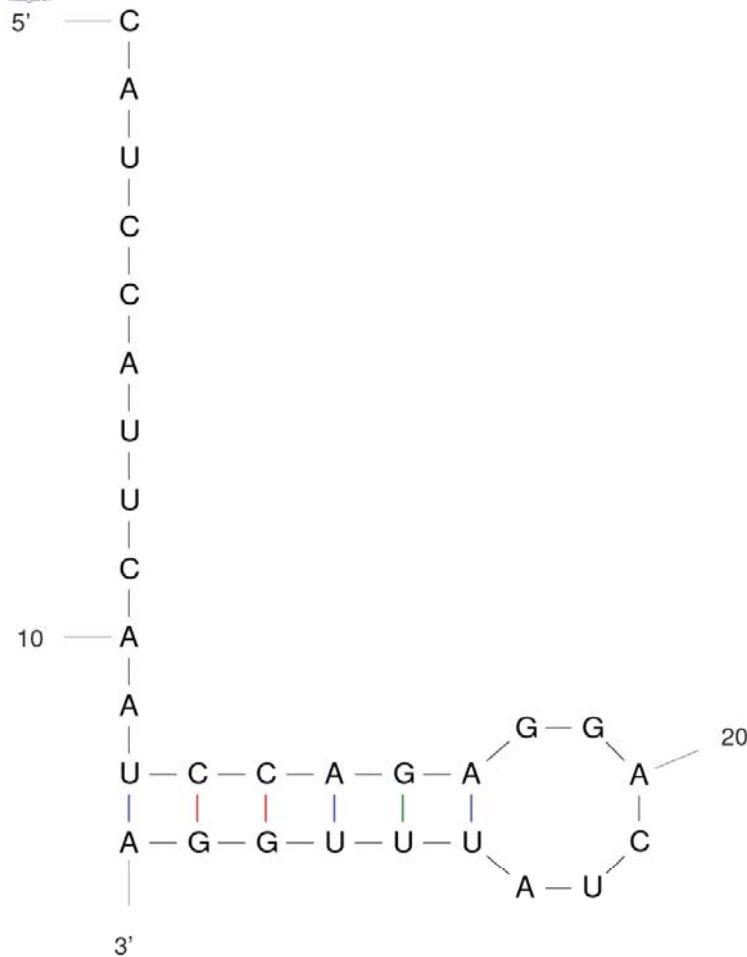
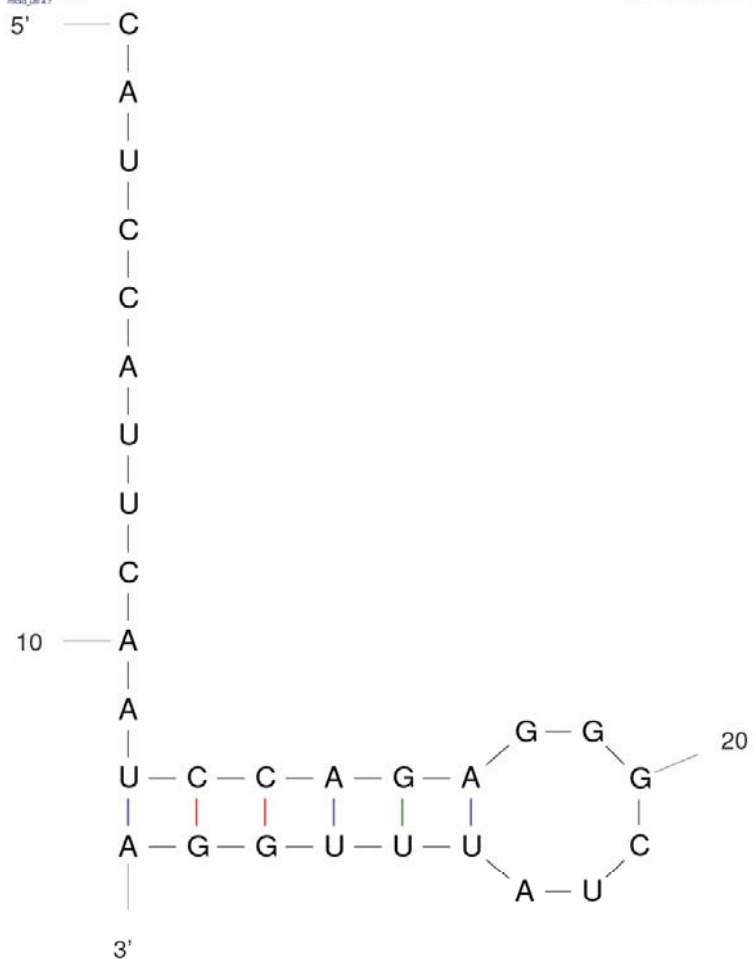


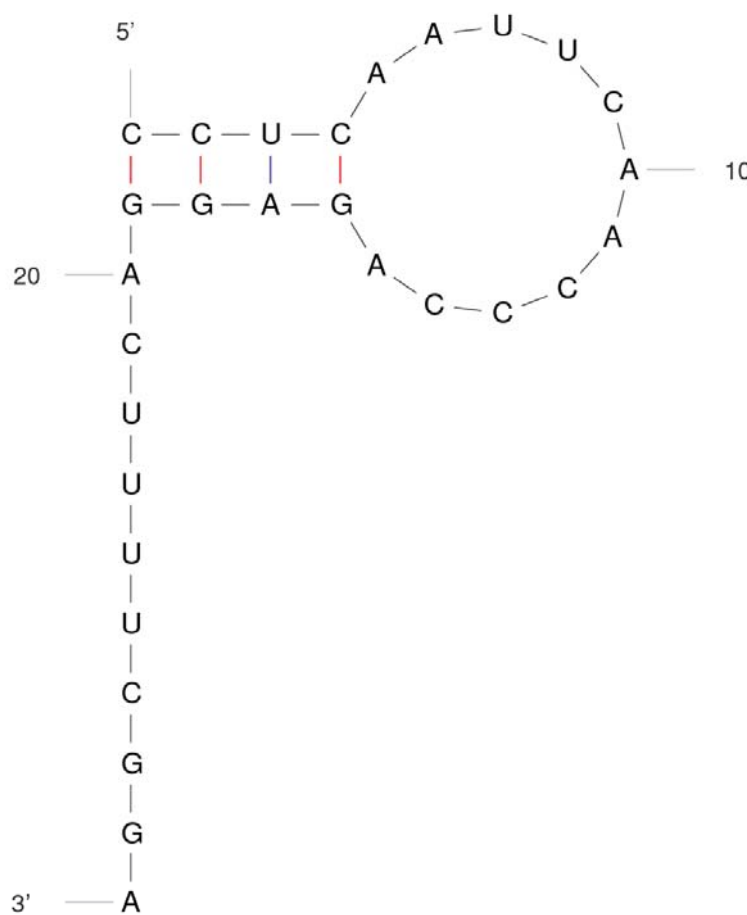
dG = -3.3 A_duck_Miyagi_66_1977 H1N1



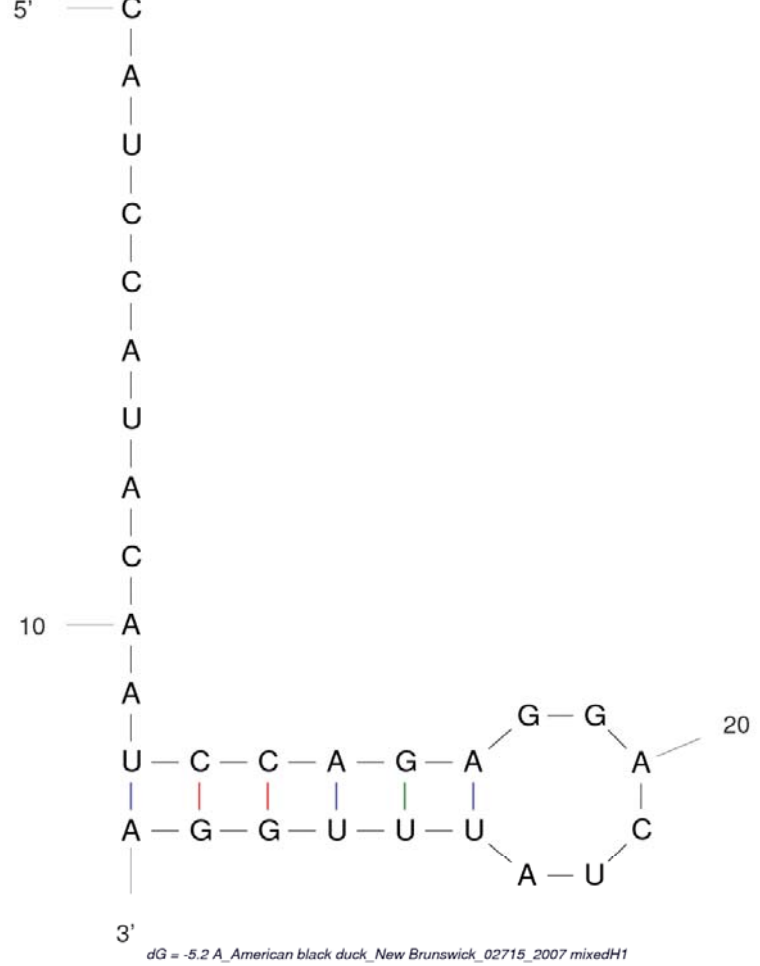
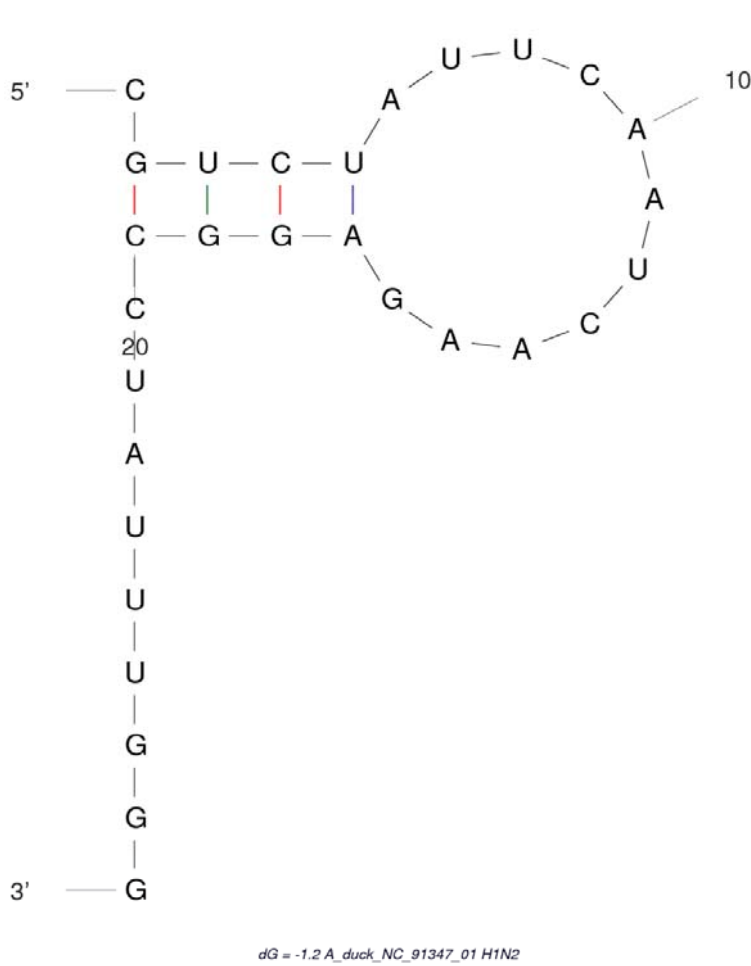
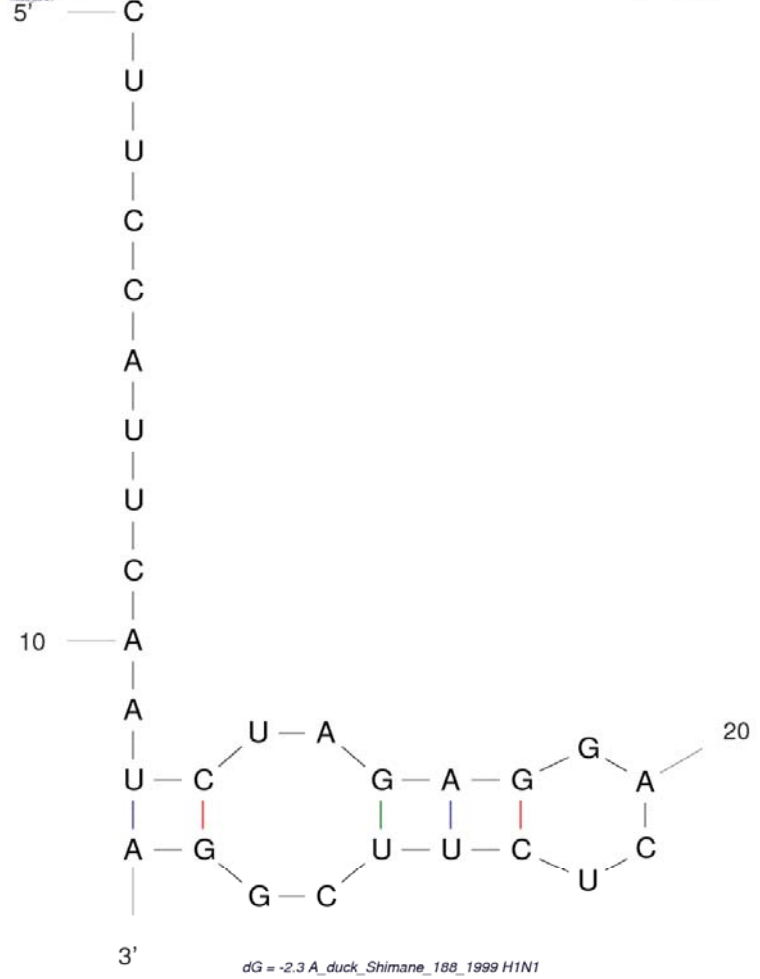
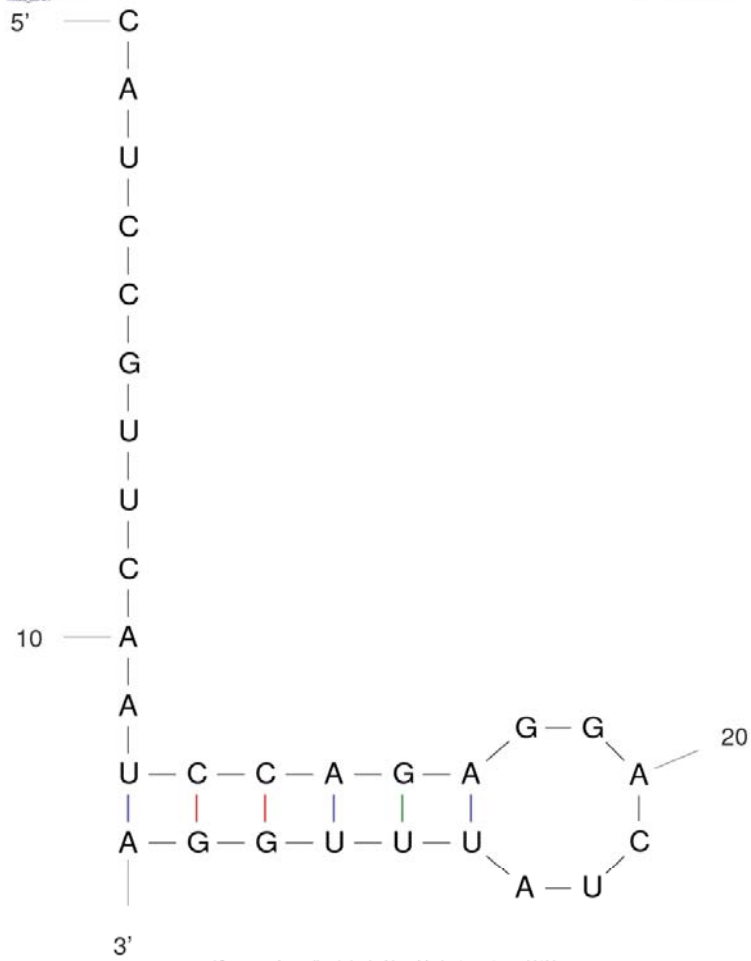
dG = -5.2 A_pintail_duck_ALB_219_1977 H1N1

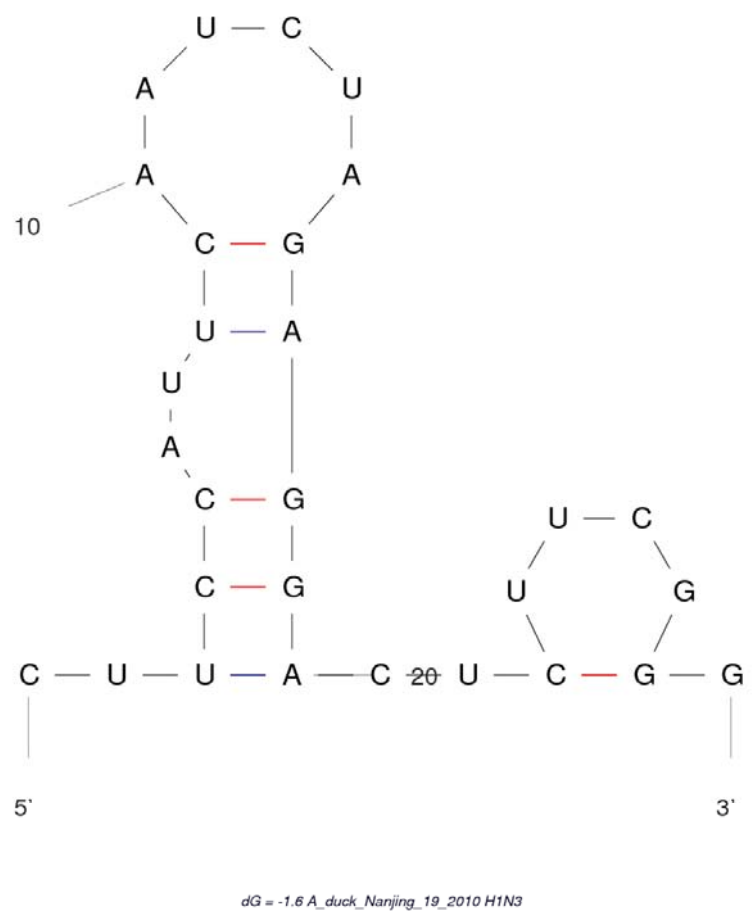
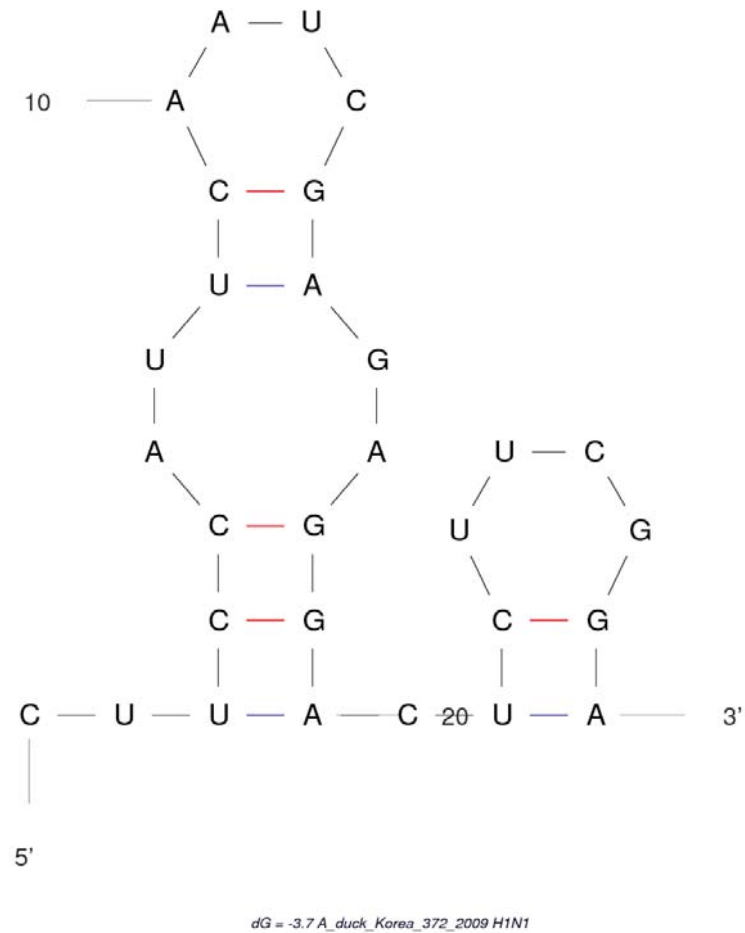
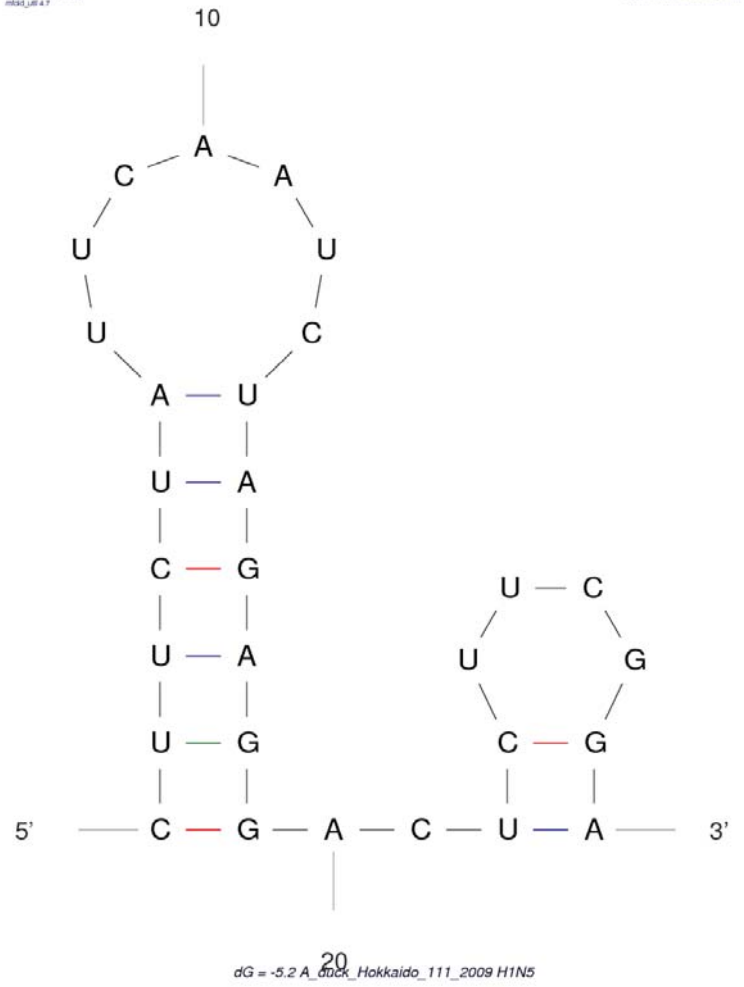
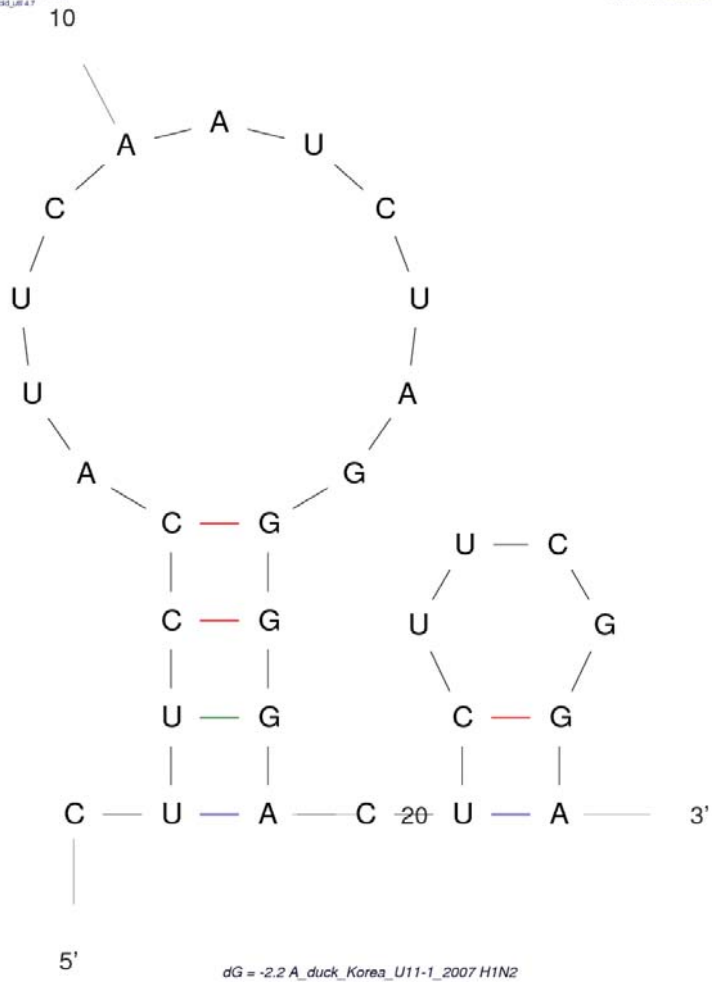


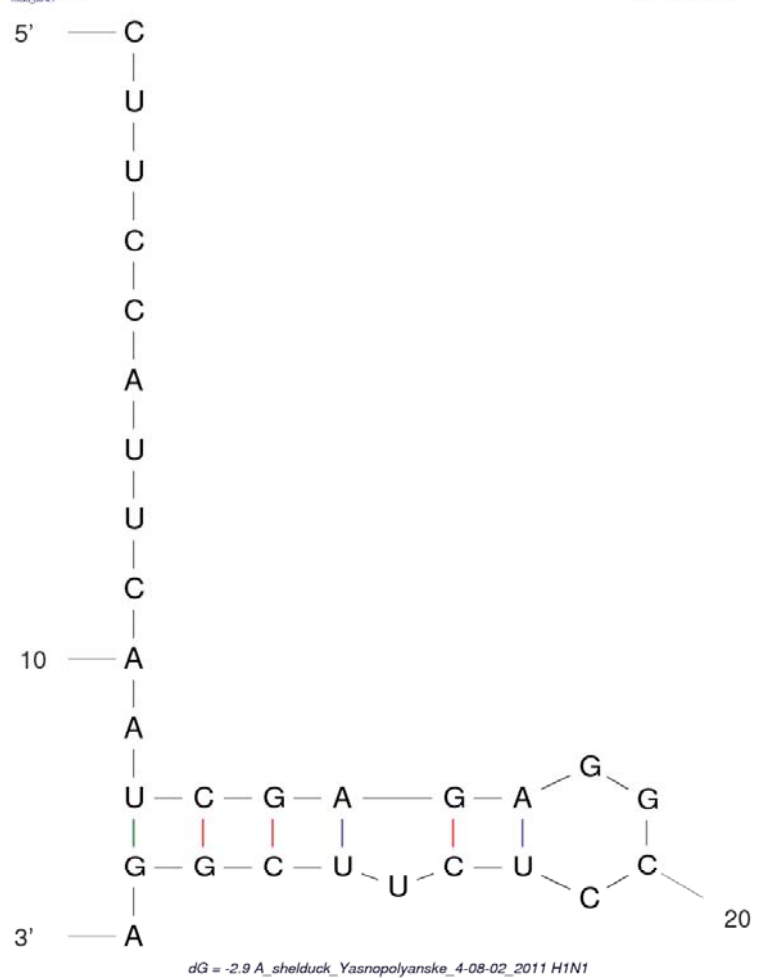
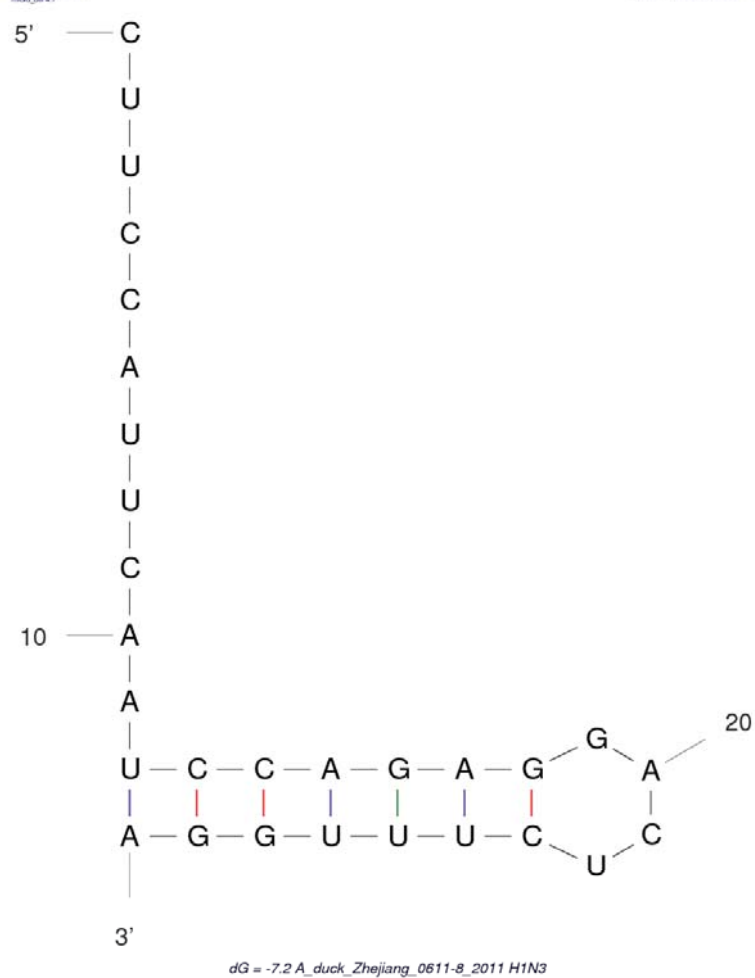
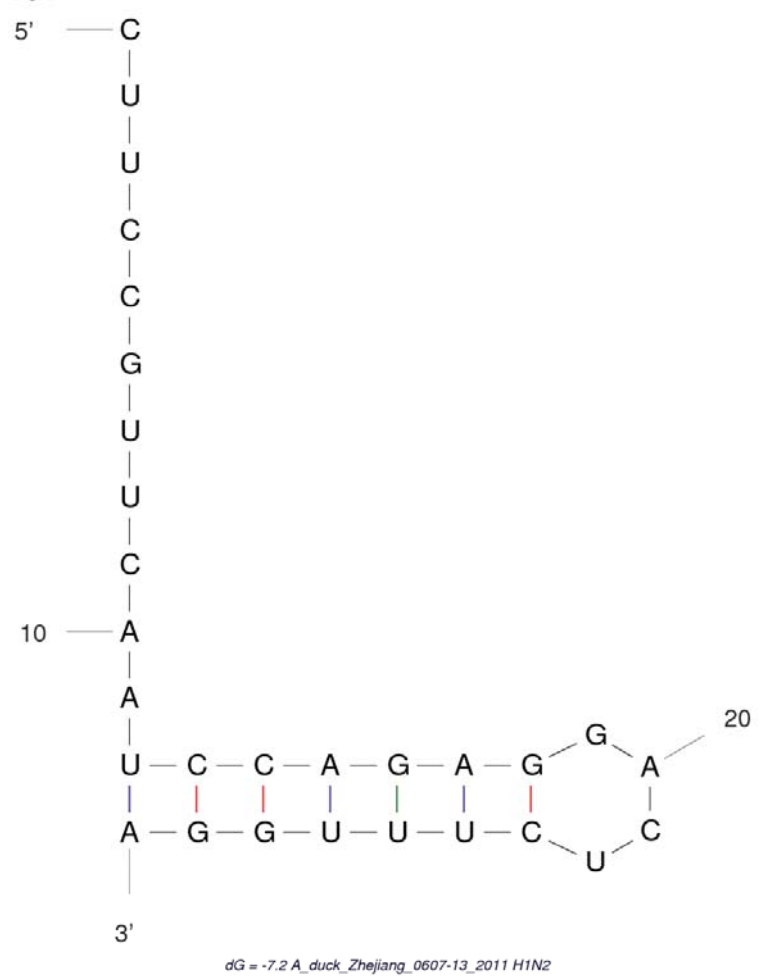
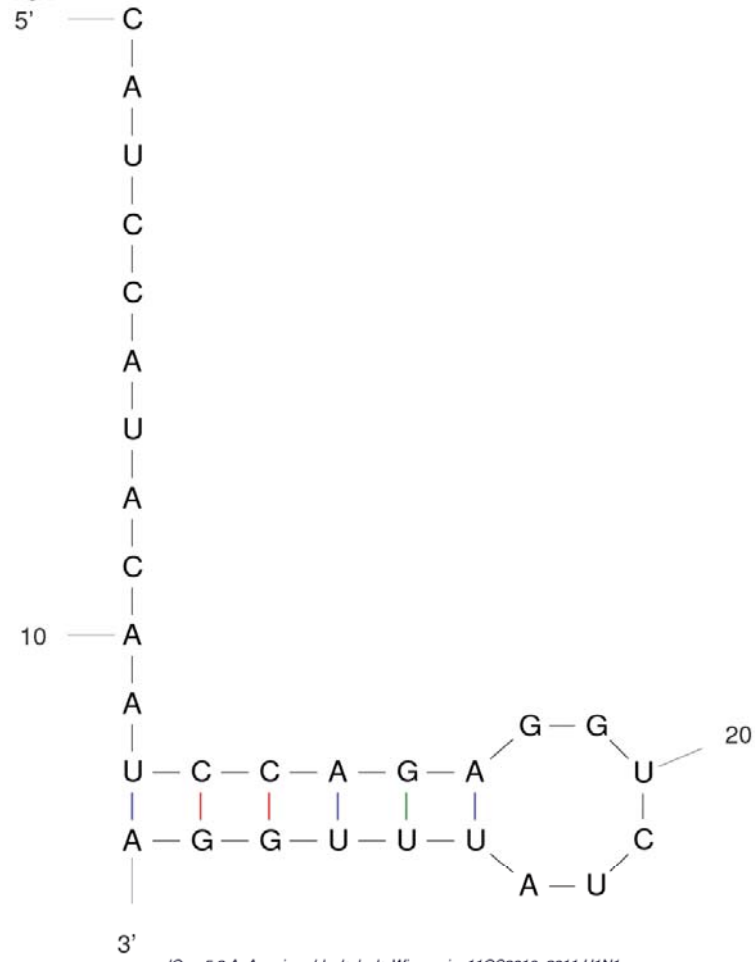
dG = -5.2 A_duck_Minnesota_1375_1981 H1N1

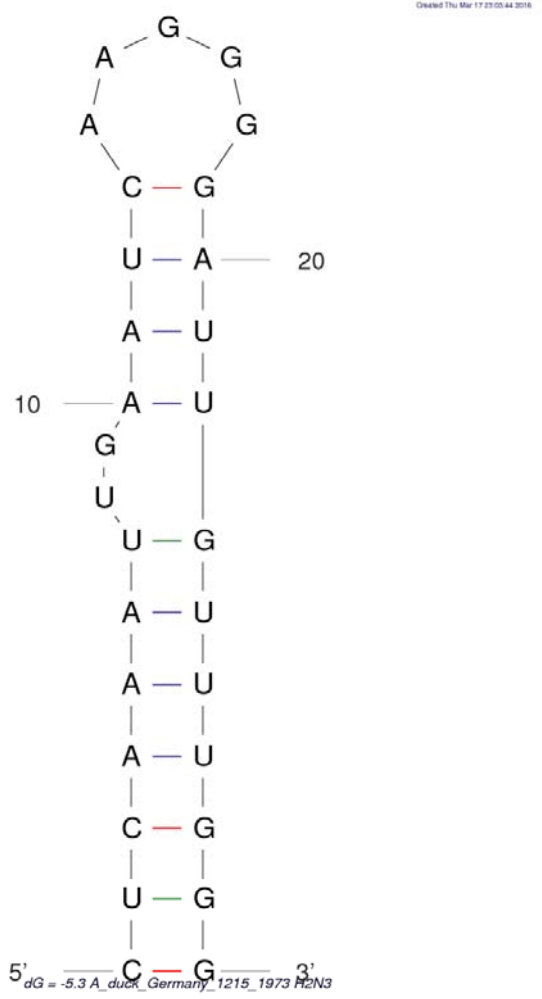
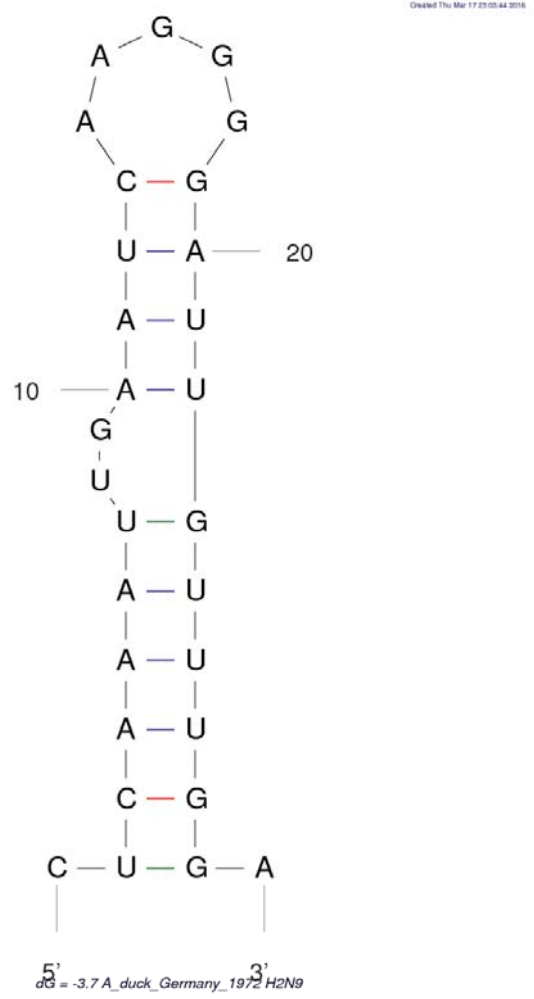
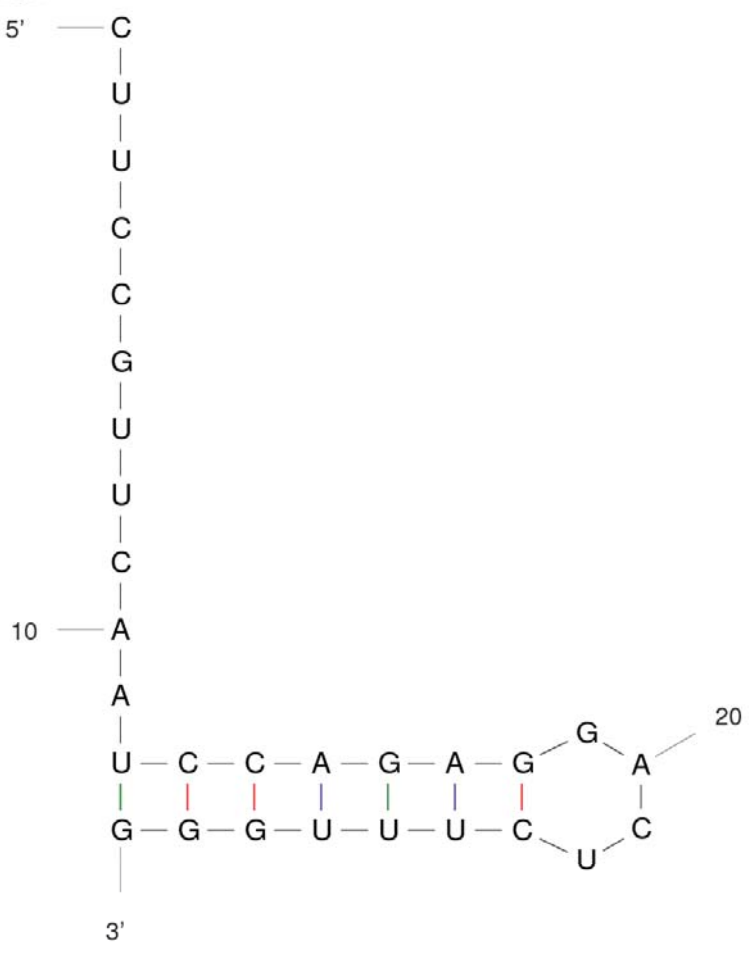
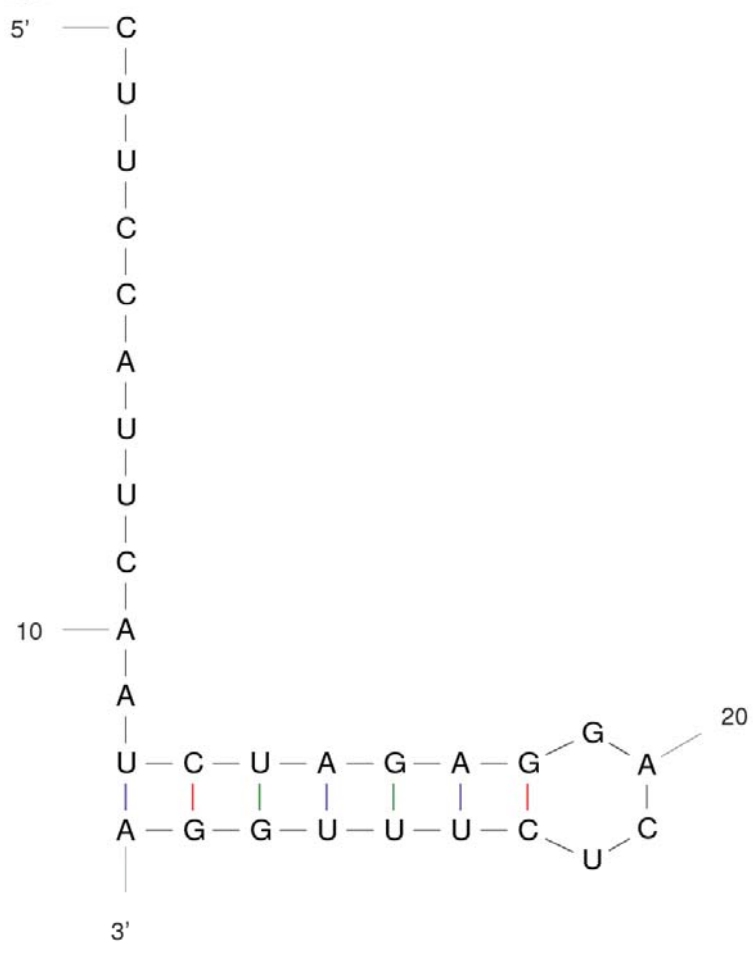


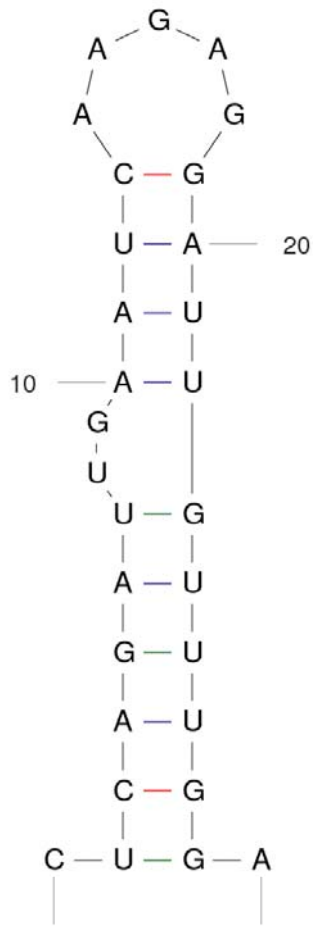
dG = -3.8 A_duck_Victoria_23_1981 H1N1



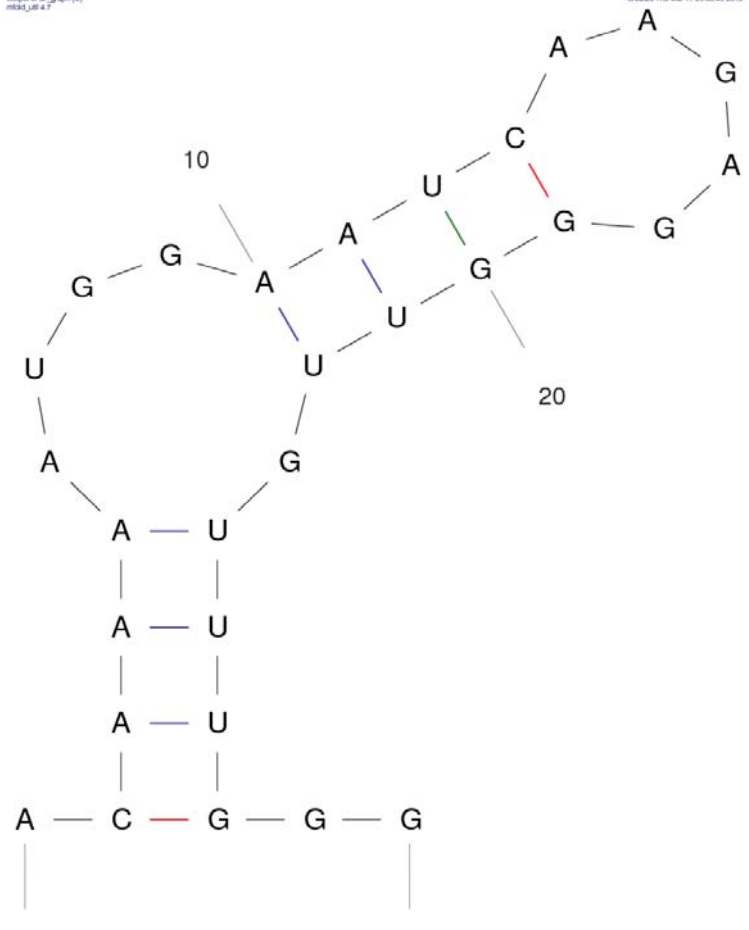




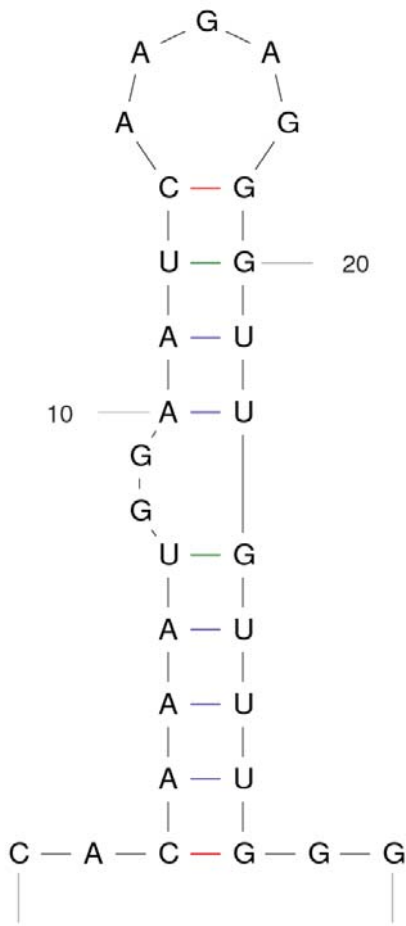




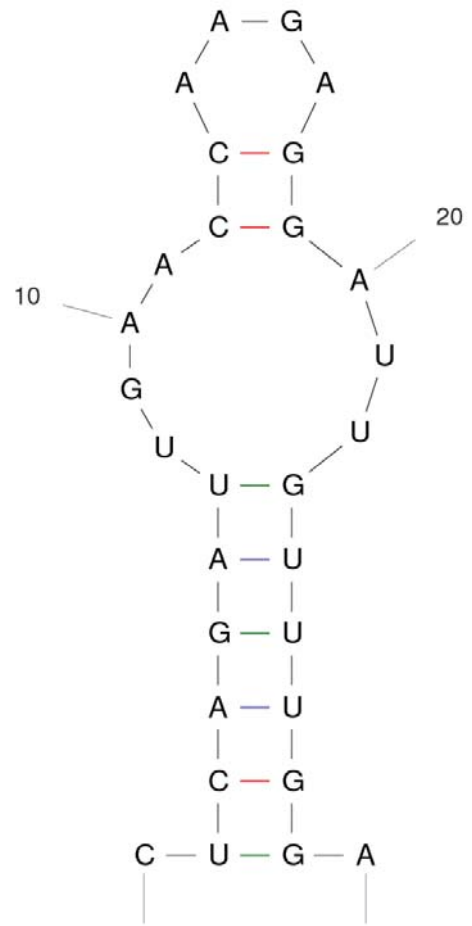
dG = -3.8 A_black_duck_New_Jersey_1580_1978 H2N3



