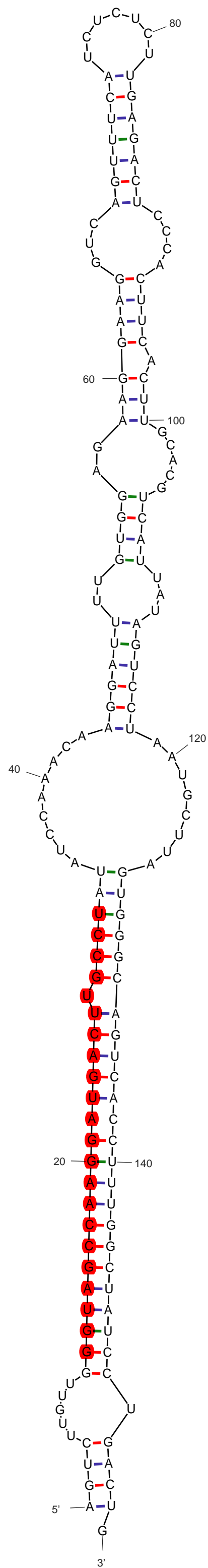
$dG = -36.73$ [Initially -39.60] 57-MIR169_1



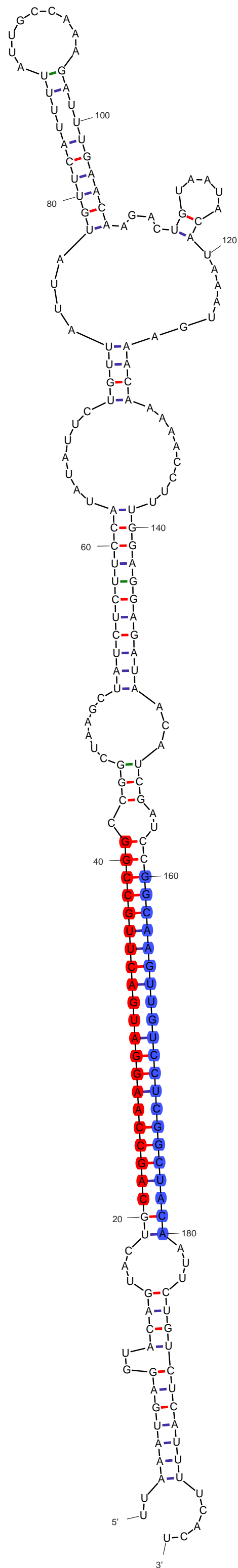
5' dG = -52.13 [Initially -56.30] 59-MIR169_1



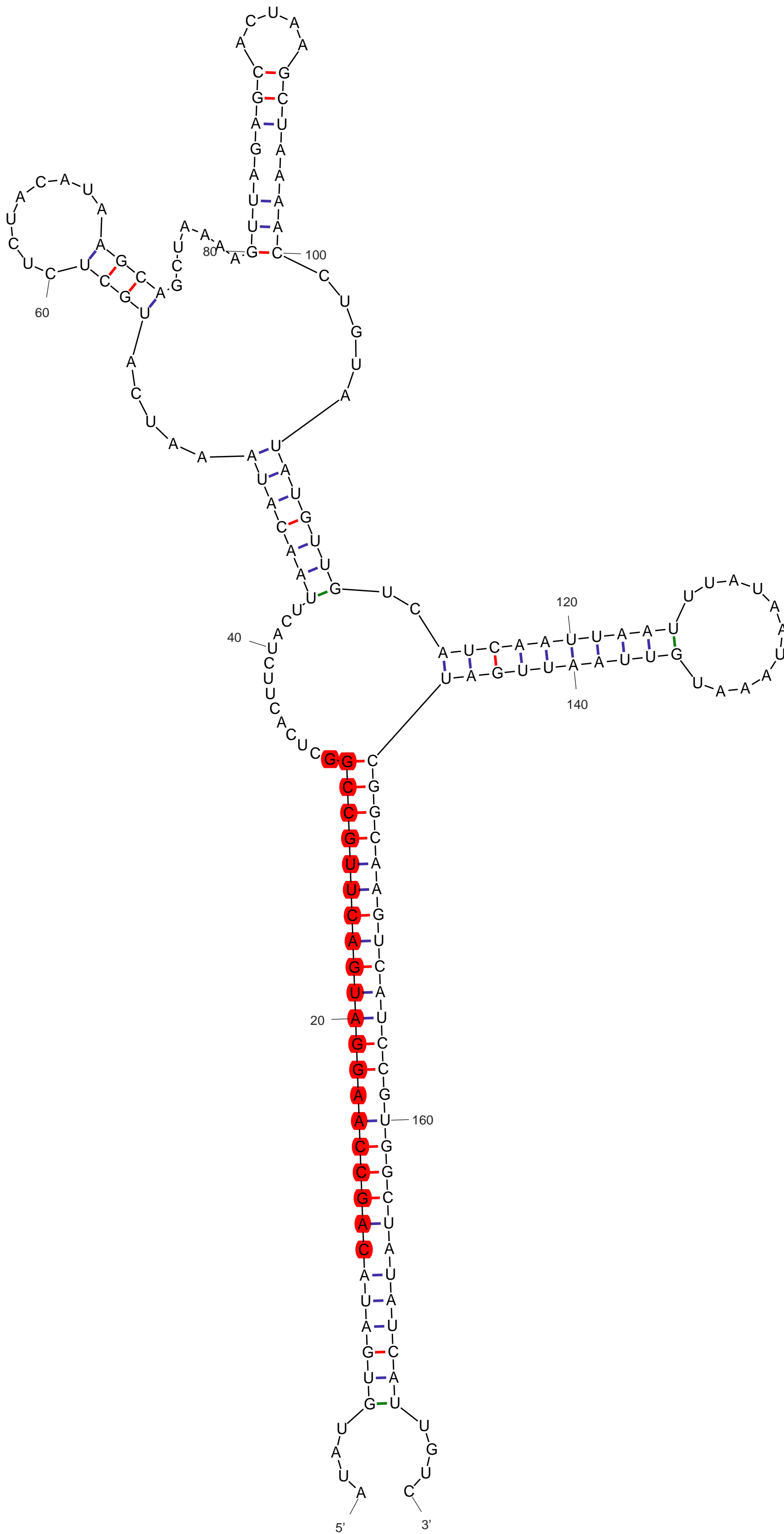
dG = -69.62 [Initially -70.80] 5-MIR156



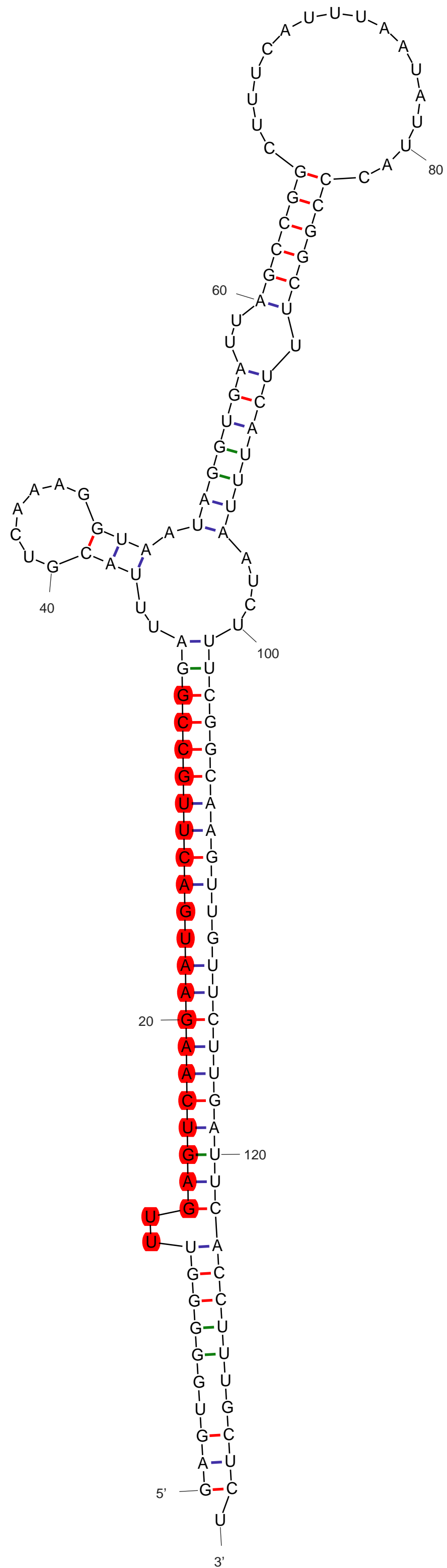
$dG = -57.10$ [Initially -57.10] 62-MIR169_2