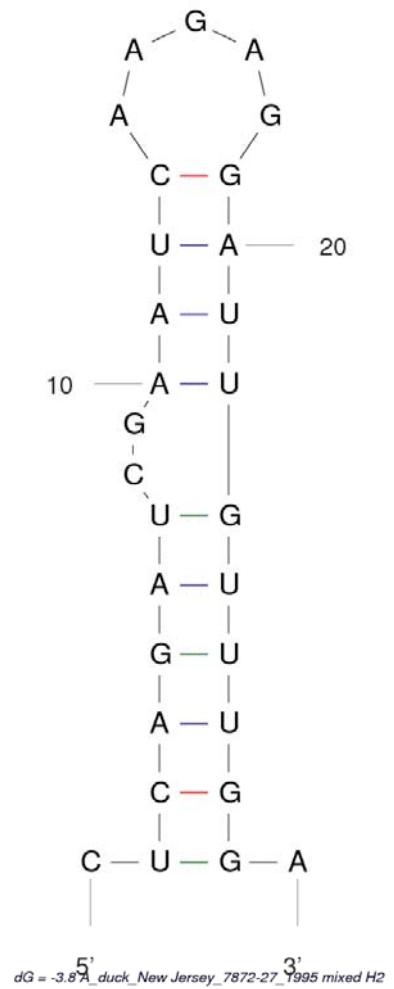
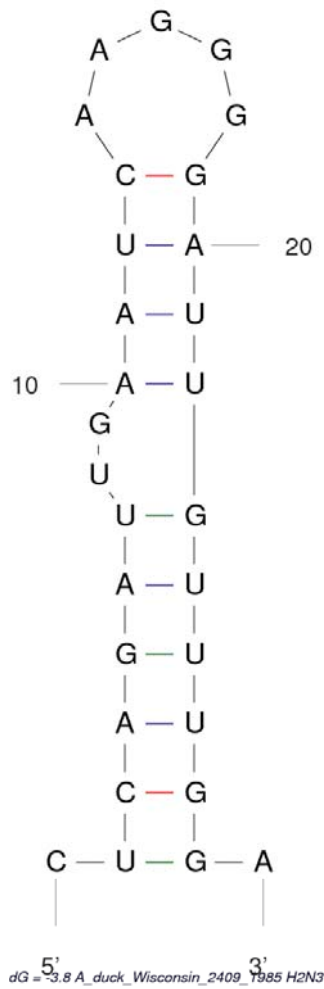
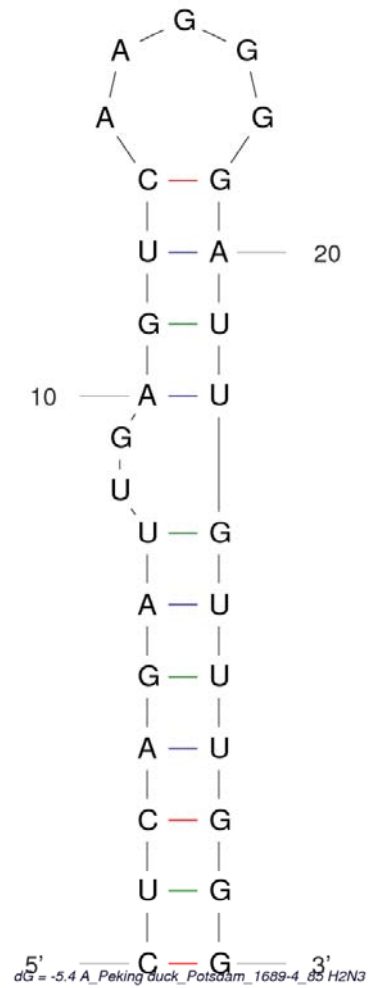
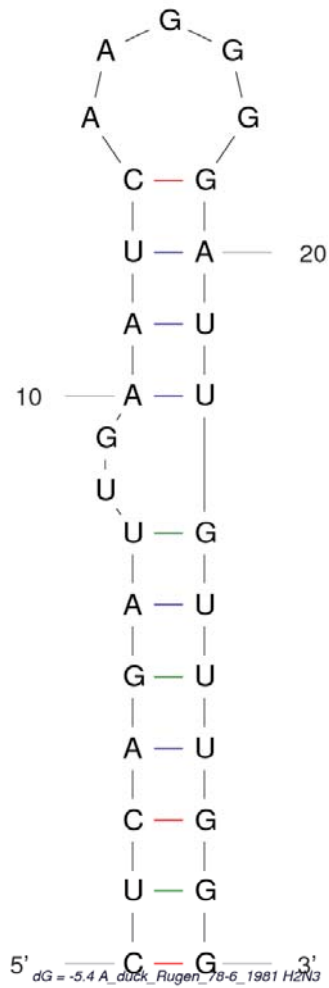
dG = -0.4 A_duck_Hong_Kong_273_1978 H2N2

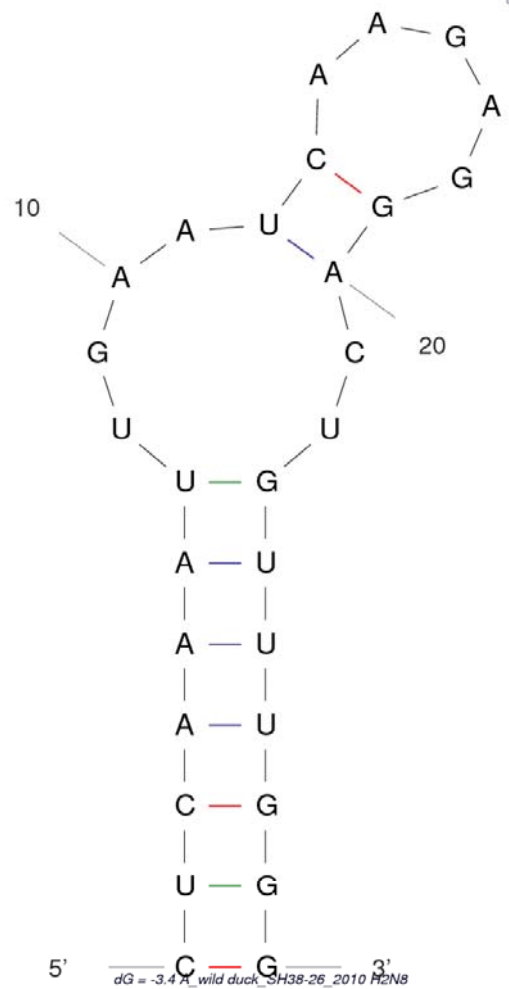
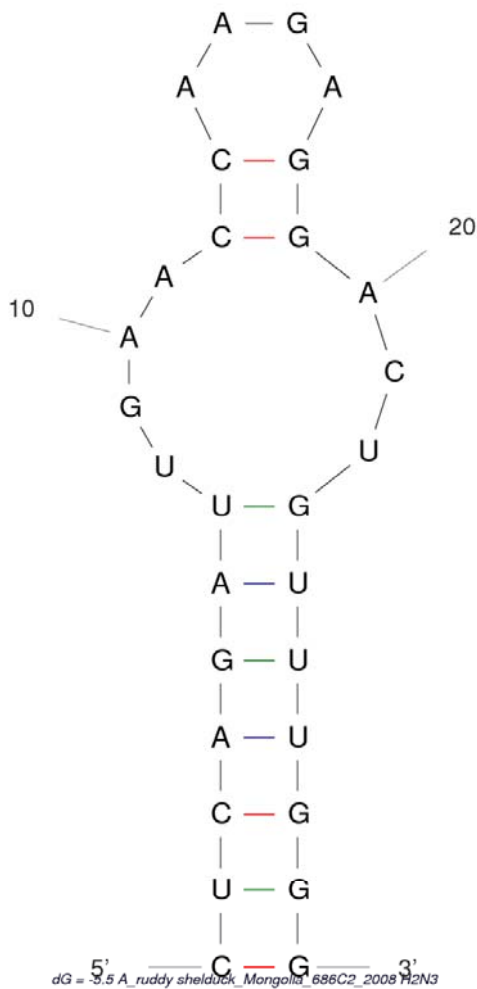
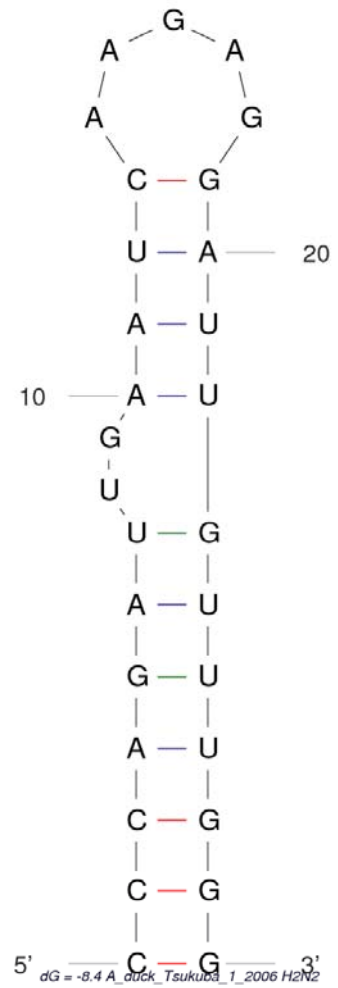
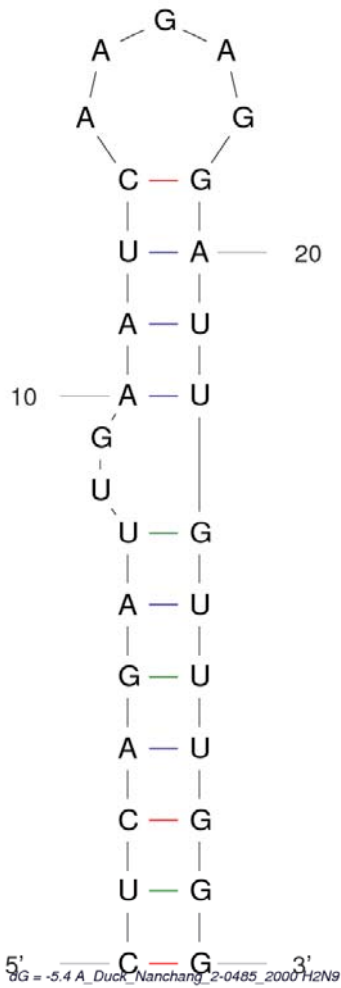


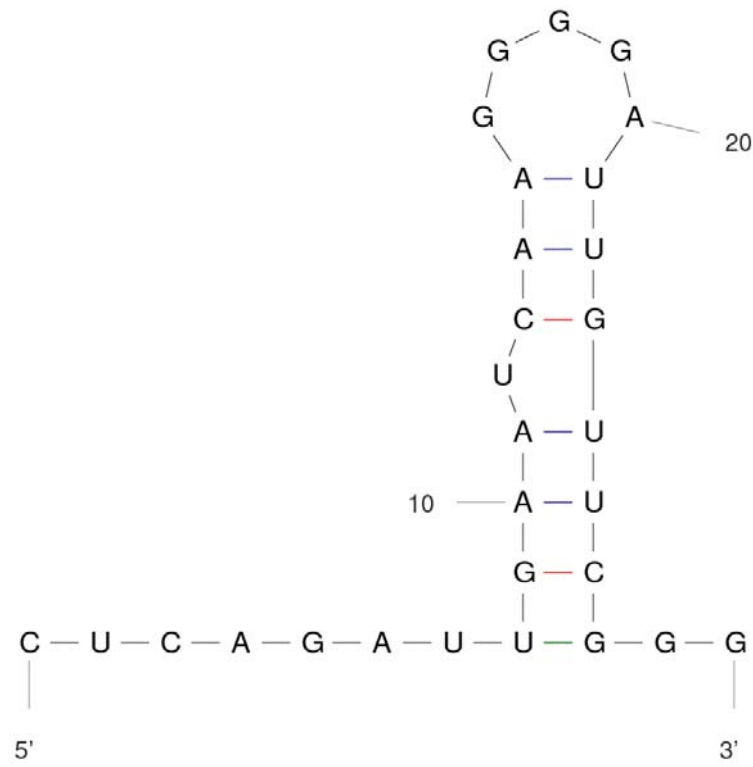
dG = -2.7 A_duck_Hong_Kong_273_1978 H2N22



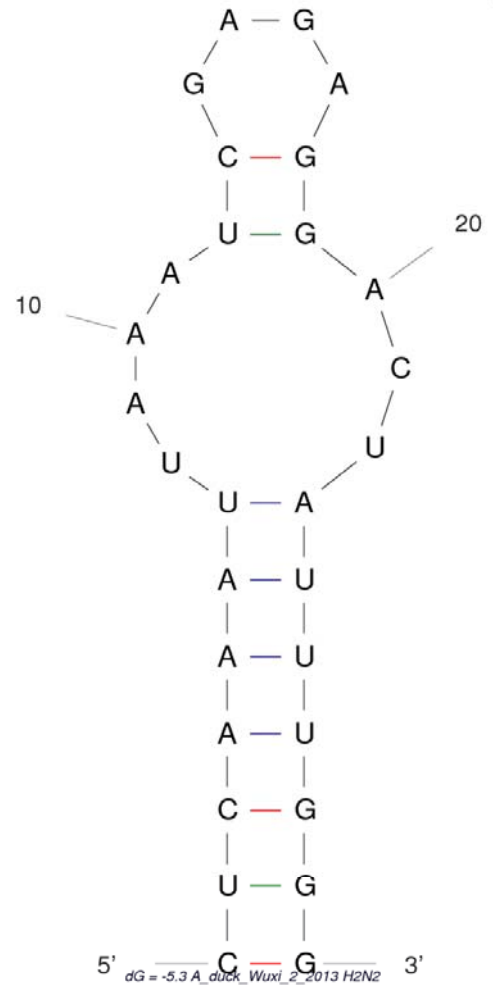
dG = -3.9 A_pintail_duck_Alberta_211_1980 H2N3



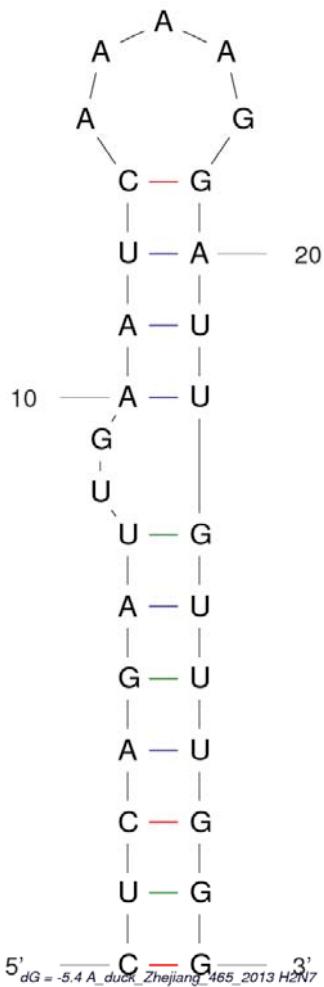




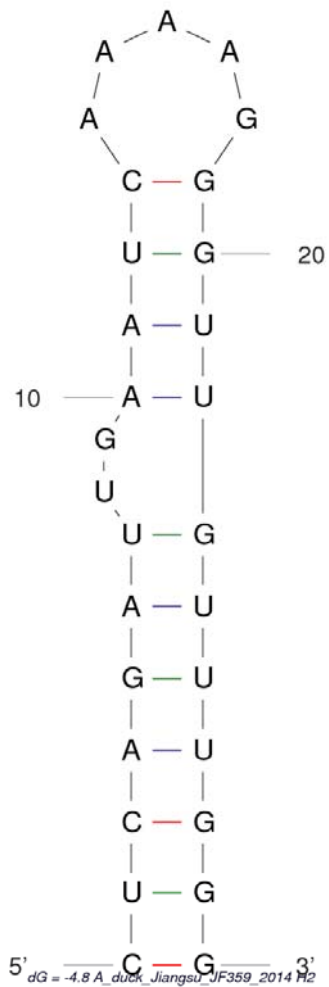
dG = -1.9 A_duck_Interior Alaska_11PG00451_2011 H2N3



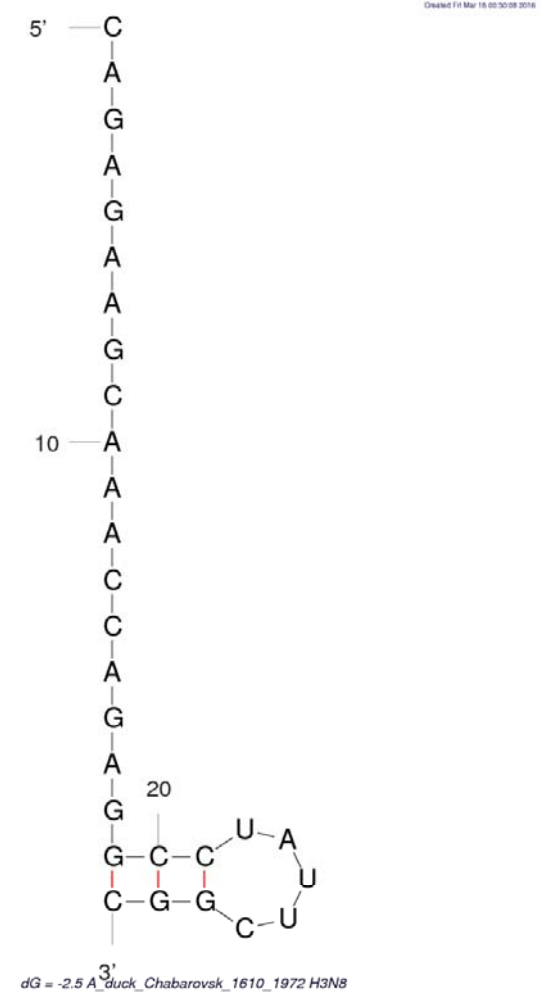
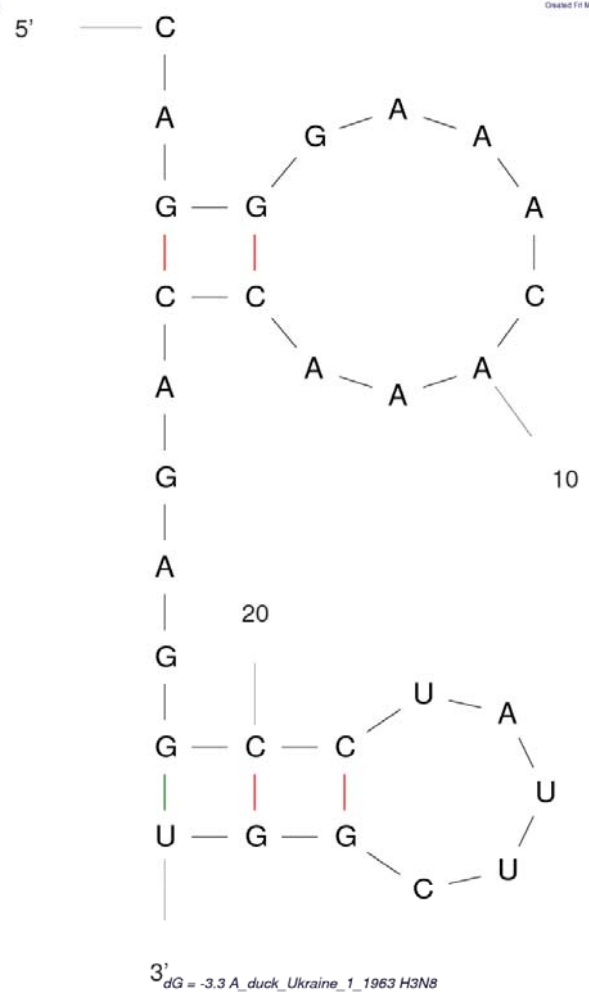
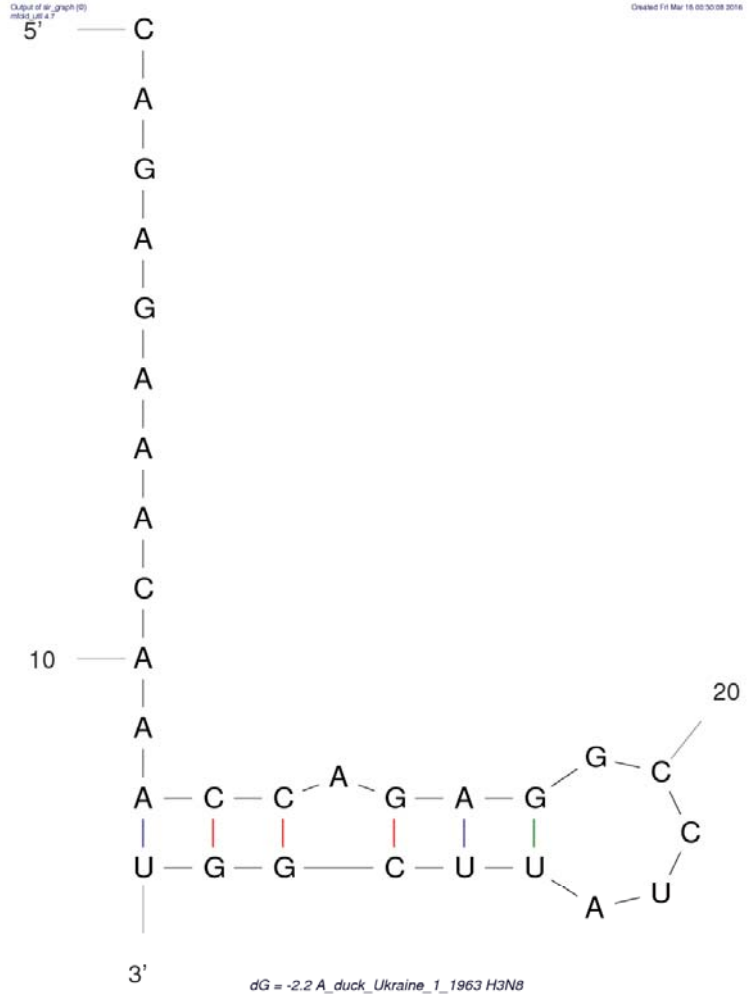
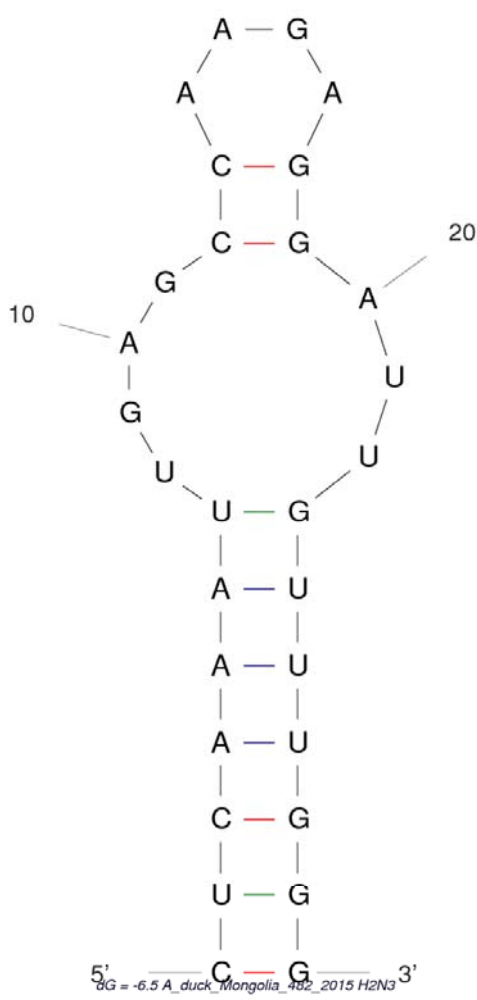
dG = -5.3 A_duck_Wuxi_2_2013 H2N2

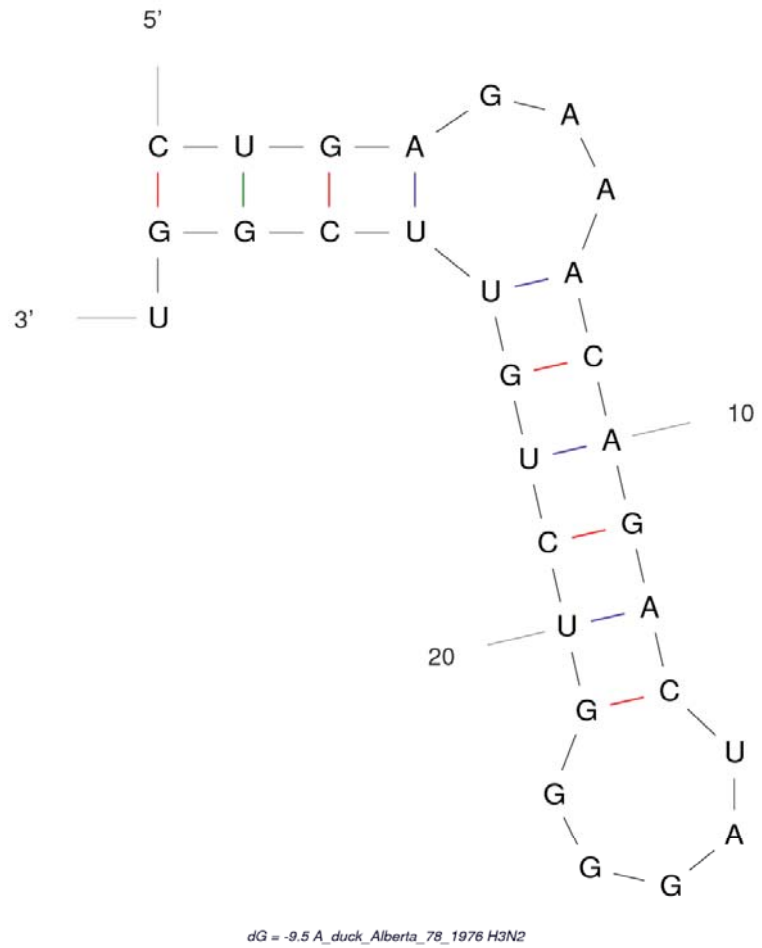
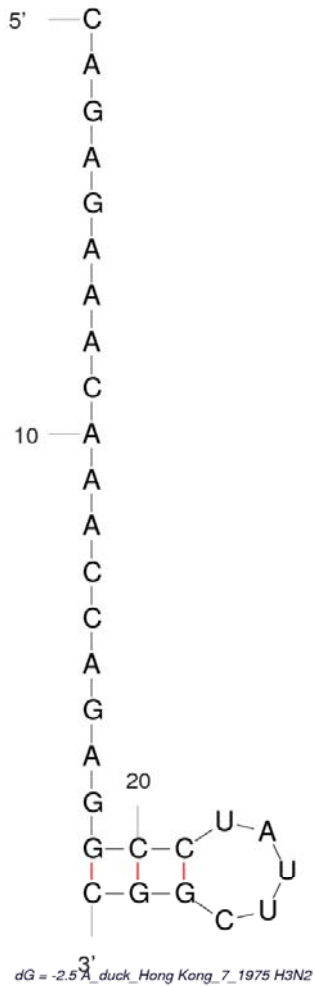
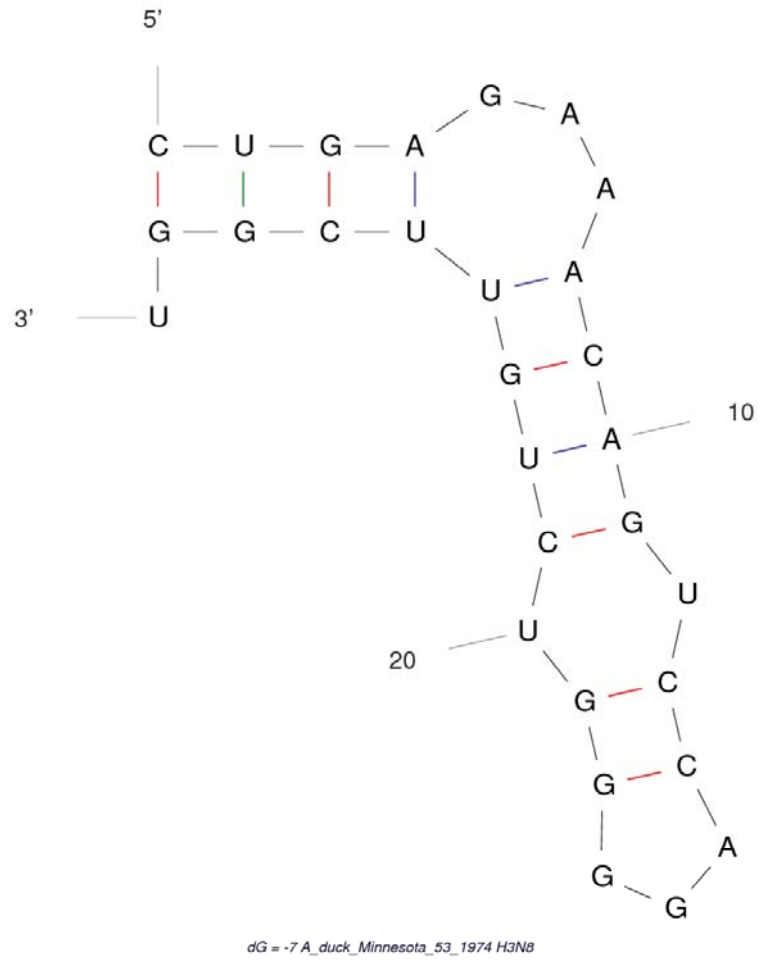
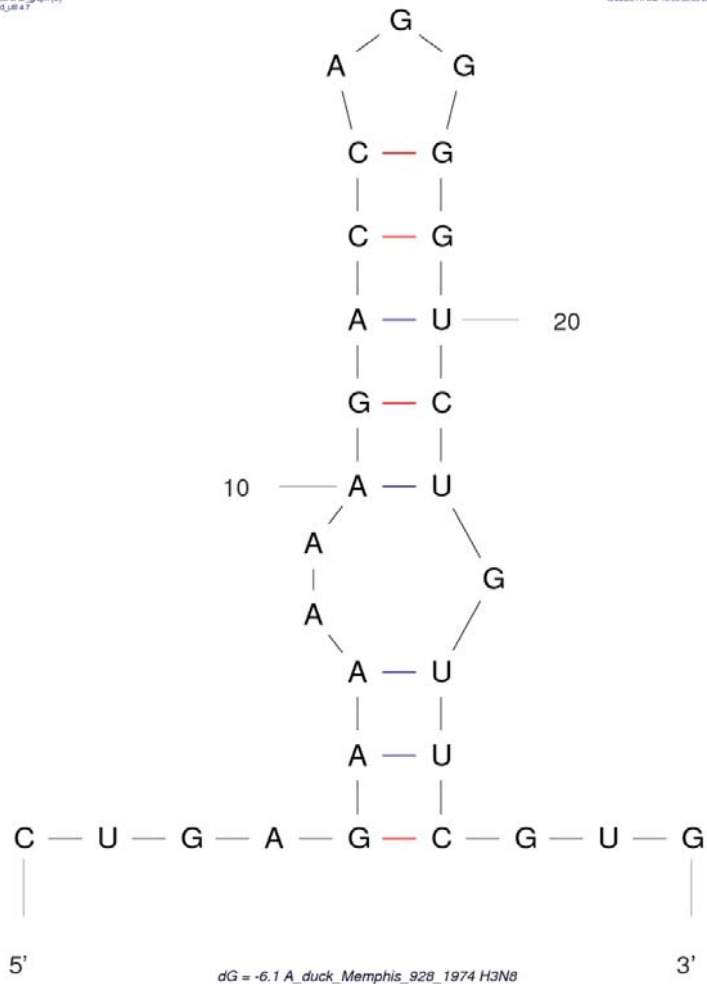


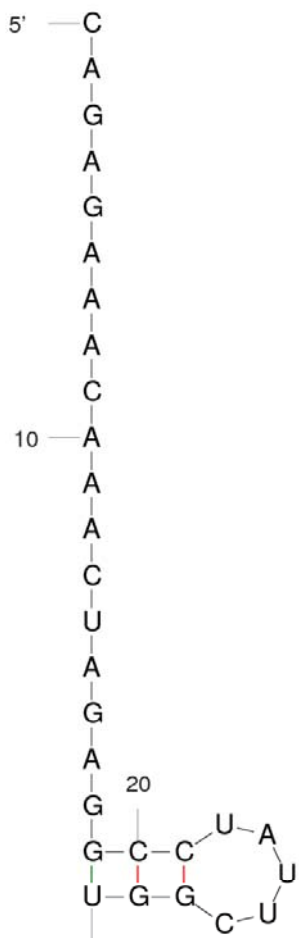
dG = -5.4 A_duck_Zhejiang_465_2013 H2N7



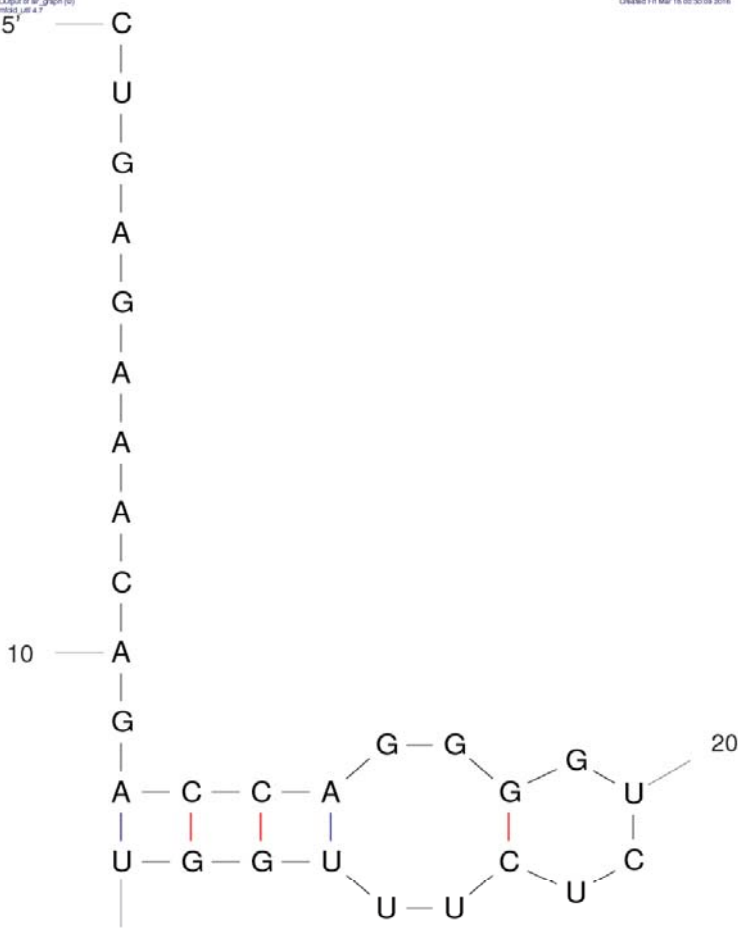
dG = -4.8 A_duck_Jiangsu_JF359_2014 H2



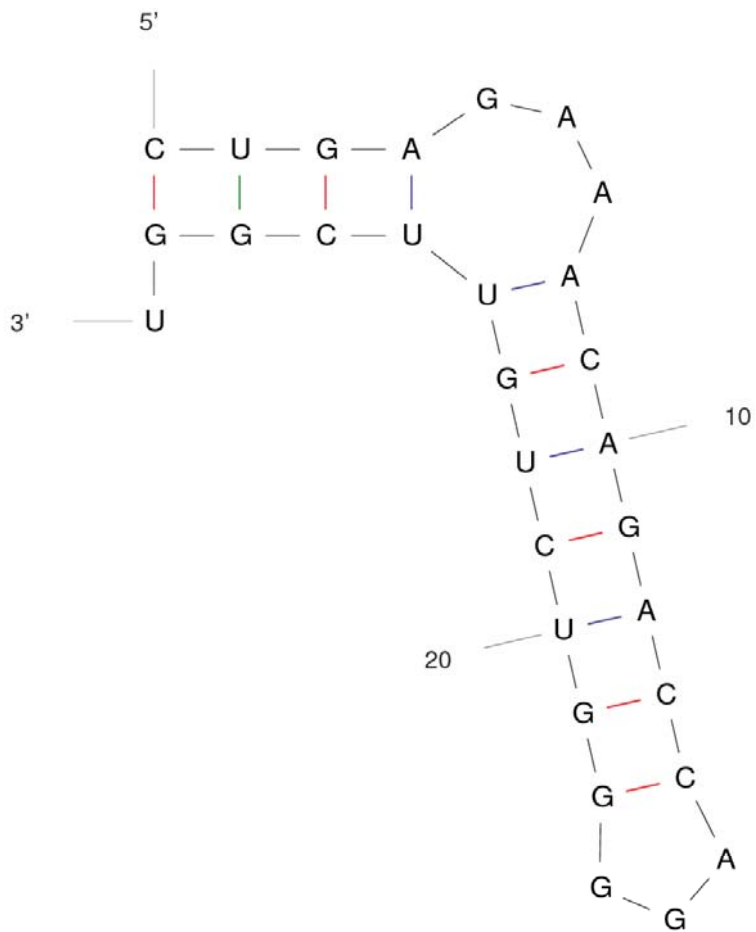




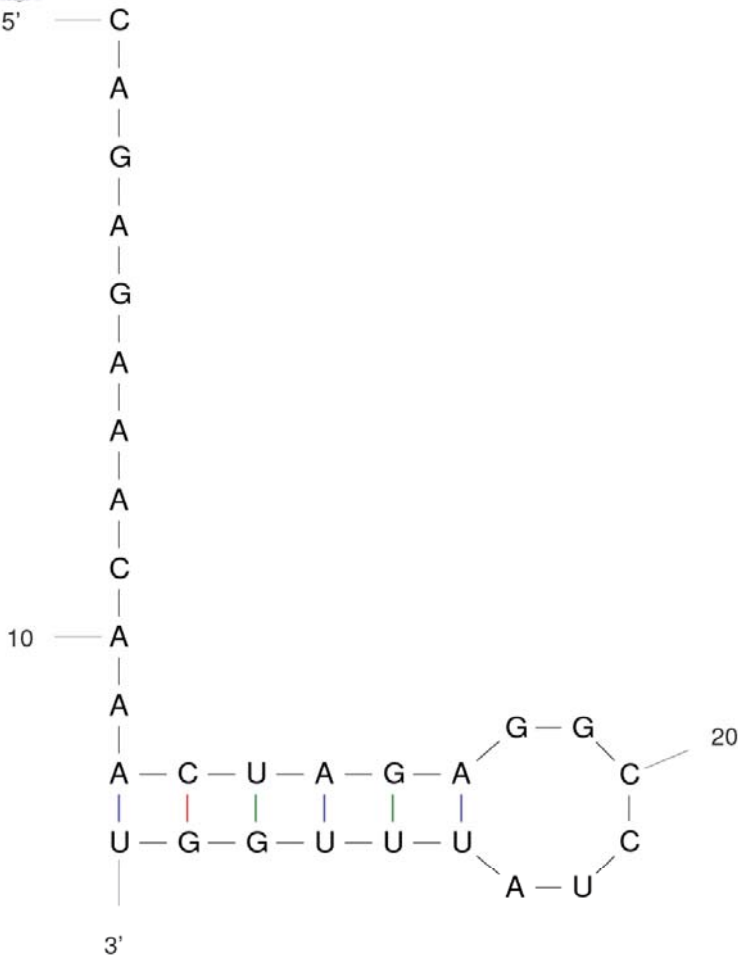
dG = -1.5 A_ duck_Hong Kong_22A_1976 H3N3



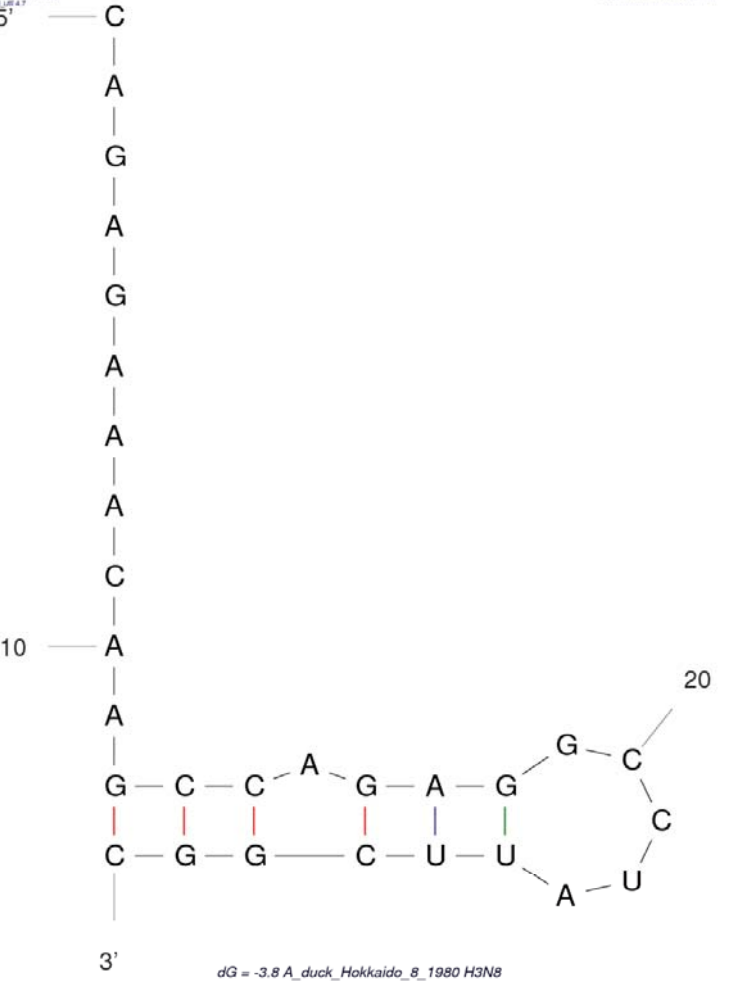
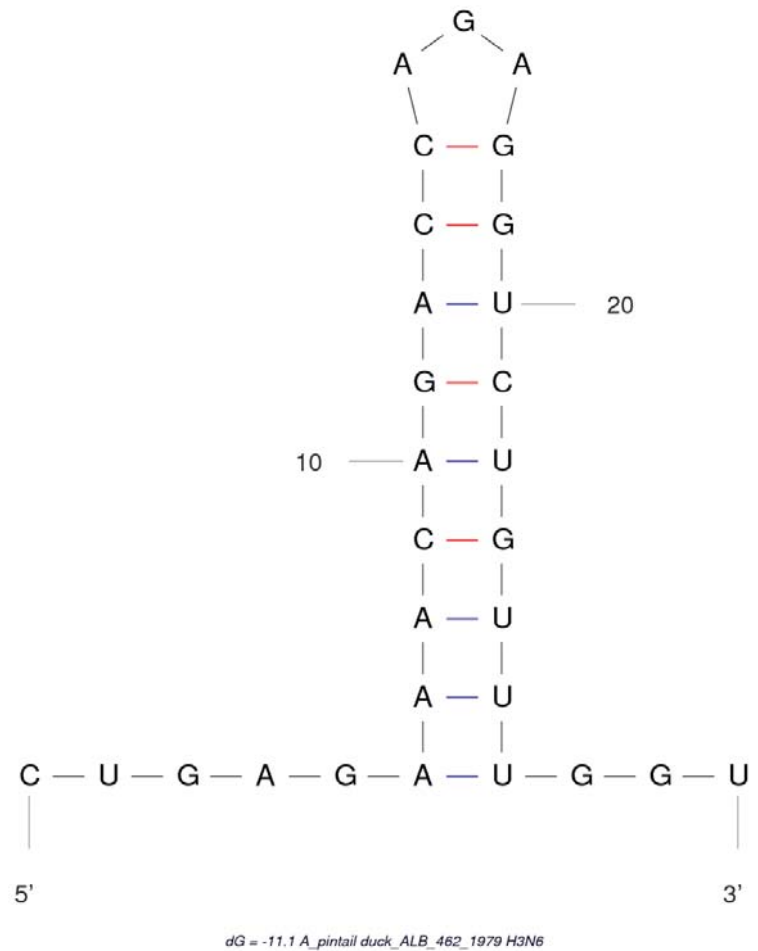
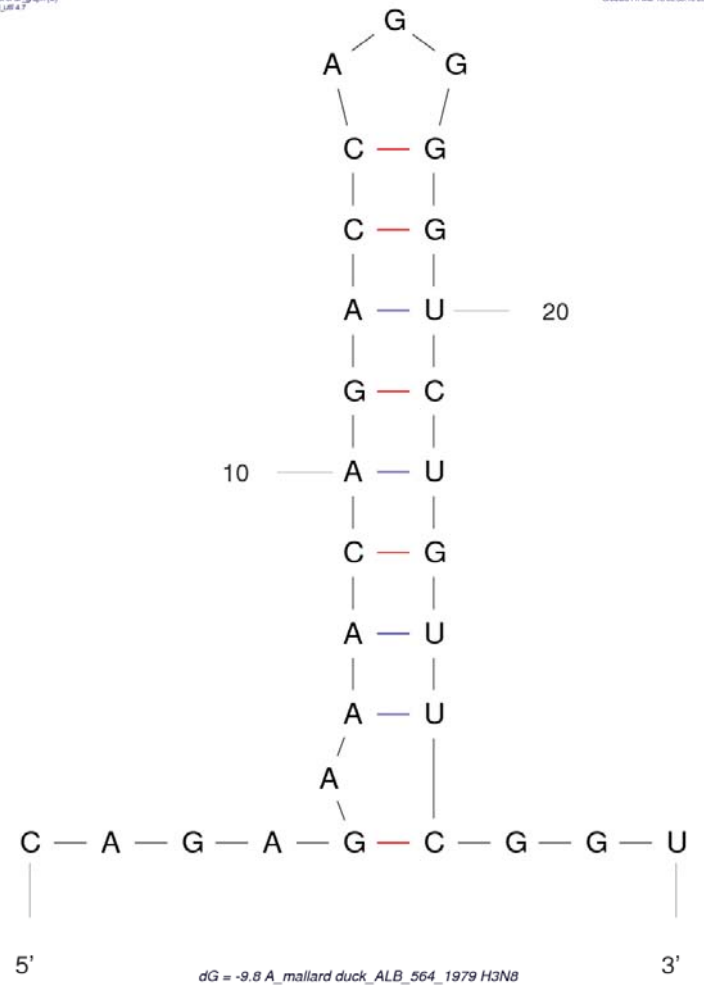
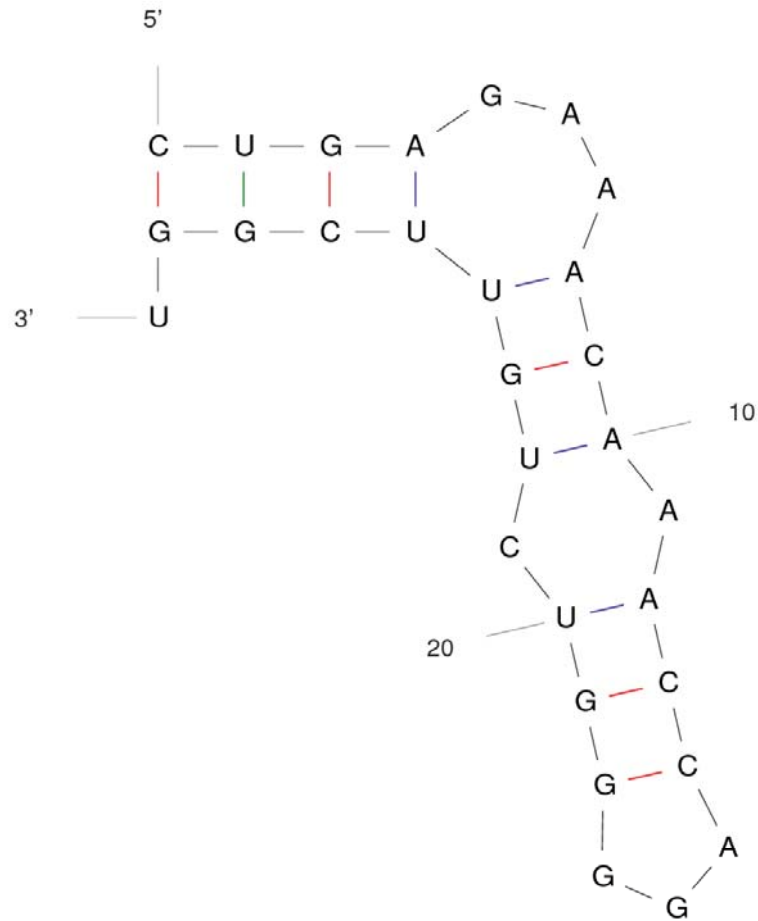
dG = -5.2 A_ duck_Minnesota_34_1976 H3N8

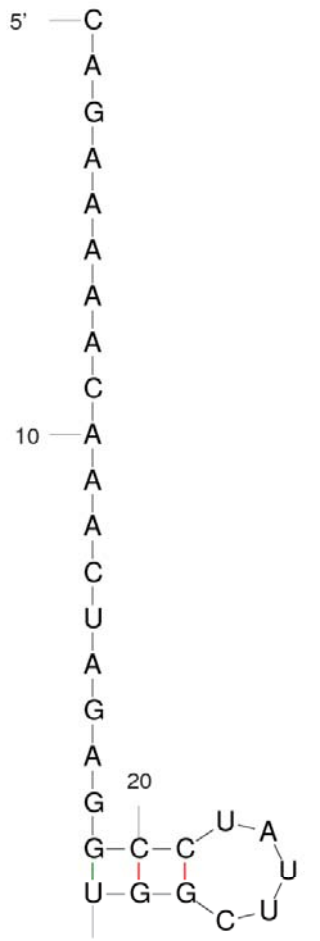


dG = -10.9 A_mallard duck_ALB_31_1976 H3N8

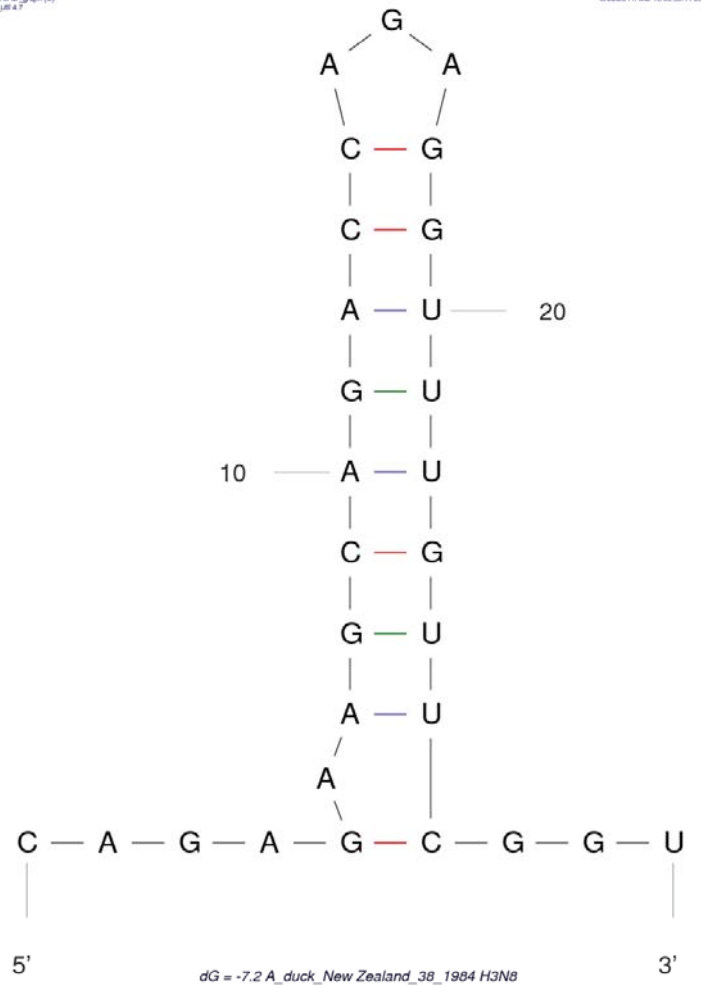


dG = -2.7 A_ duck_Hokkaido_5_1977 H3N2

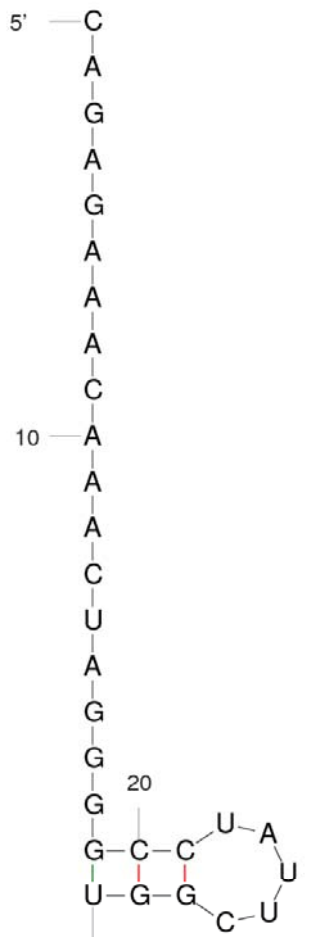




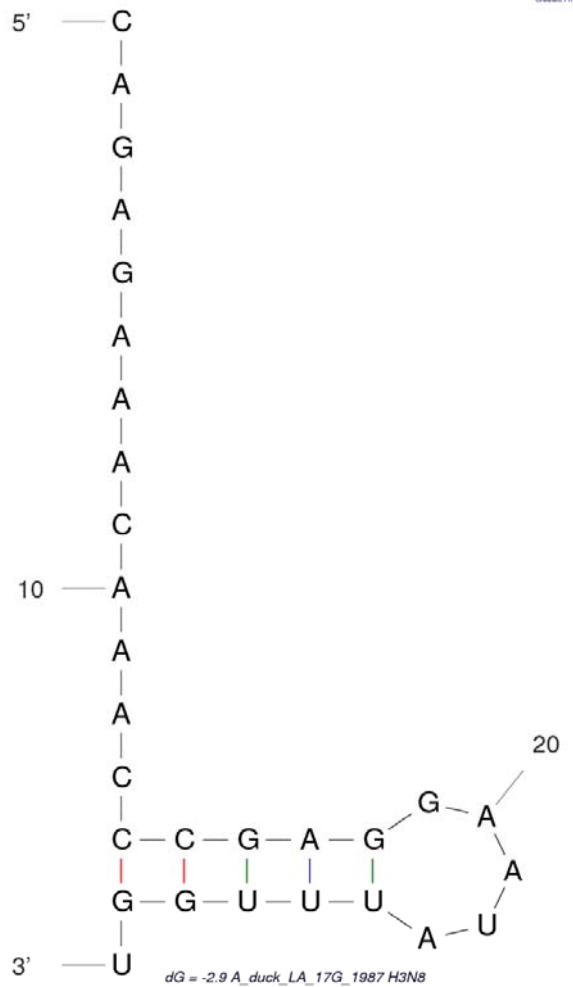
dG = -1.5 A_duck_Hong Kong_836_1980 H3N1



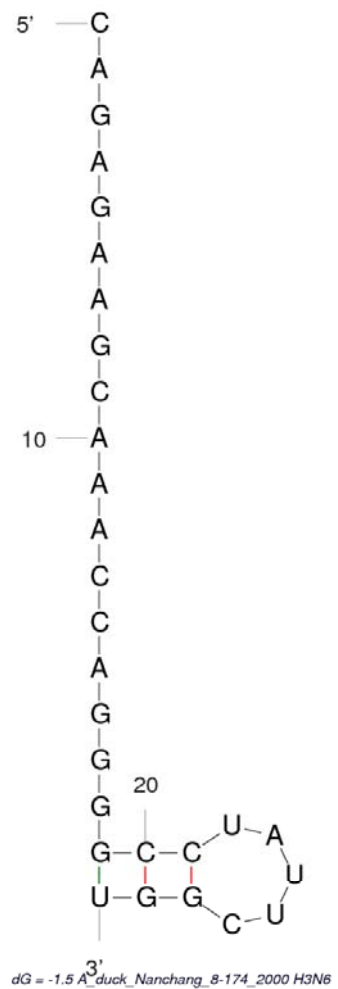
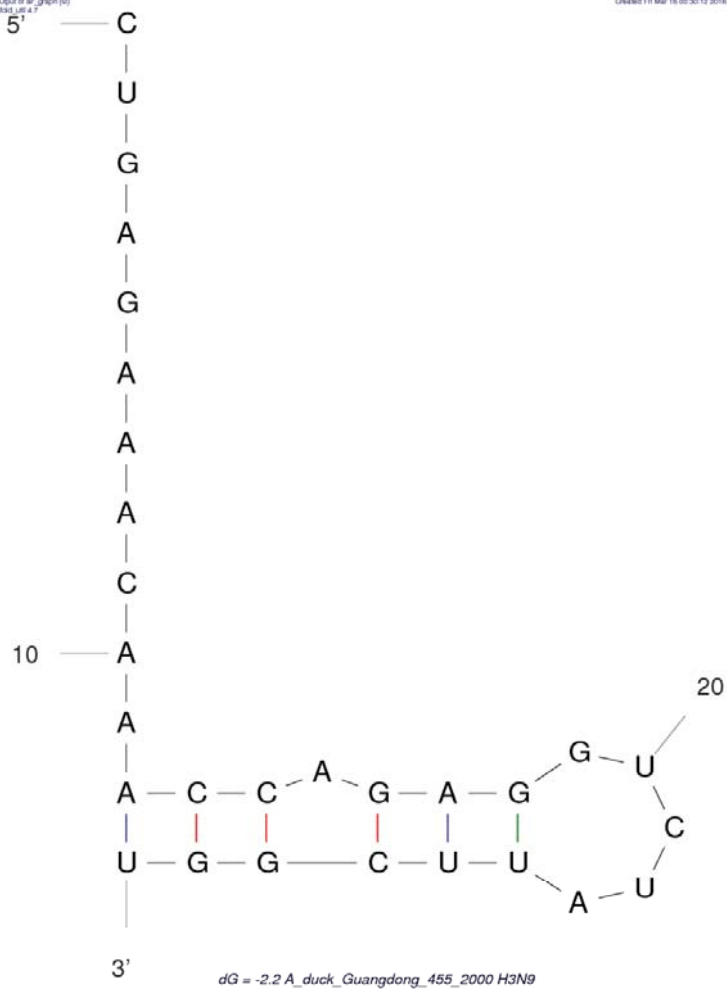
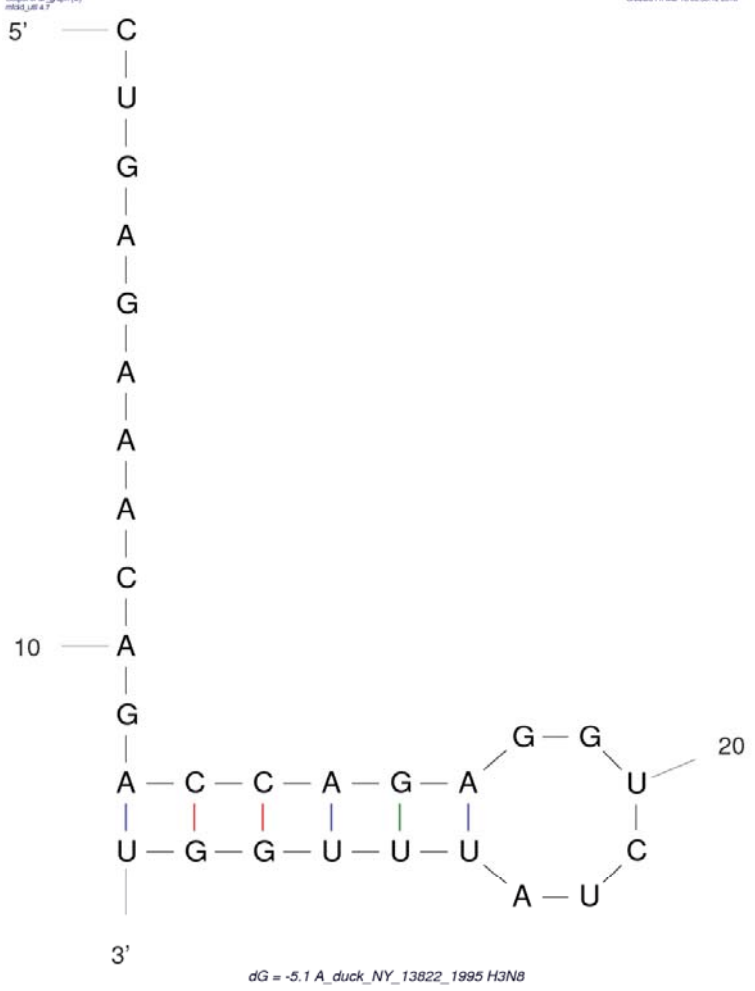
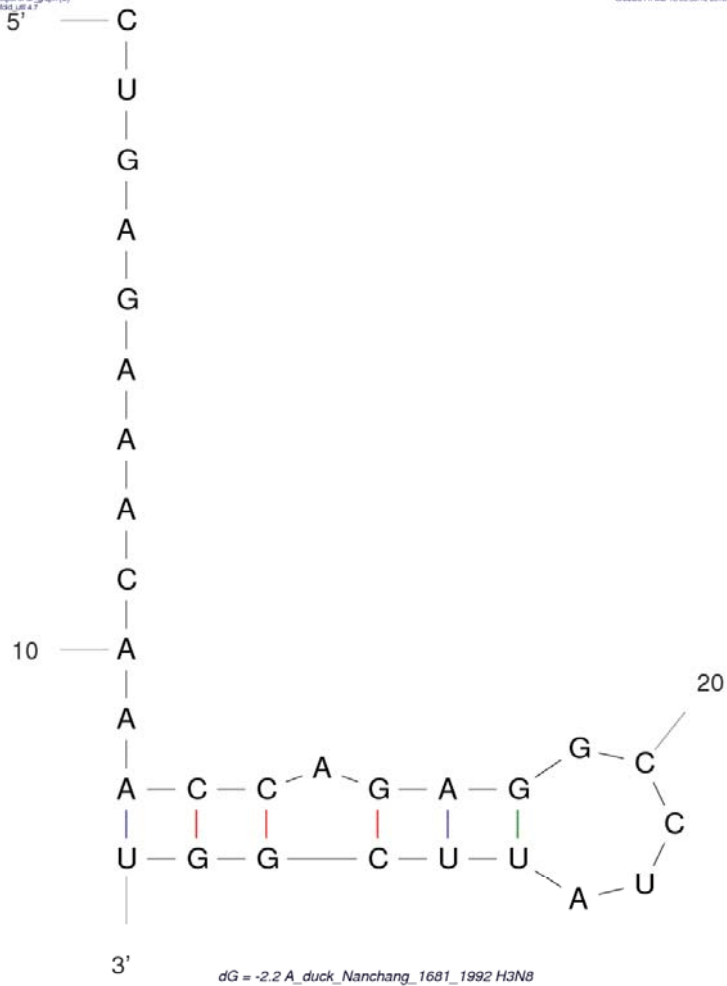
dG = -7.2 A_duck_New Zealand_38_1984 H3N8

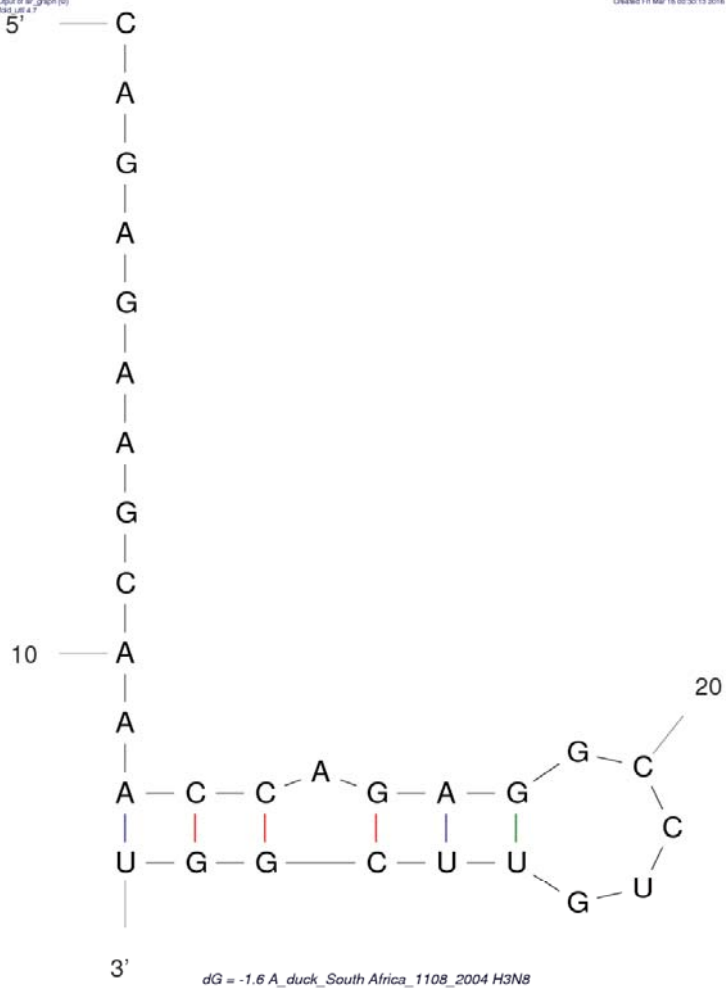
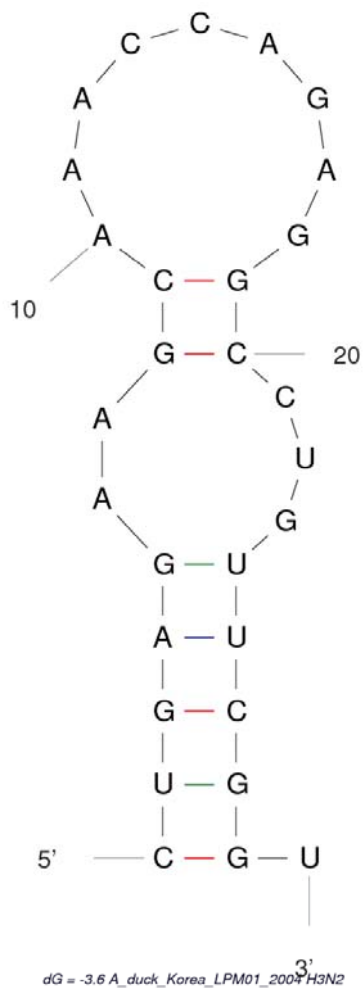
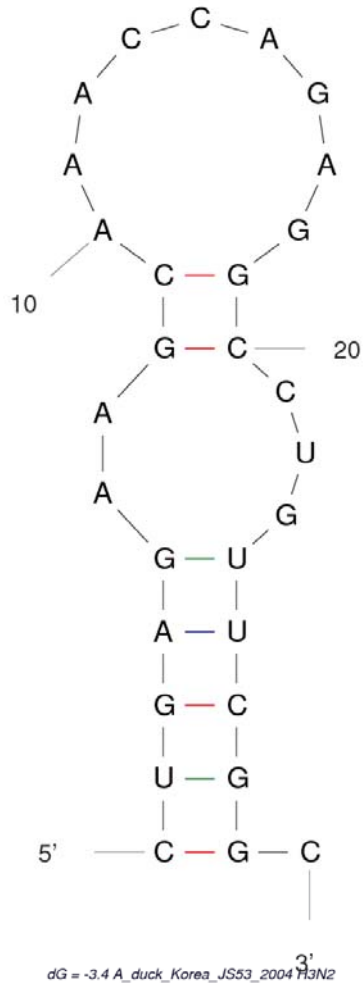
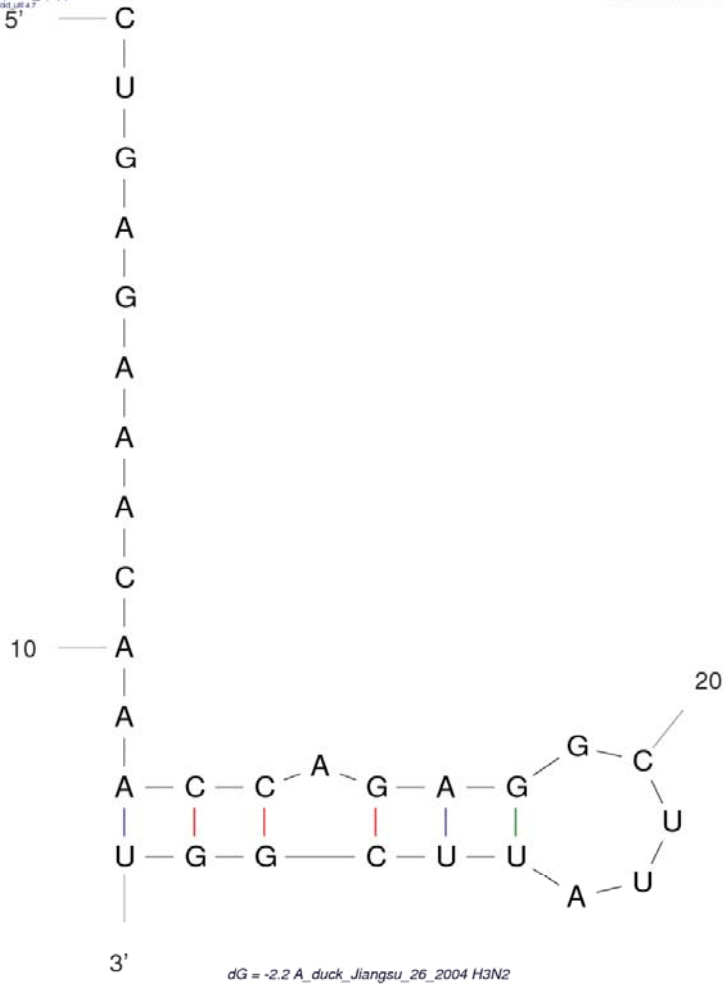


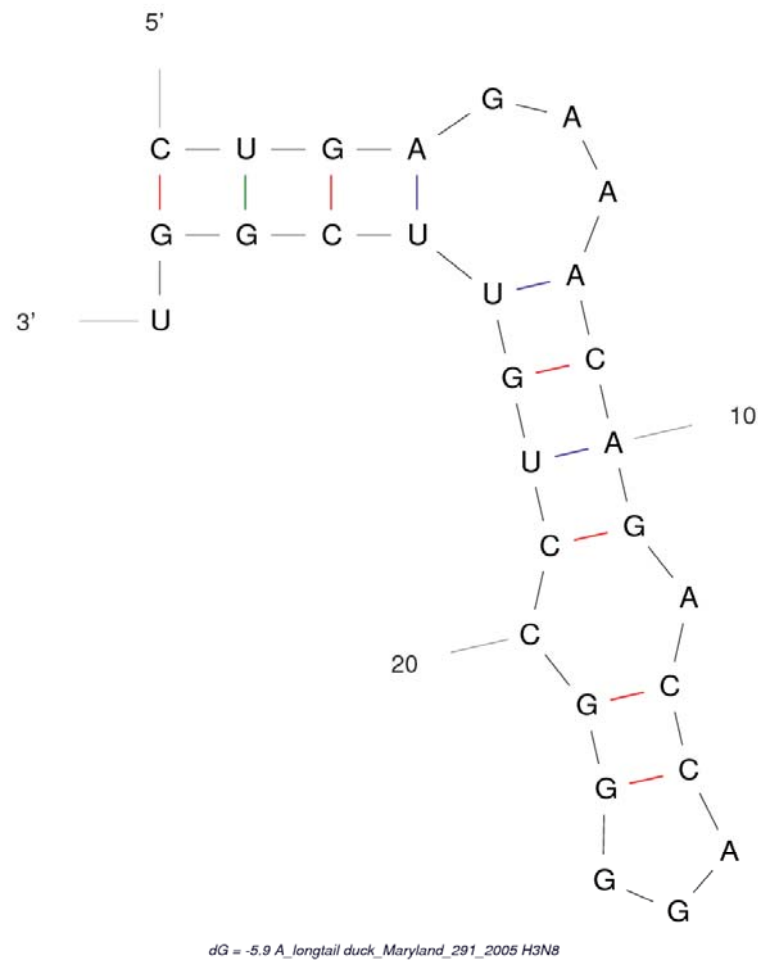
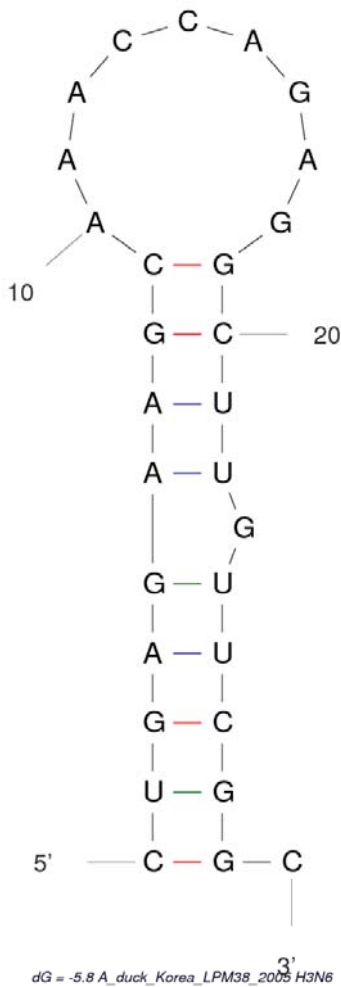
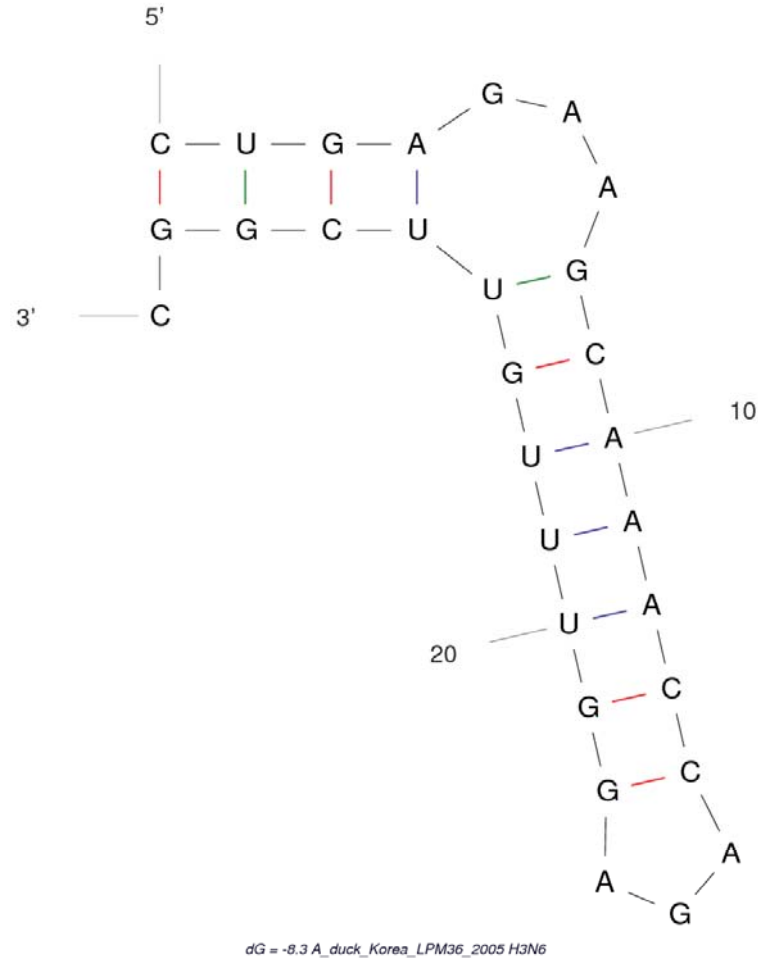
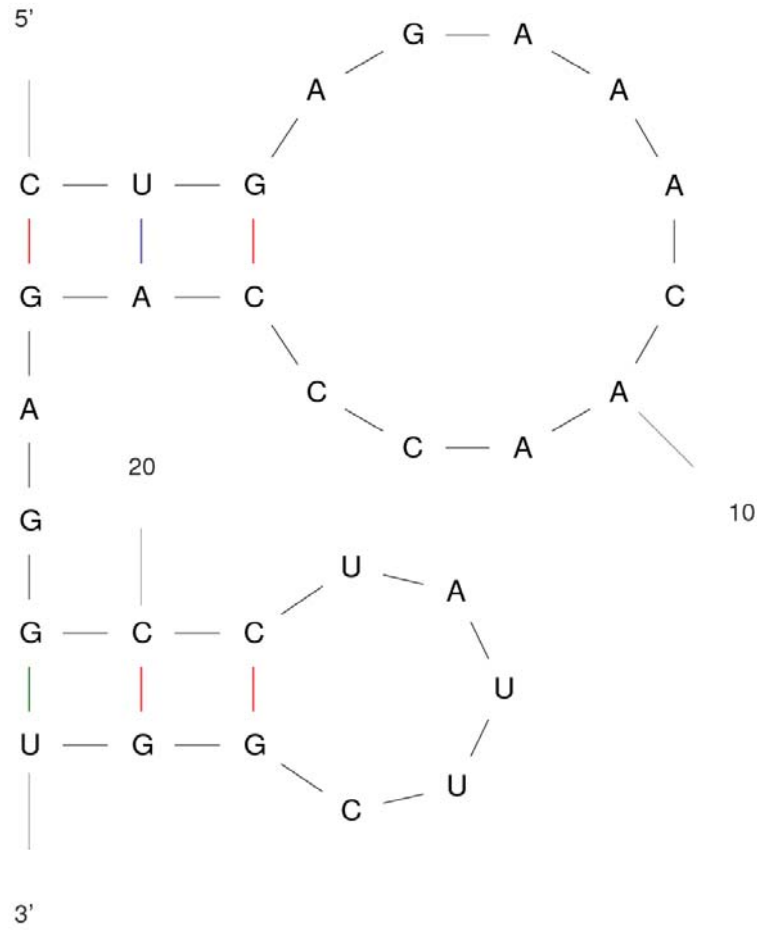
dG = -1.5 A_duck_Hokkaido_10_1985 H3N8

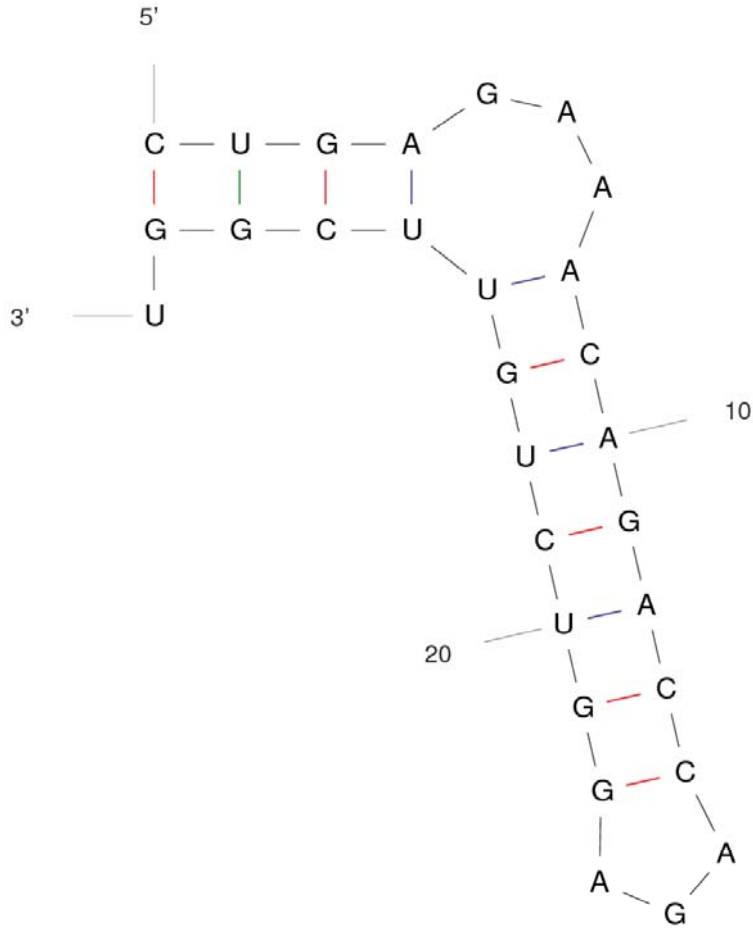


dG = -2.9 A_duck_LA_17G_1987 H3N8

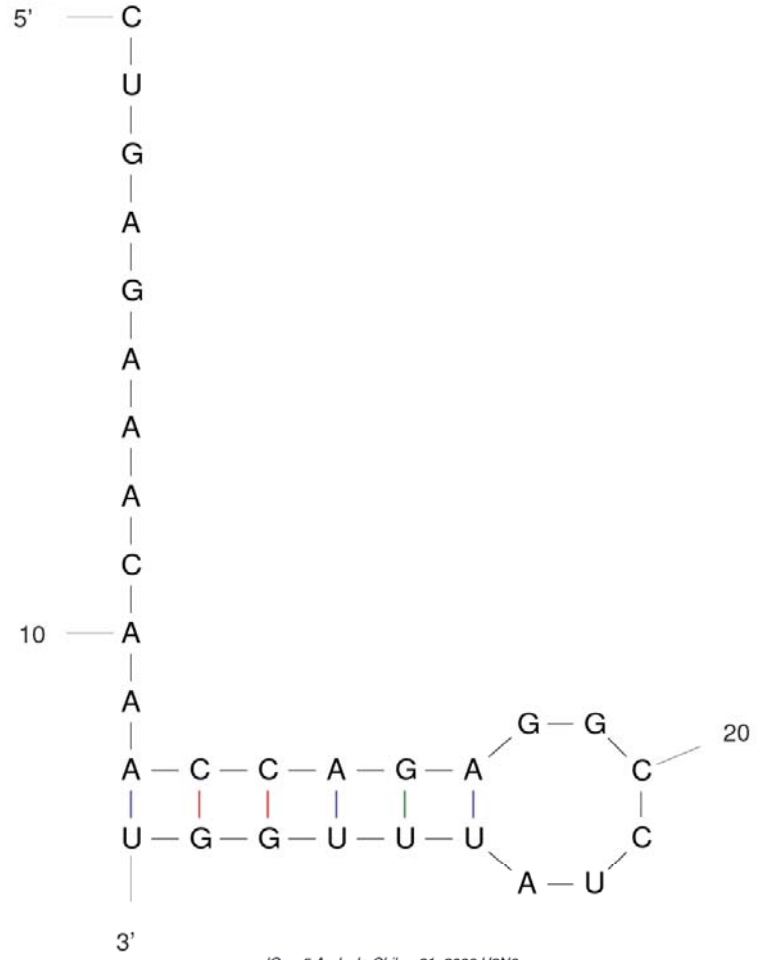




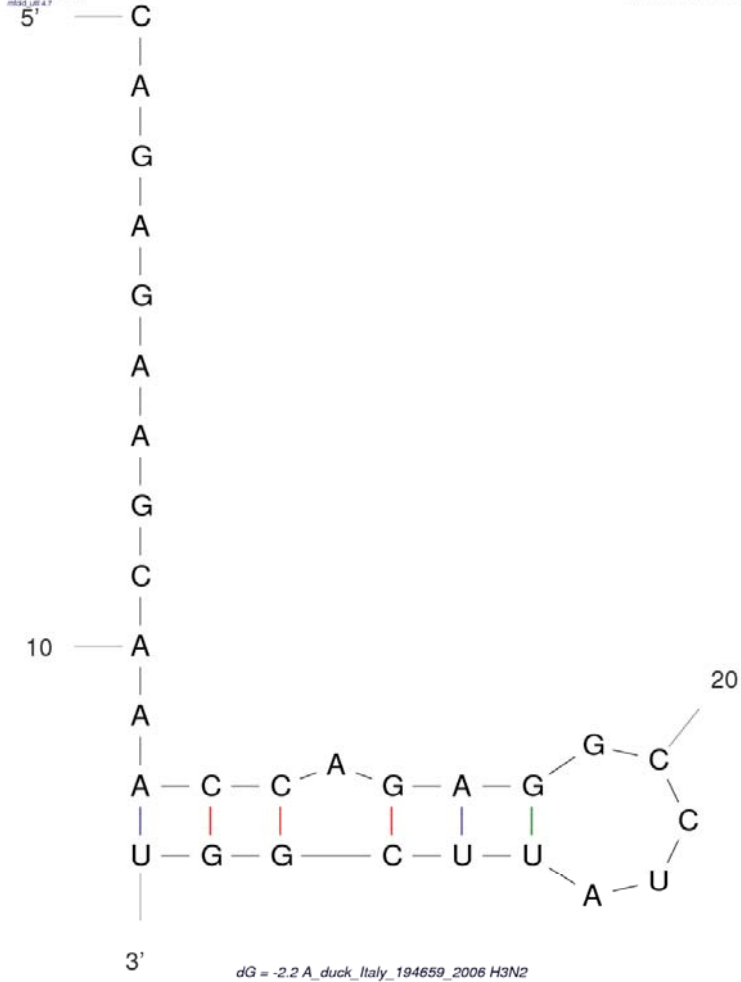




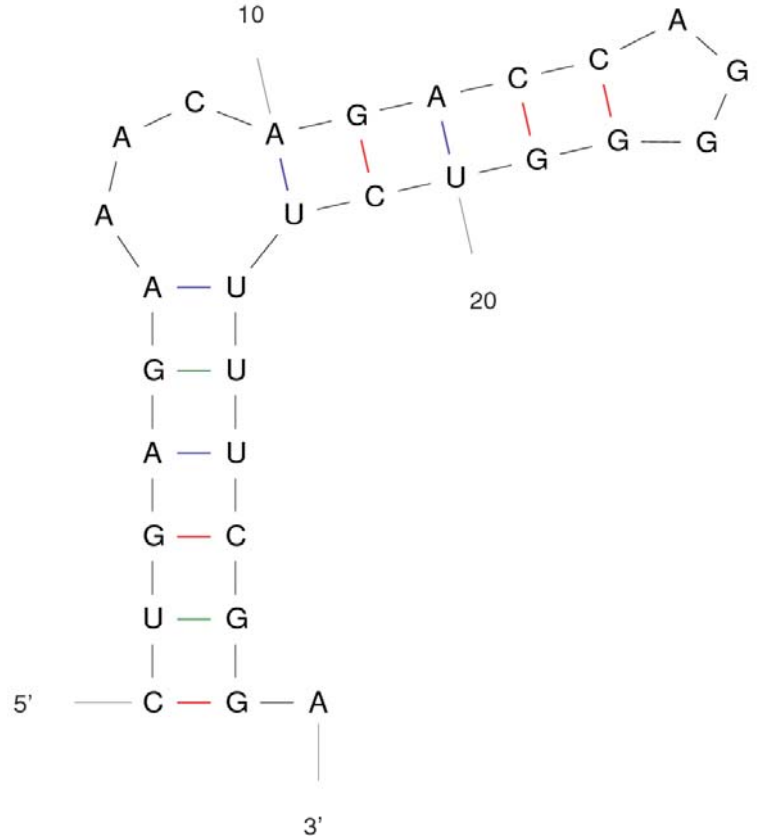
dG = -10.9 A_American black duck_Quebec_11235_2006 H3N2



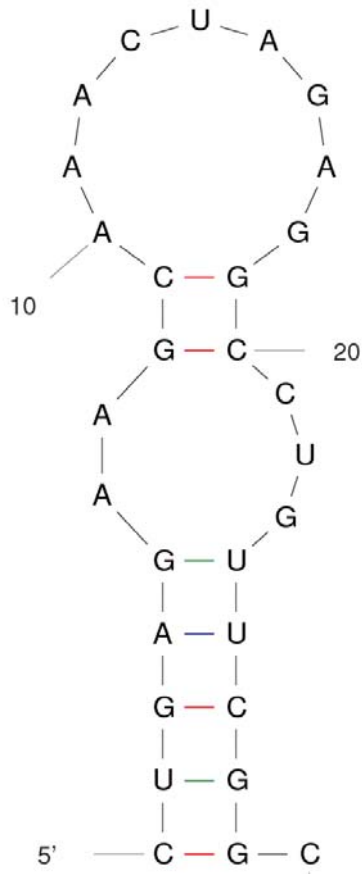
dG = -5 A_duck_Chiba_31_2006 H3N8



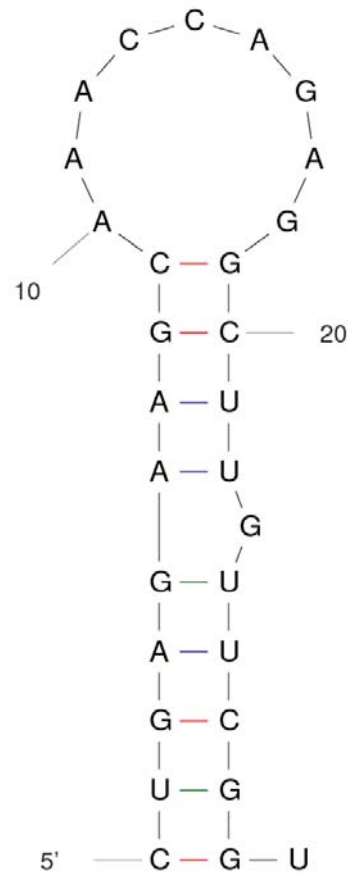
dG = -2.2 A_duck_Italy_194659_2006 H3N2



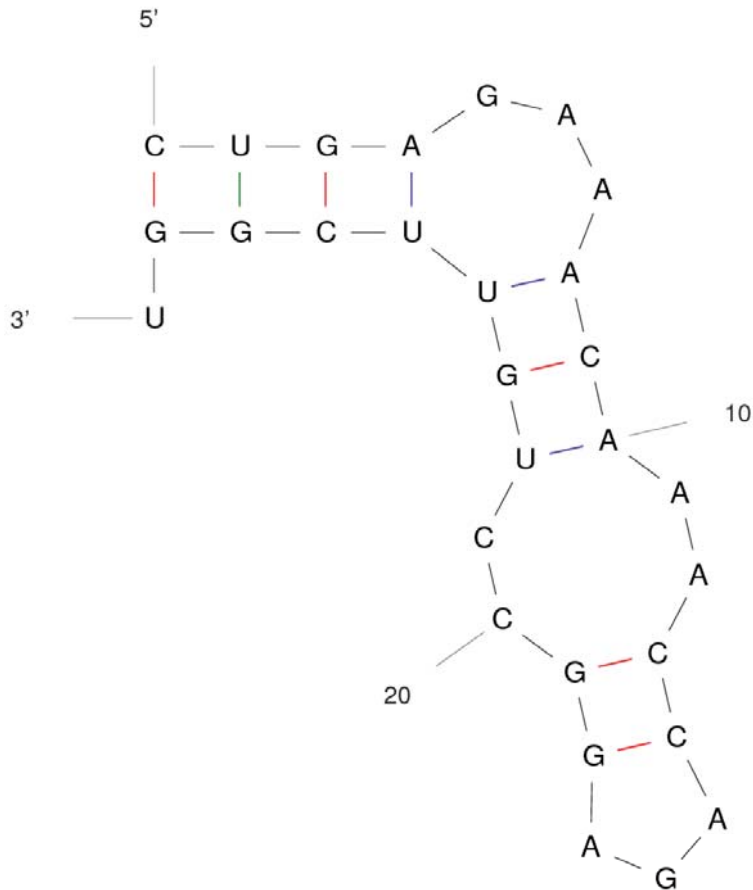
dG = -9 A_American black duck_New Brunswick_02656_2007 H3N8



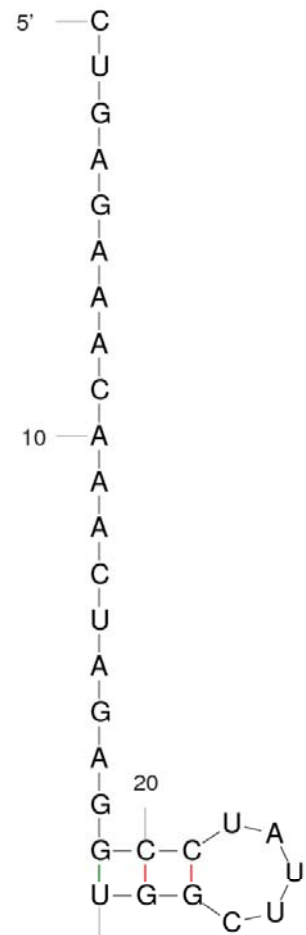
dG = -3.4 A_duck_Korea_HP68_2007 H3N6



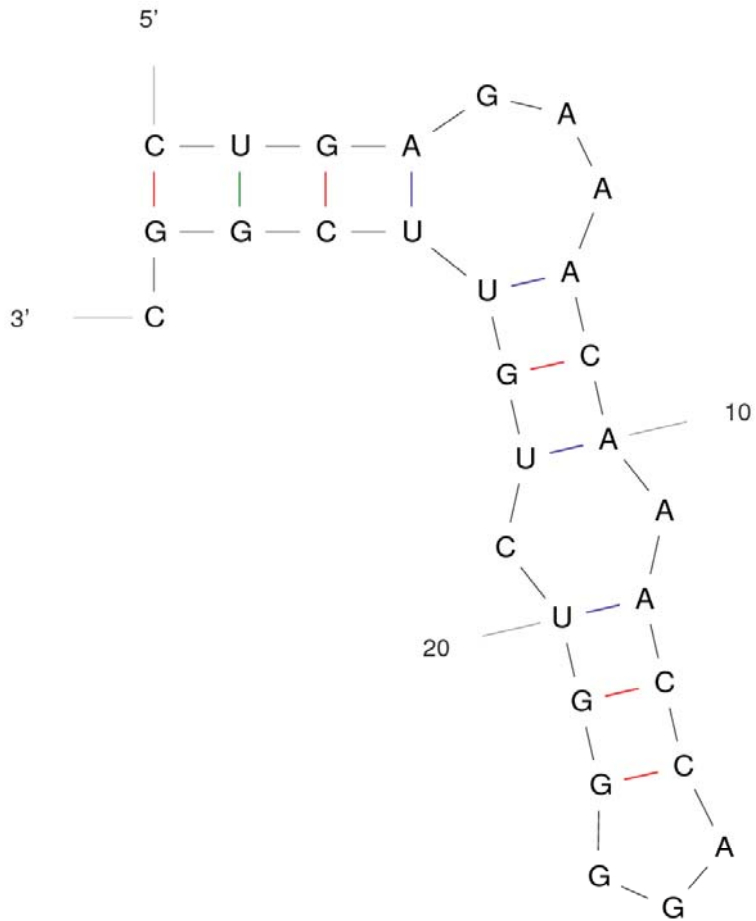
dG = -6 A_duck_Korea_U14-1_2007 H3N2



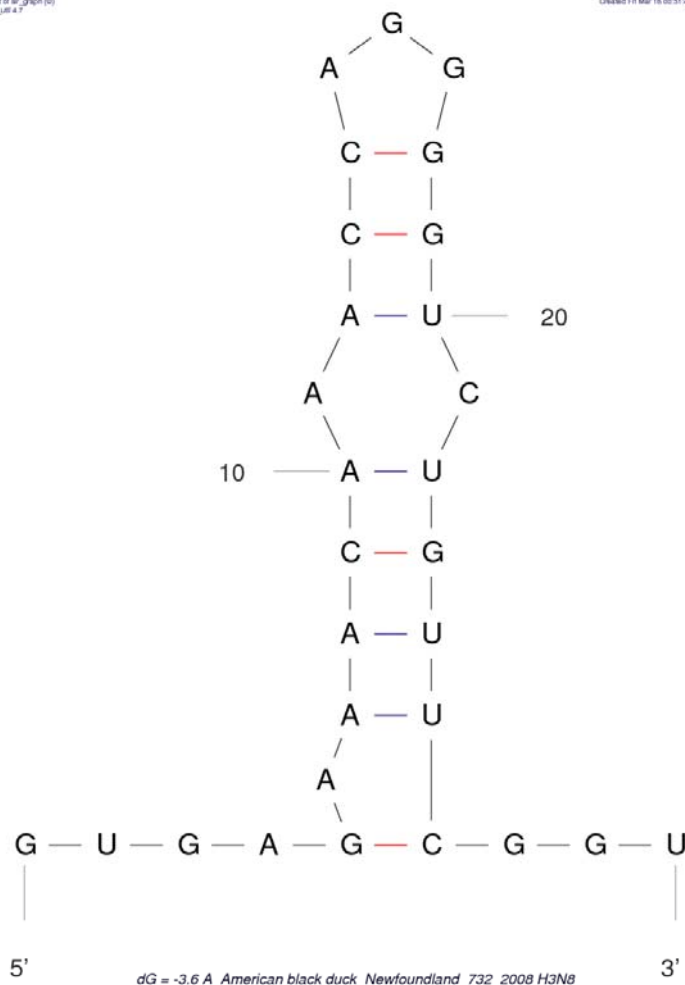
dG = -2.5 A_duck_Korea_U2-5_2007 H3N8



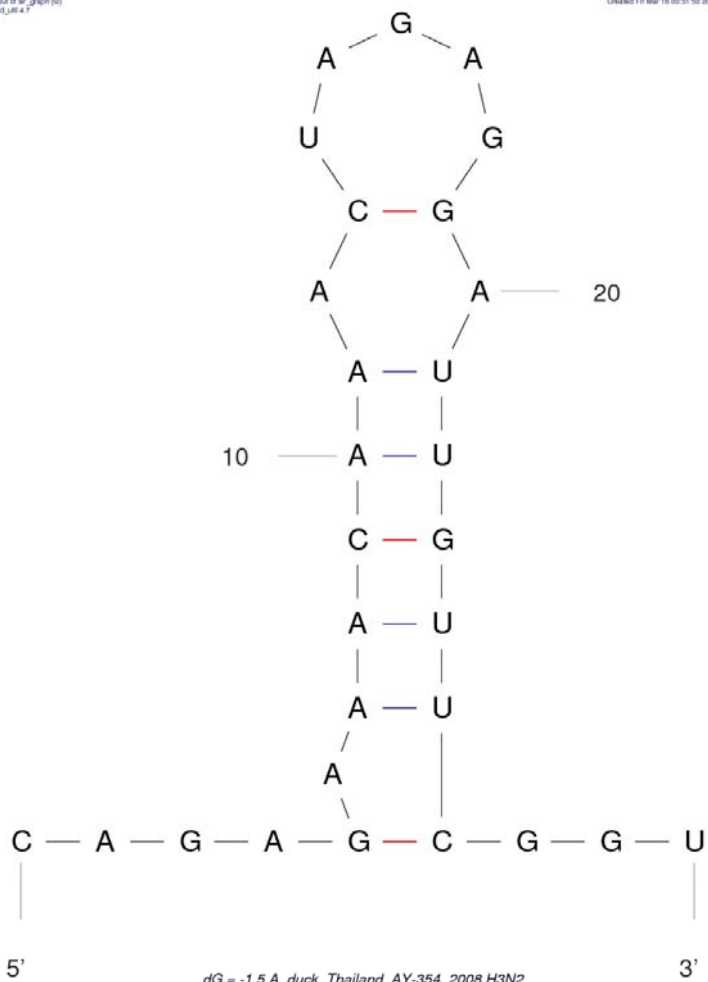
dG = -1.5 A_duck_Korea_U5-2_2007 H3N8



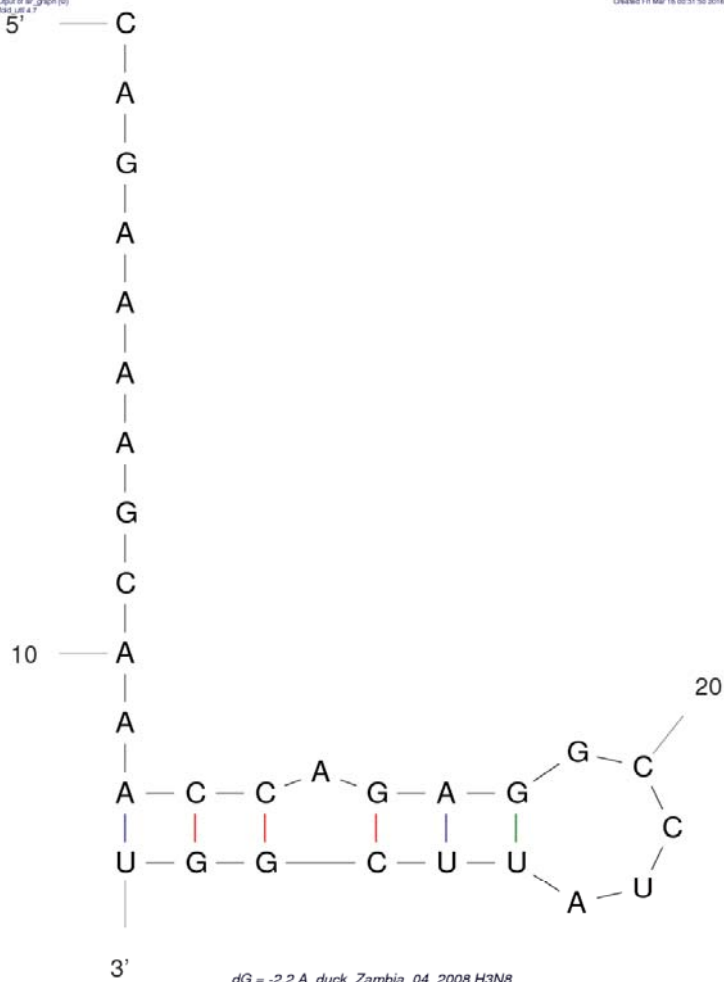
dG = -4.5 A_ring-necked duck_Minnesota_Sg-00066_2007 MixedH3