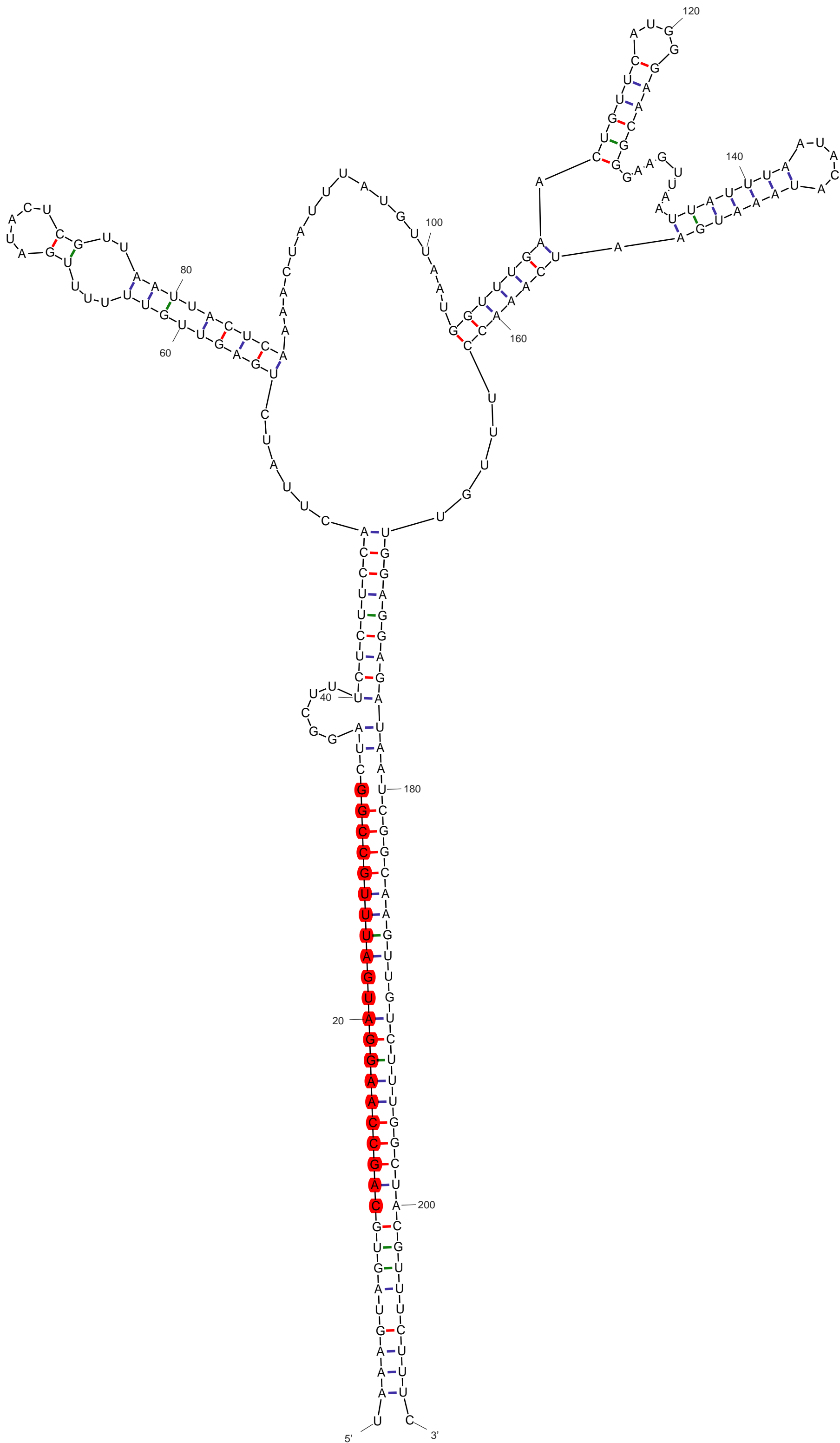
$dG = -62.39$ [Initially -65.90] 63-MIR169_2



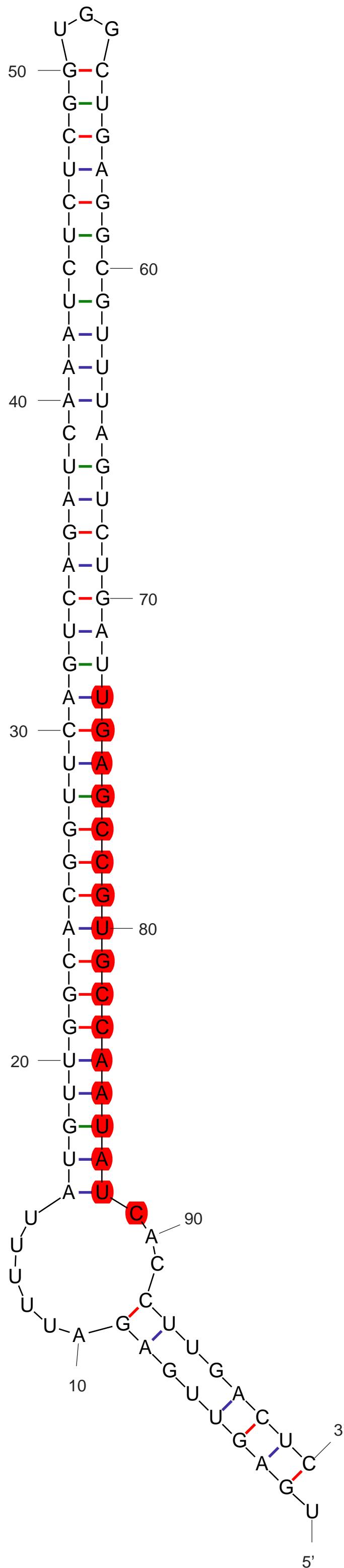
$dG = -50.34$ [Initially -57.40] 65-MIR169_2



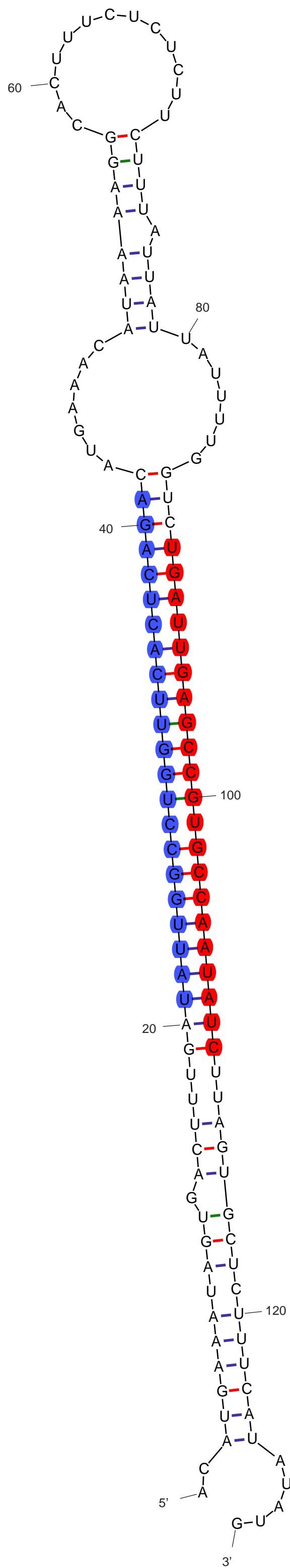
$dG = -58.83$ [Initially -60.70] 66-MIR169_2