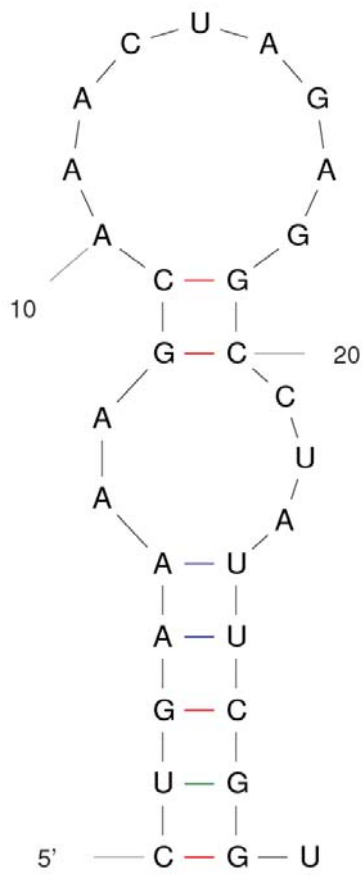
dG = -3.6 A_American black duck_Newfoundland_732_2008 H3N8



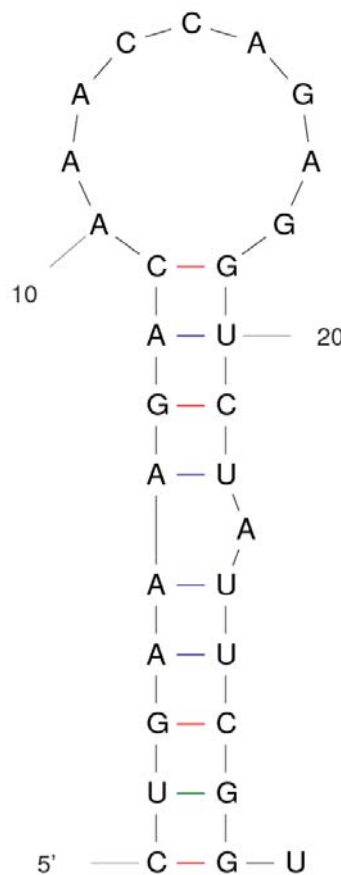
dG = -1.5 A_duck_Thailand_AY-354_2008 H3N2



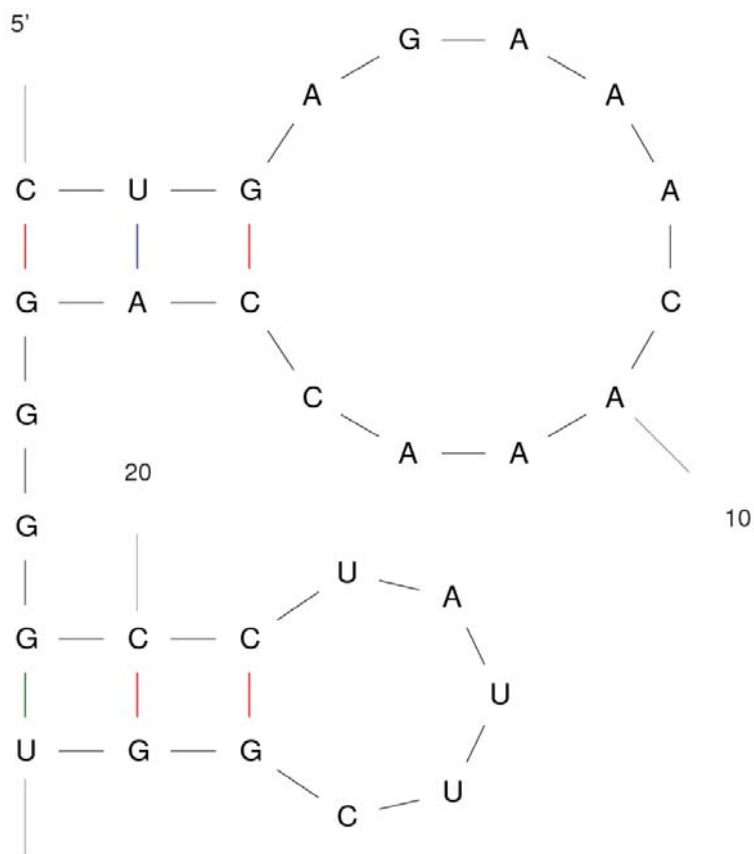
dG = -2.2 A_duck_Zambia_04_2008 H3N8



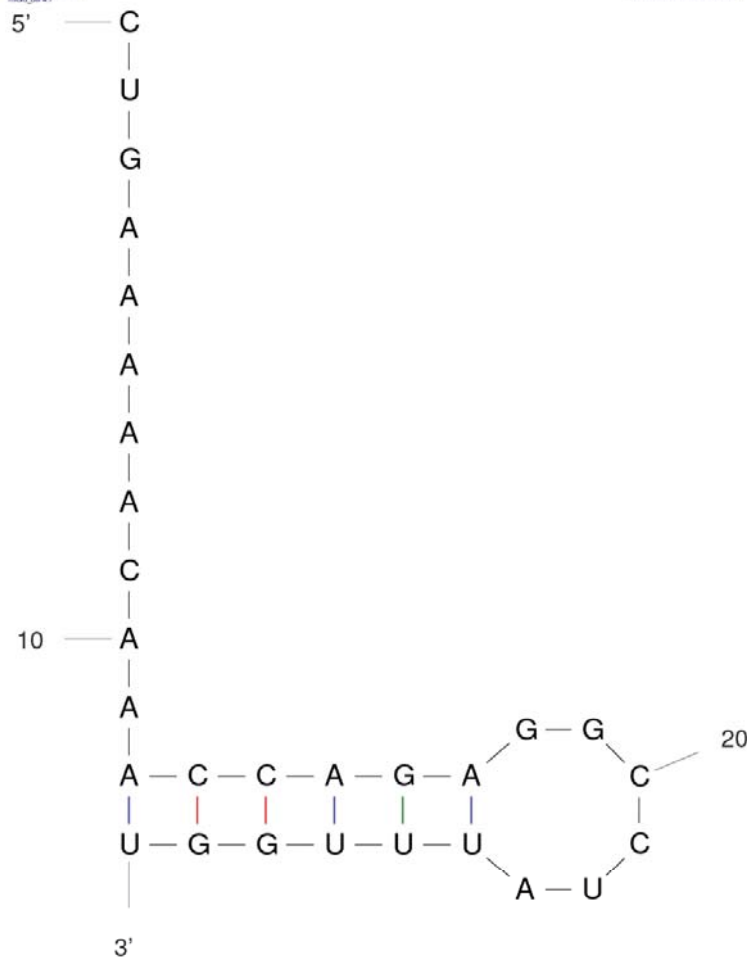
dG = -2.8 A_duck_Jiangxi_3779_2009 mixedH3



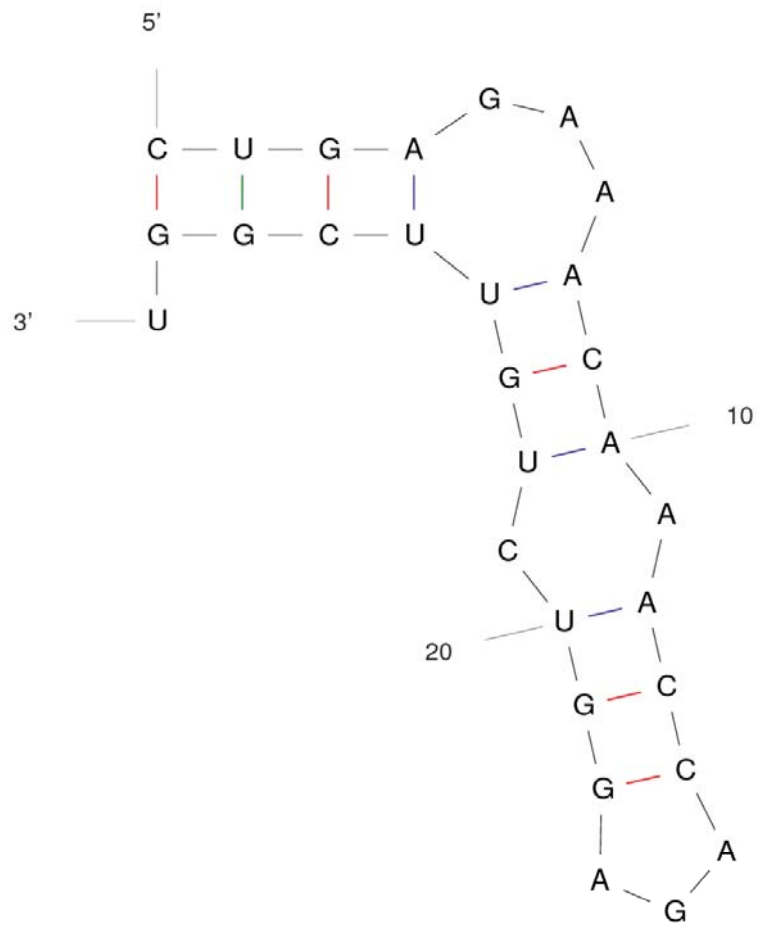
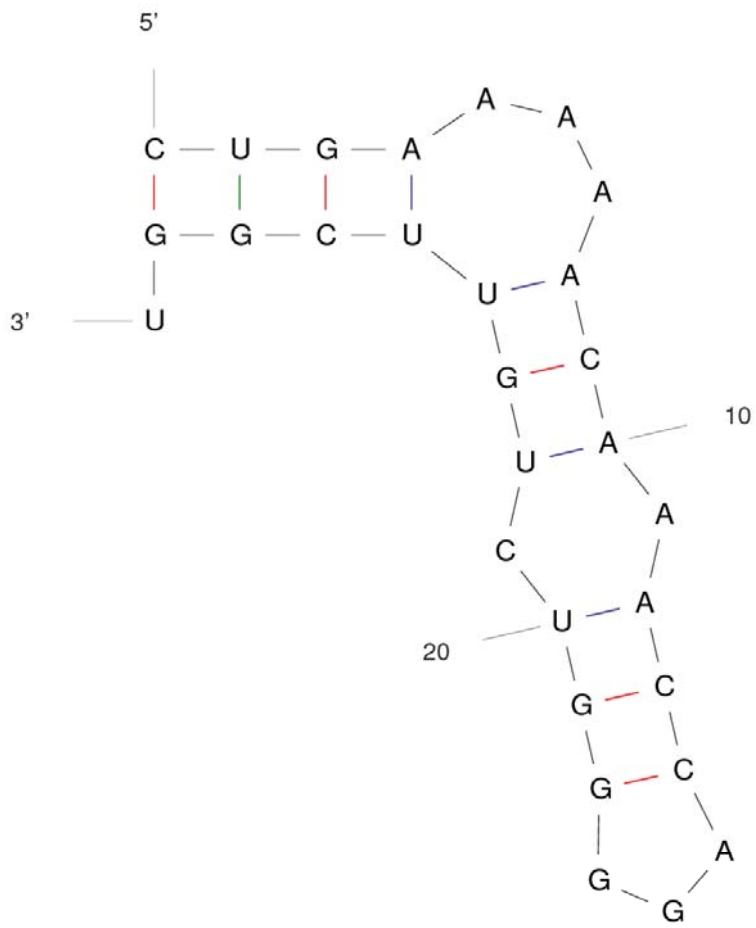
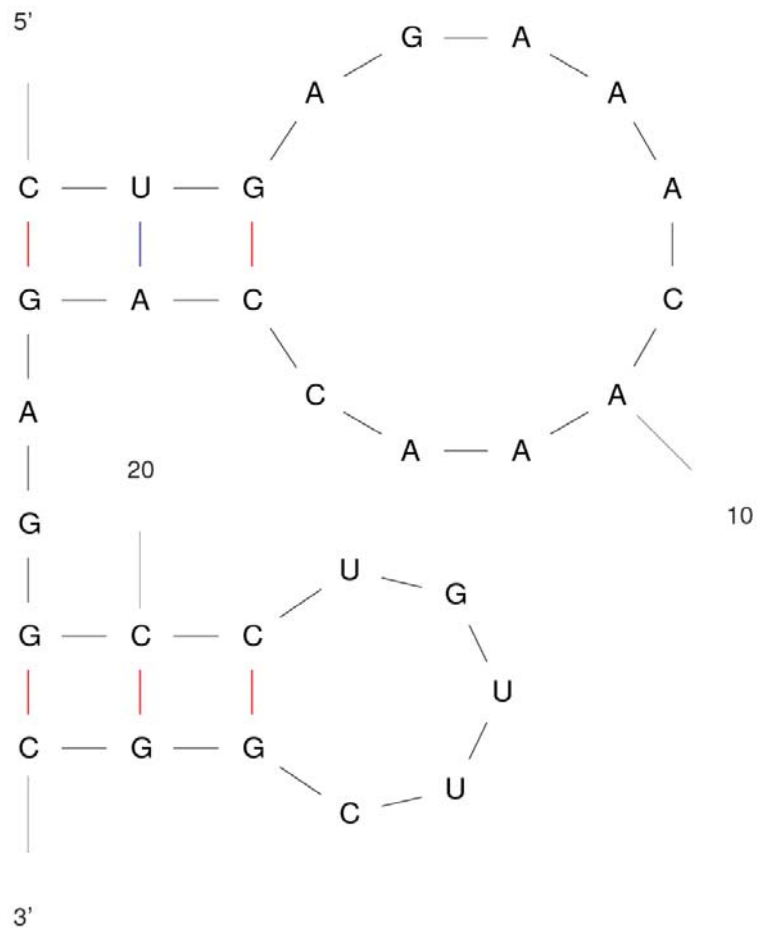
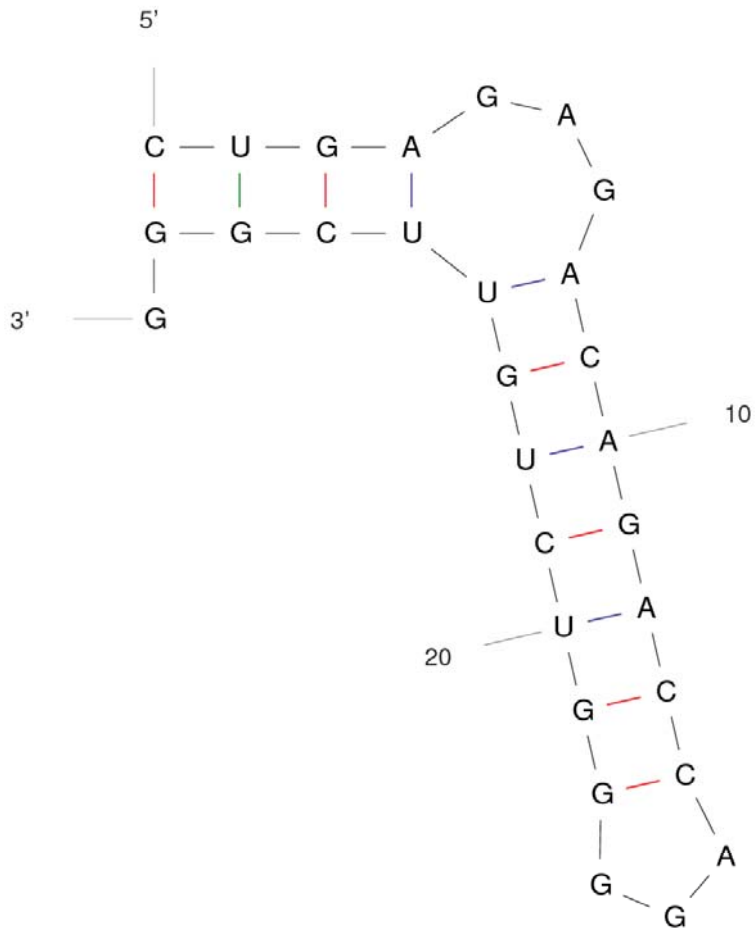
dG = -6.2 A_duck_Shanghai_C84_2009 H3N2

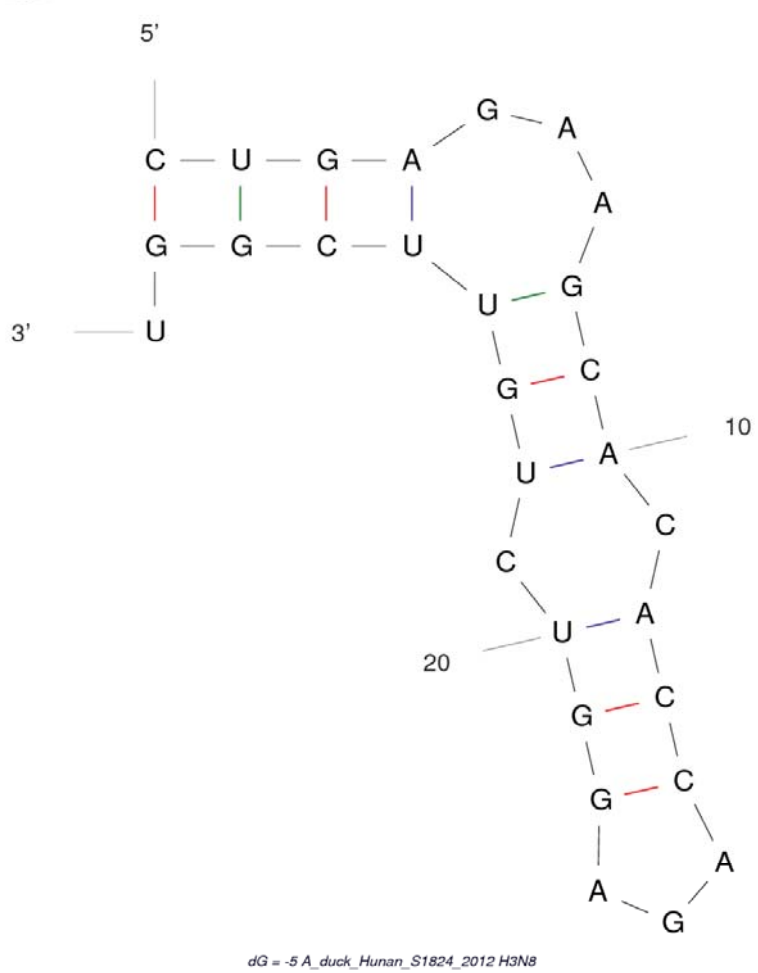
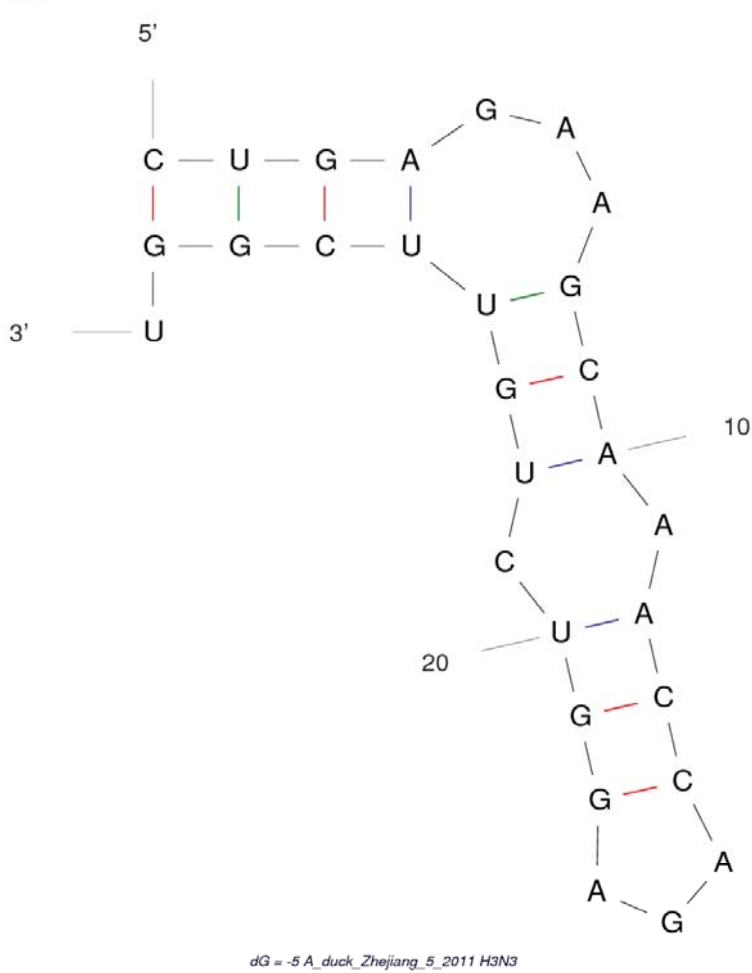
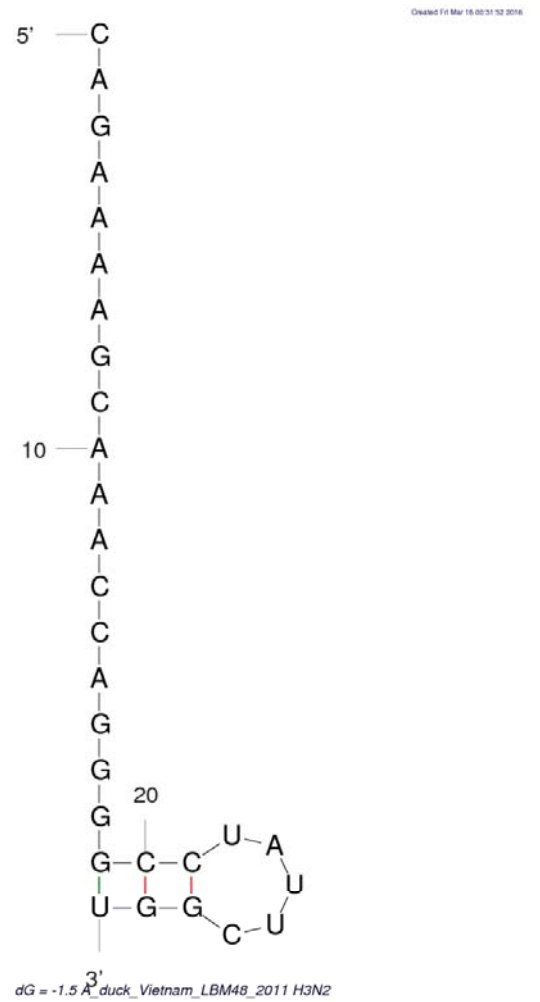
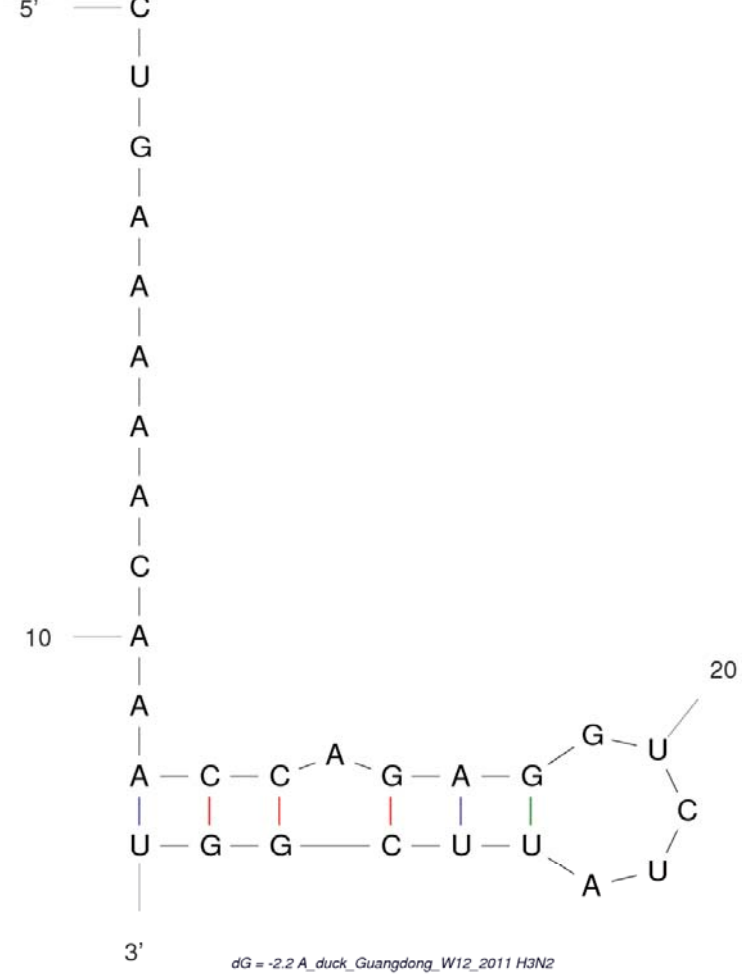


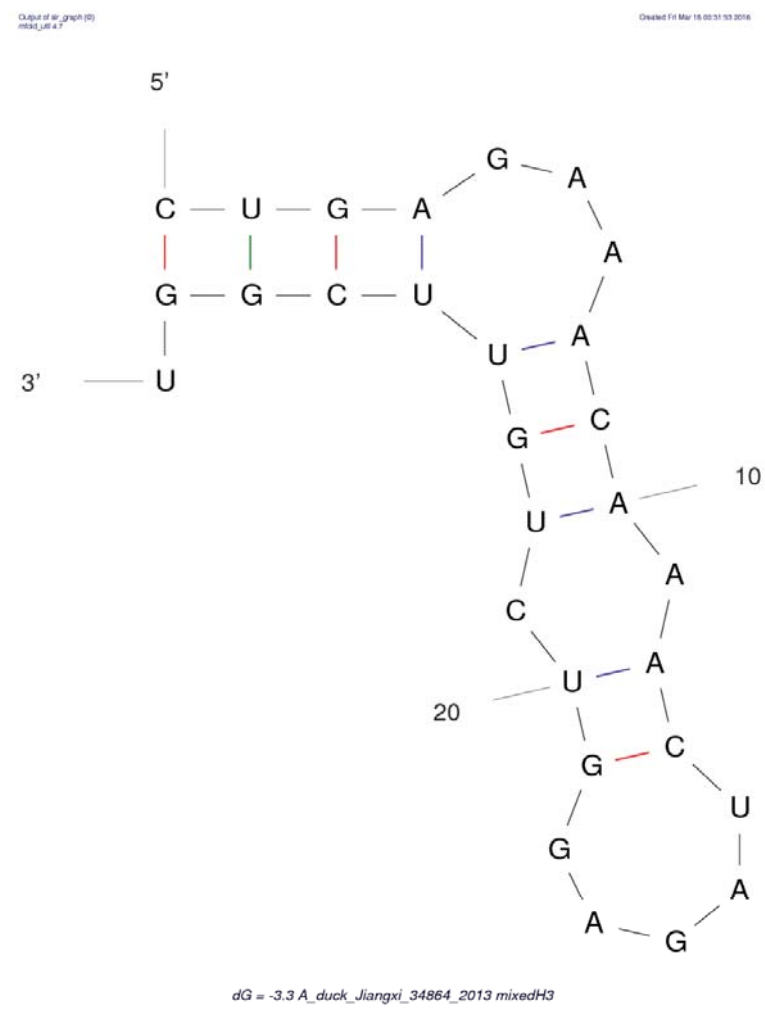
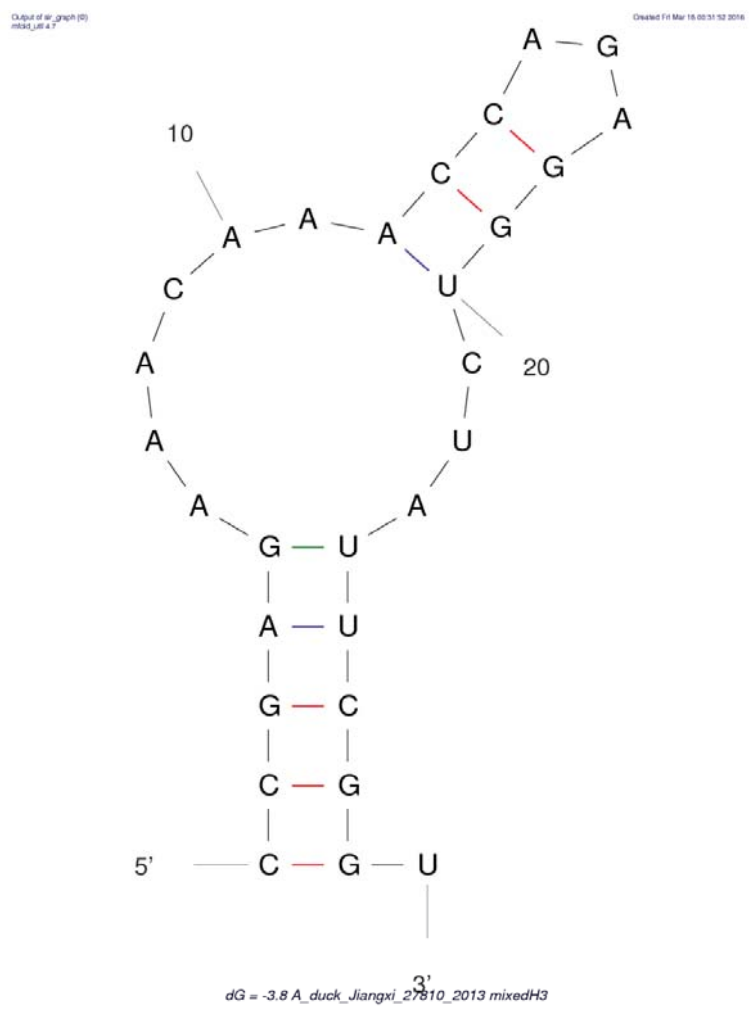
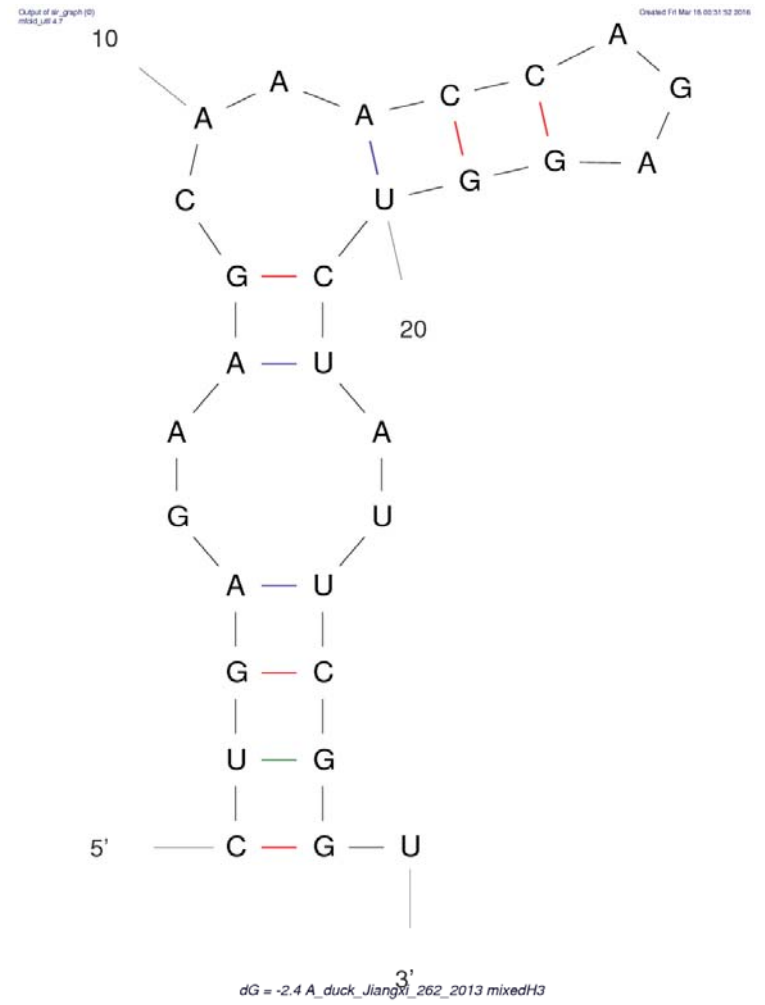
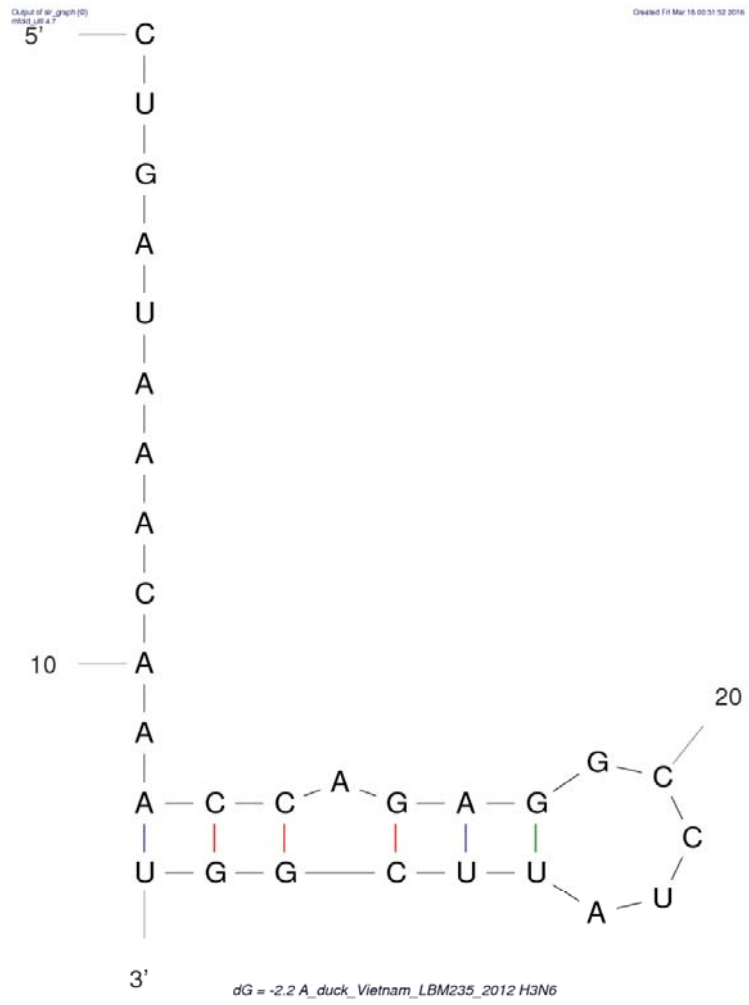
dG = -2 A_duck_Vietnam_OIE-2382_2009 H3N2

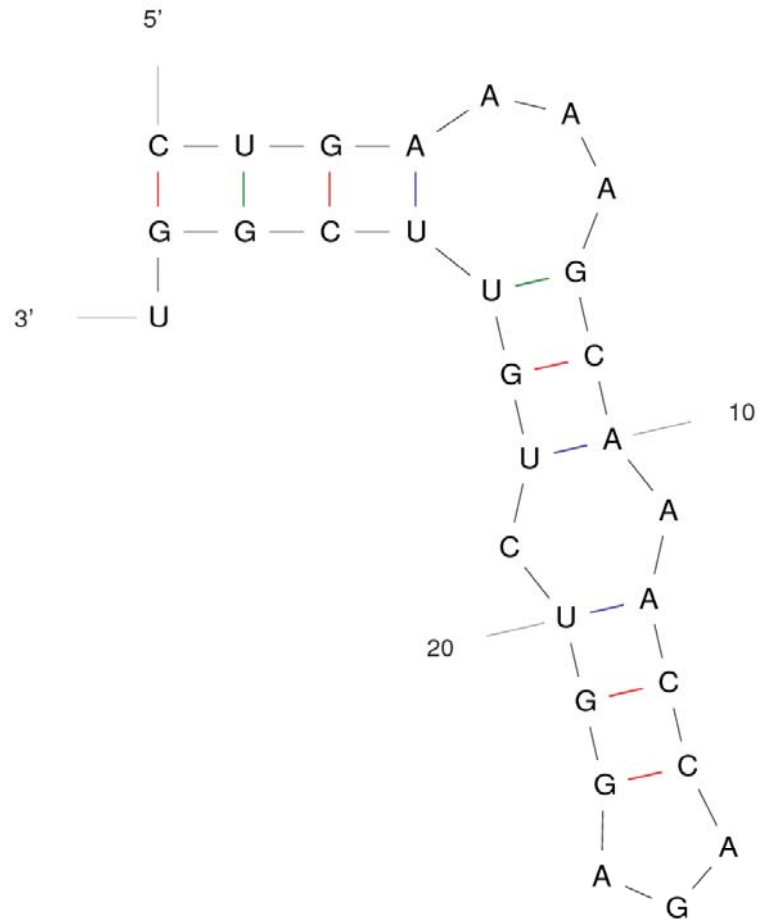


dG = -5 A_duck_Vietnam_OIE-2403_2009 H3N8

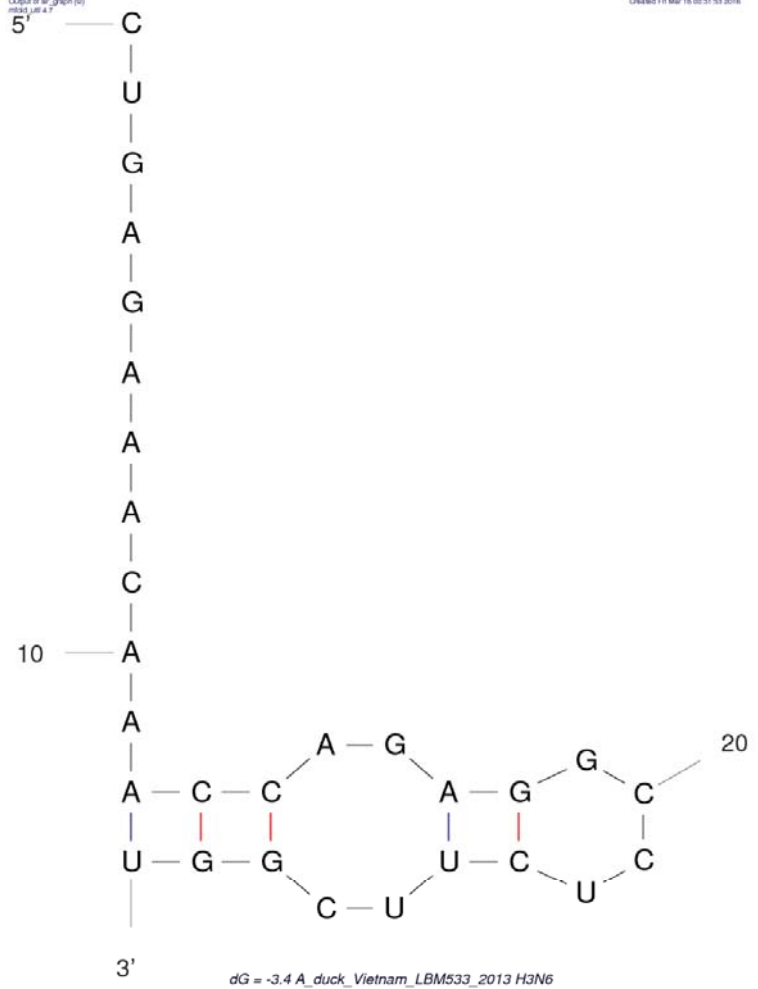




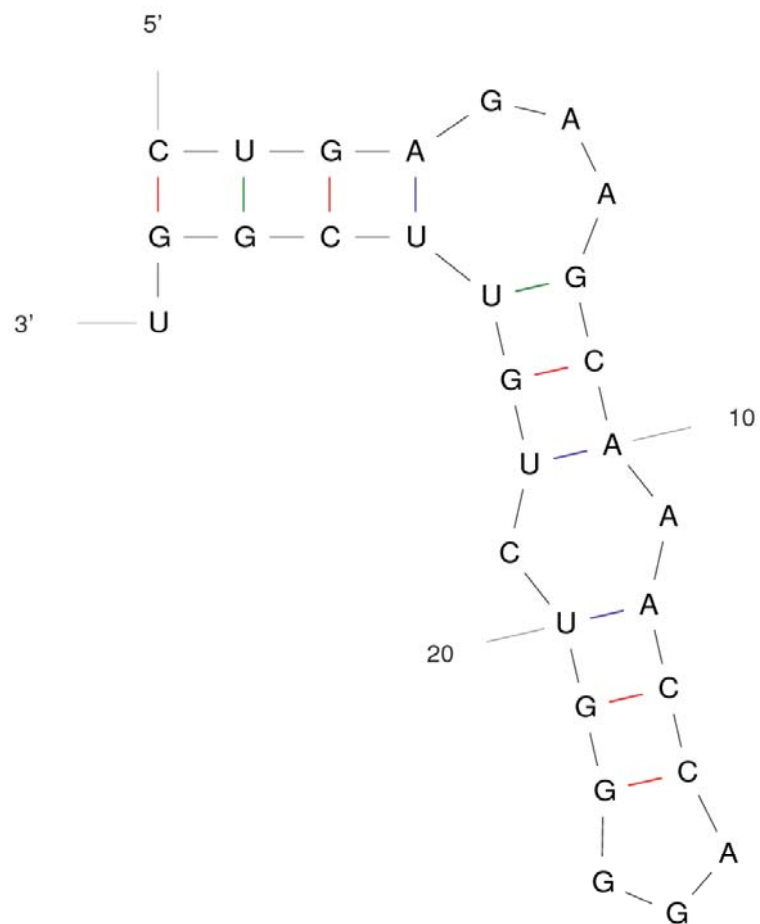




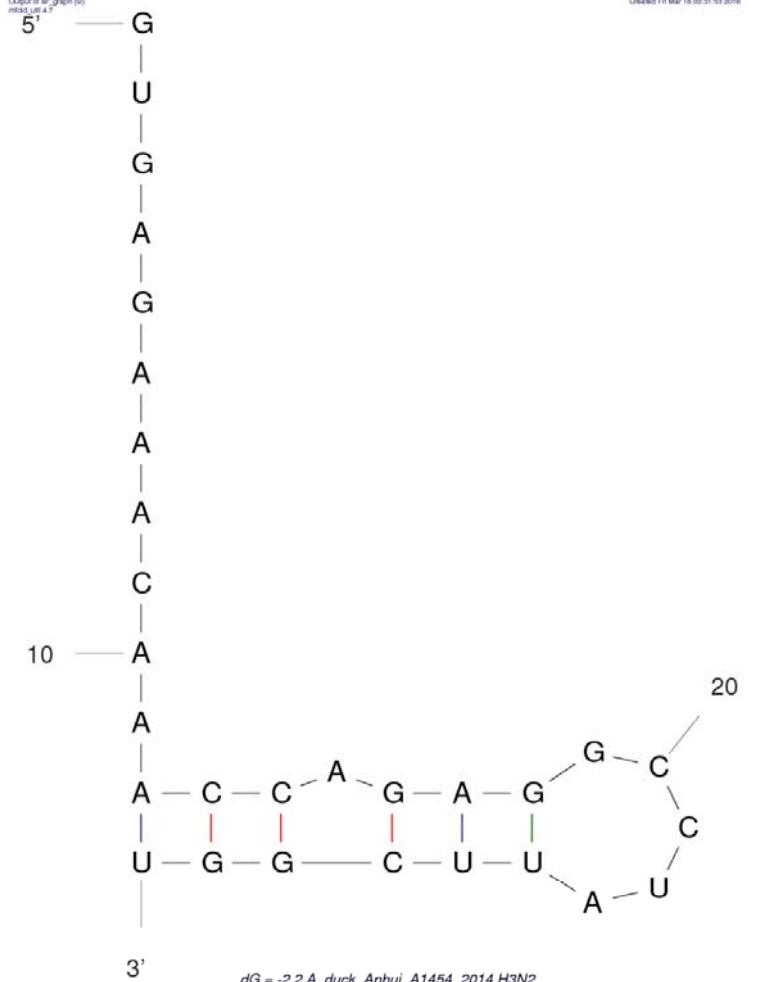
dG = -5 A_duck_Shanghai_SH1_2013 H3N2



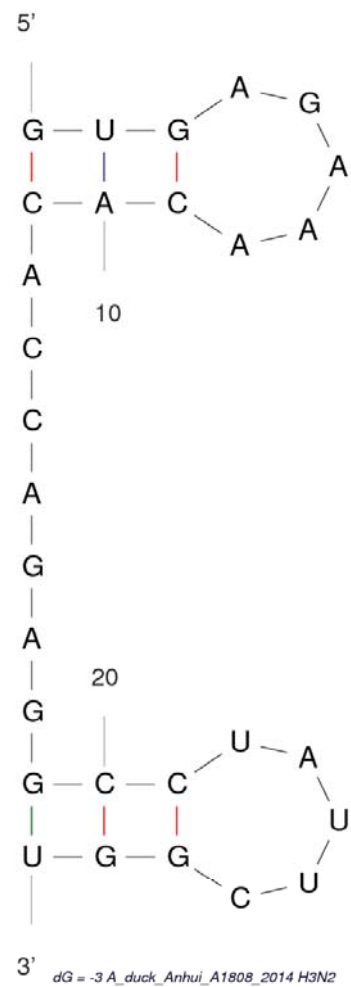
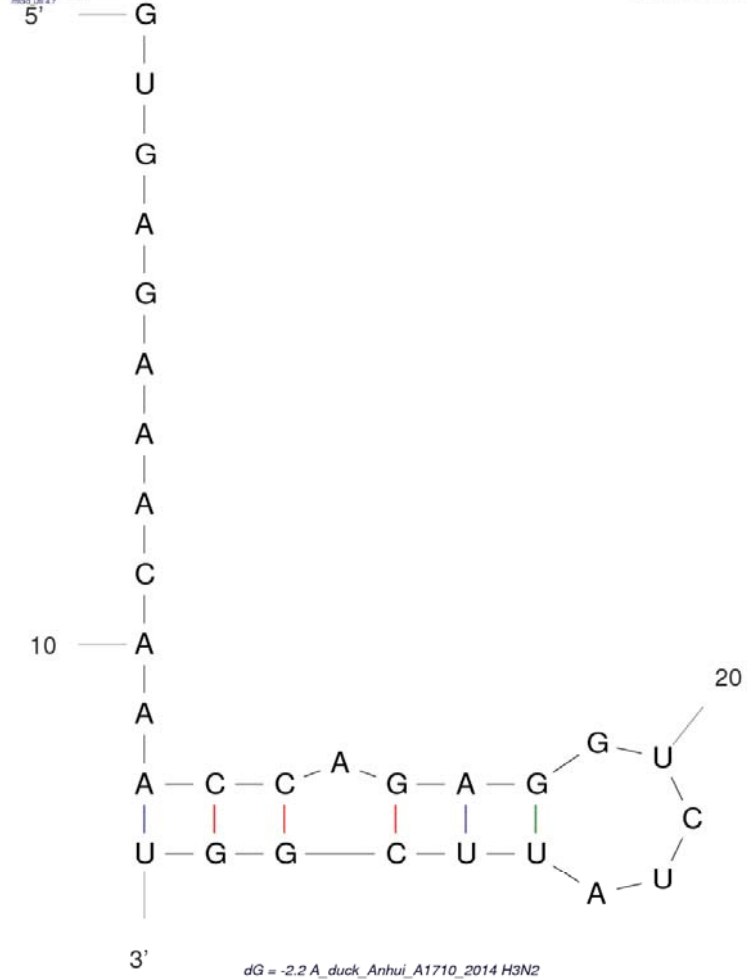
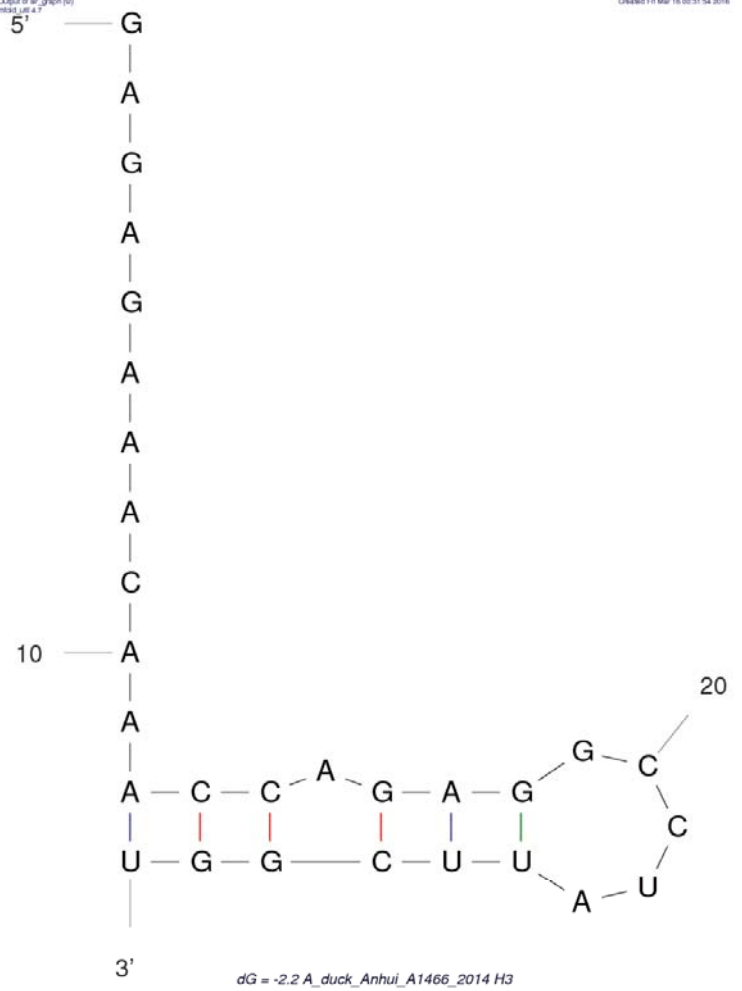
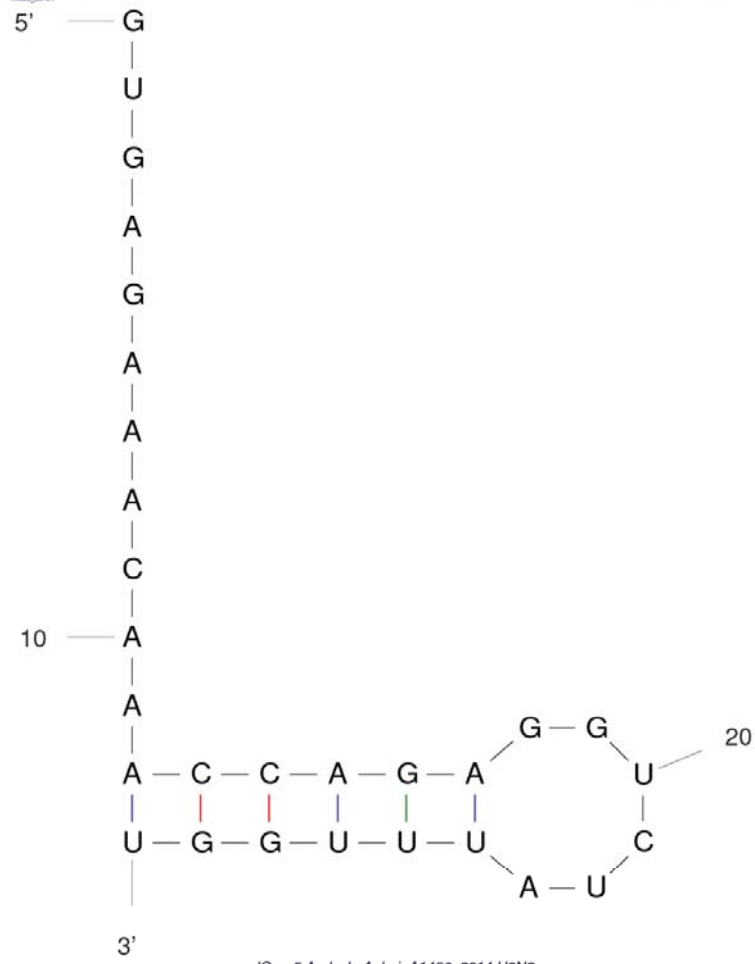
dG = -3.4 A_duck_Vietnam_LBM533_2013 H3N6