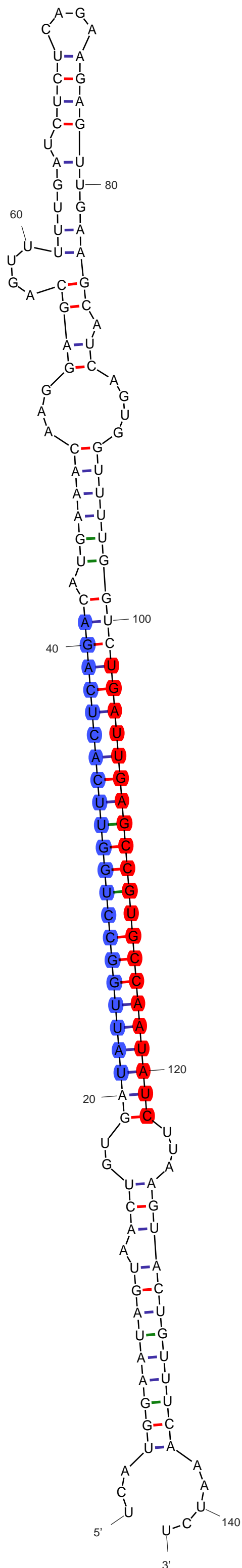
$dG = -61.85$ [Initially -67.80] 67-MIR169_2



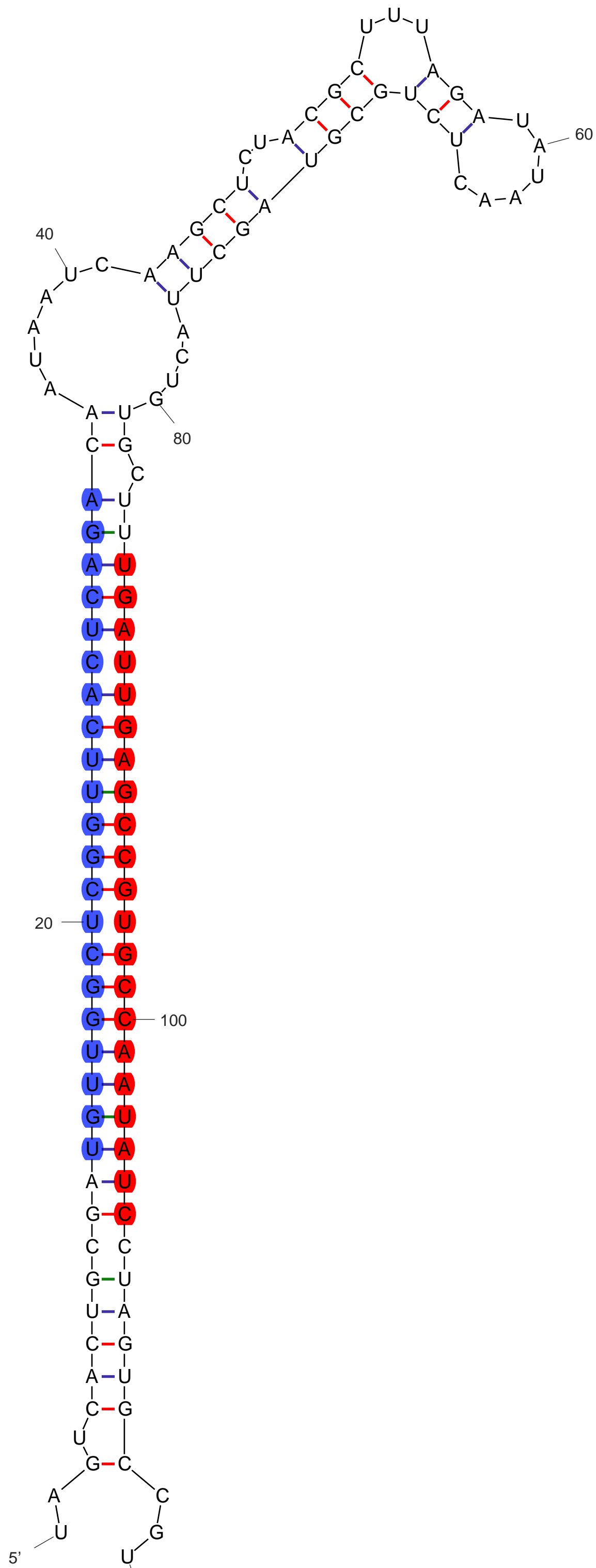
dG = -53.90 [Initially -53.90] 68-MIR171_1-[fcc-MIR171g MI0017495]



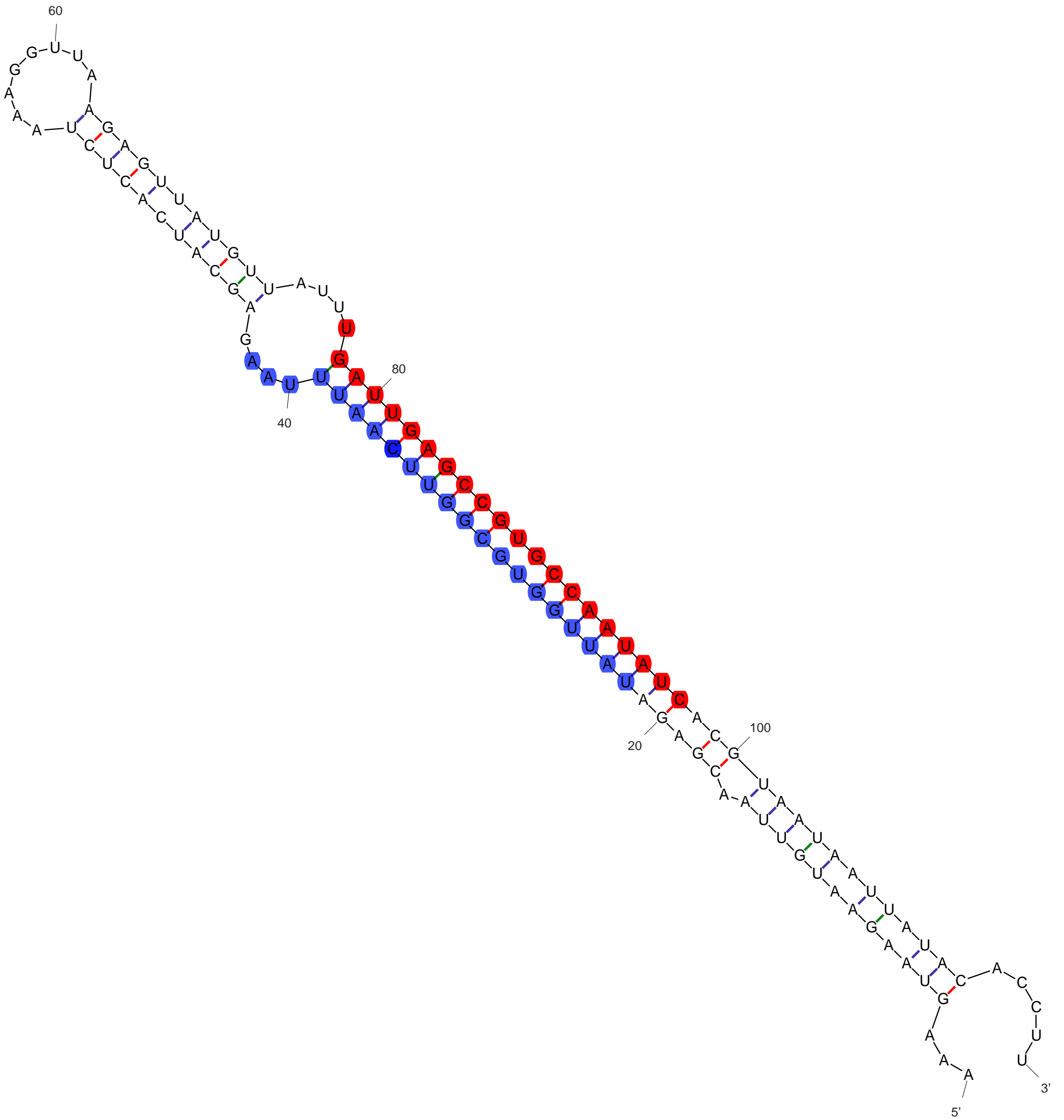
$dG = -43.50$ [Initially -43.50] 69-MIR171_1