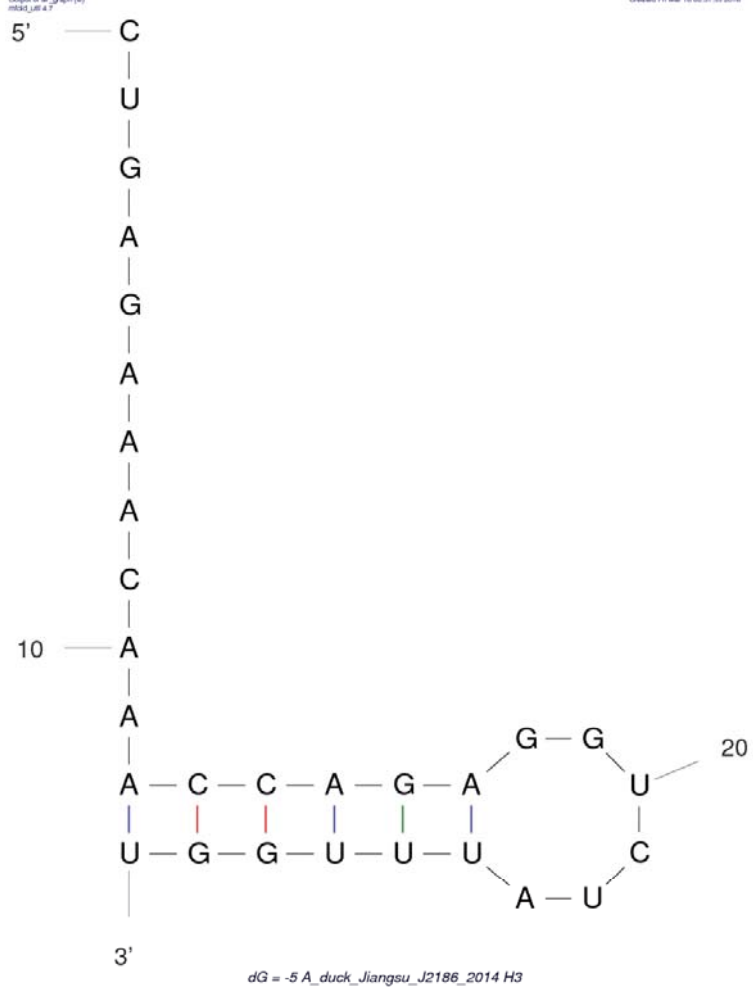
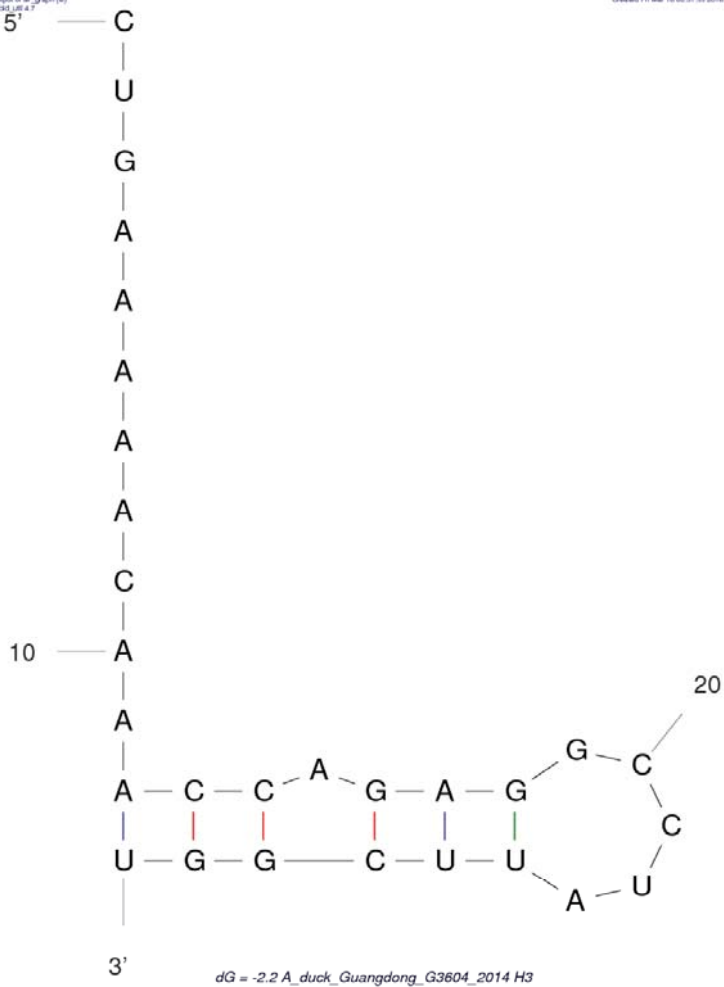
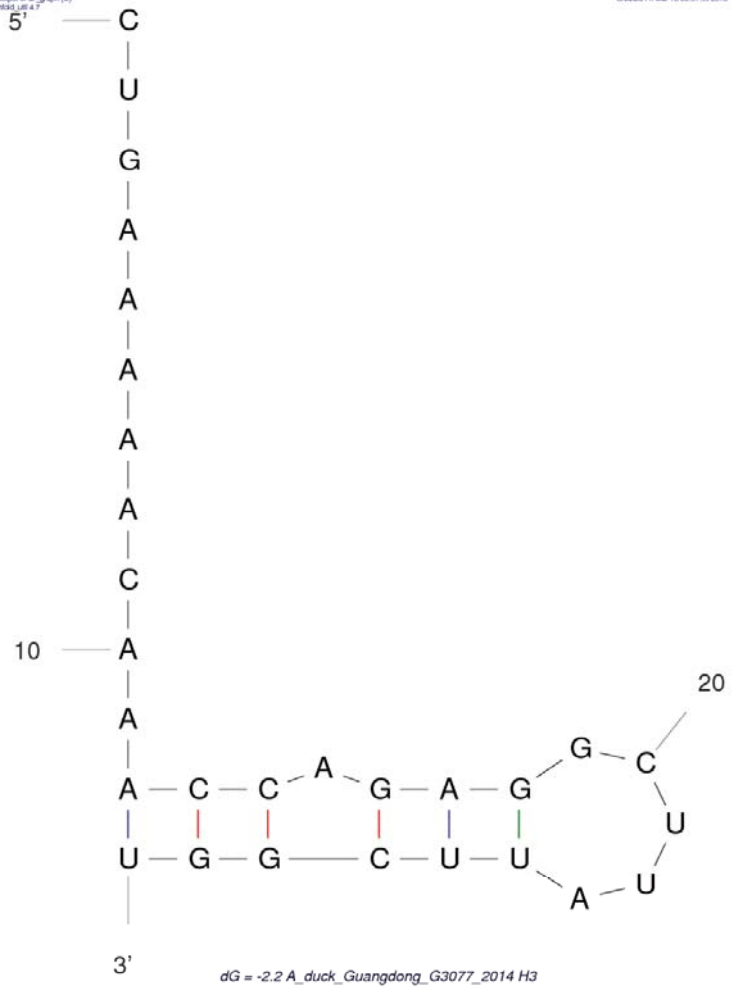
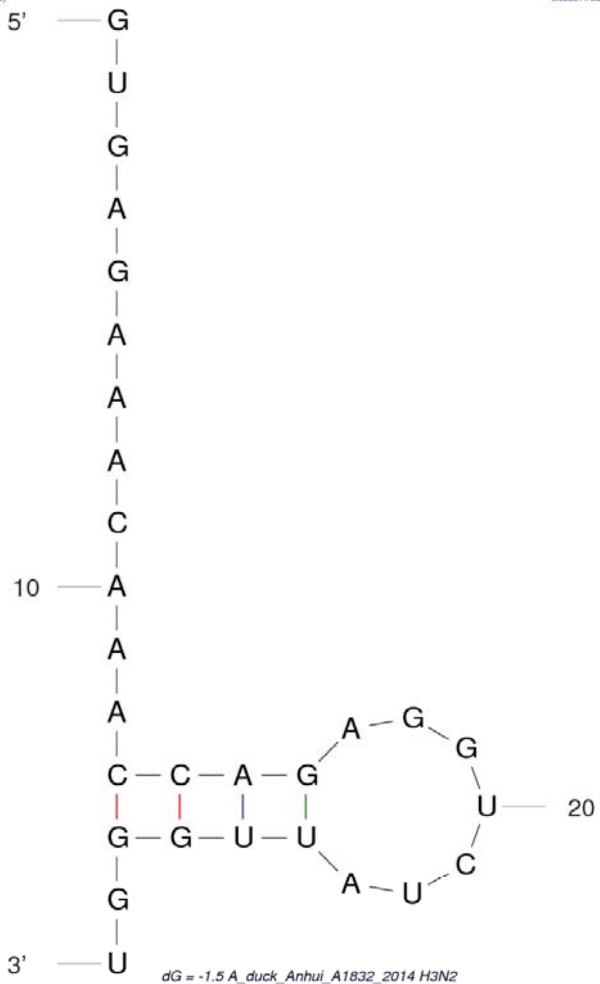


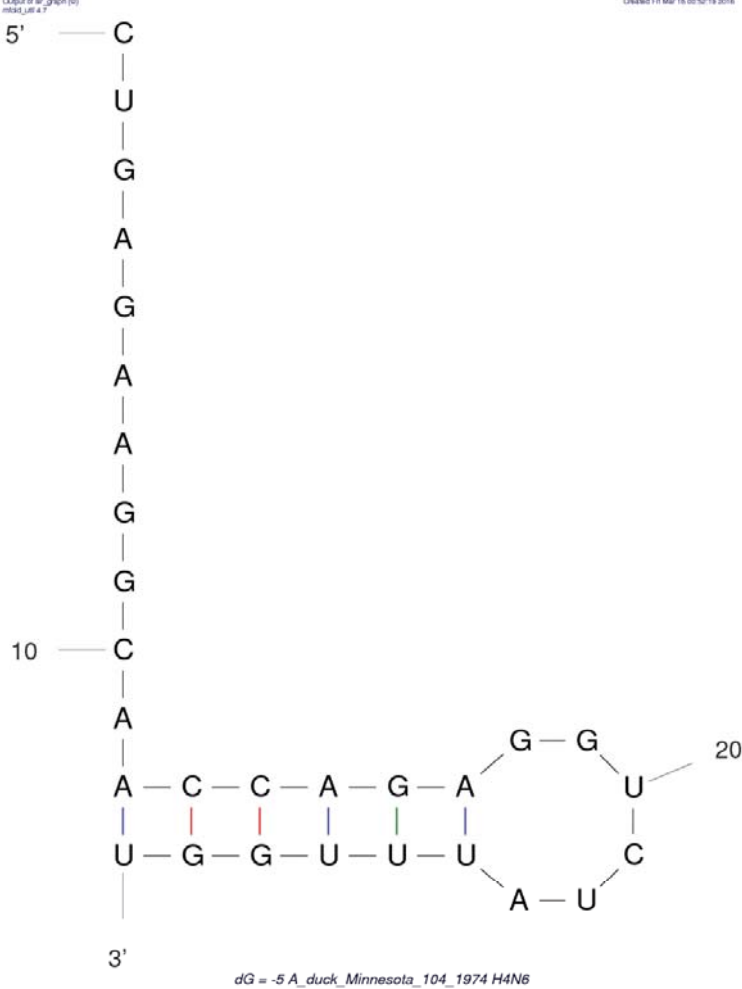
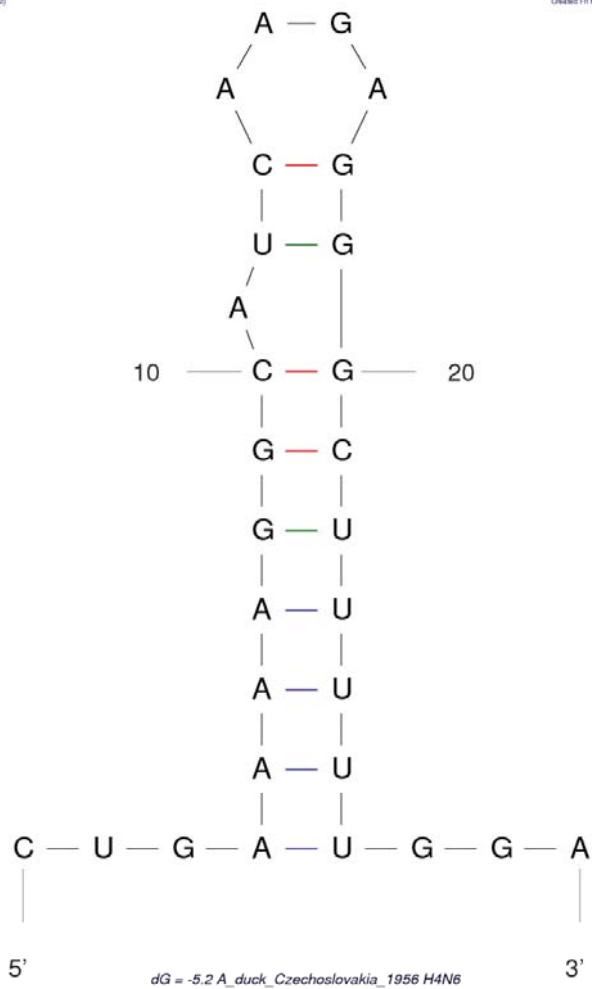
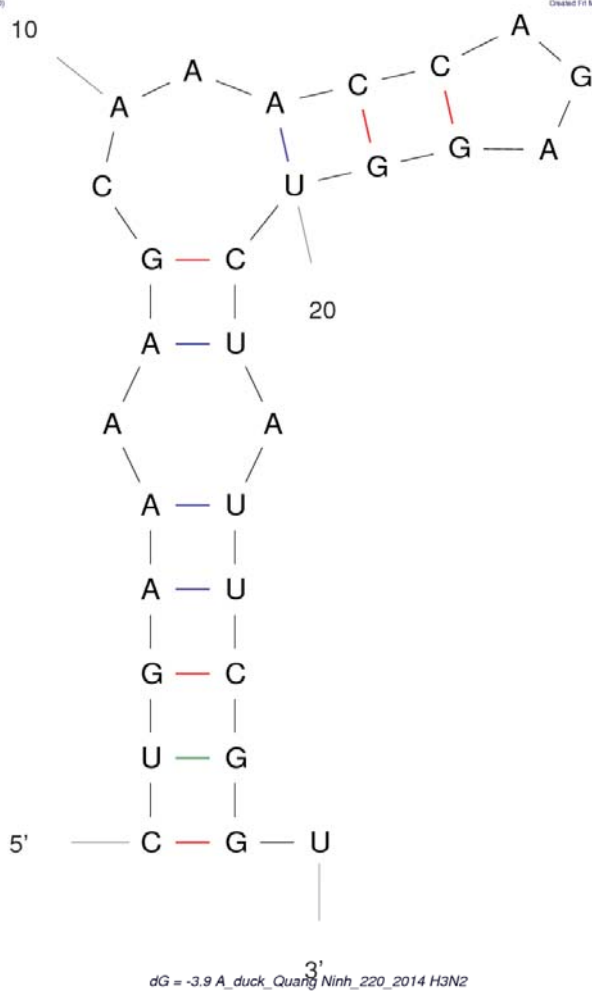
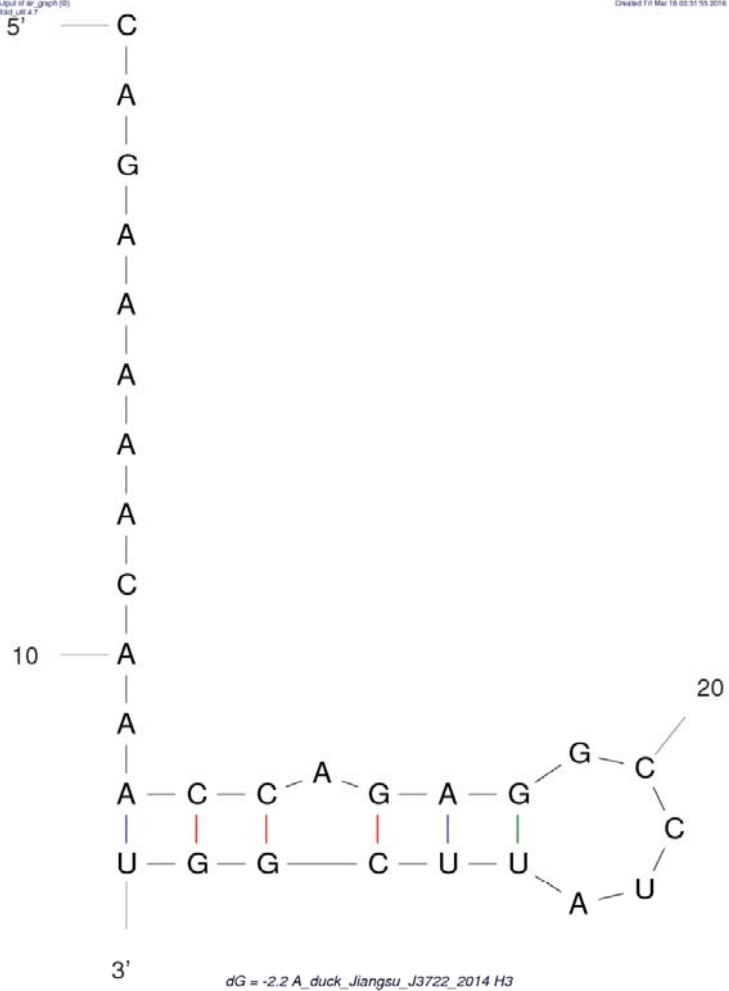
dG = -5 A_wood duck_Ohio_13OS3300_2013 H3N8

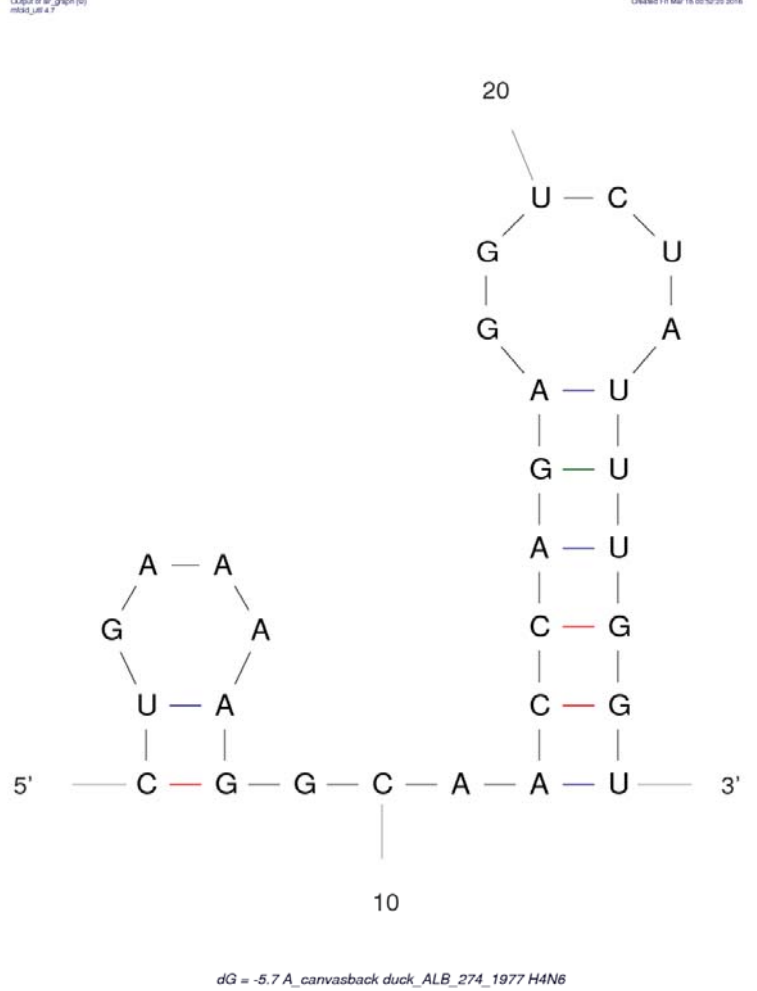
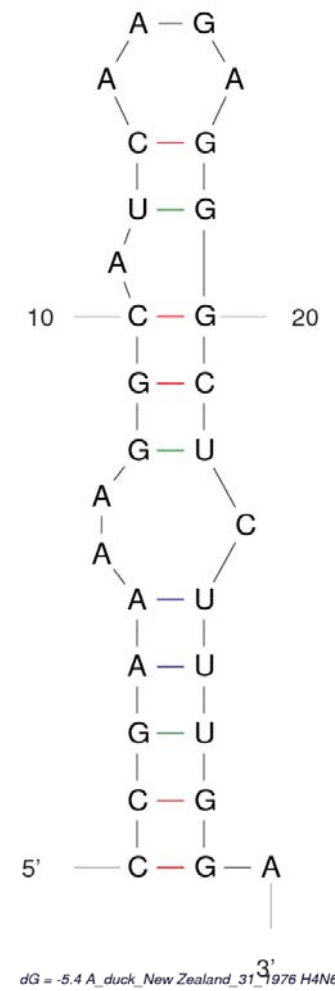
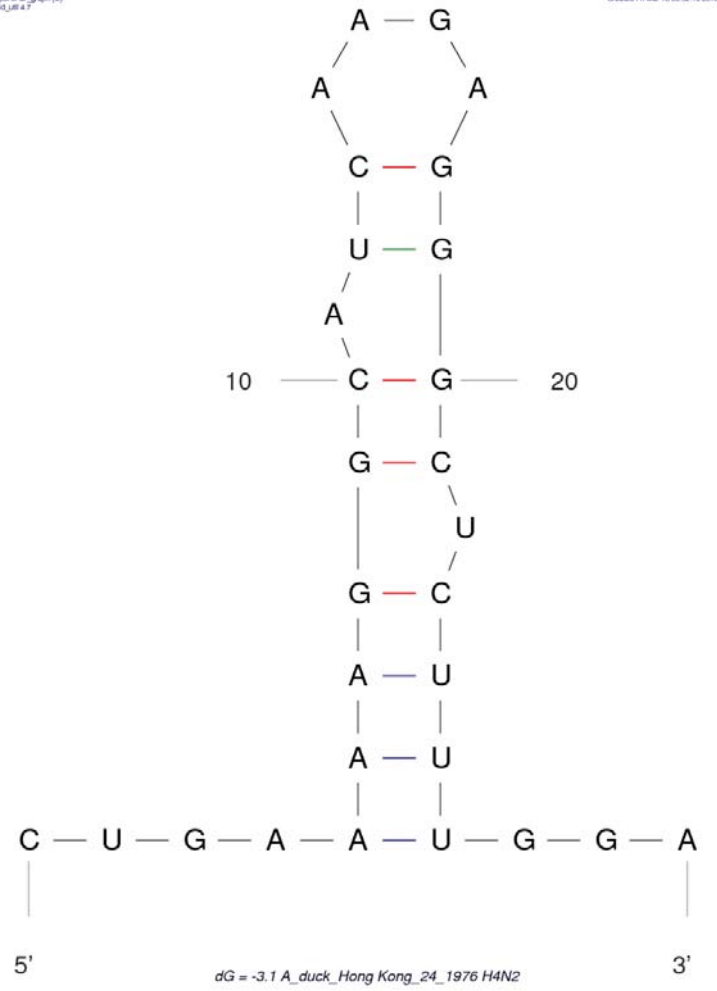
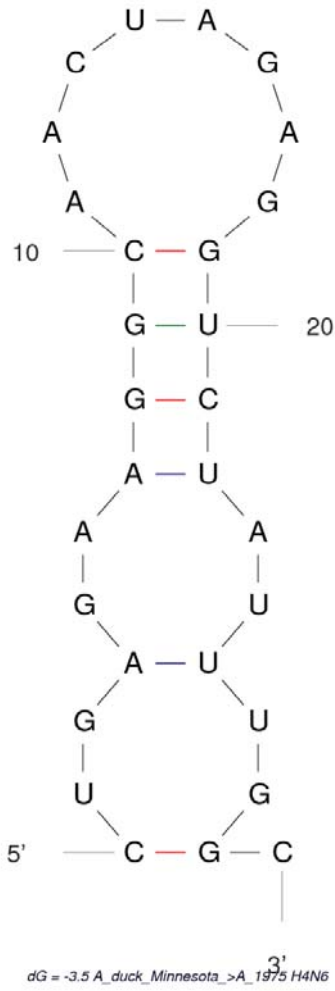


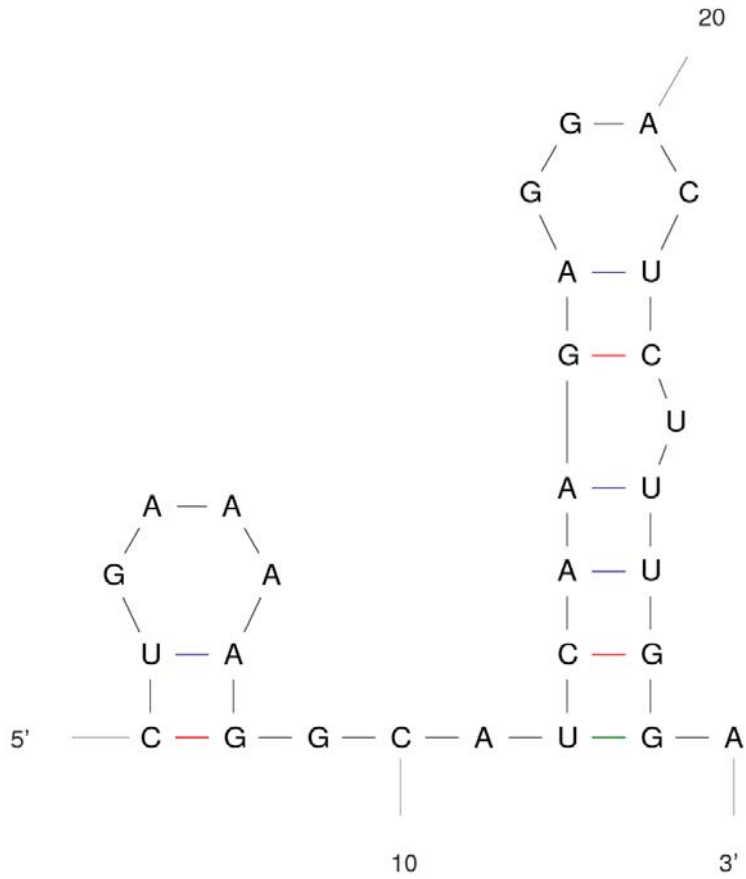
dG = -2.2 A_duck_Anhui_A1454_2014 H3N2



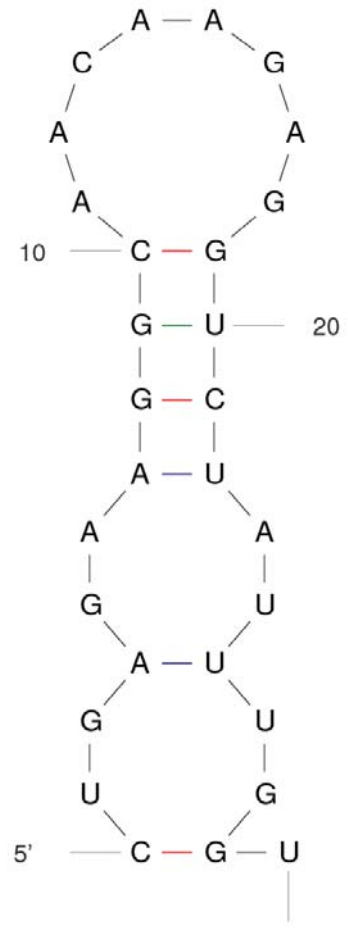




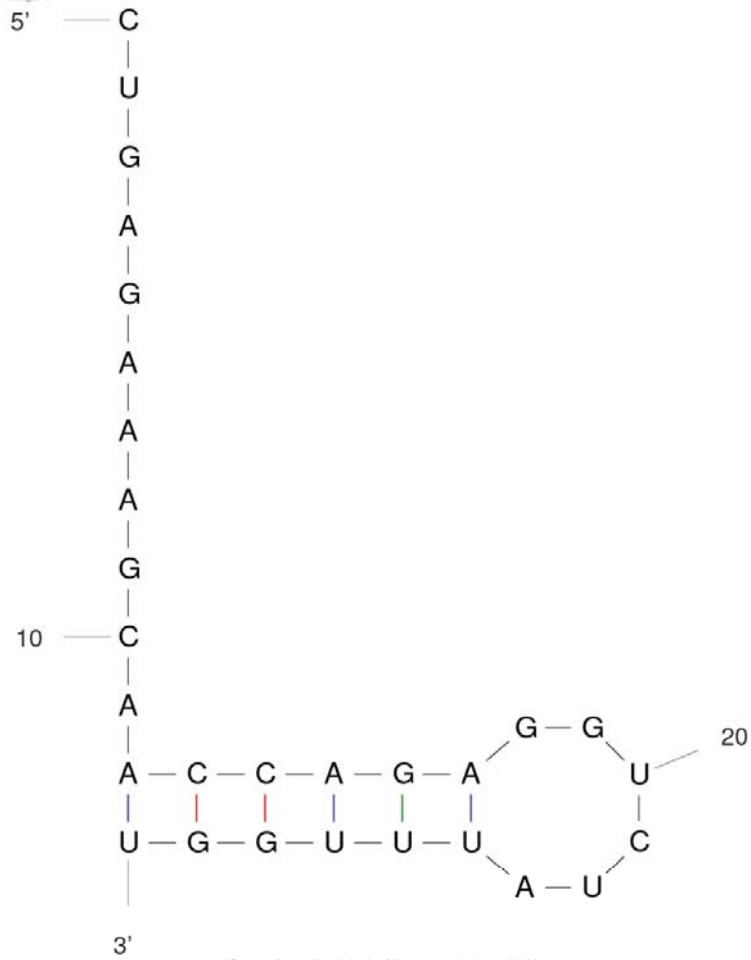




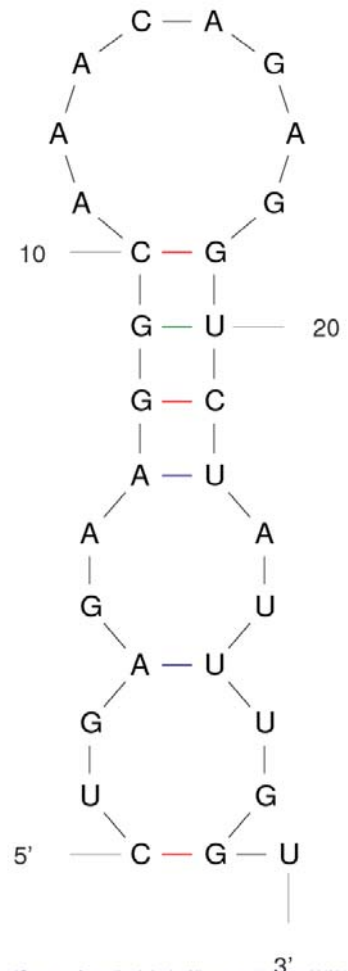
$dG = -1.8$ A_duck_Hong Kong_438_1977 H4N8



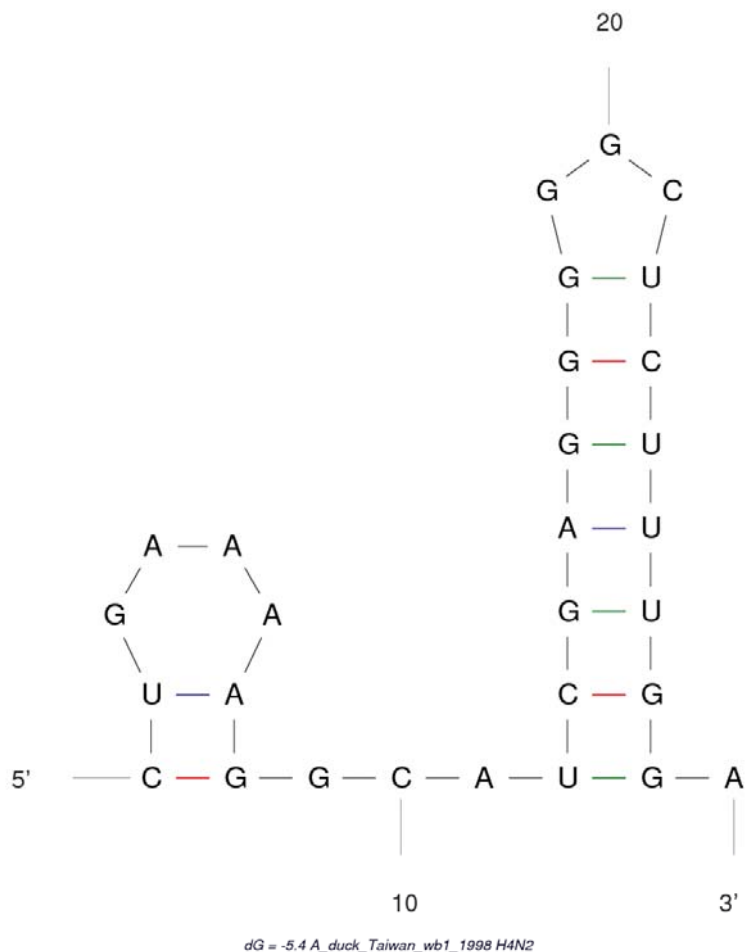
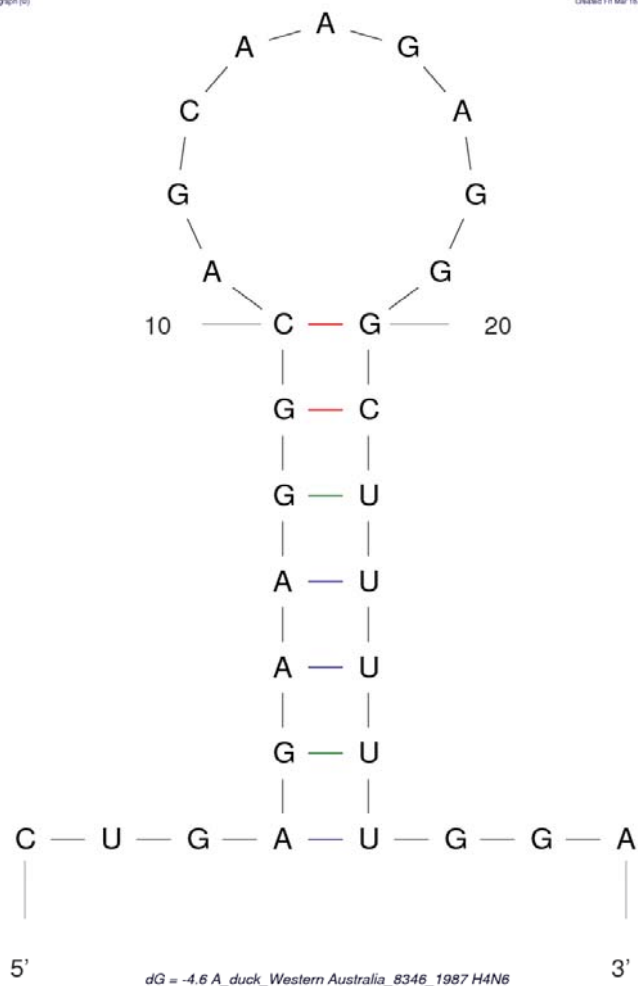
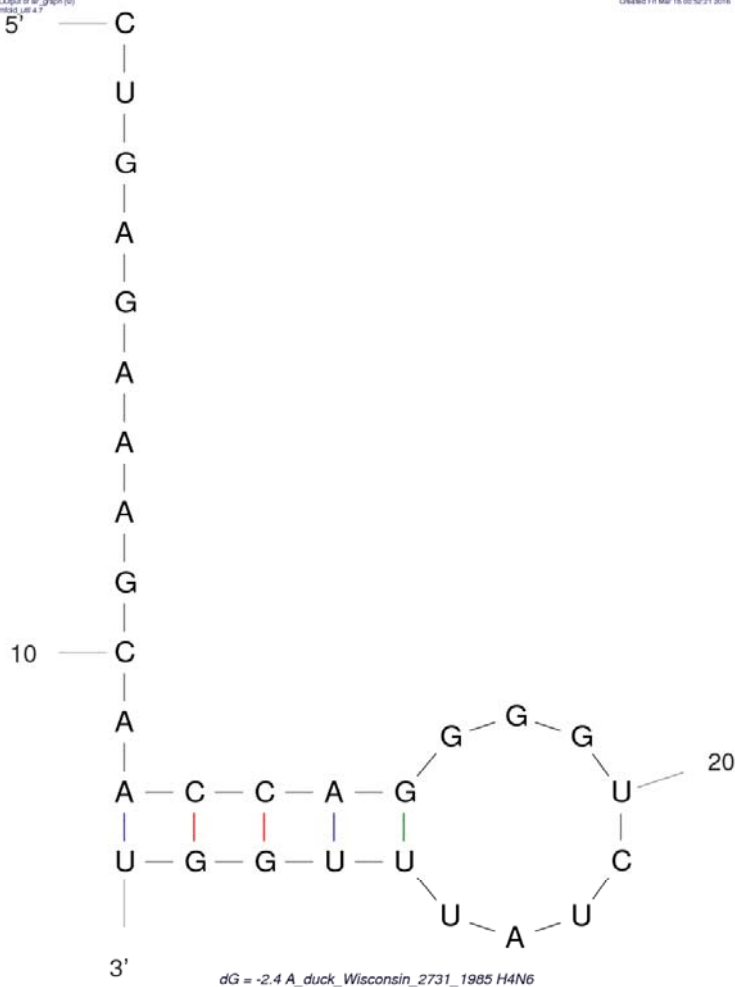
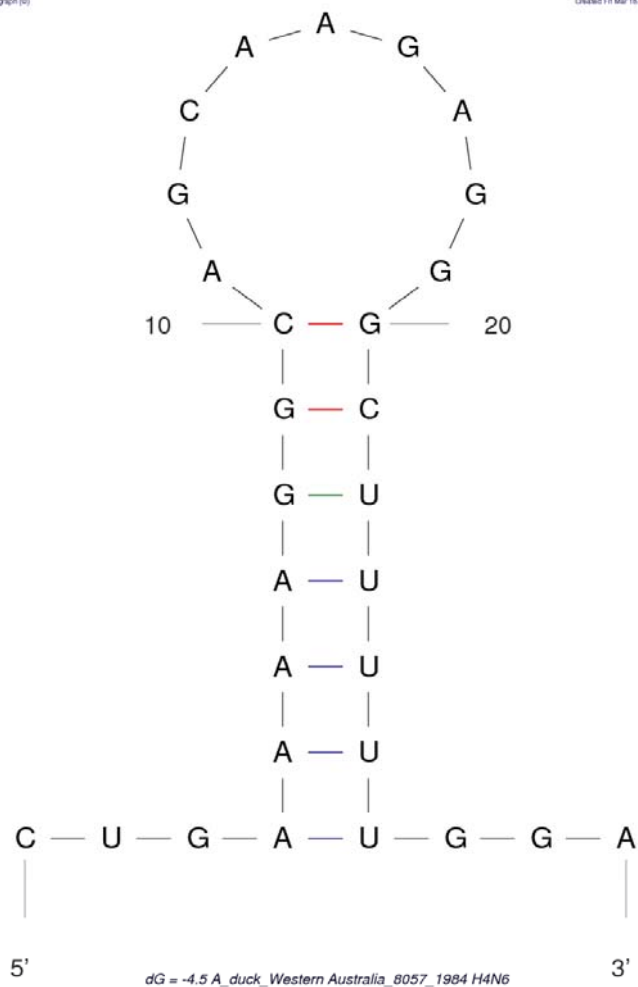
$dG = -3.7$ A_mallard duck_Alberta_291_1977 H4N1

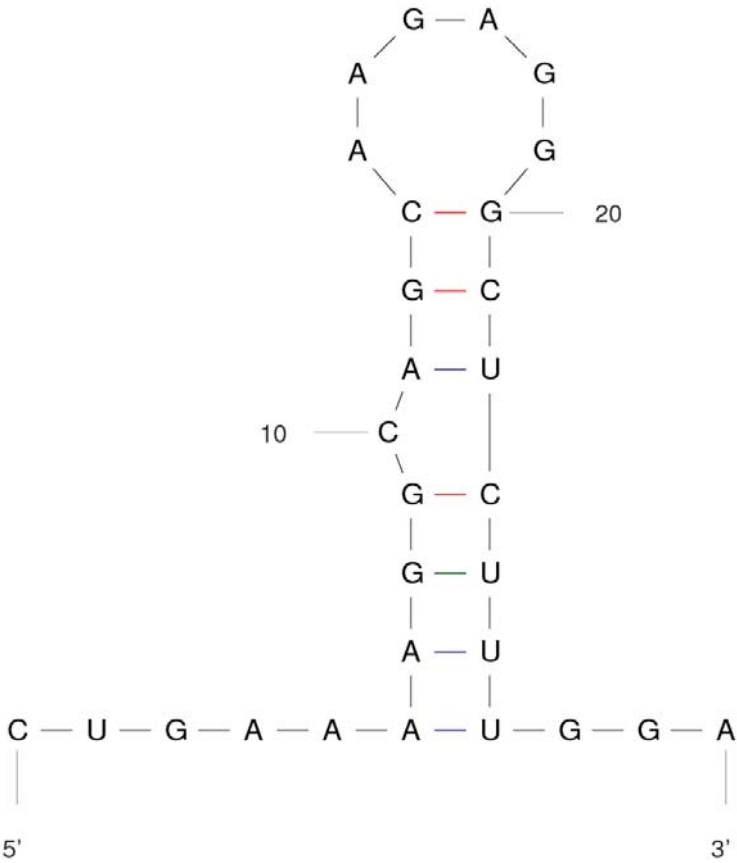


$dG = -5$ A_mallard duck_Alberta_354_1978 H4N2

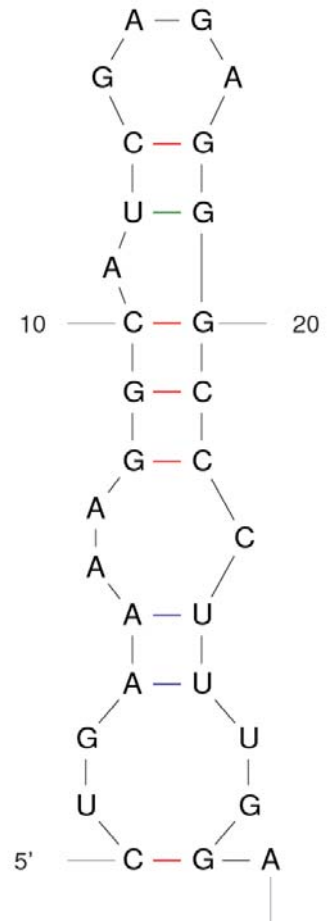


$dG = -3.7$ A_mallard duck_Alberta_581_1983 H4N4

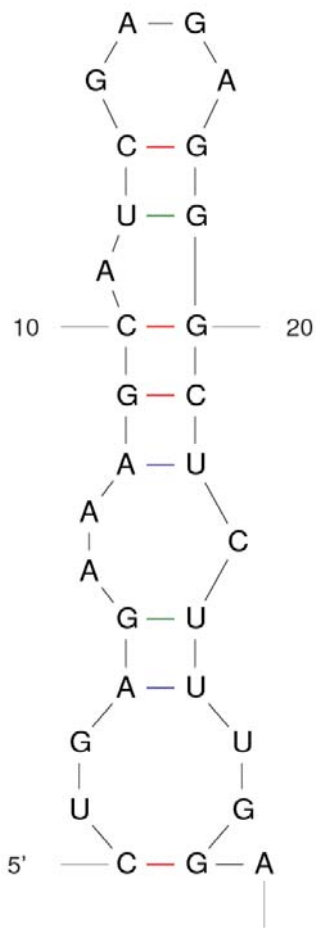




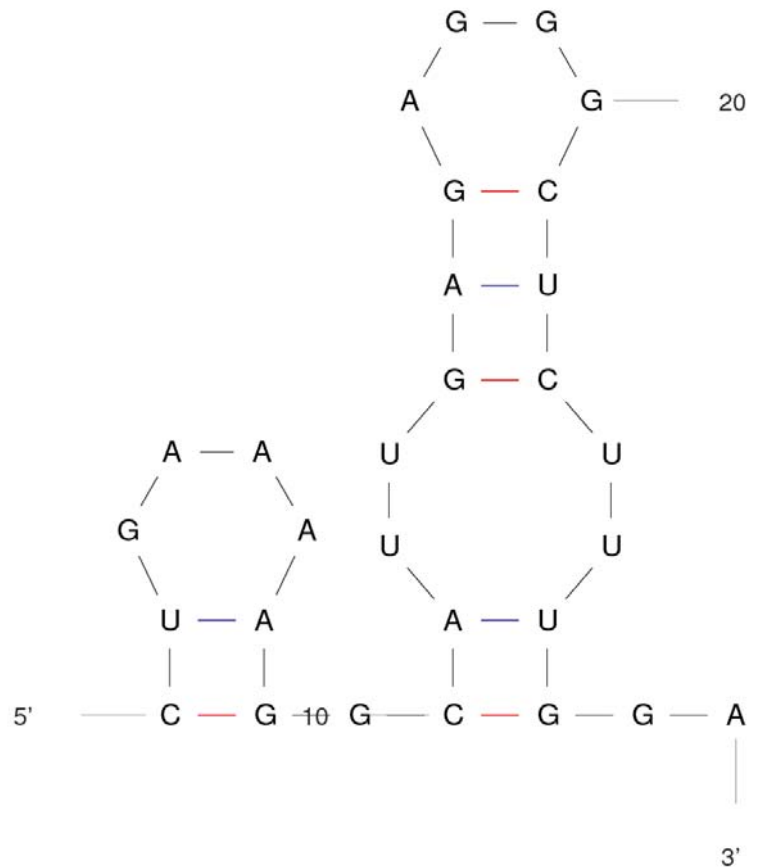
dG = -4.3 A_duck_Taiwan_wb14_1998 H4N6



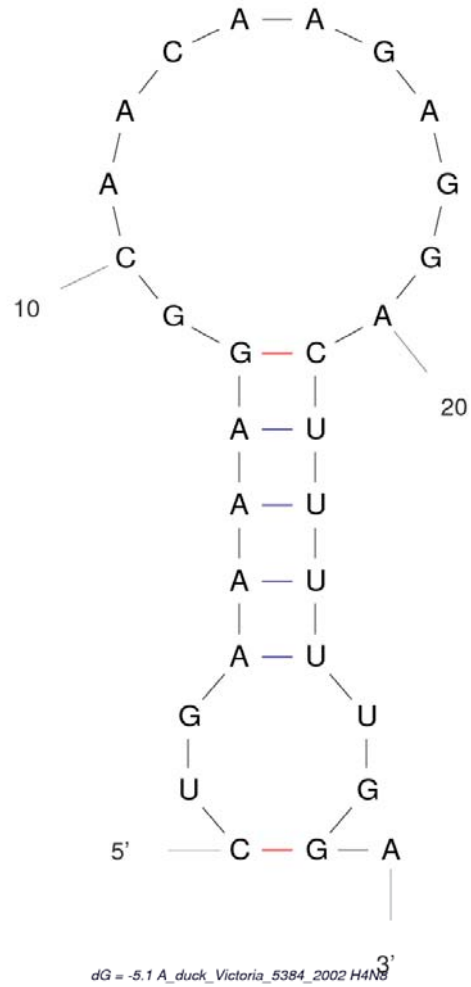
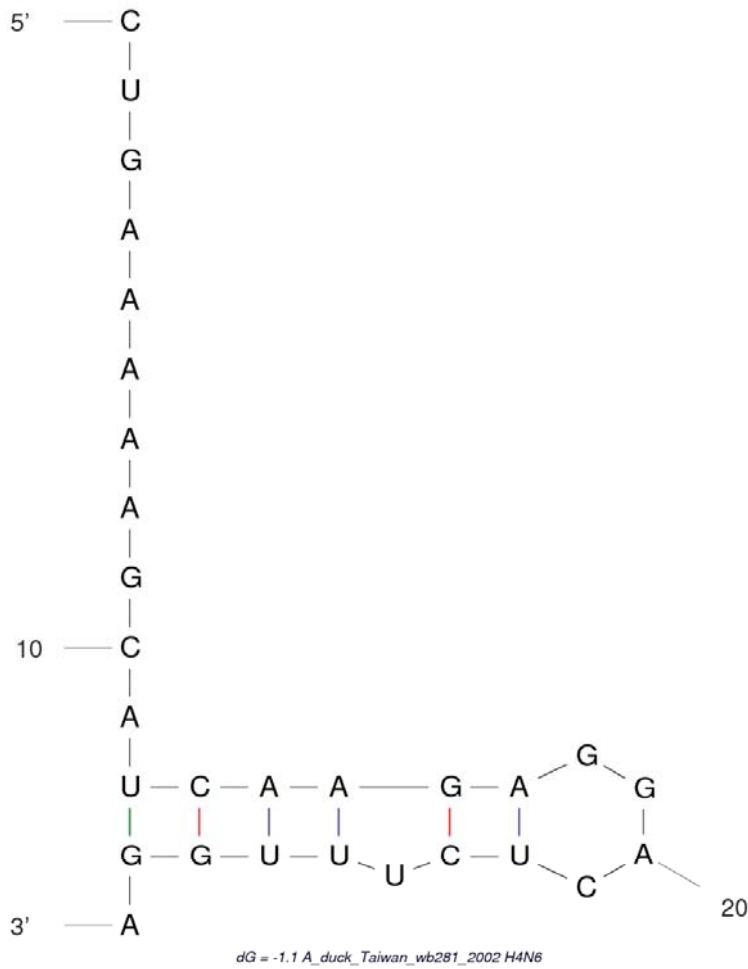
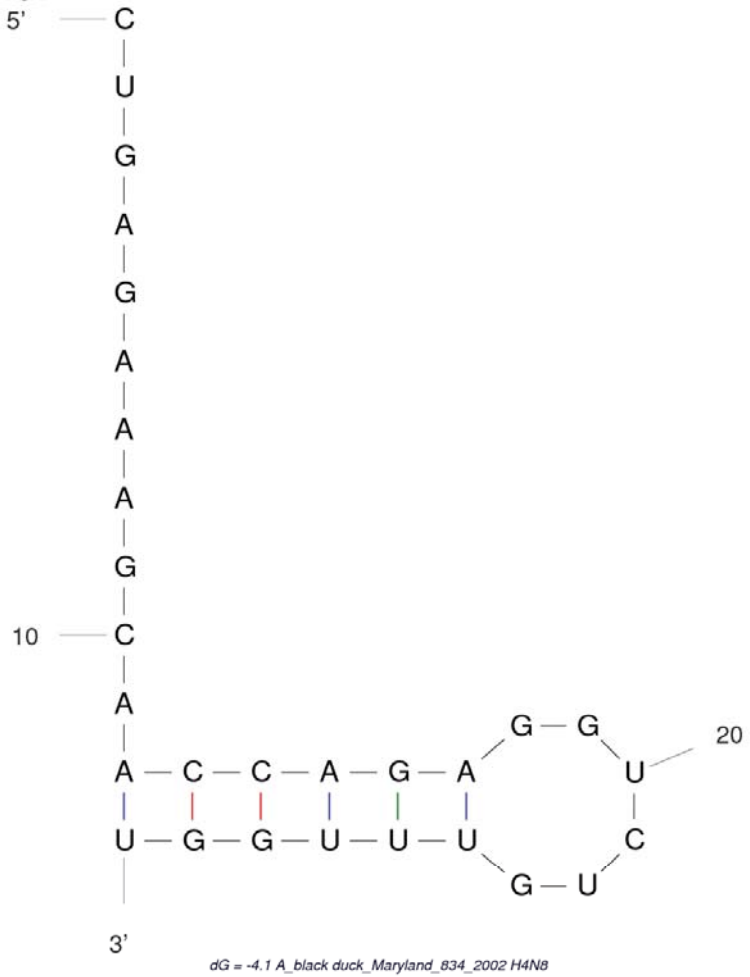
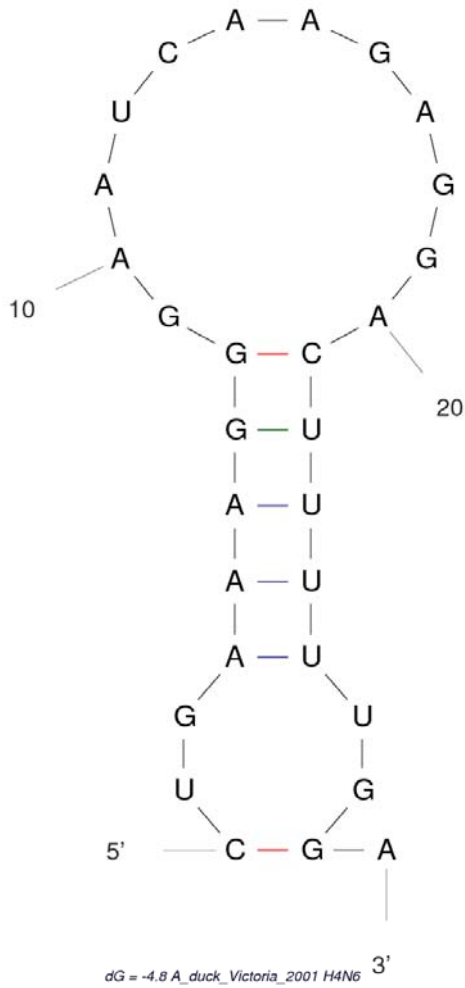
dG = -7.5 A_duck_Taiwan_wb29_1998 H4N8

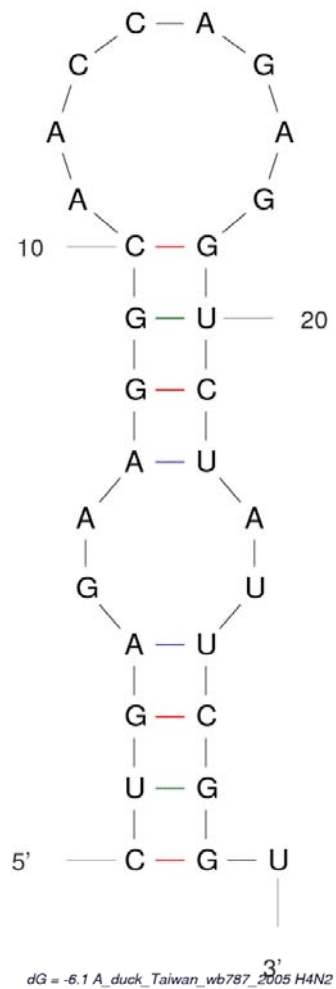
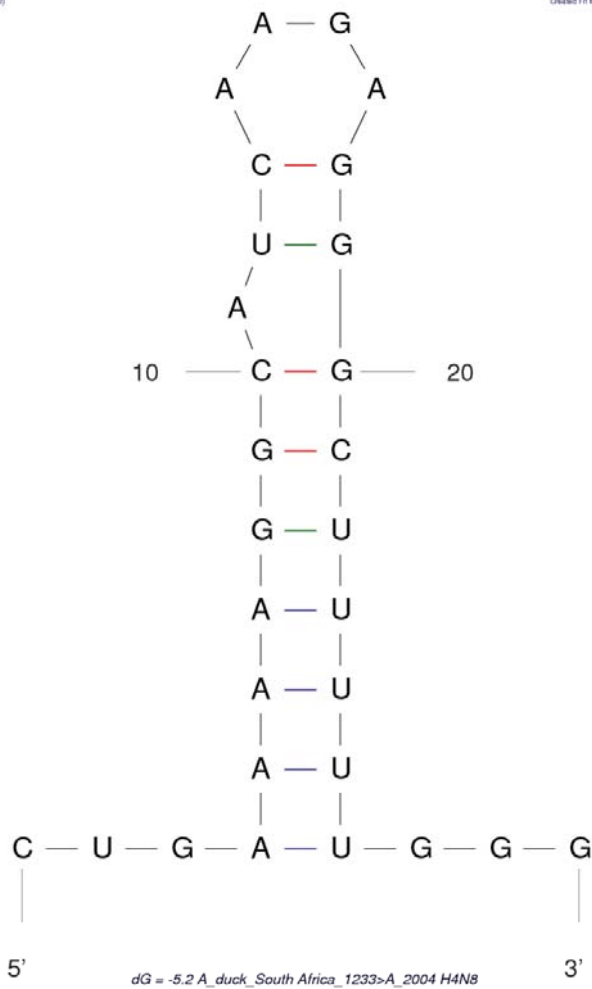
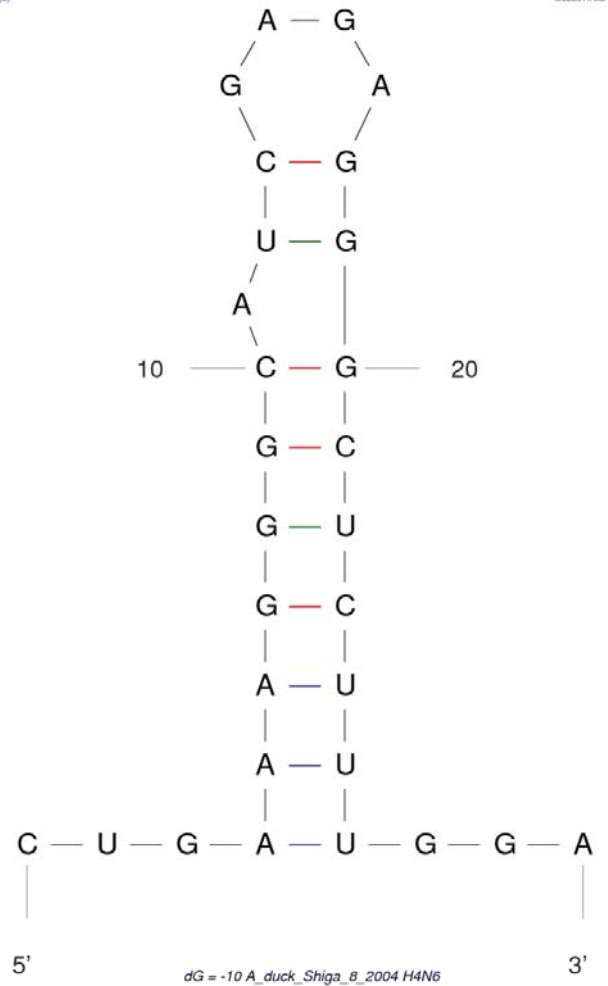
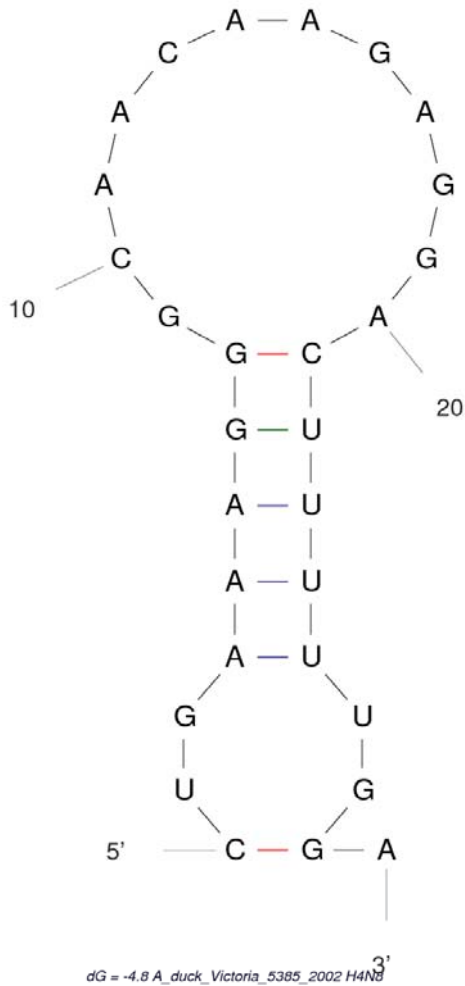


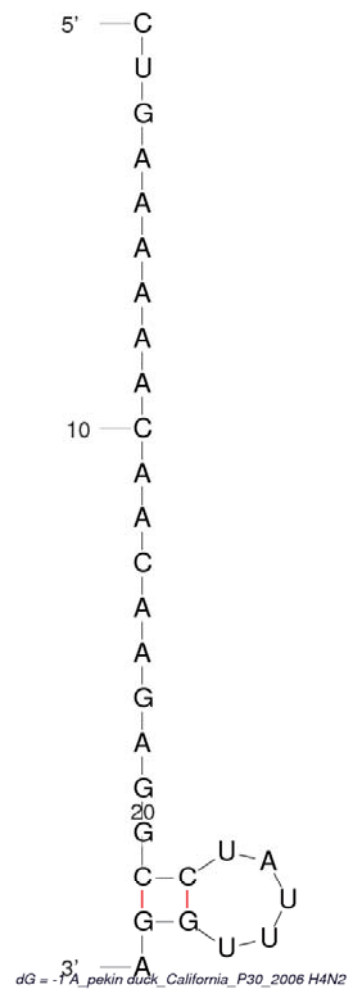
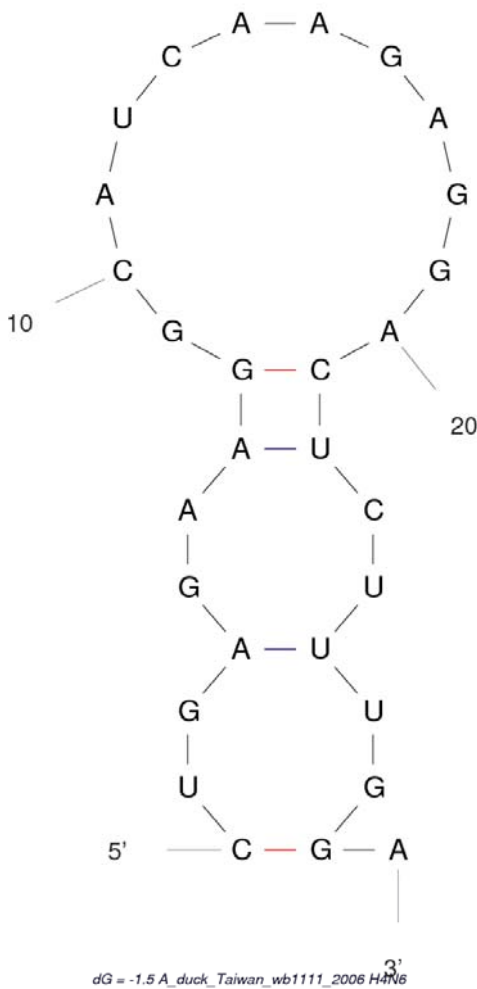
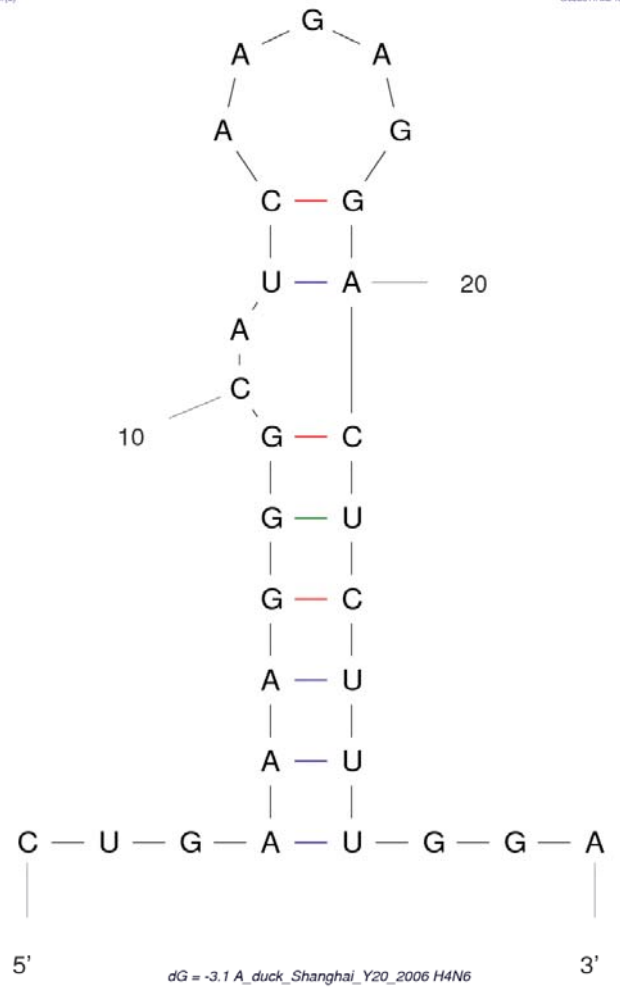
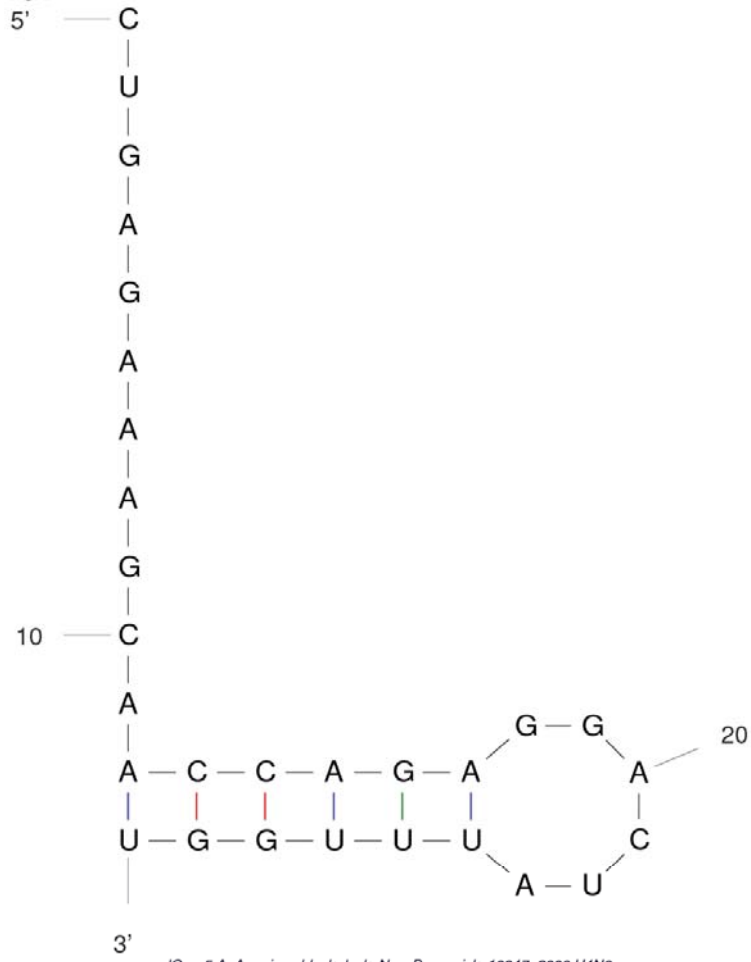
dG = -5.3 A_duck_Taiwan_wb45_1998 H4N7

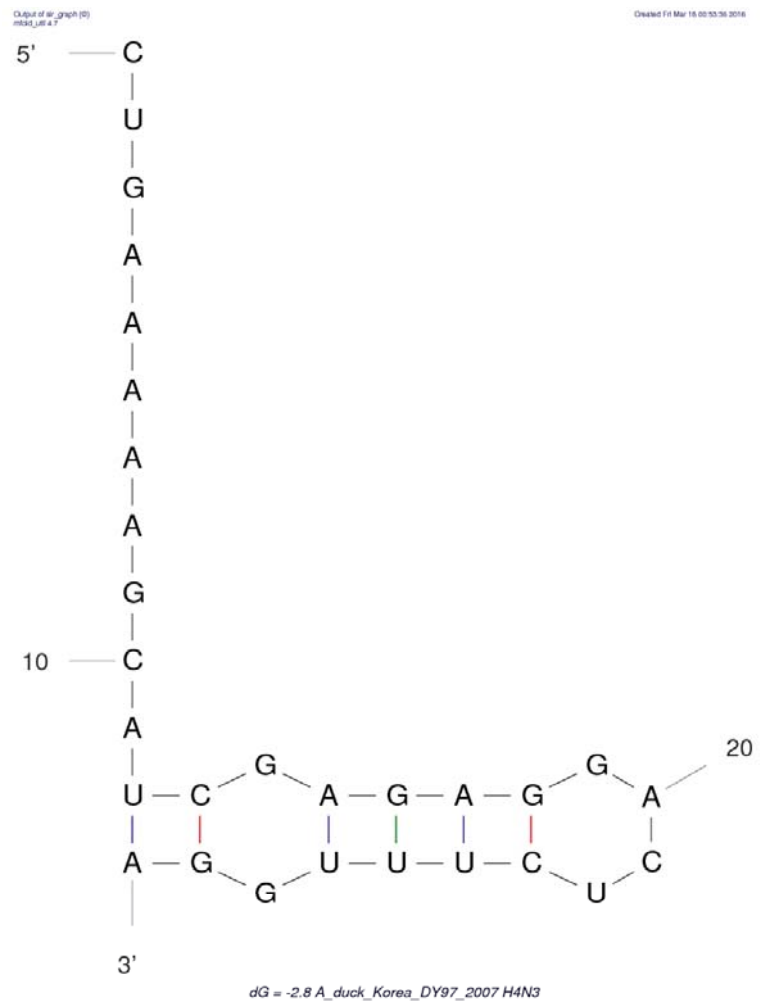
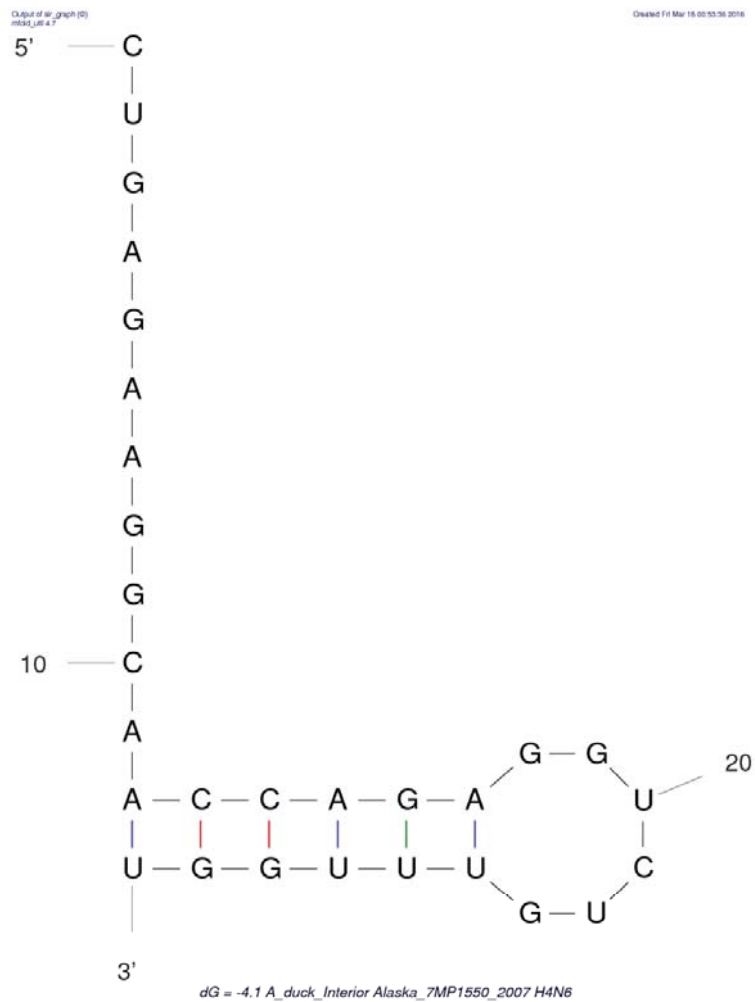
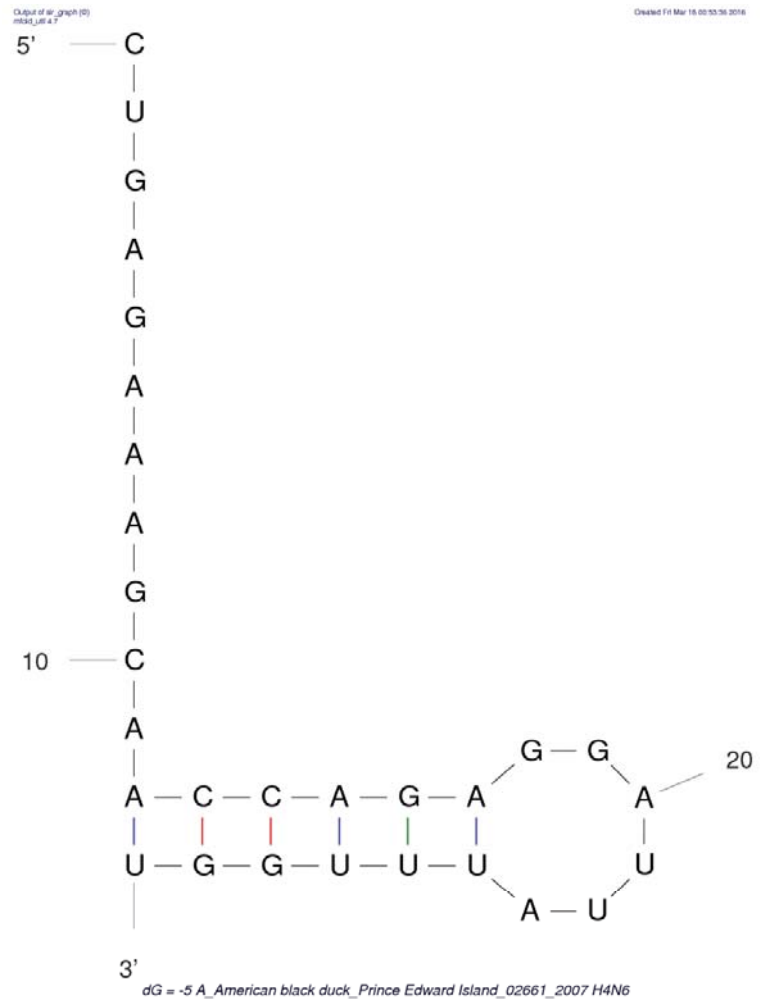
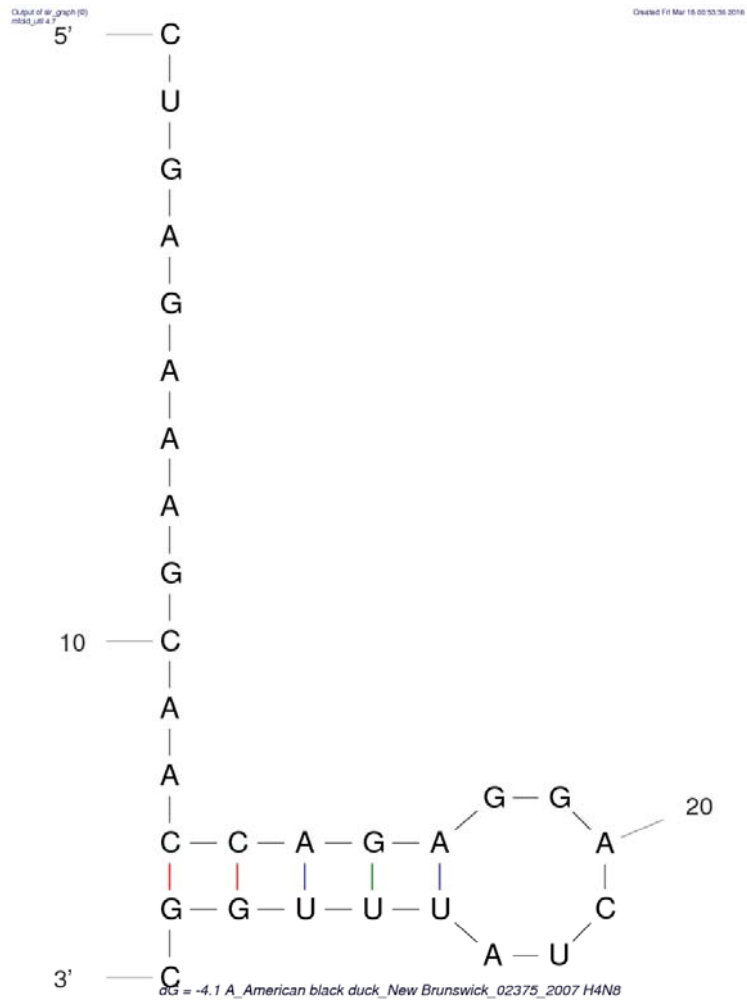


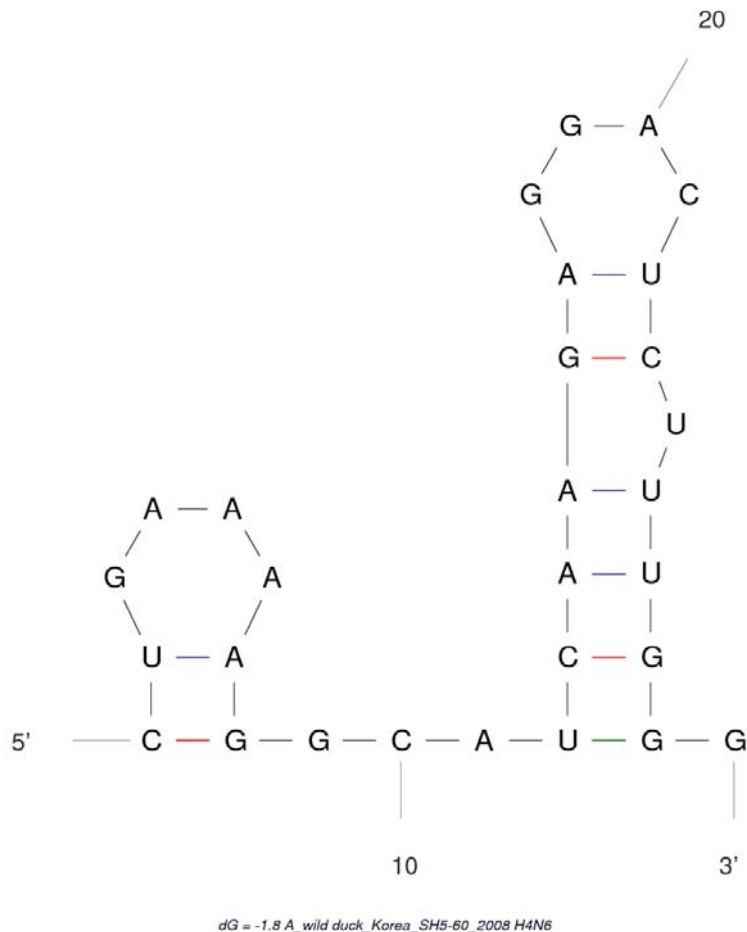
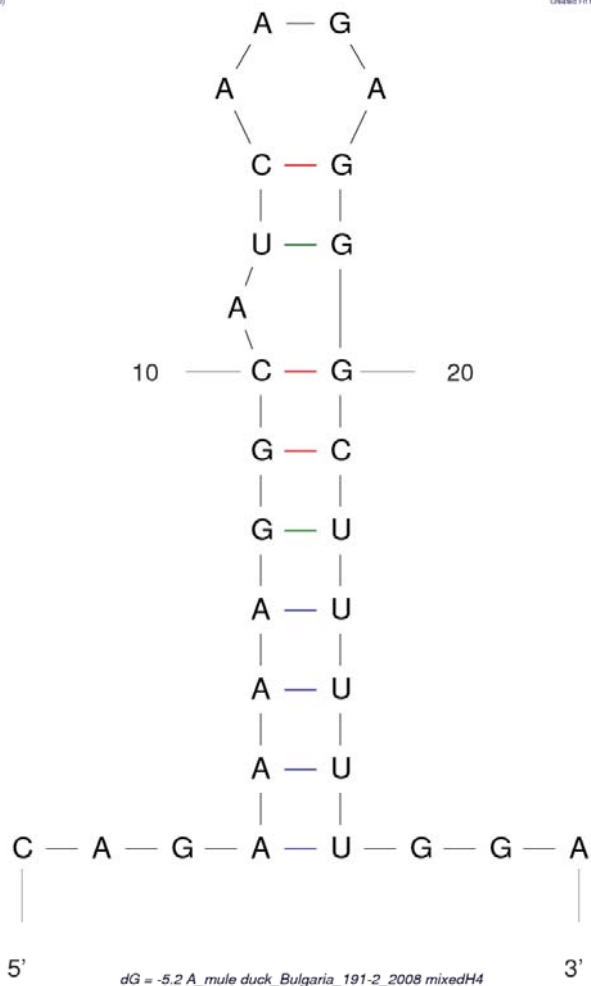
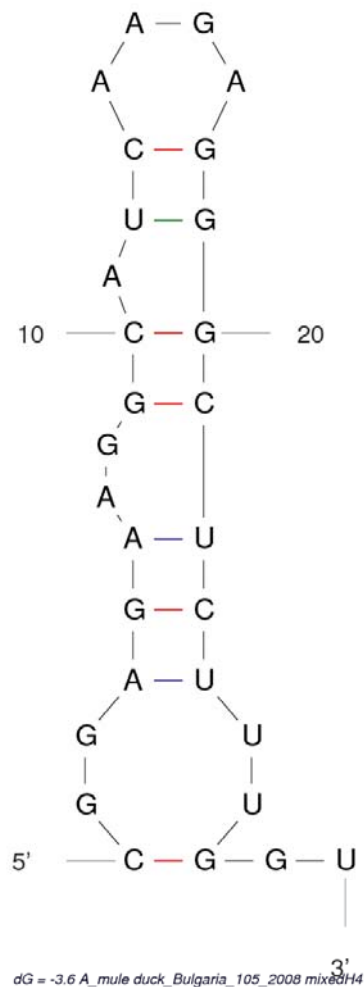
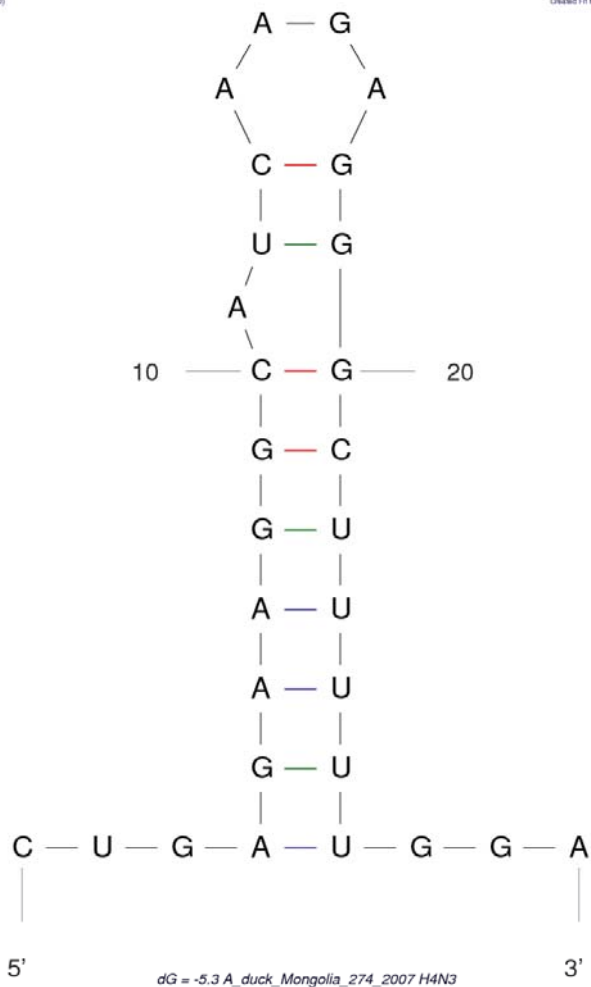
dG = -4.2 A_duck_Hokkaido_1058_2001 H4N5

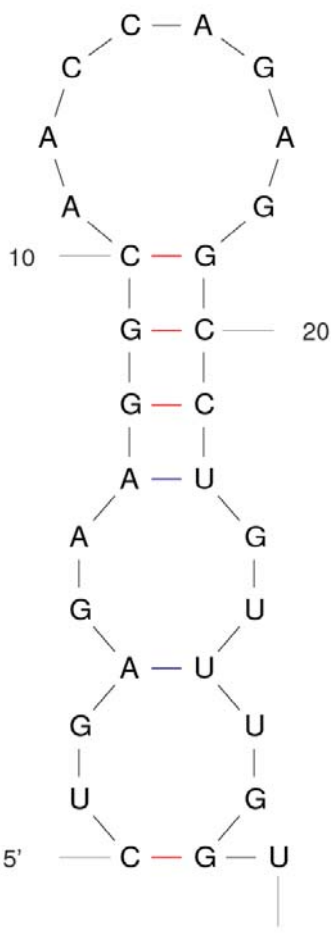




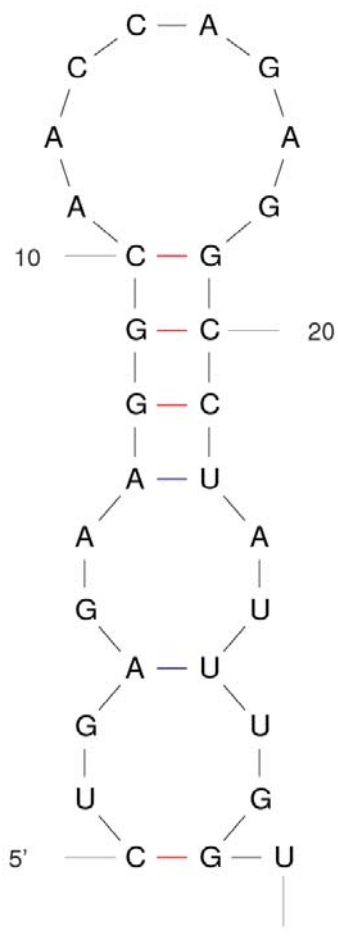




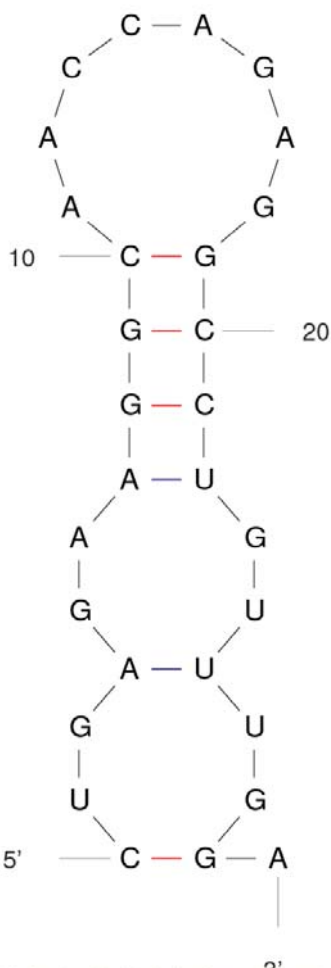




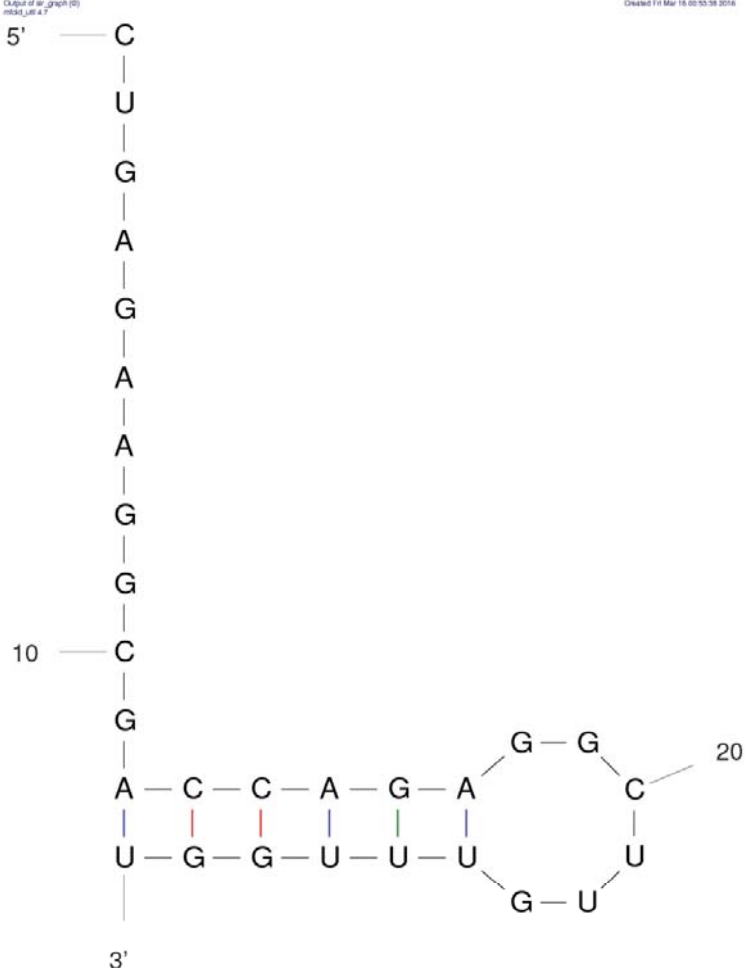
dG = -6.6 A_American black duck_New Brunswick_03511_2009 H4N6



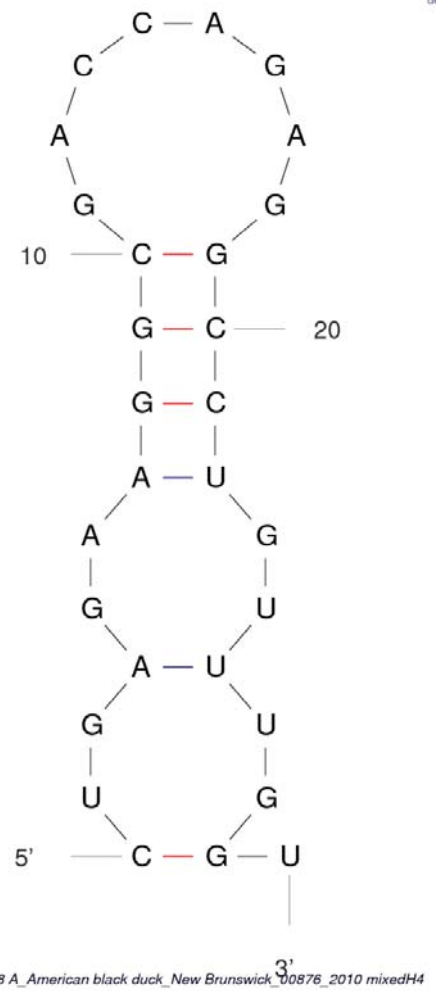
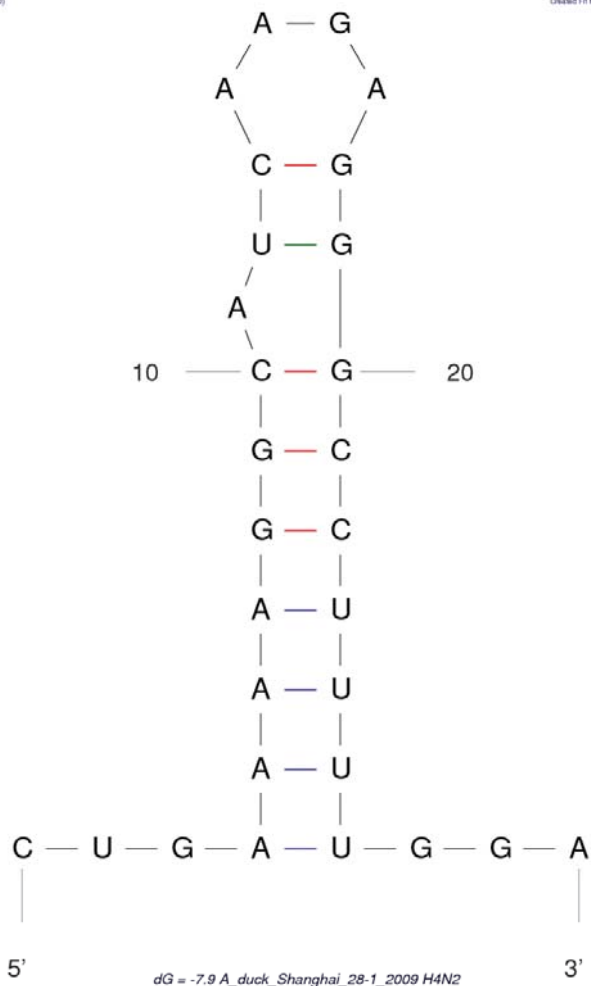
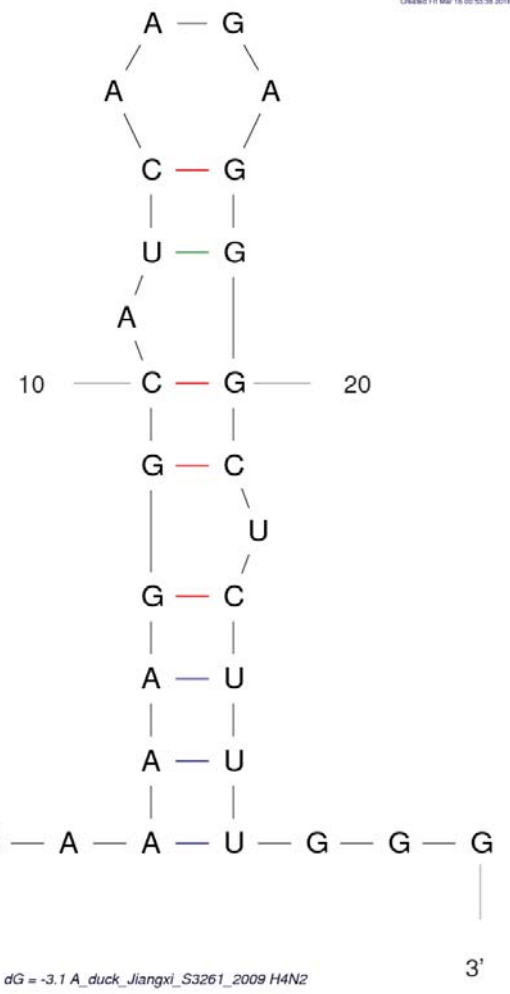
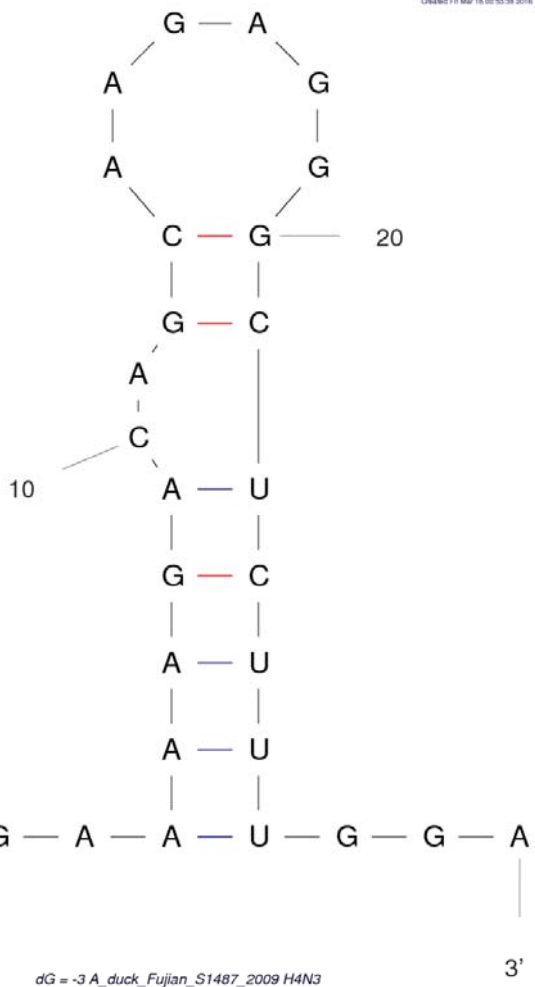
dG = -6.4 A_American black duck_New Brunswick_03530_2009 H4N6