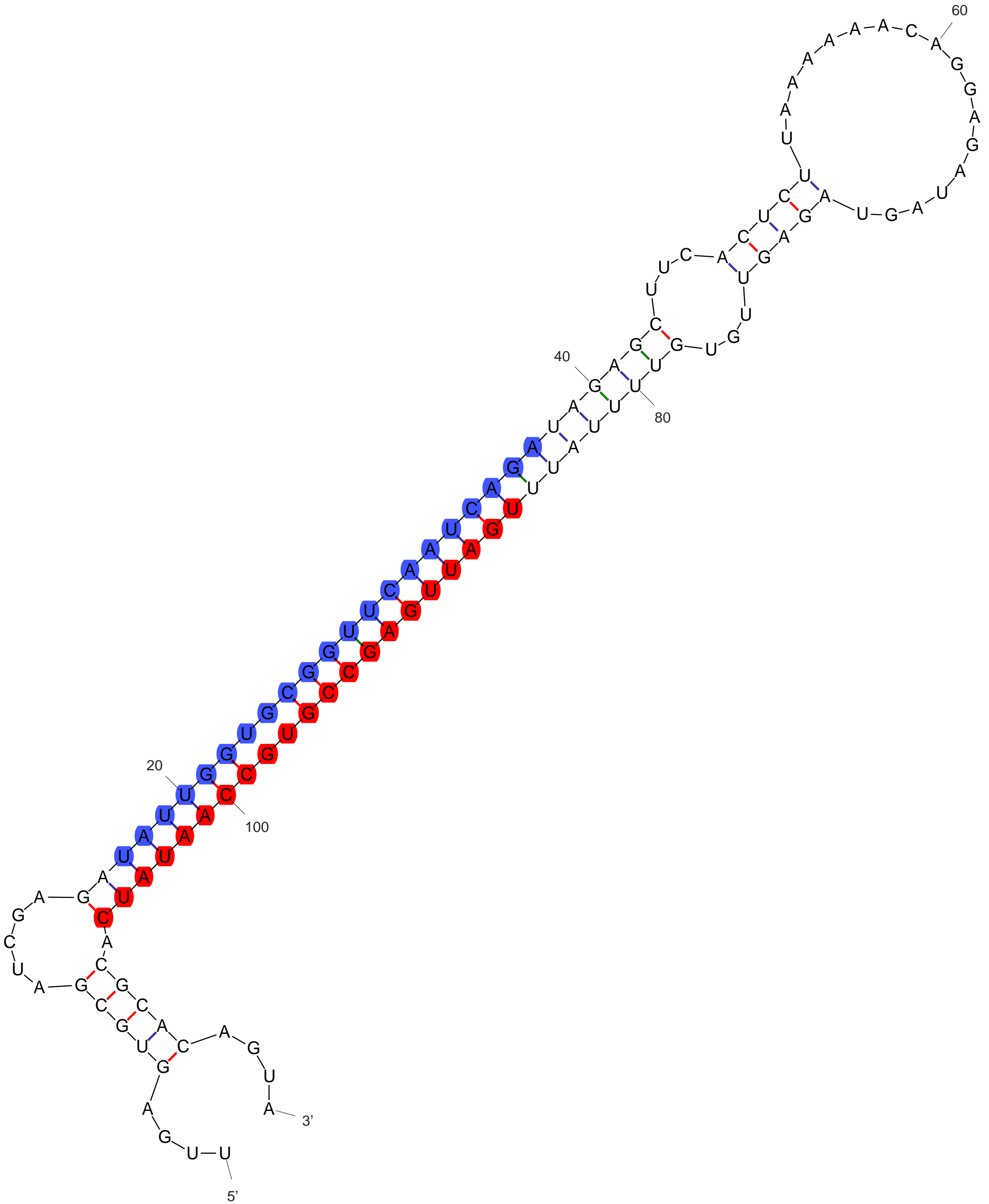
$dG = -56.20$ [Initially -56.20] 71-MIR171_1



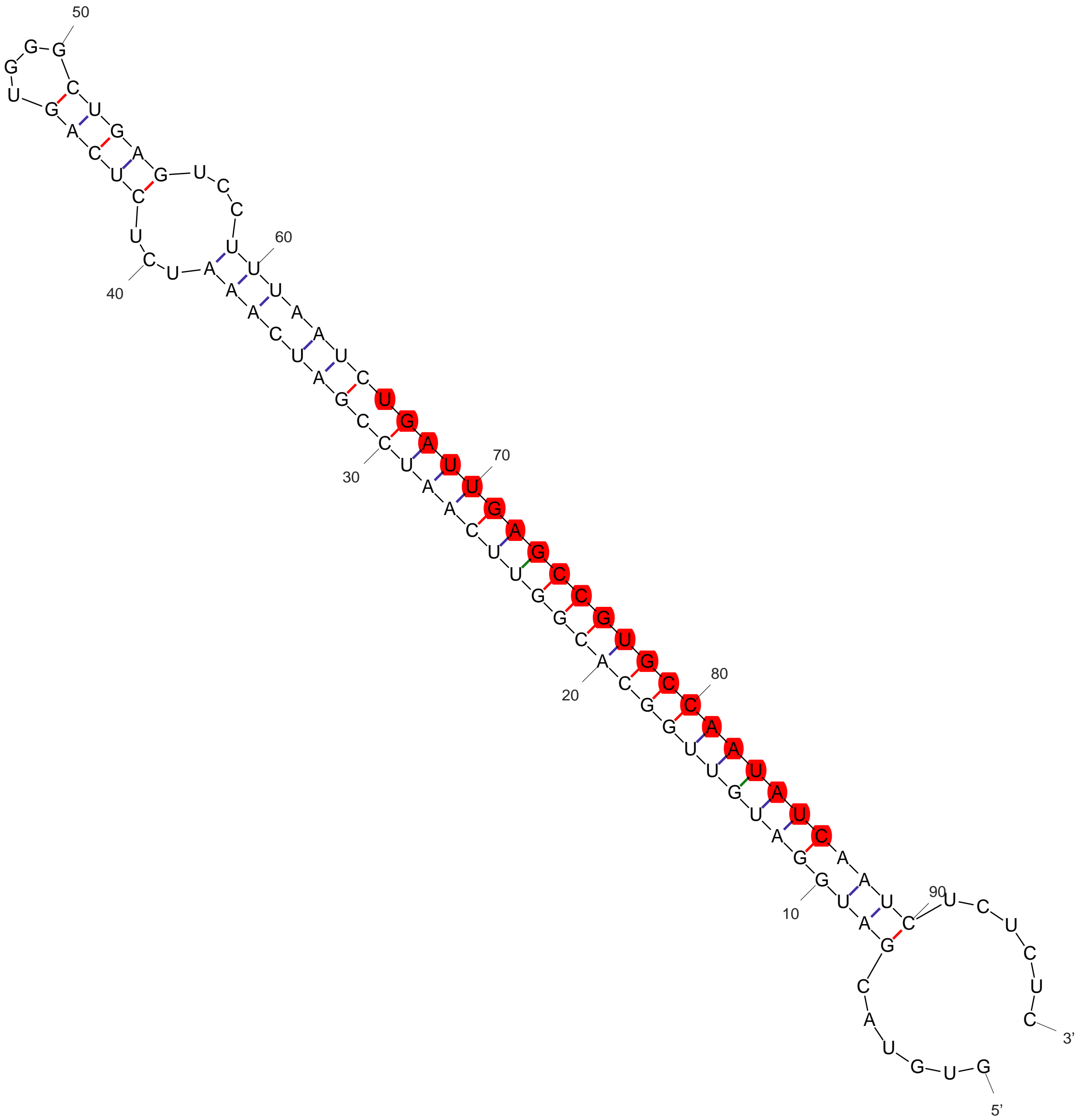
dG = -45.90 [Initially -45.90] 72-MIR171_1



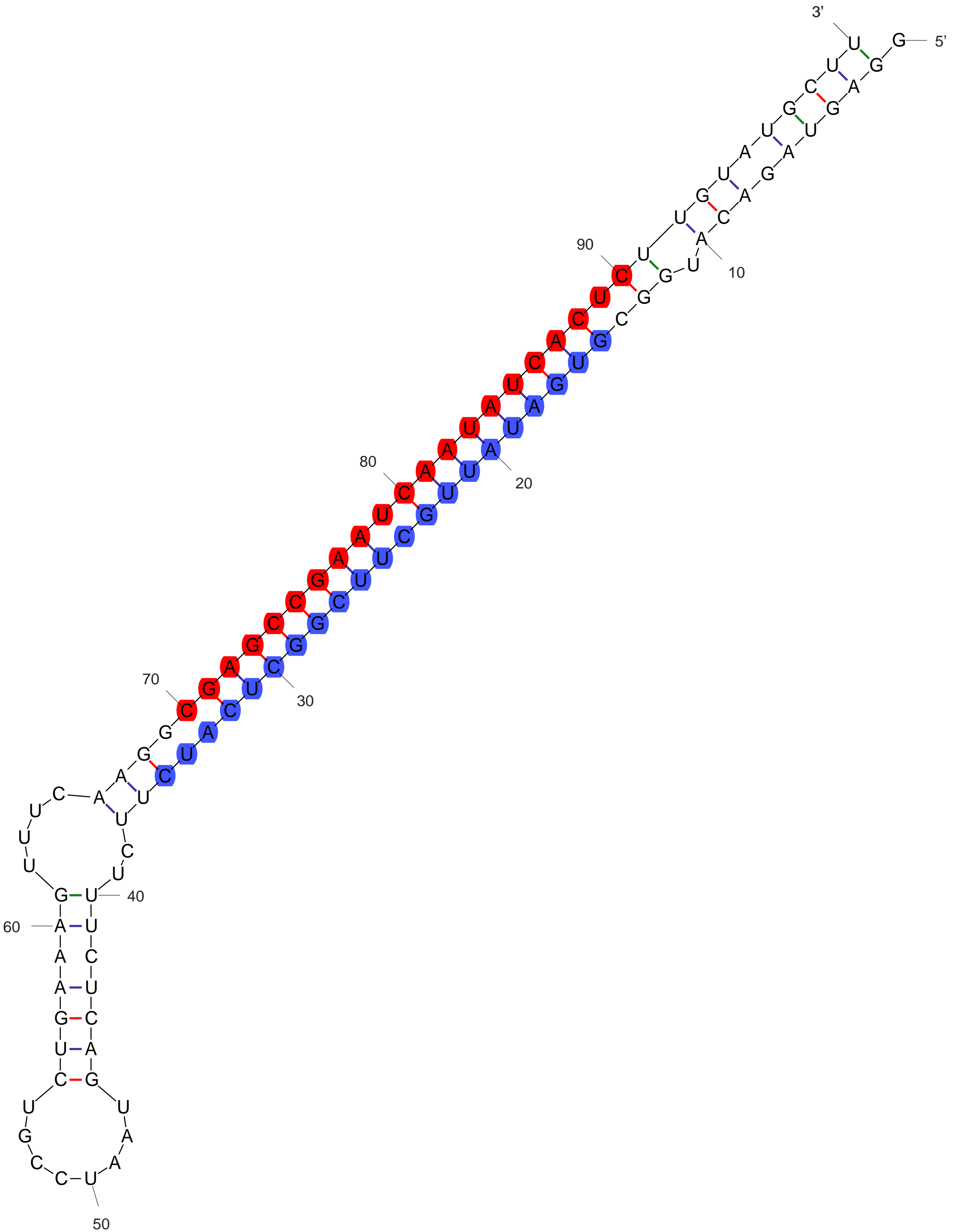
$dG = -48.40$ [Initially -48.40] 73_MIR171_1-[tcc-MIR171d MI0017492]



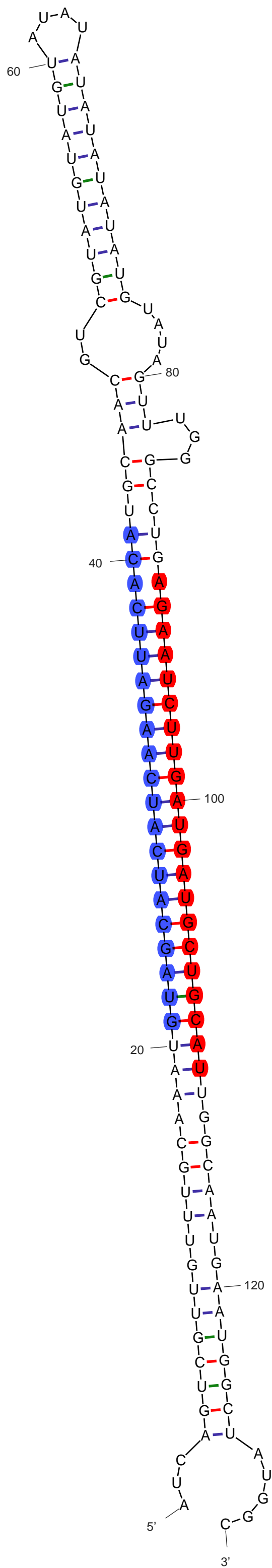
$dG = -54.70$ [Initially -54.70] 74_MIR171_1



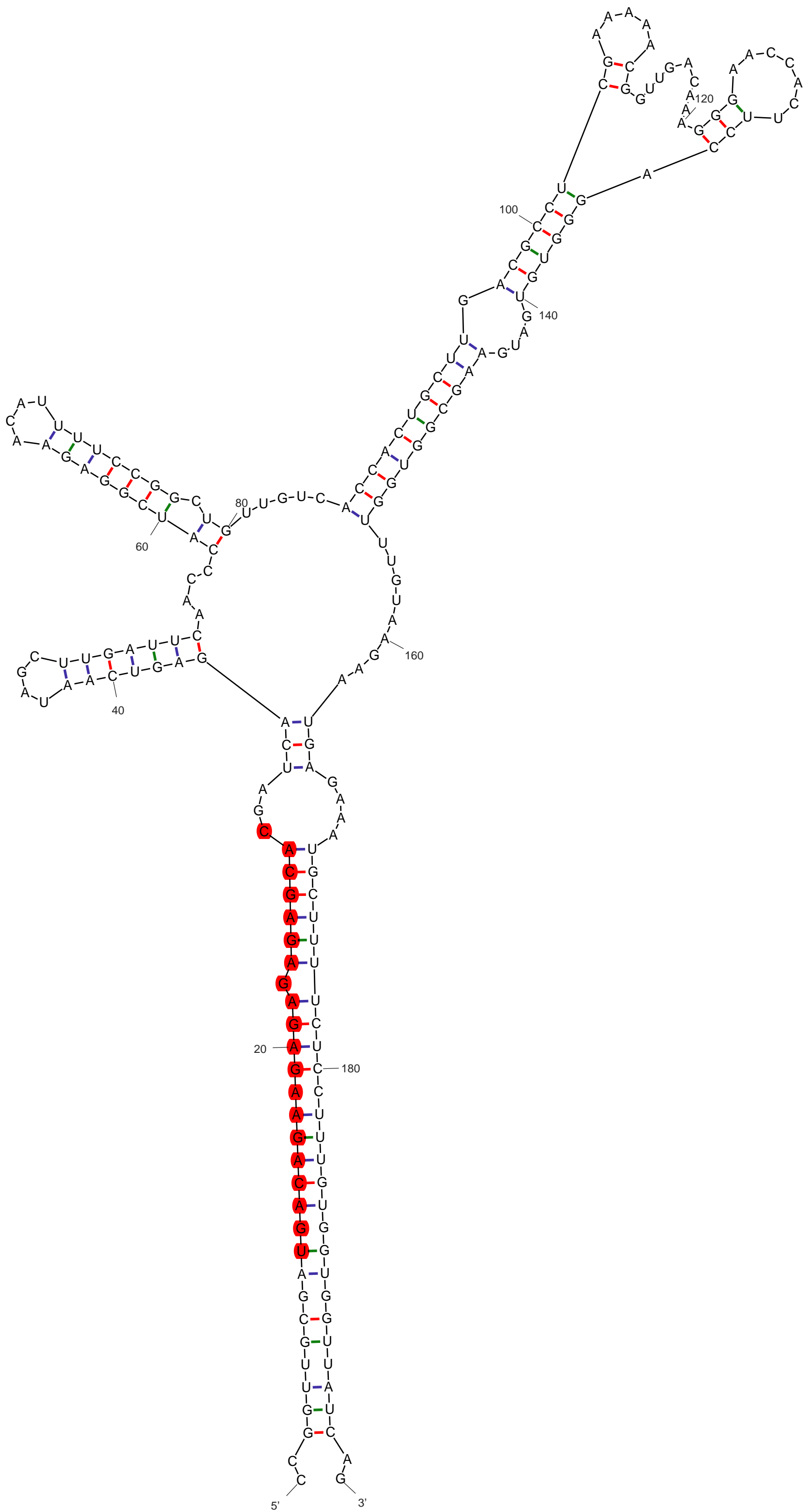
dG = -48.00 [Initially -48.00] 75-MIR171-1-[tcc-MIR171g MI0017495]