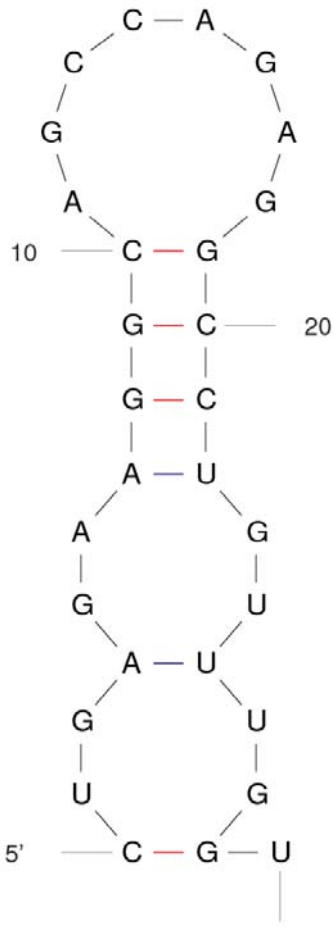


dG = -7.1 A_American black duck_New Brunswick_03554_2009 H4N6

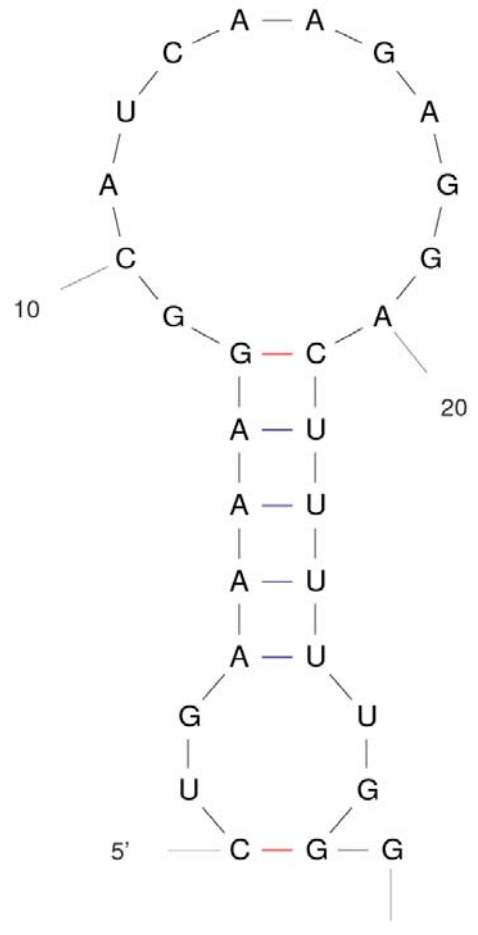


dG = -4.2 A_American black duck_Wisconsin_2542_2009 H4N2

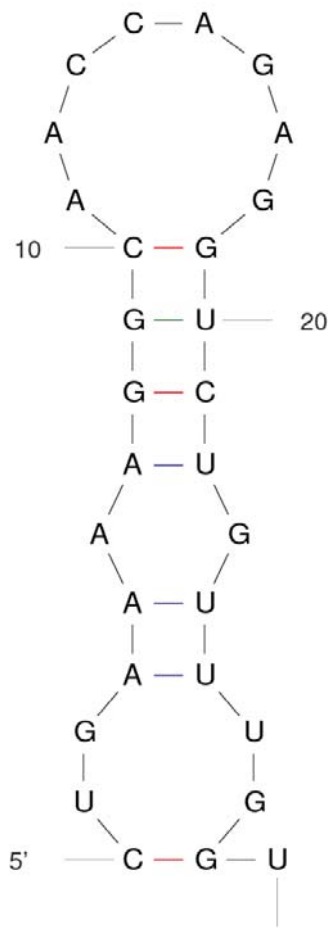




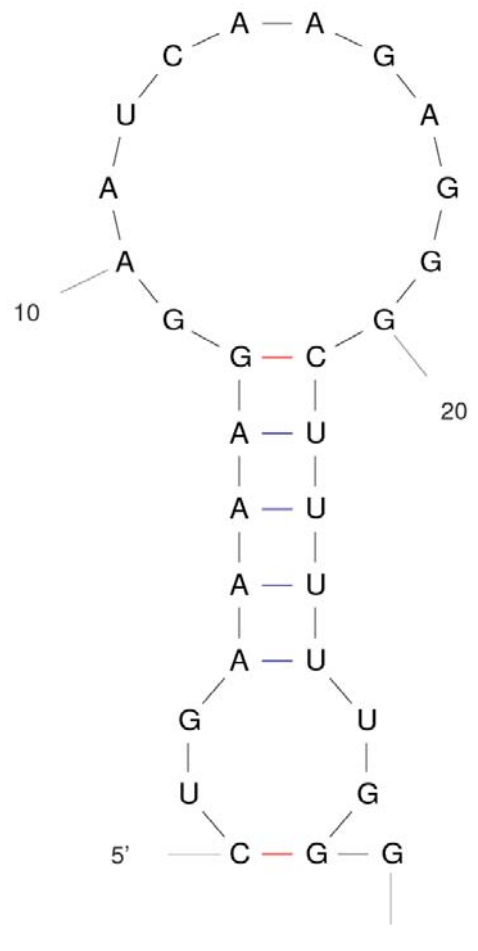
dG = -6.6 A_American black duck_New Brunswick_00949_2010 H4N6



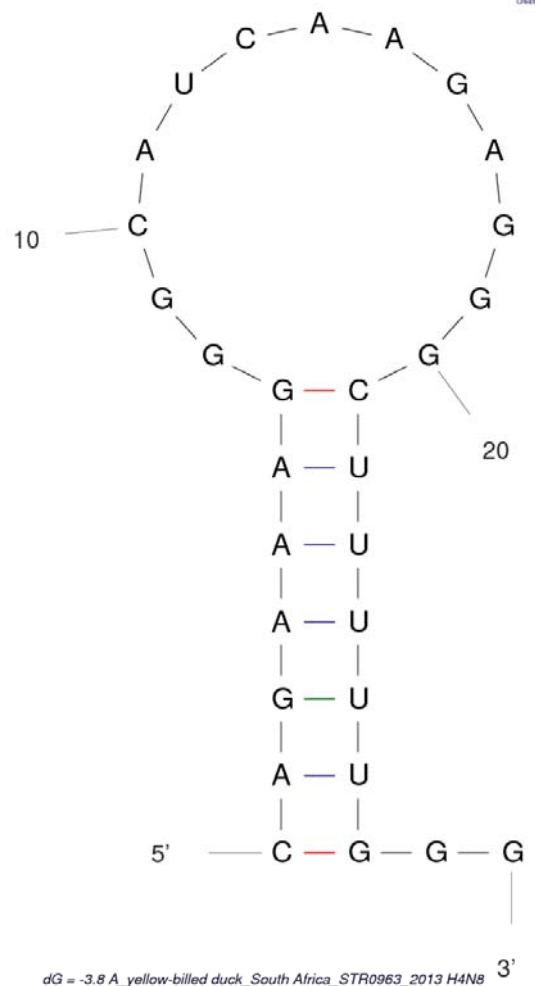
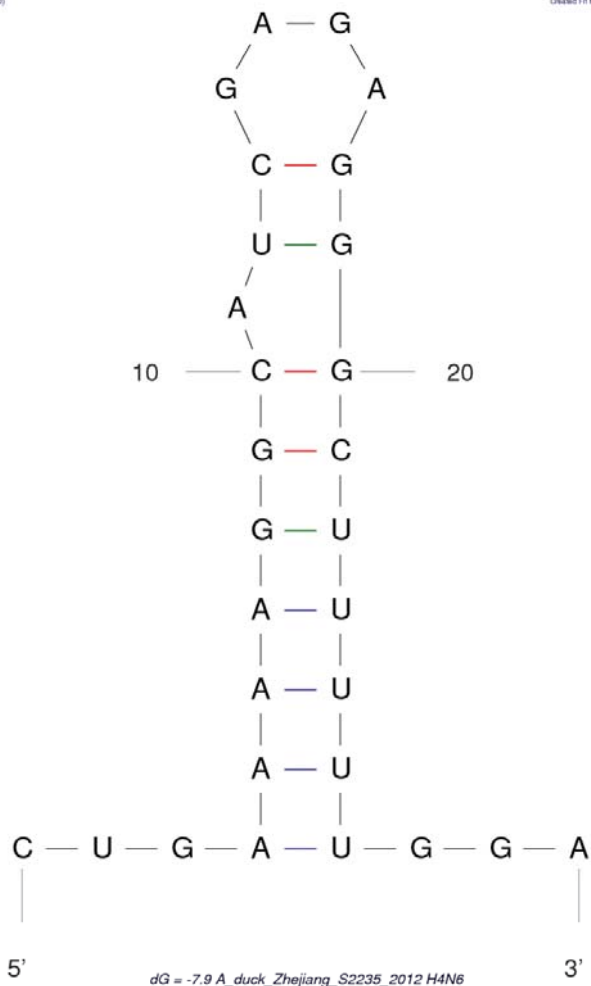
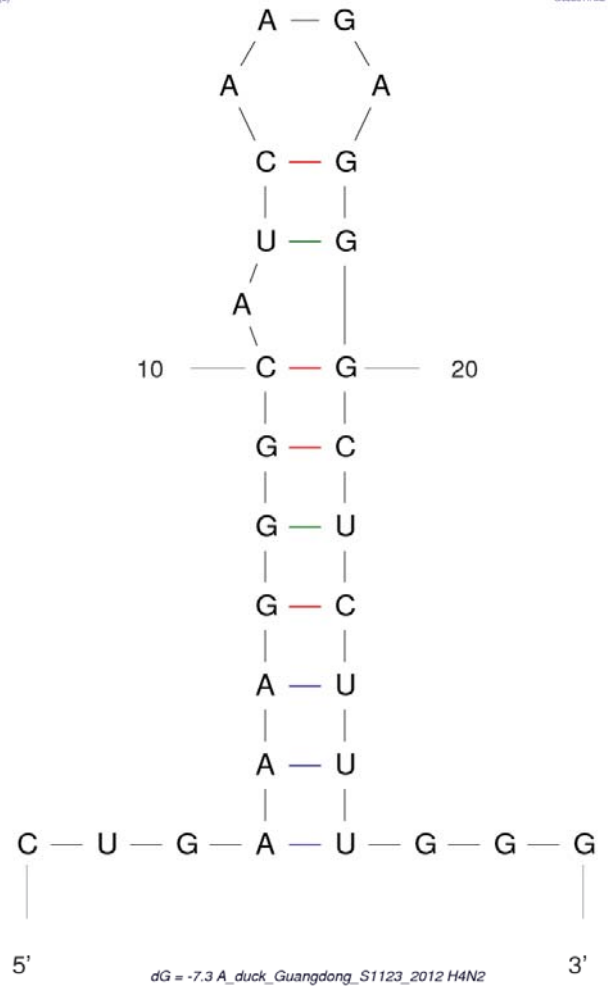
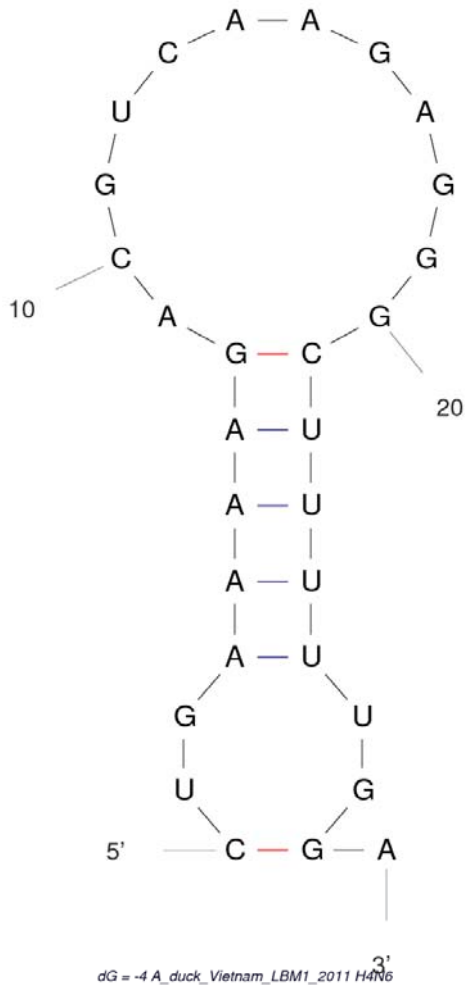
dG = -5.3 A_duck_Henan_S1091_2010 H4N6

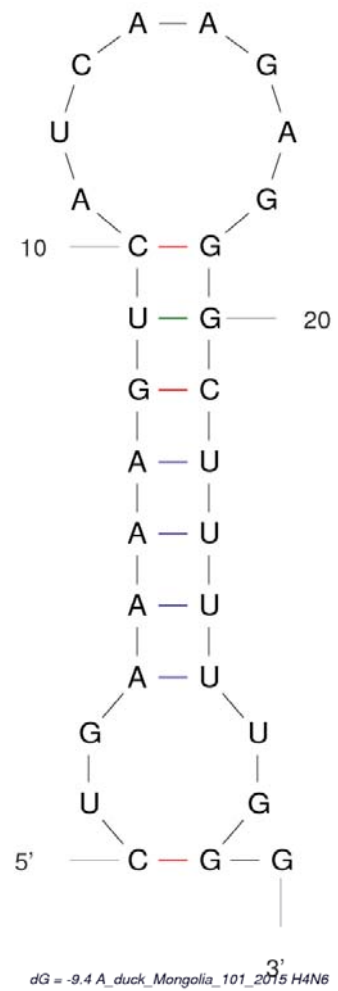
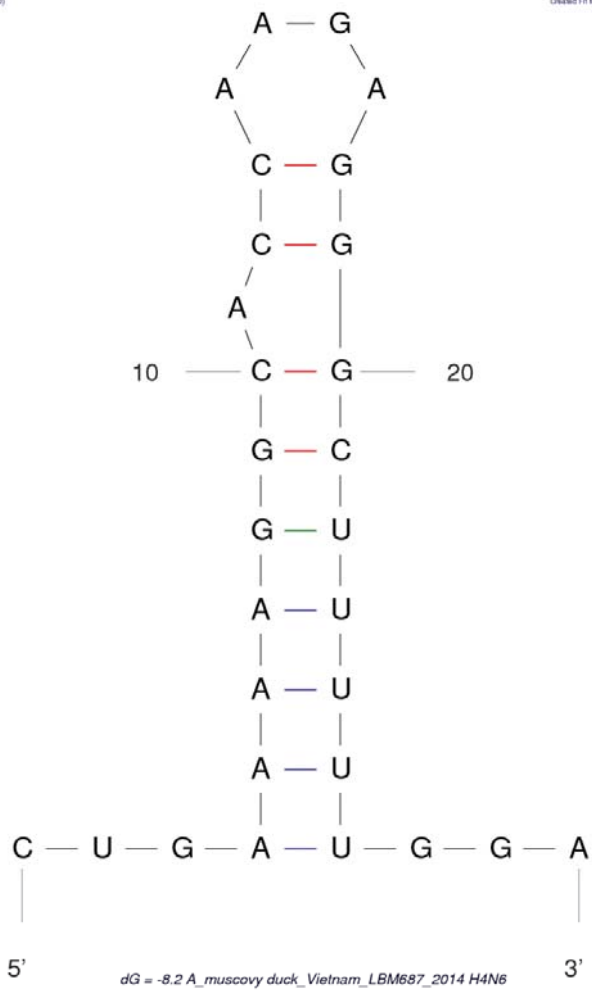
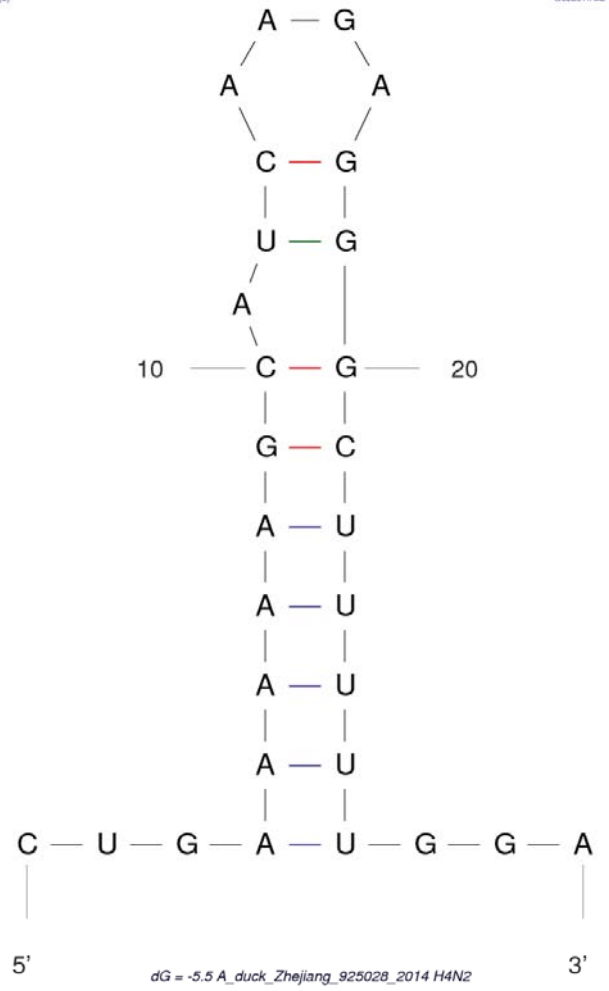
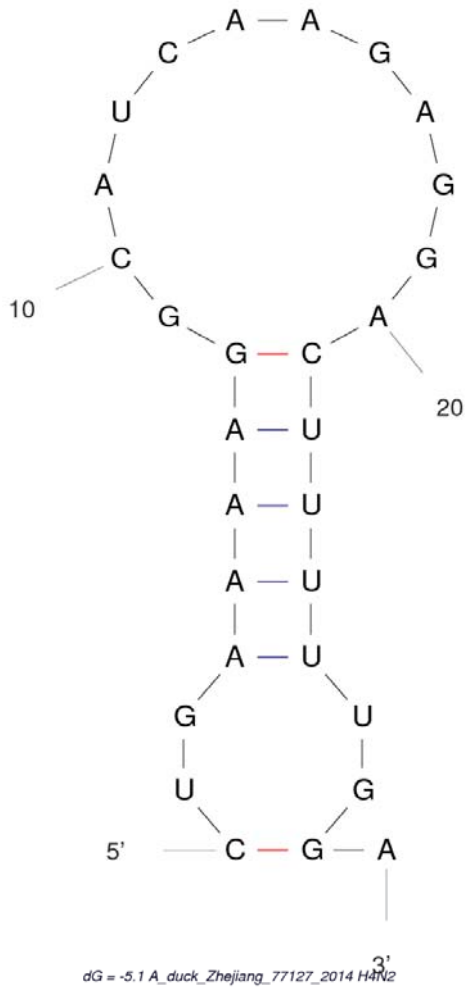


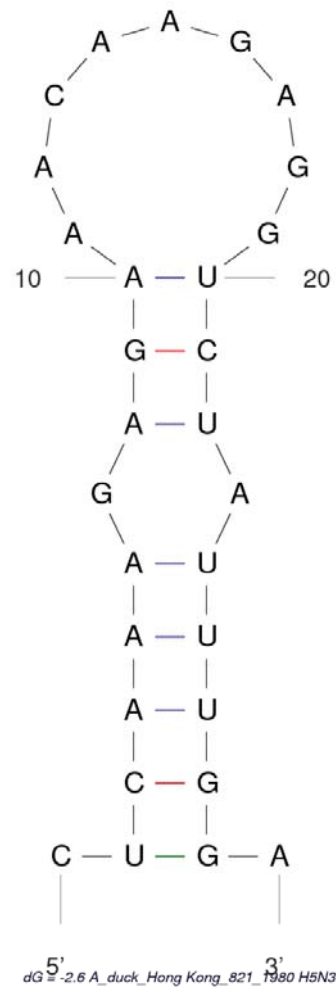
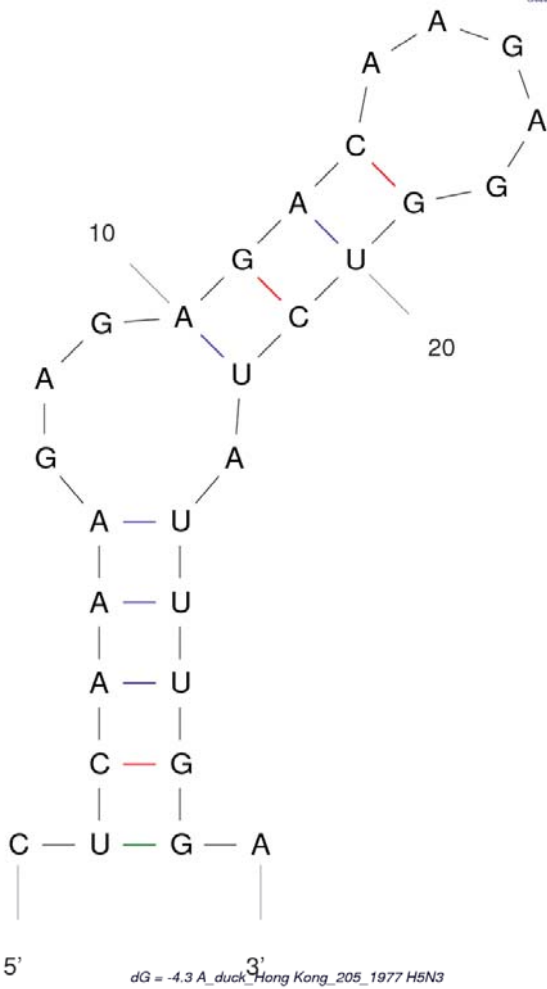
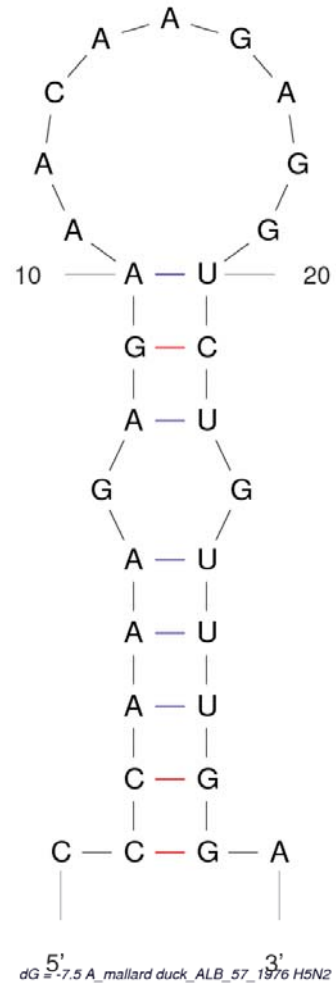
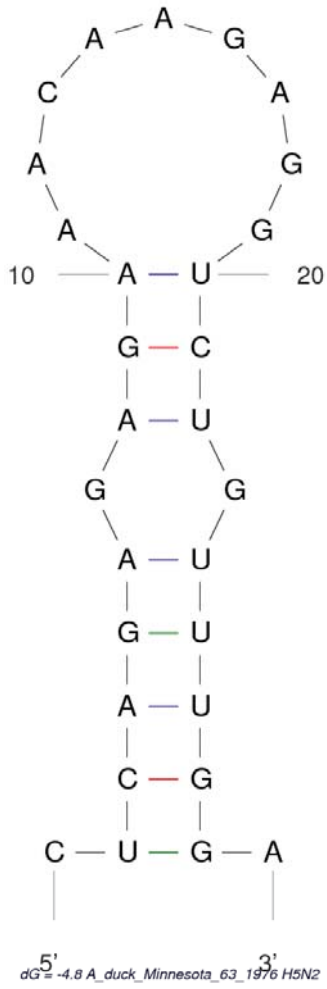
dG = -5.2 A_ring-necked duck_Interior Alaska_10BM05617R0_2010 H4N6

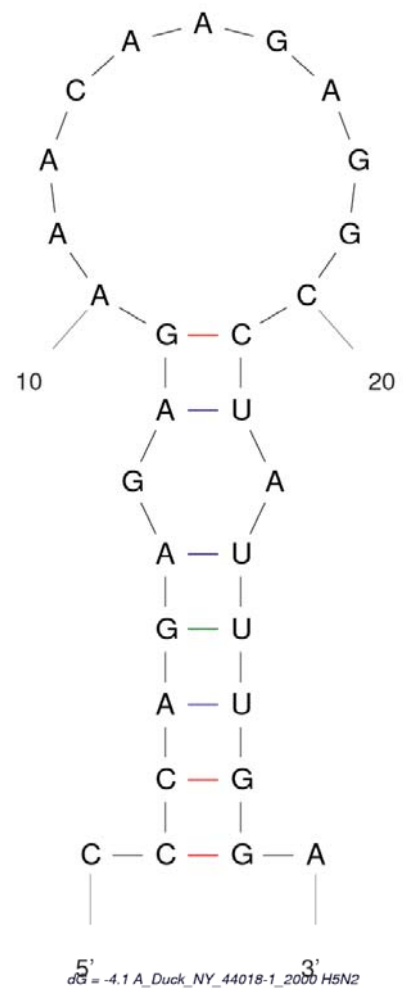
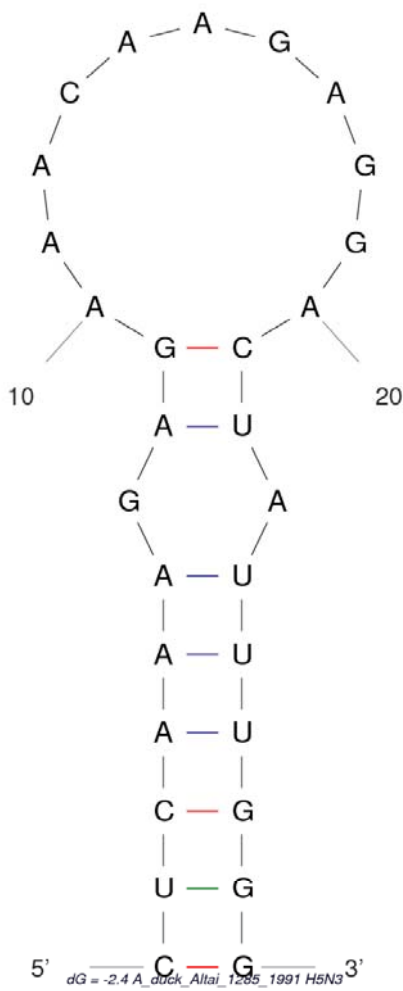
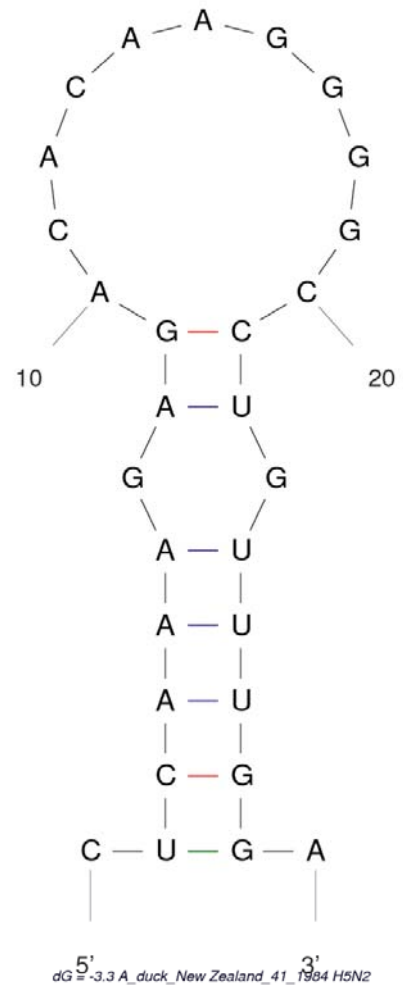
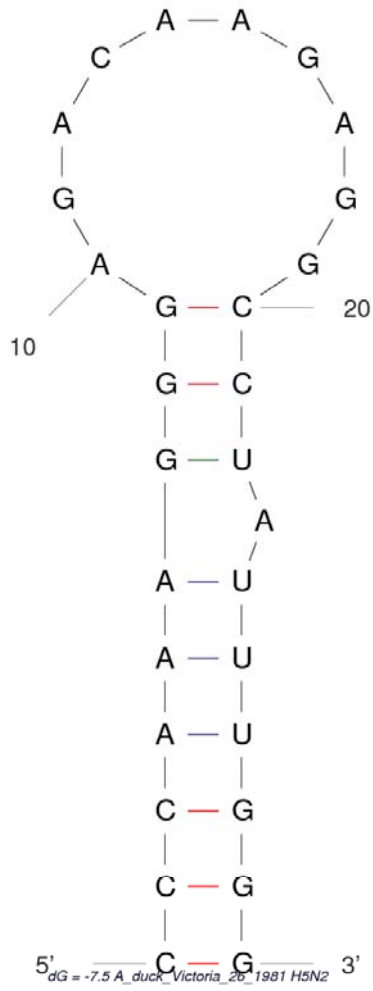


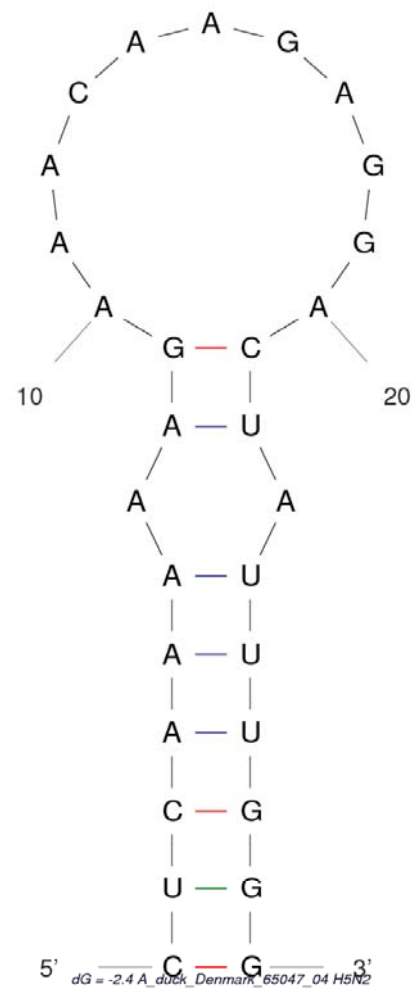
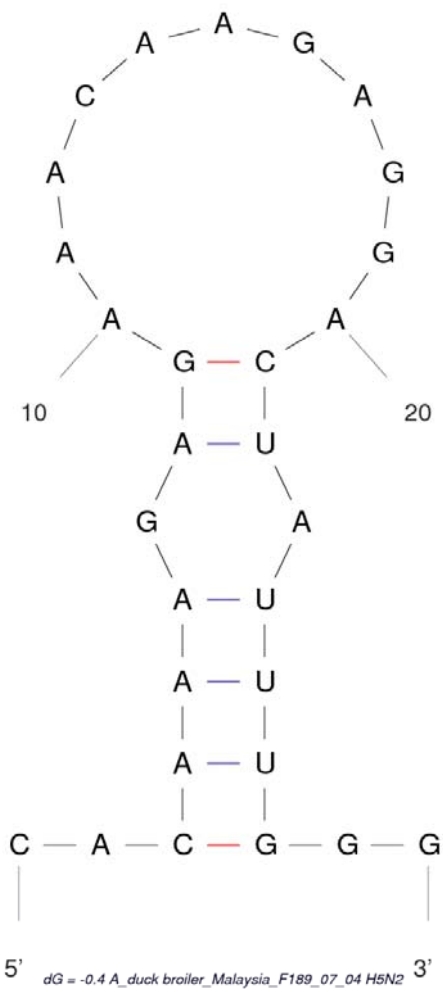
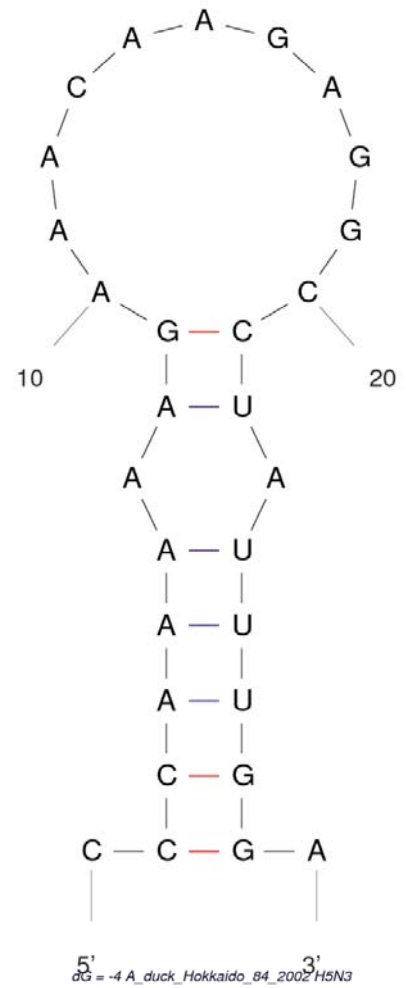
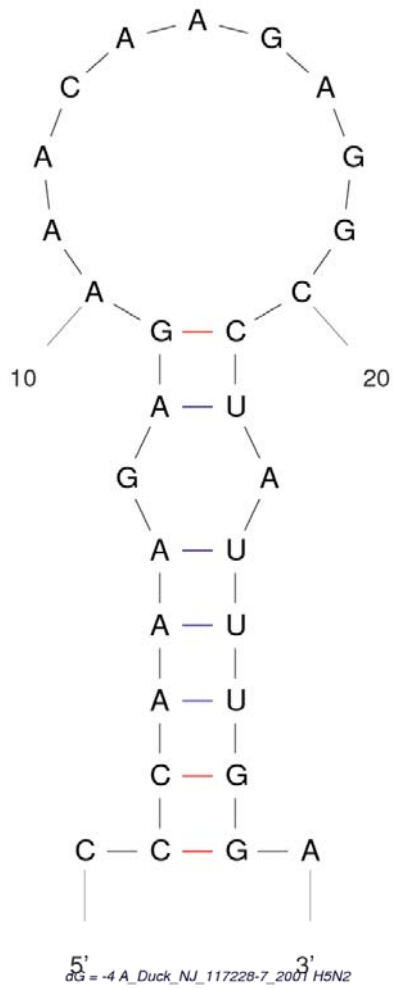
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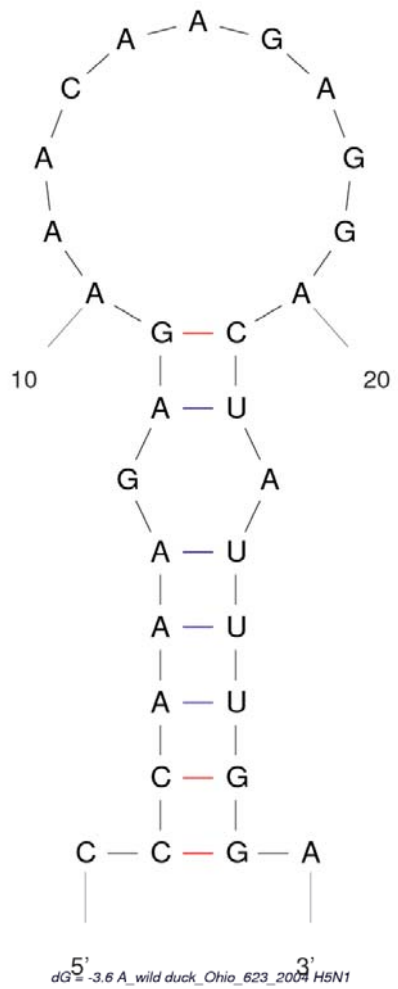
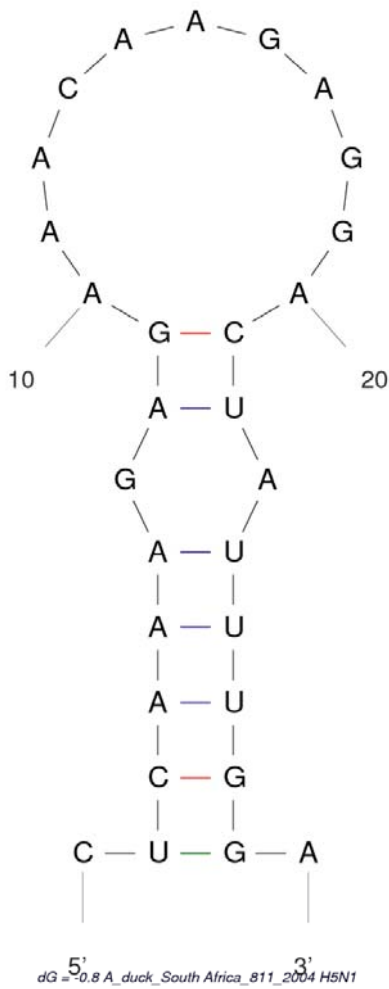
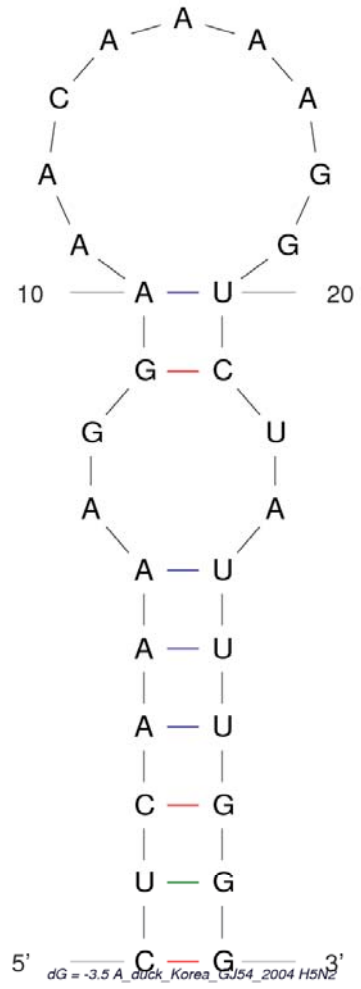
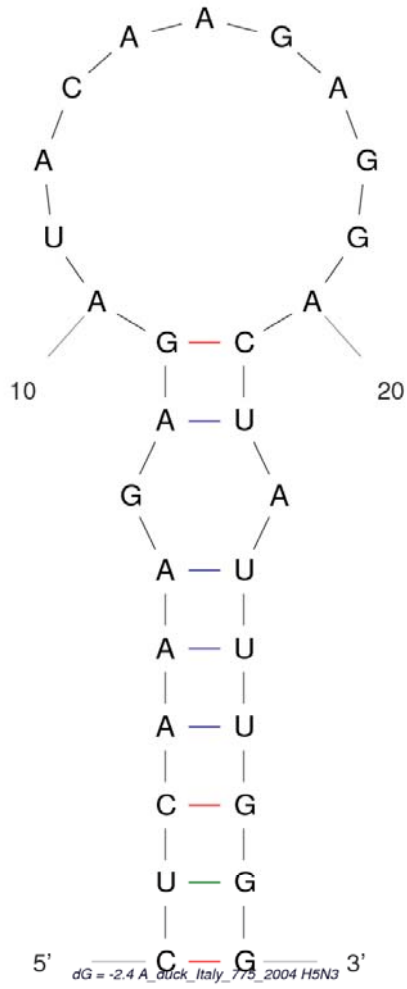


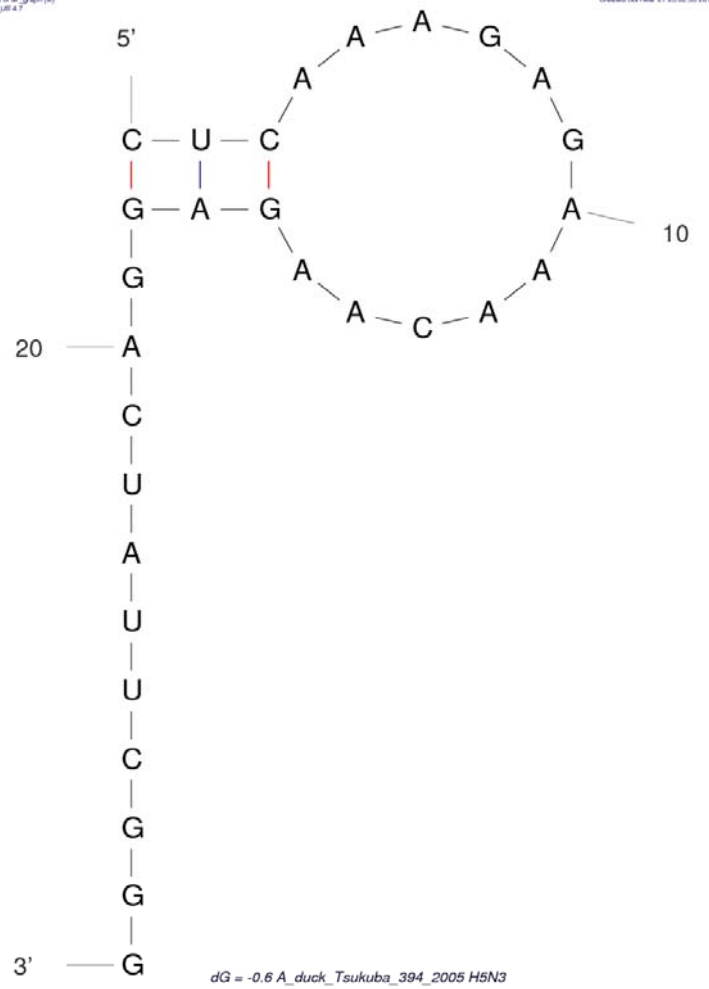
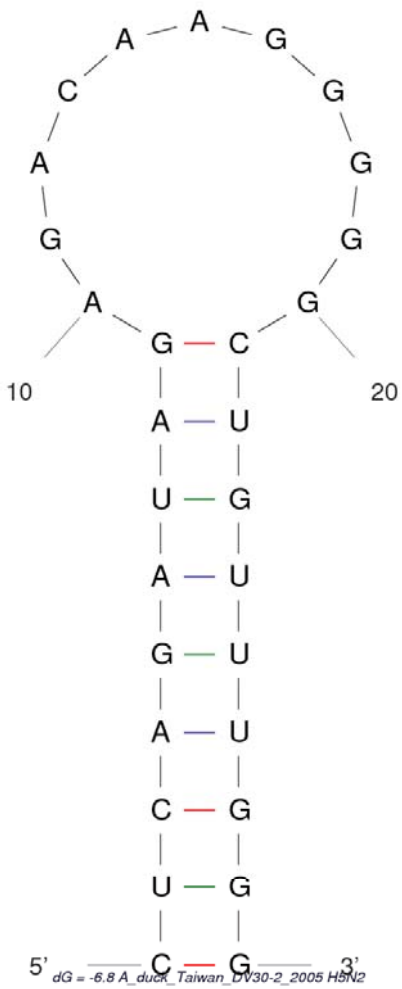
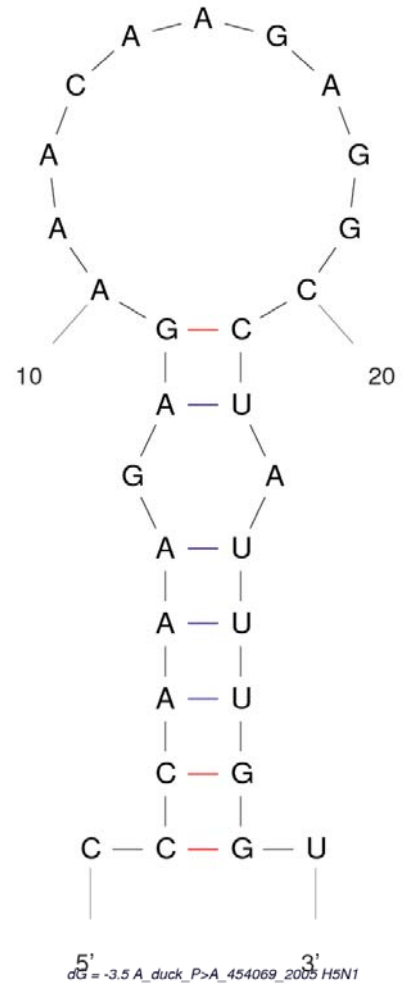
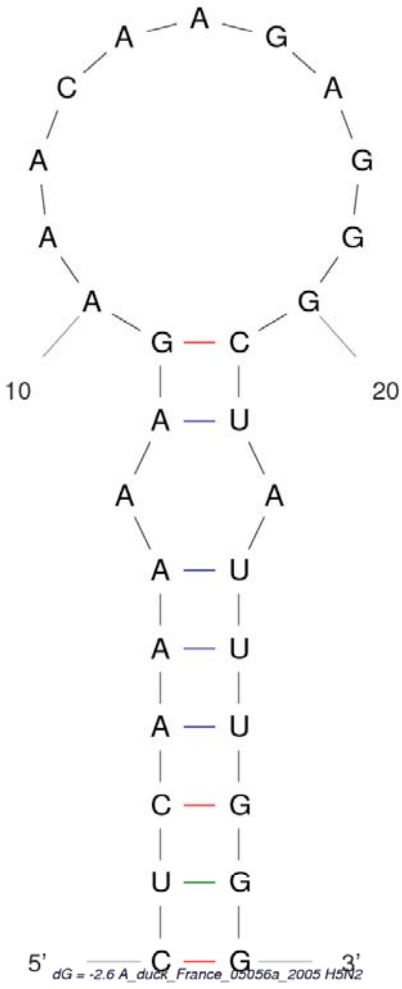


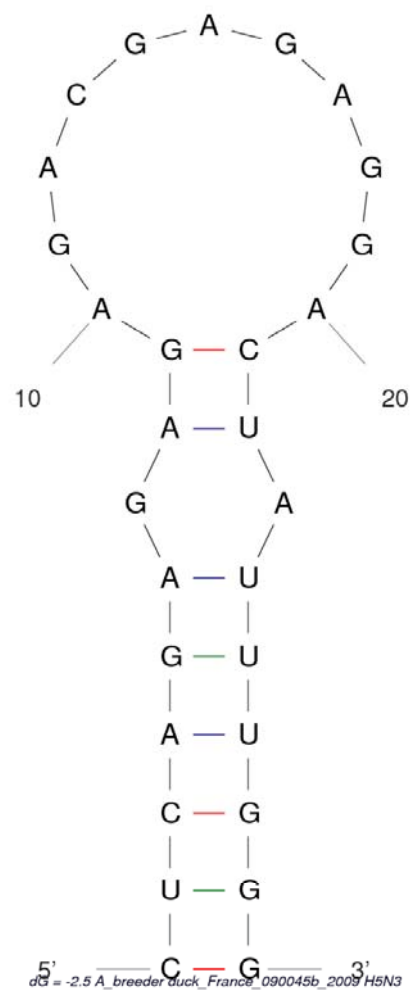
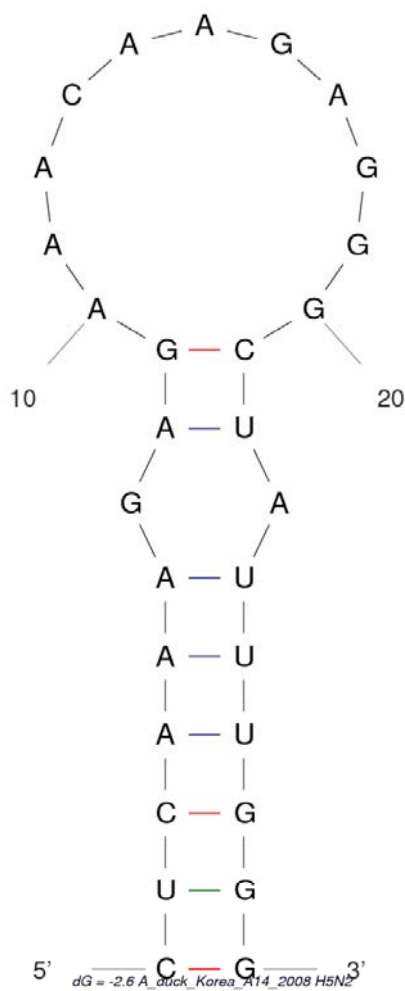
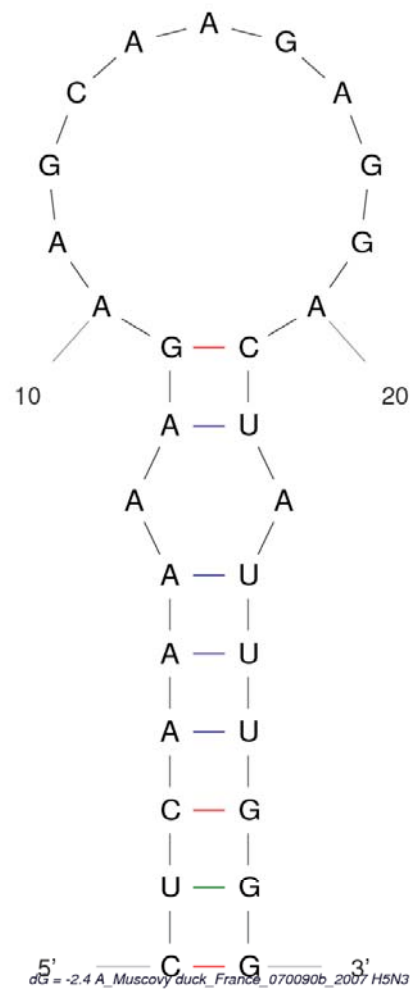
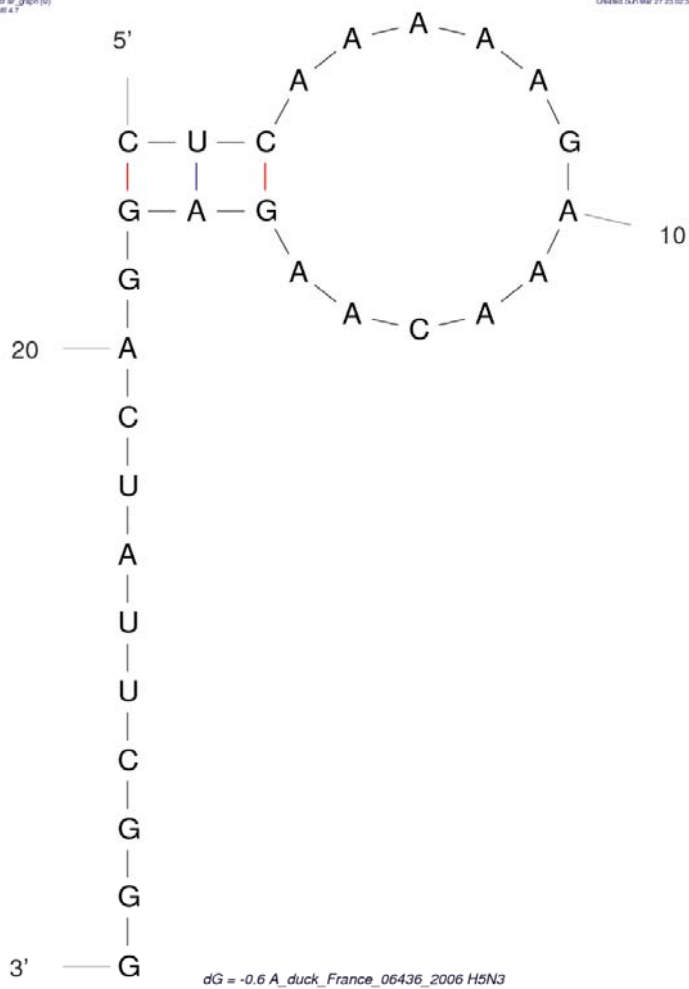