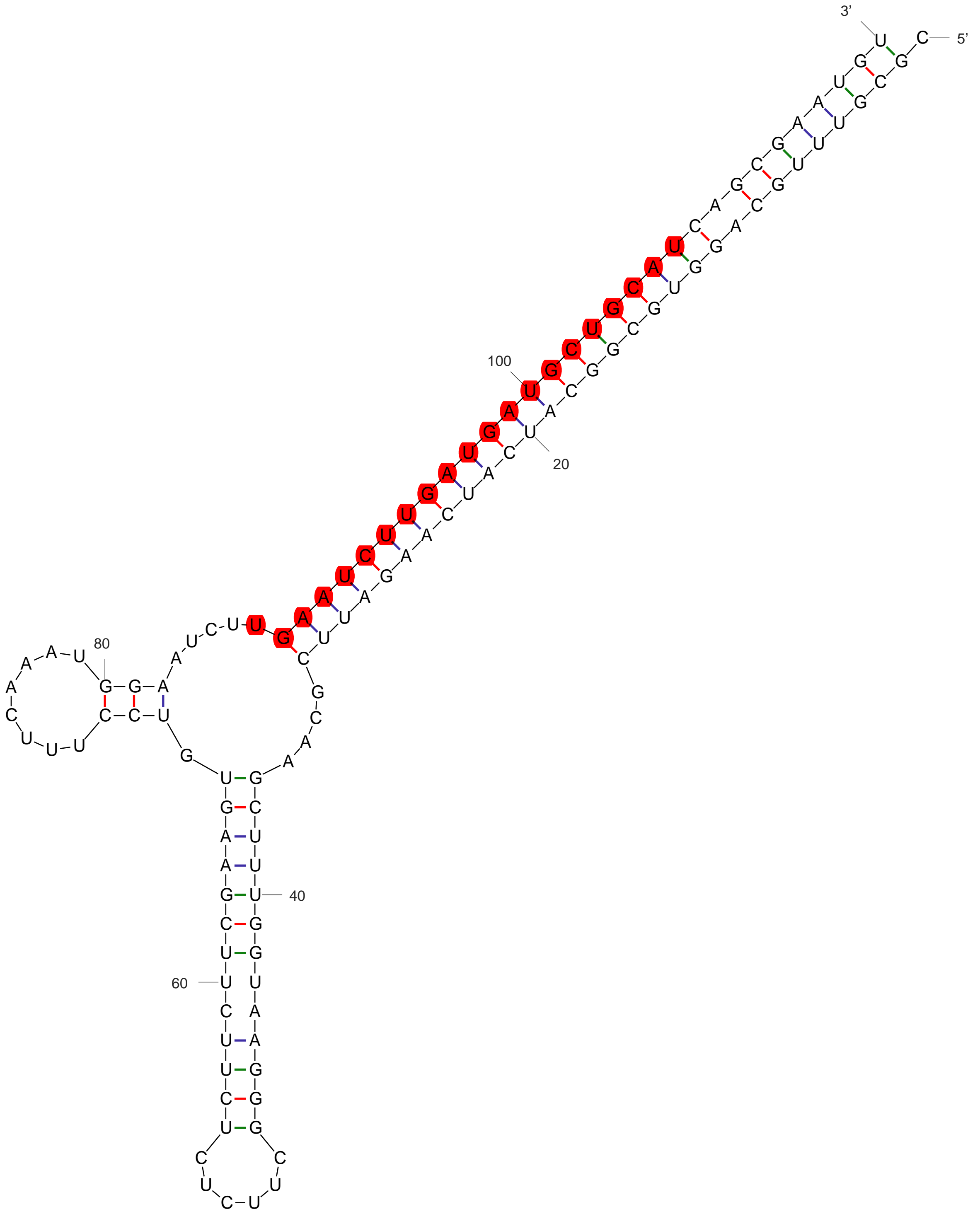
$dG = -38.60$ [Initially -38.60] 77-MIR171_2-[fcc-MIR172e MI0017501]



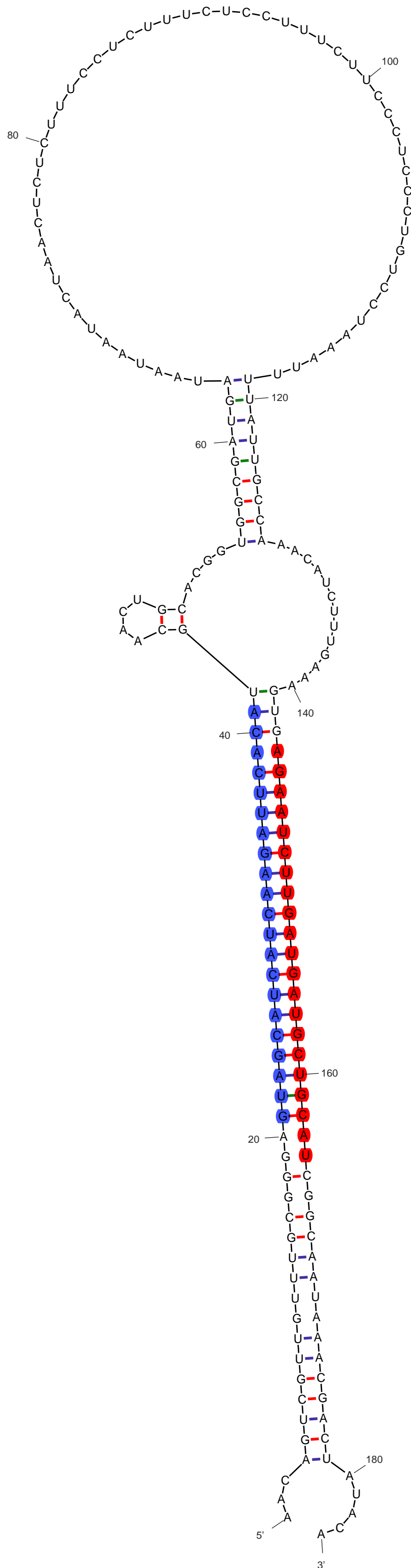
$dG = -59.30$ [Initially -59.30] 79-MIR172



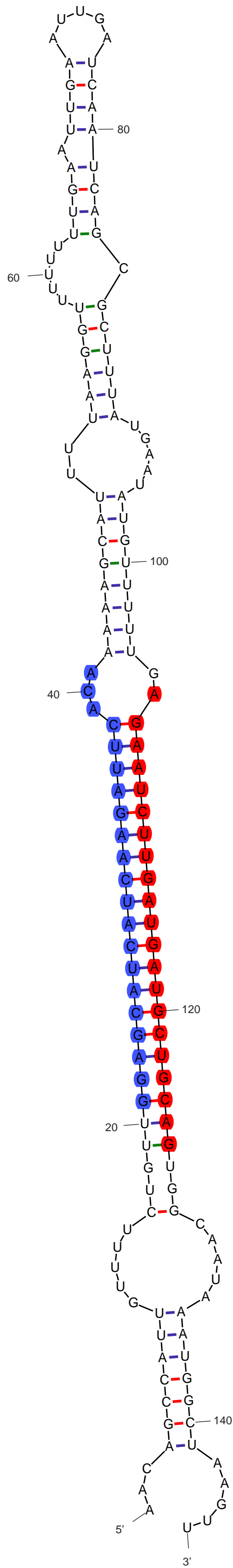
dG = -55.03 [Initially -60.20] 7-MIR156



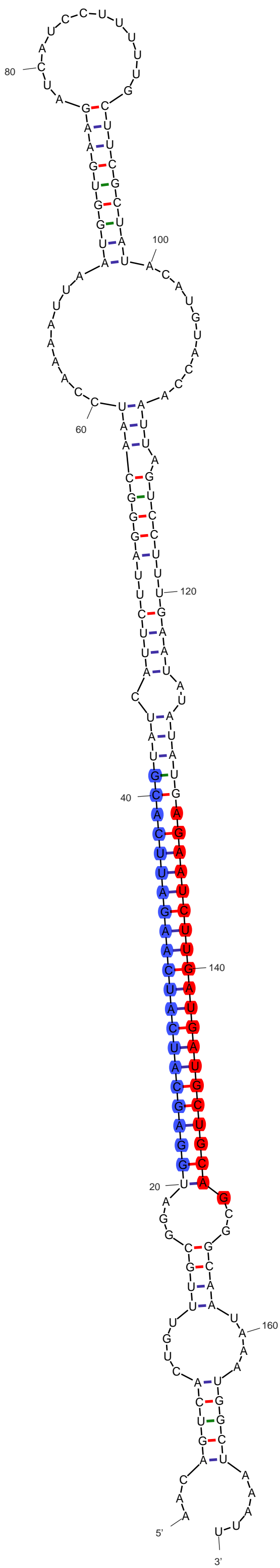
$dG = -57.24$ [Initially -59.10] 80-MIR172



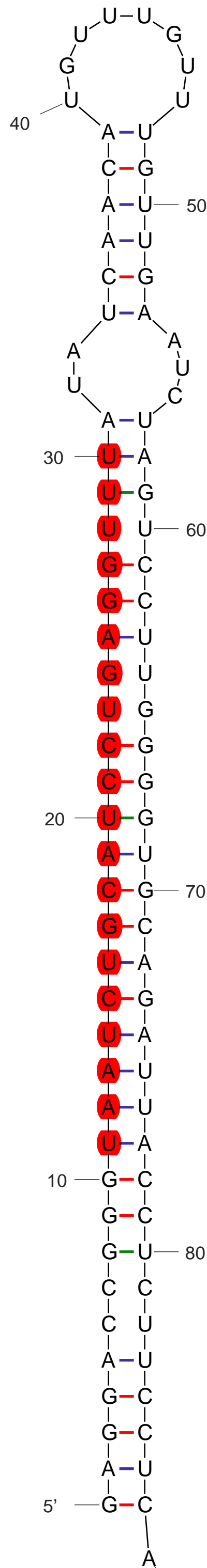
$dG = -54.80$ [Initially -58.45] 81-MIR172



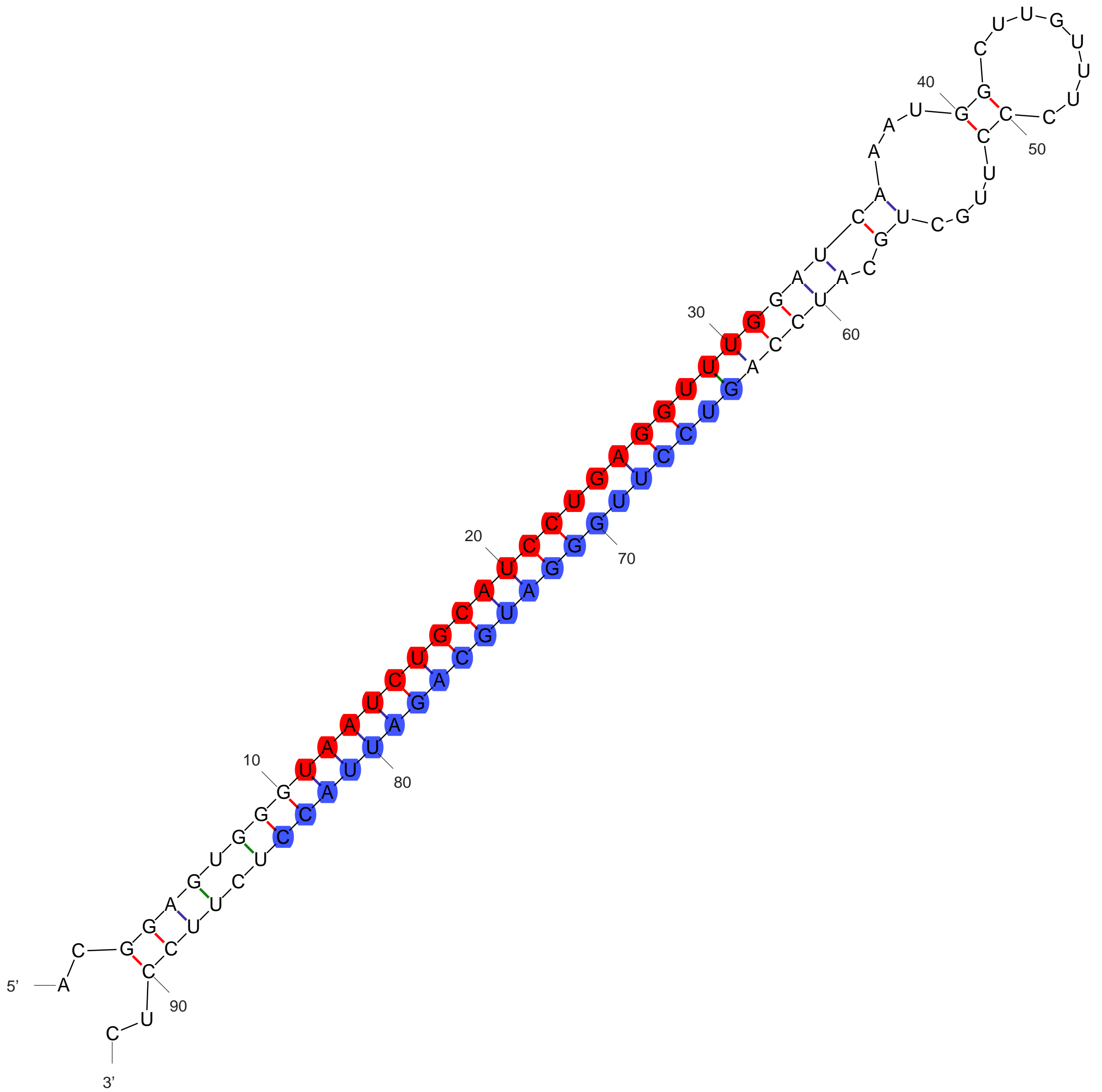
$dG = -54.60$ [Initially -54.60] 82-MIR172



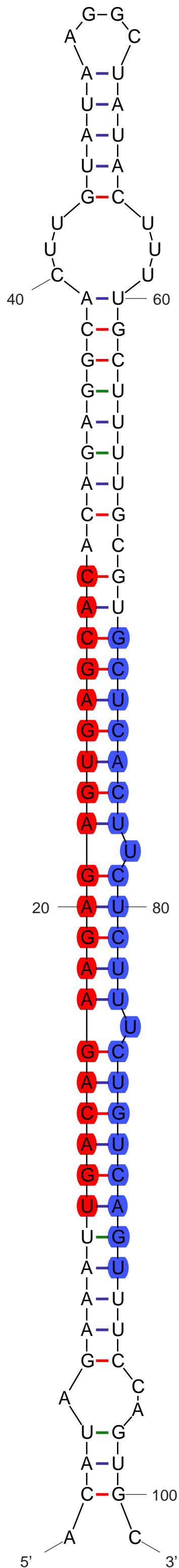
$dG = -60.00$ [Initially -60.00] 86-MIR172



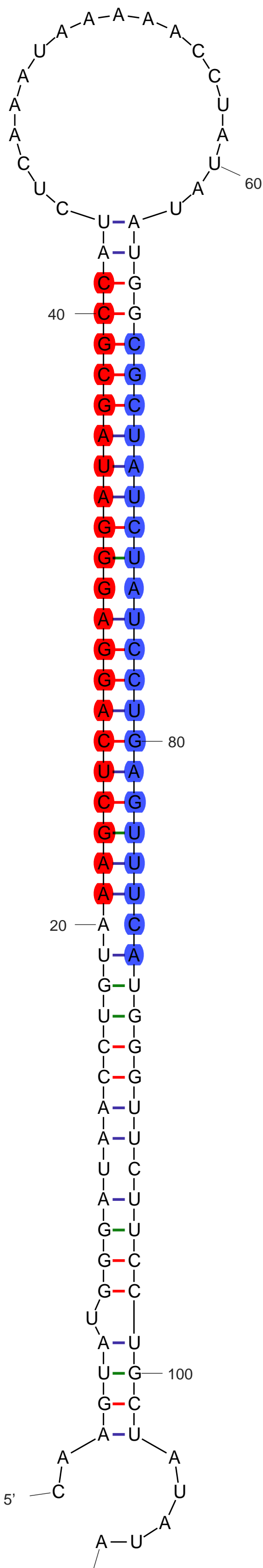
$dG = -49.80$ [Initially -49.80] 87-MIR2111



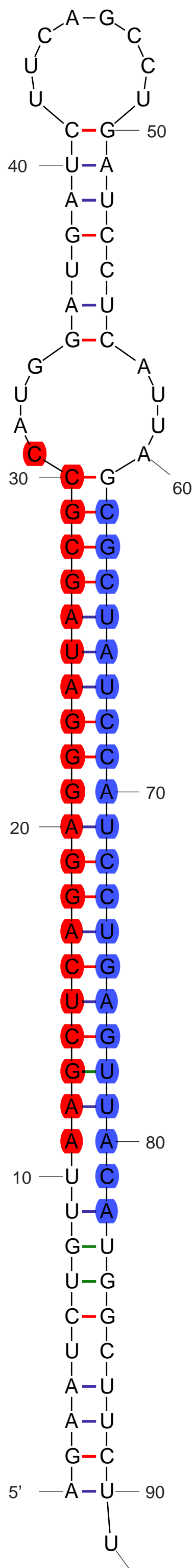
$dG = -49.60$ [Initially -49.60] 88-MIR2111



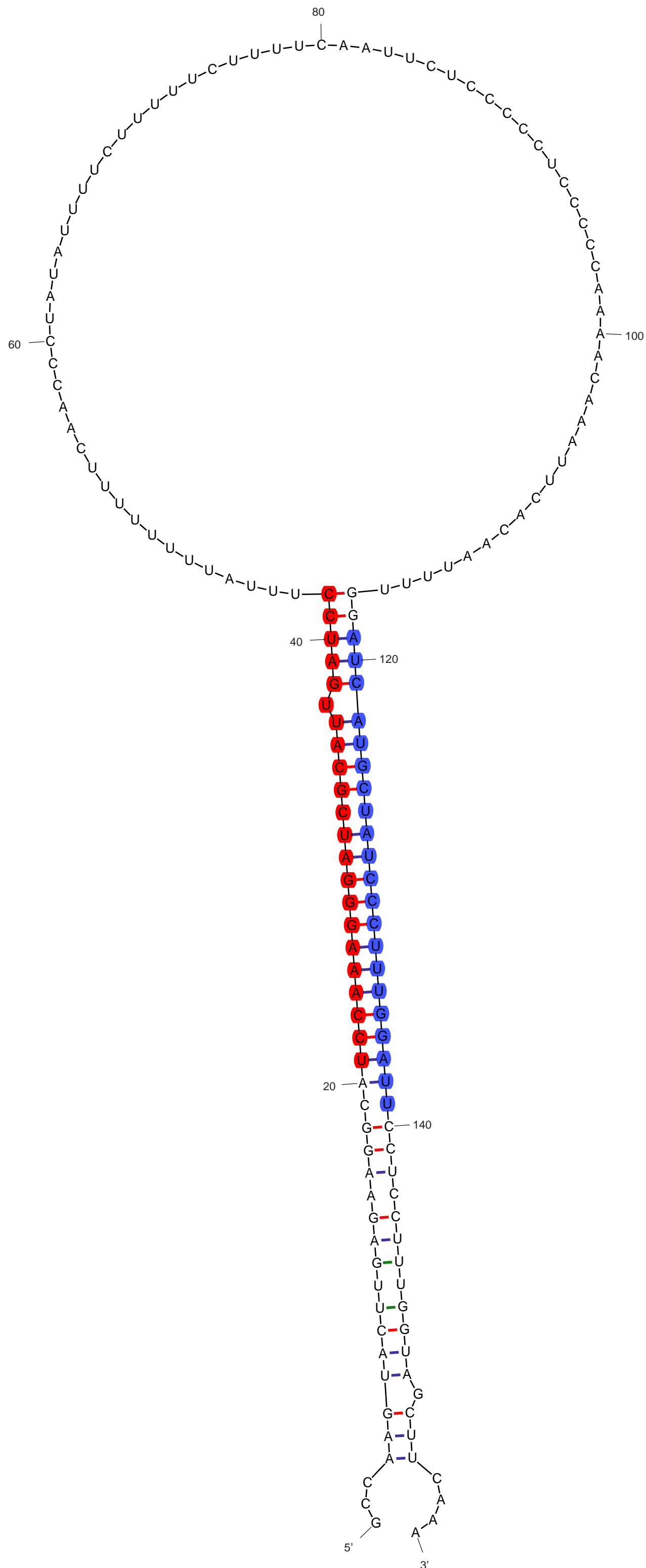
$dG = -53.30$ [Initially -53.30] 8-MIR156-[tcc-MIR156g MI0017459]



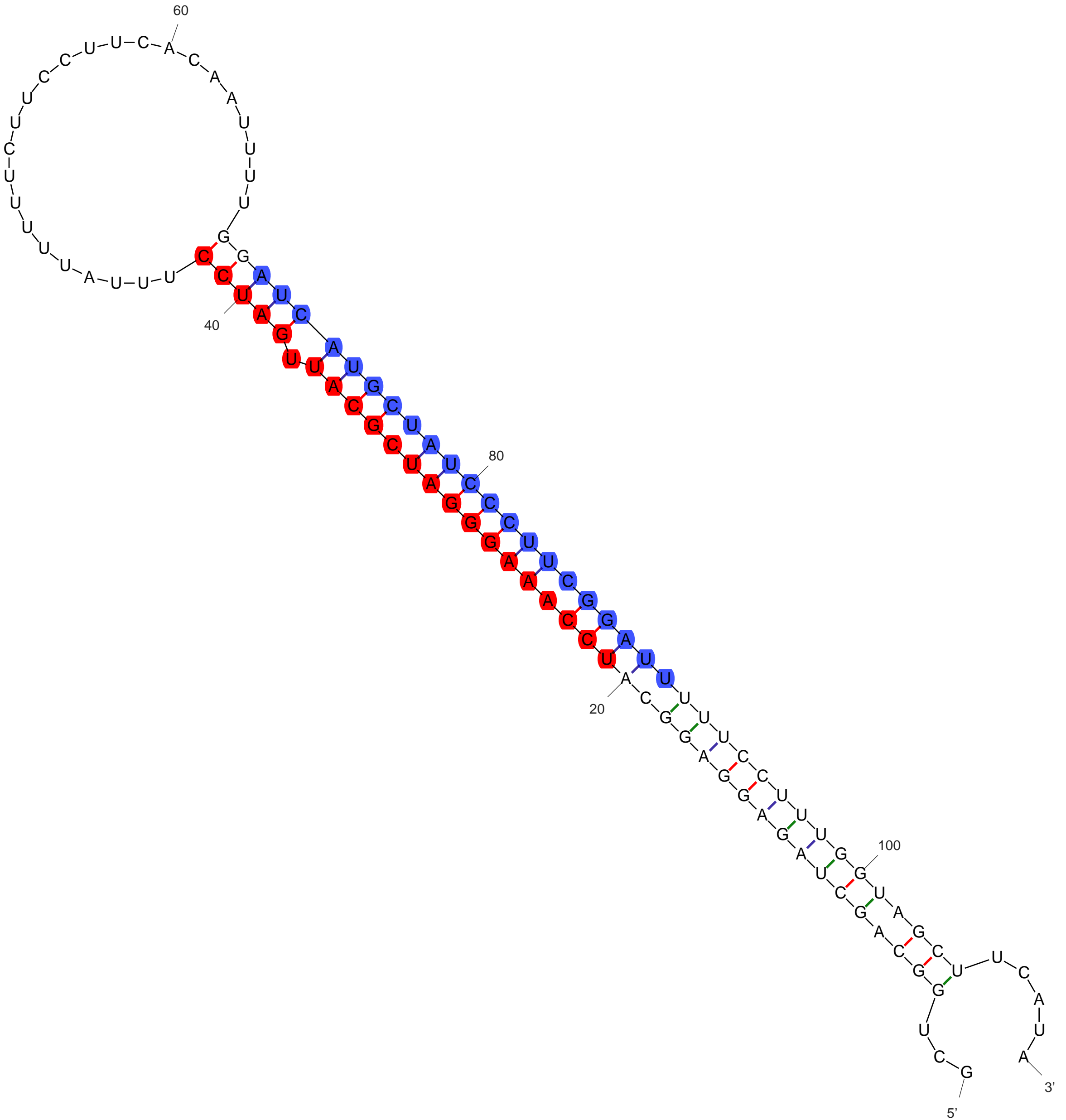
$dG = -50.90$ [Initially -50.90] 95-MIR390



$dG = -41.90$ [Initially -41.90] 96-MIR390



$dG = -41.03$ [Initially -41.02] 97-MIR393



$dG = -45.20$ [Initially -45.20] 99-MIR393