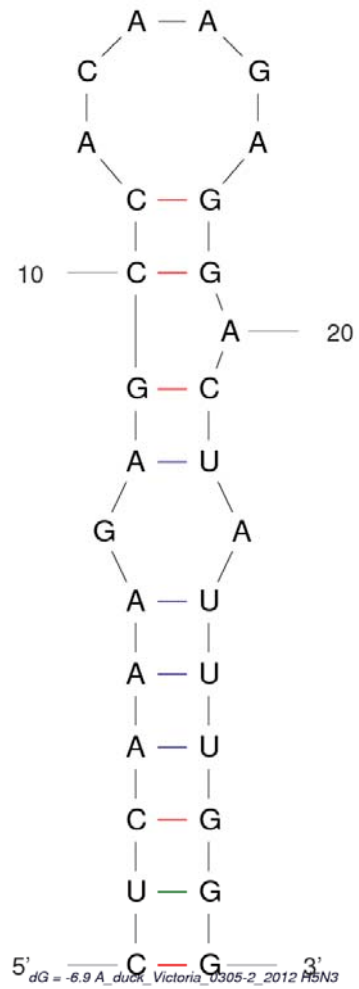
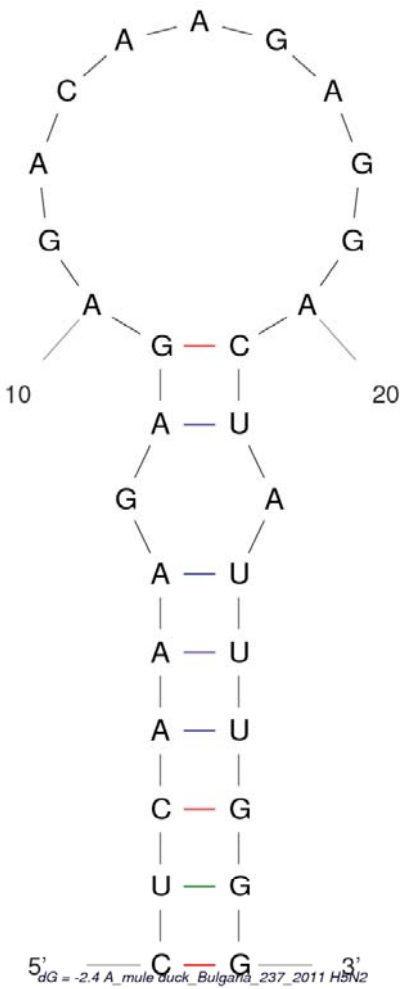
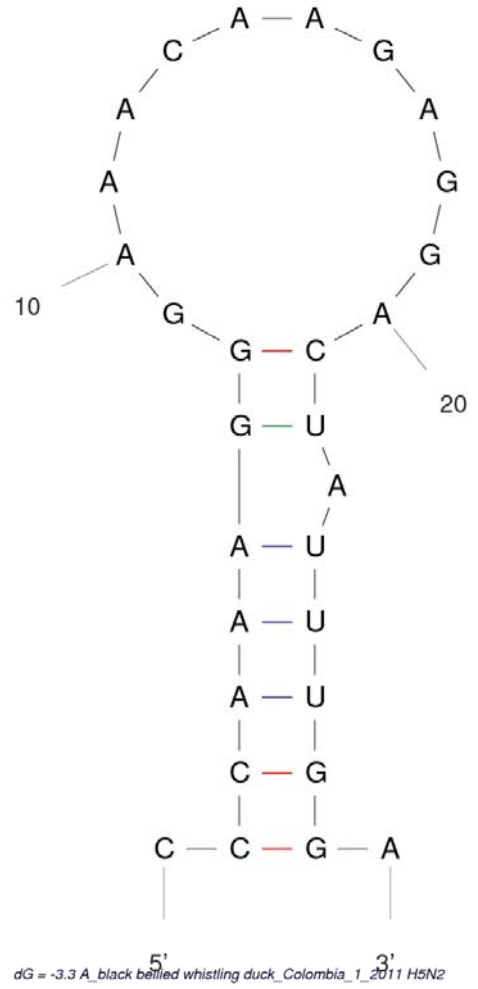
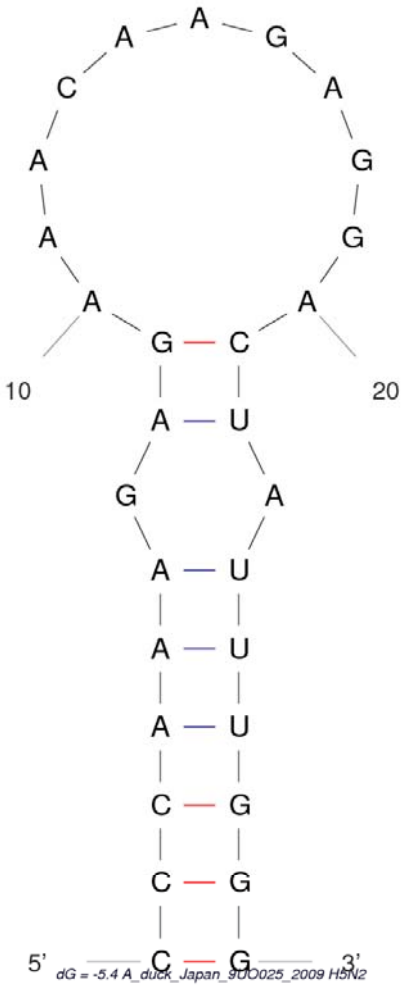


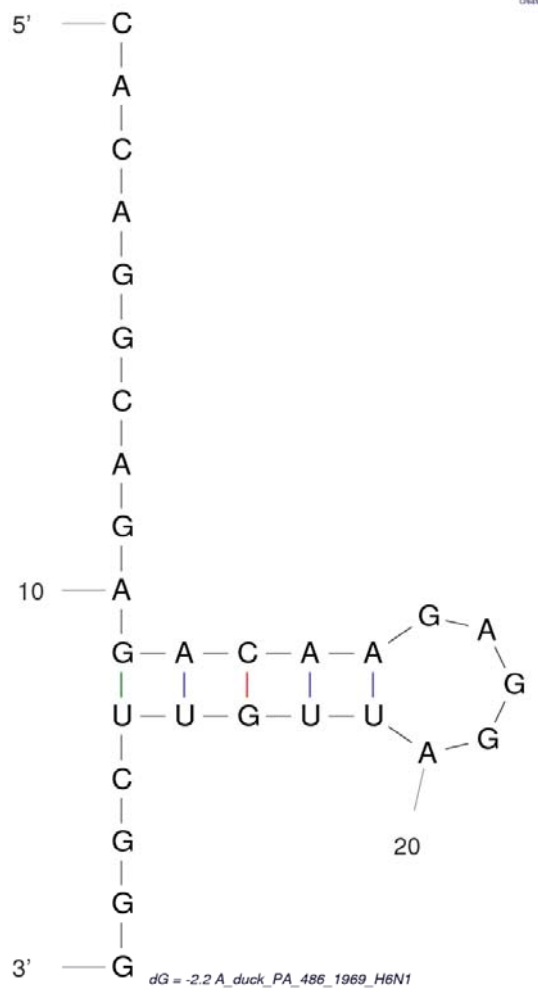
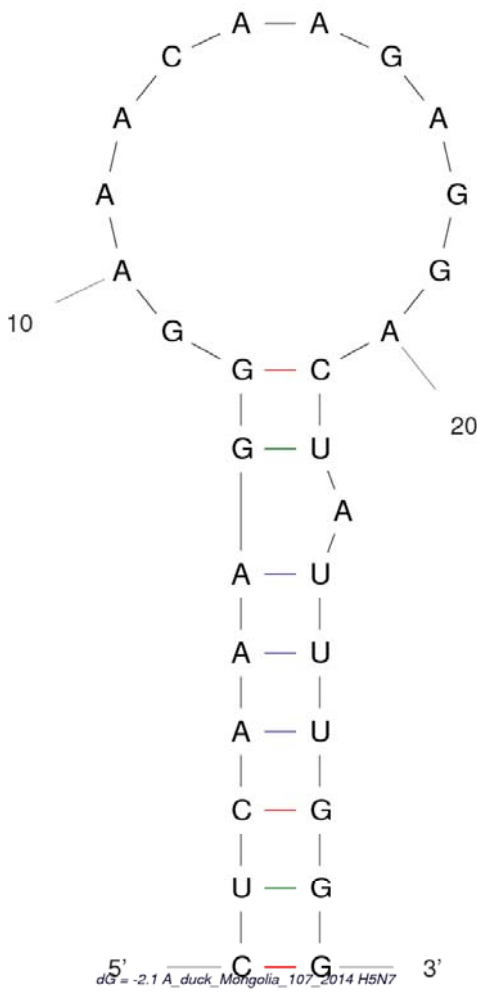
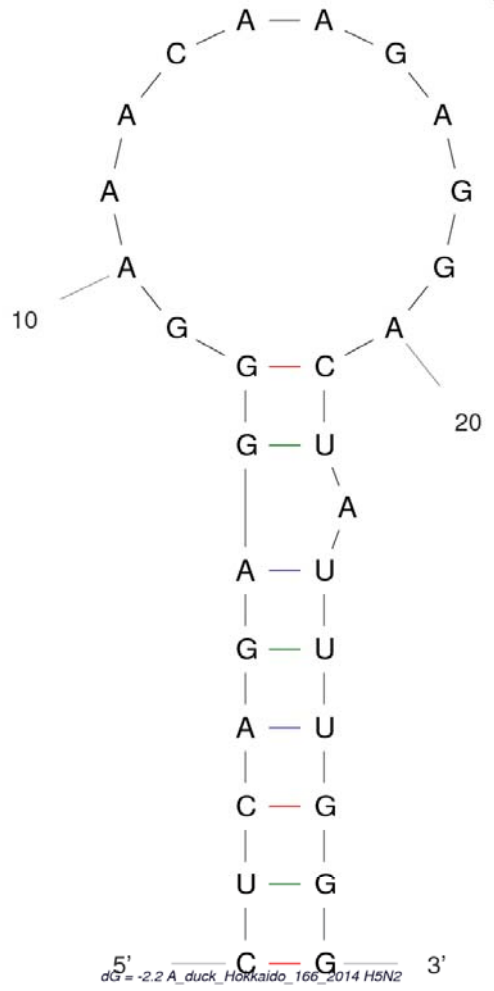
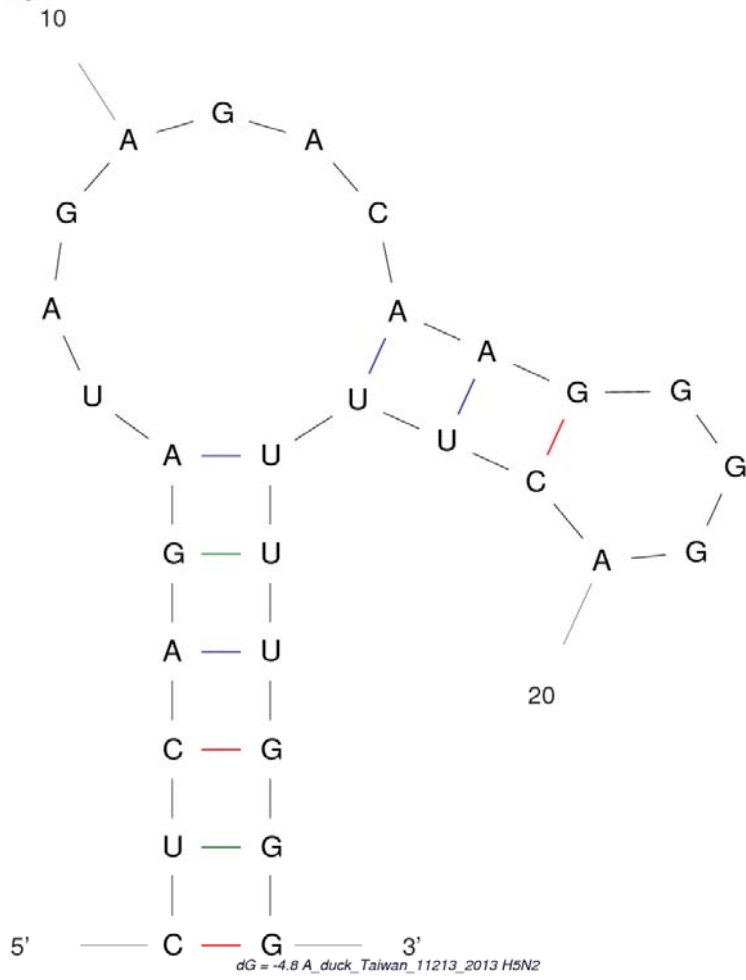


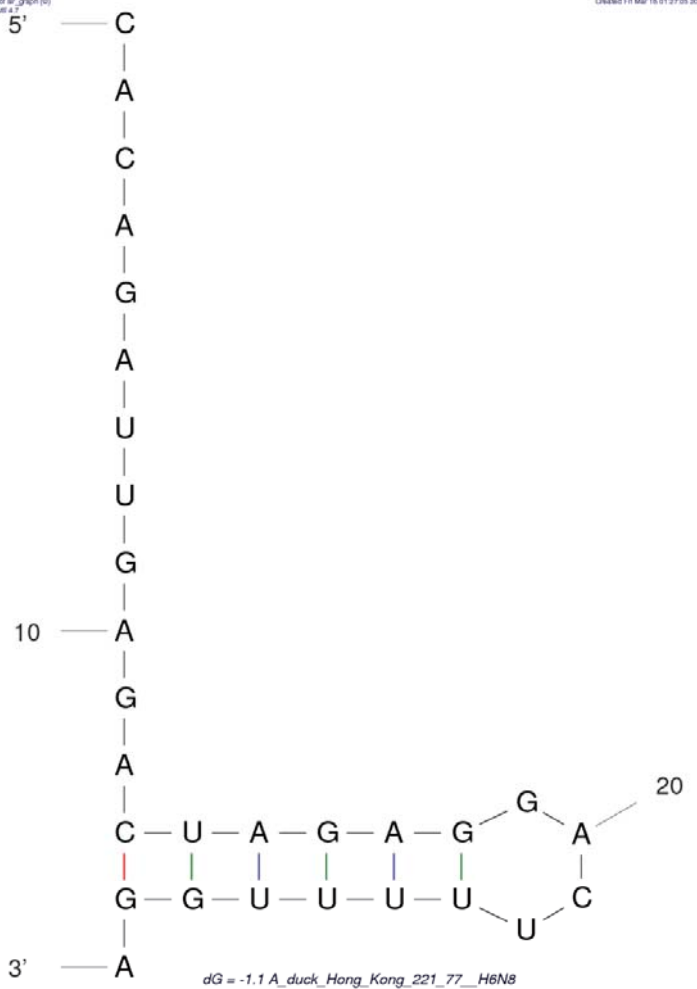
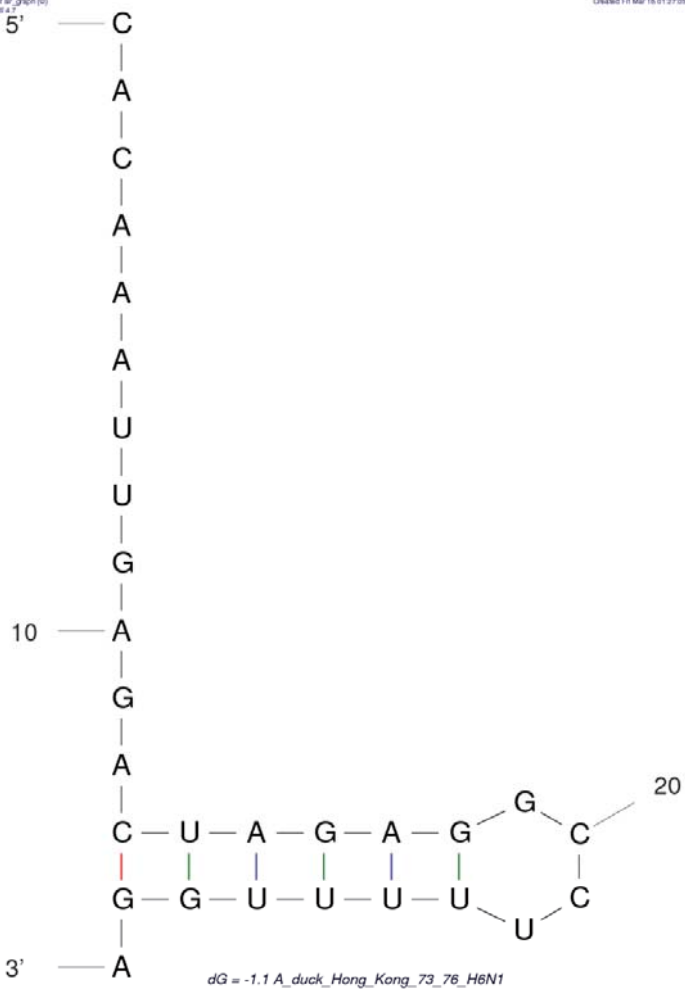
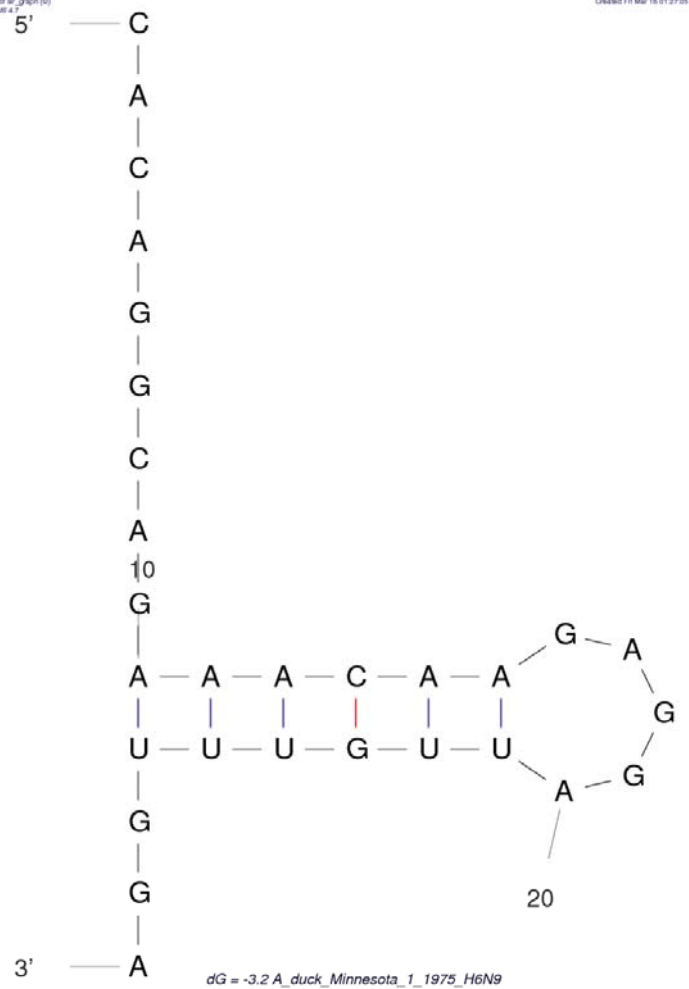
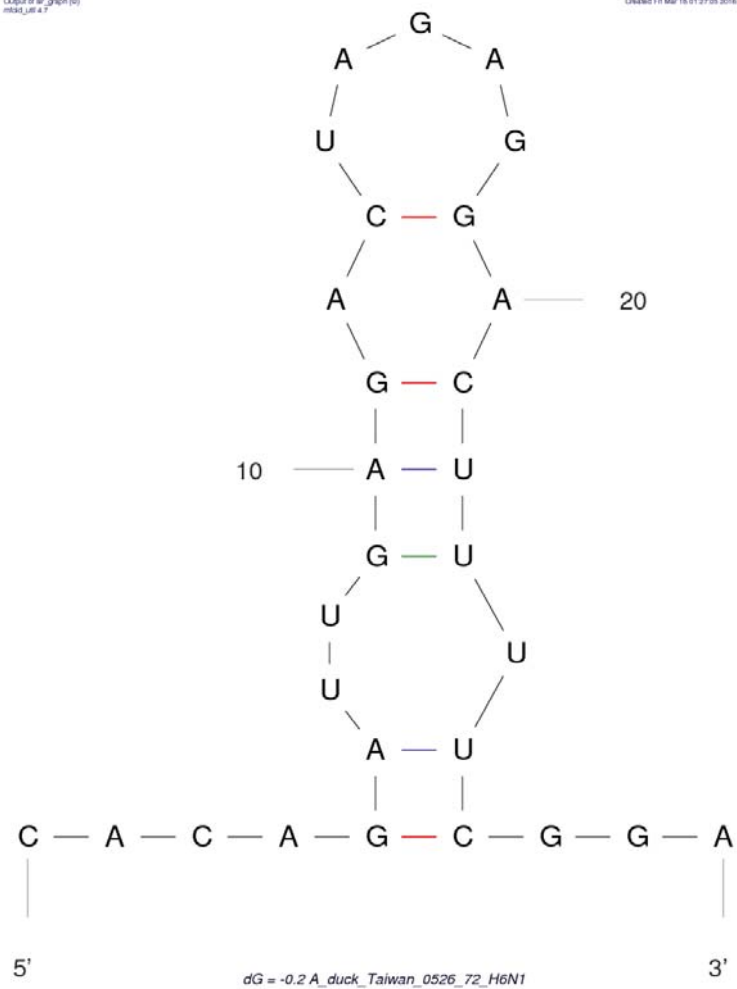


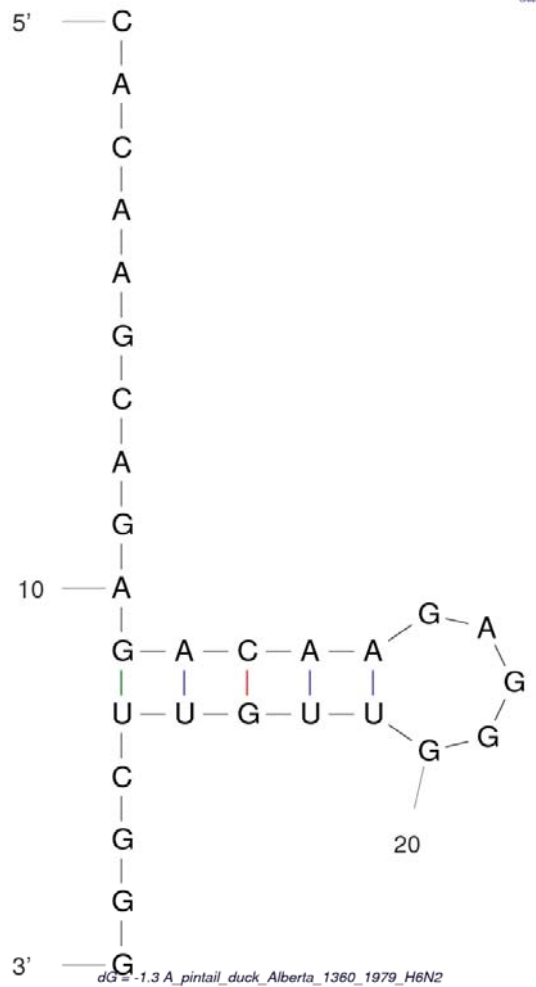
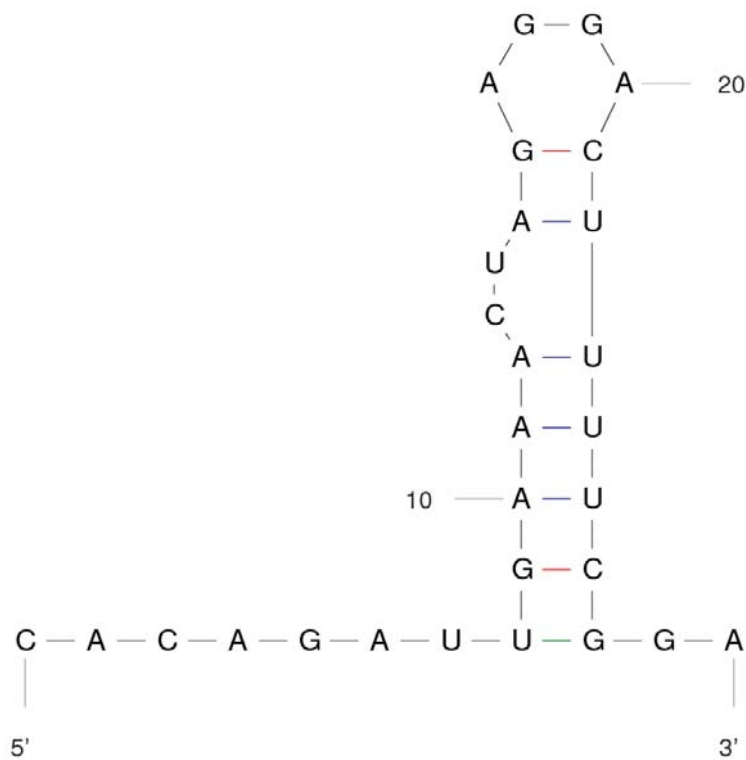
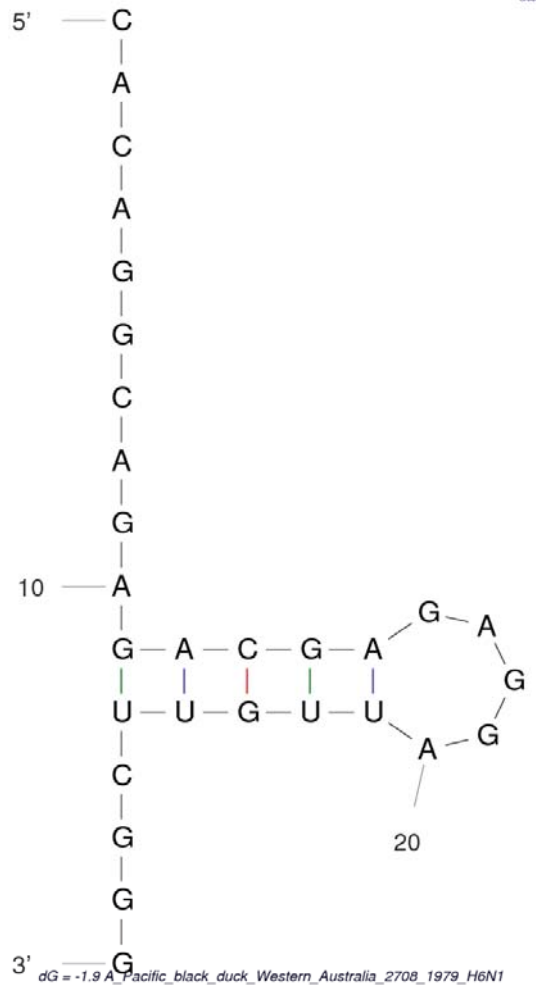
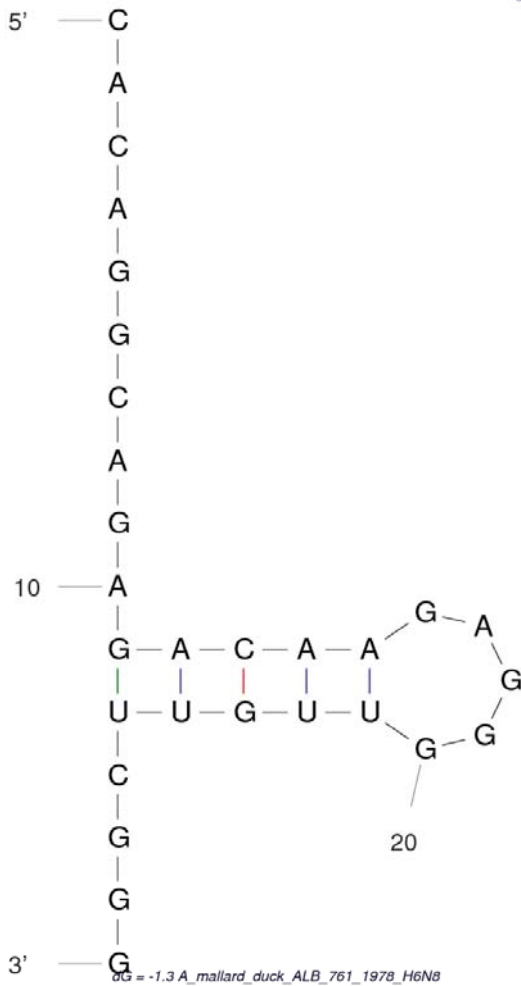


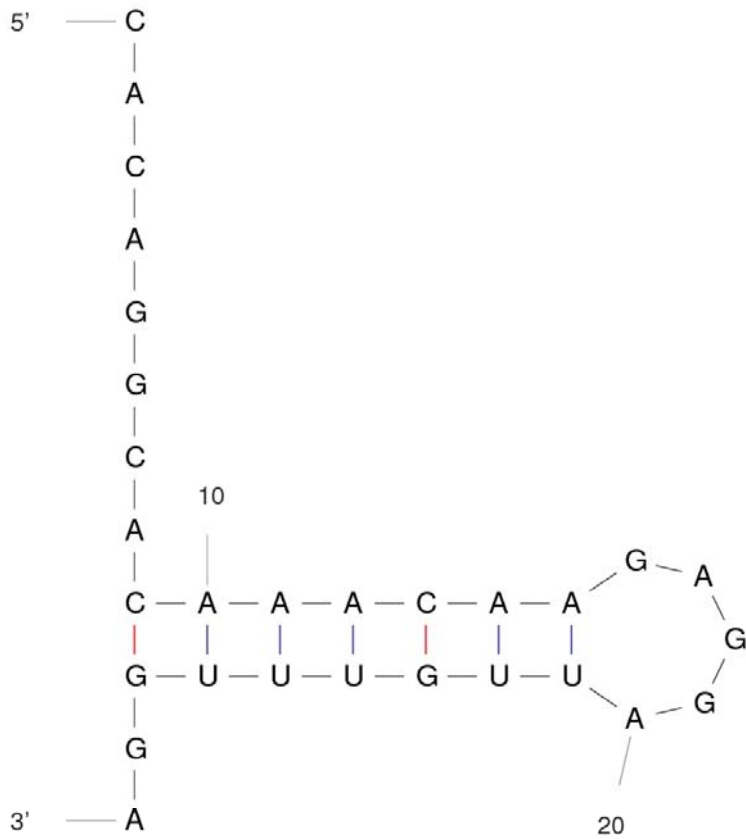




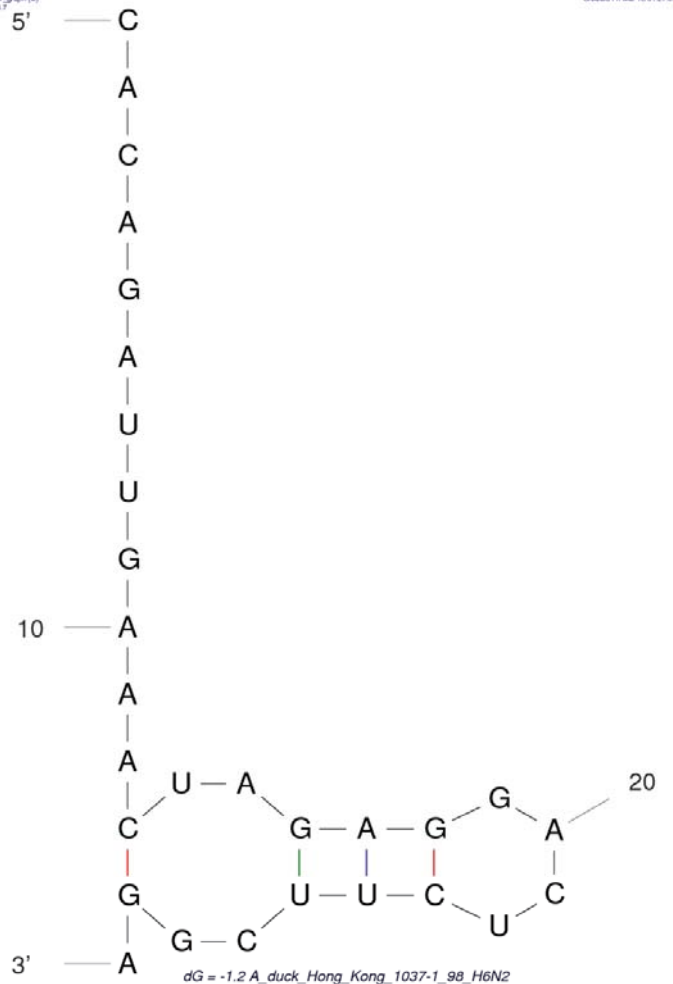




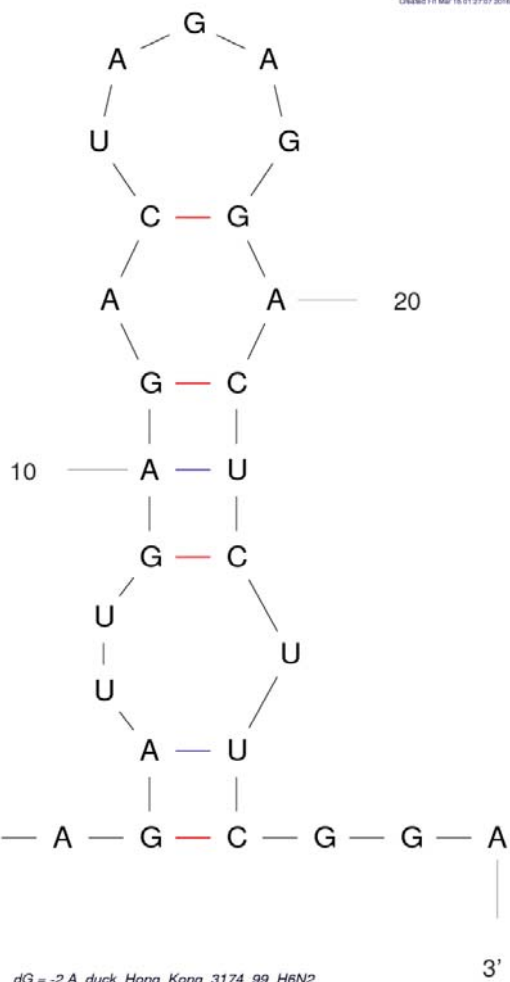




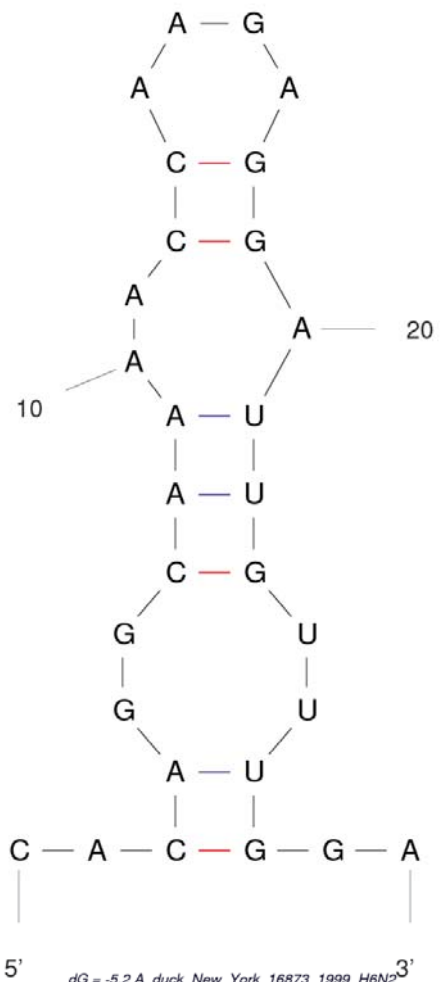
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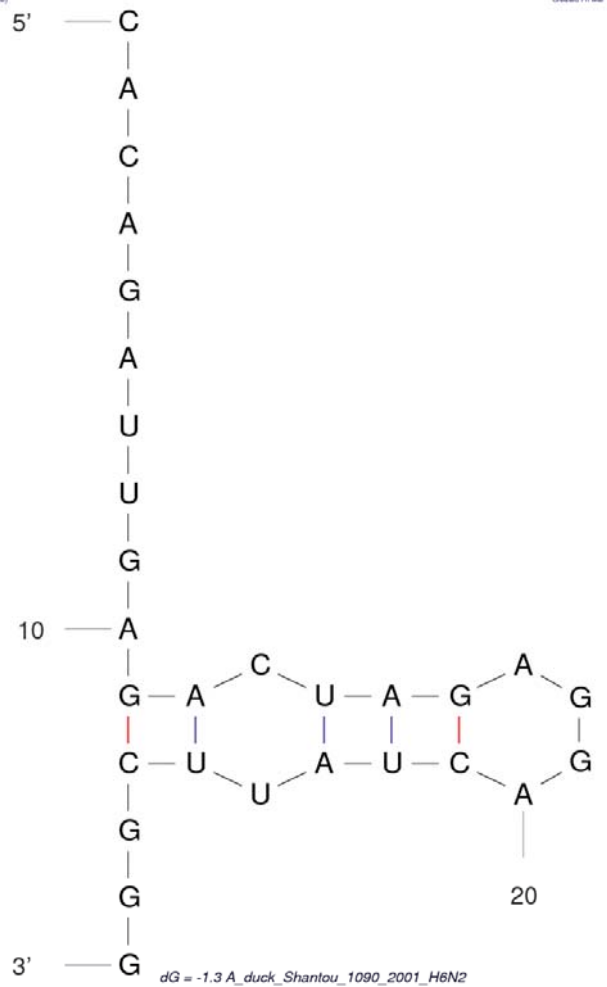
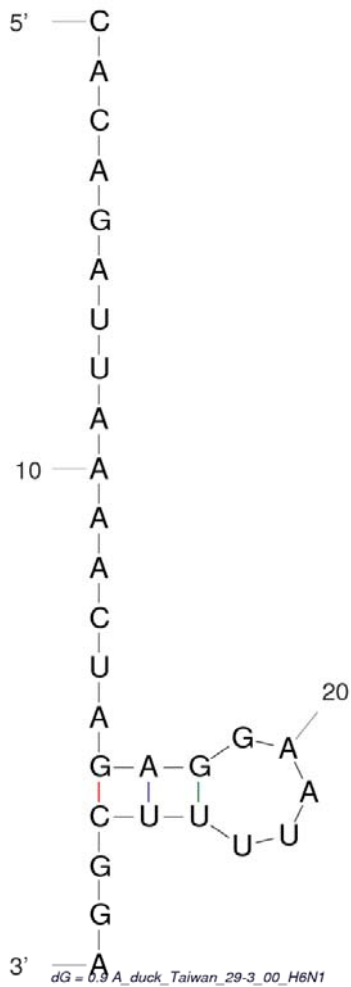
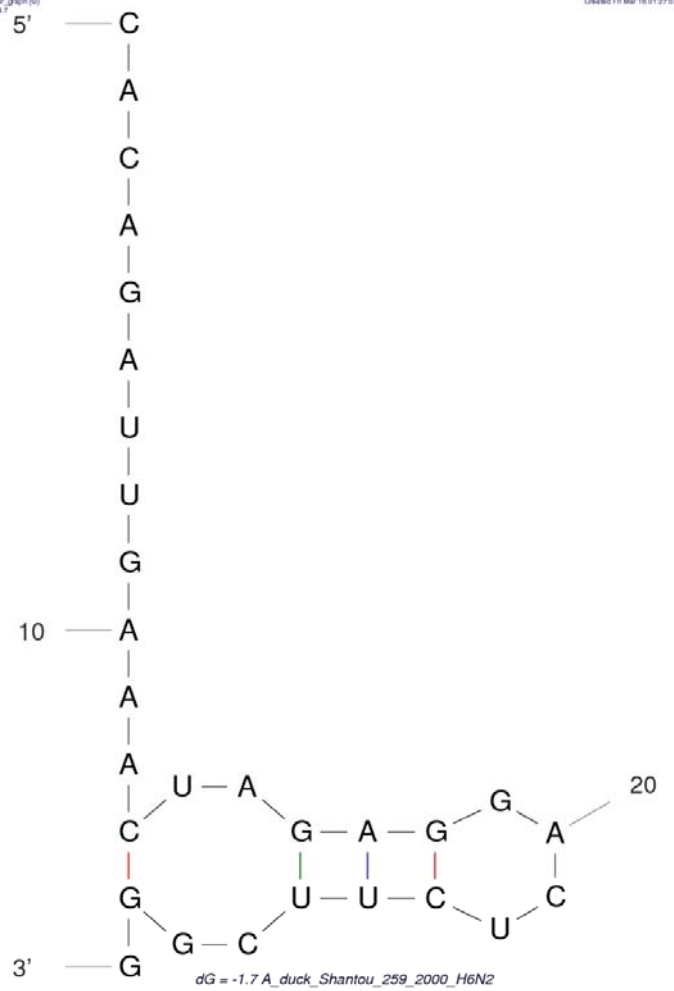
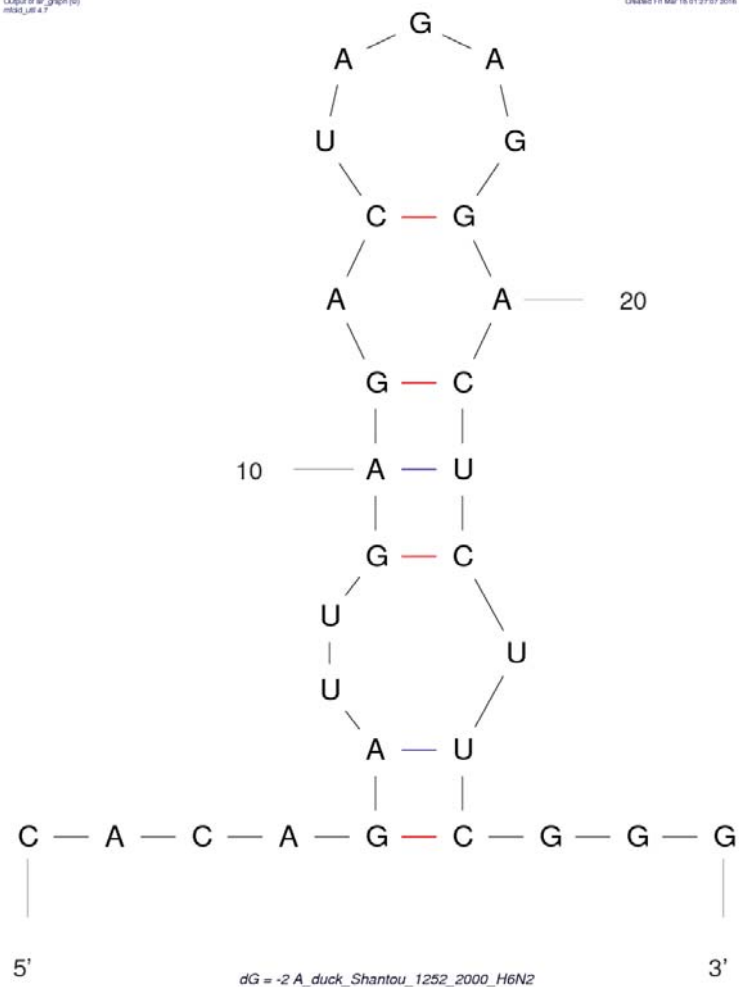
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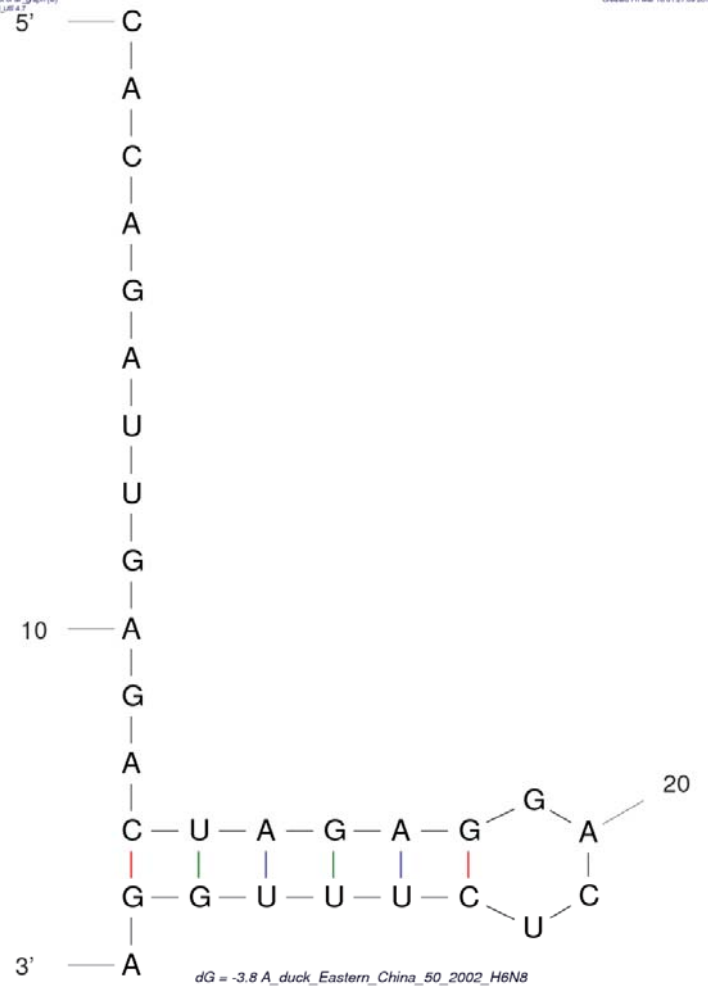
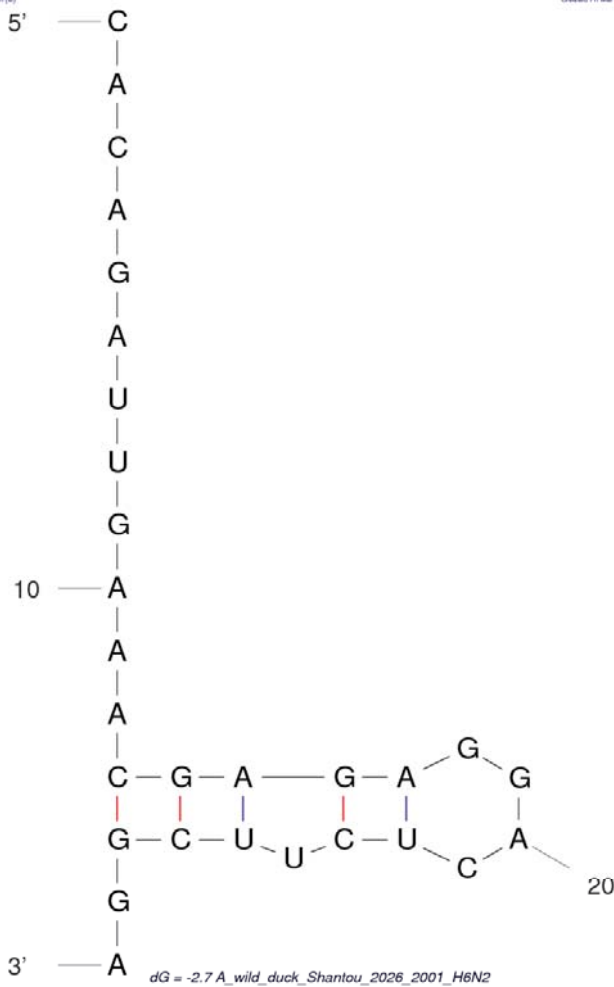
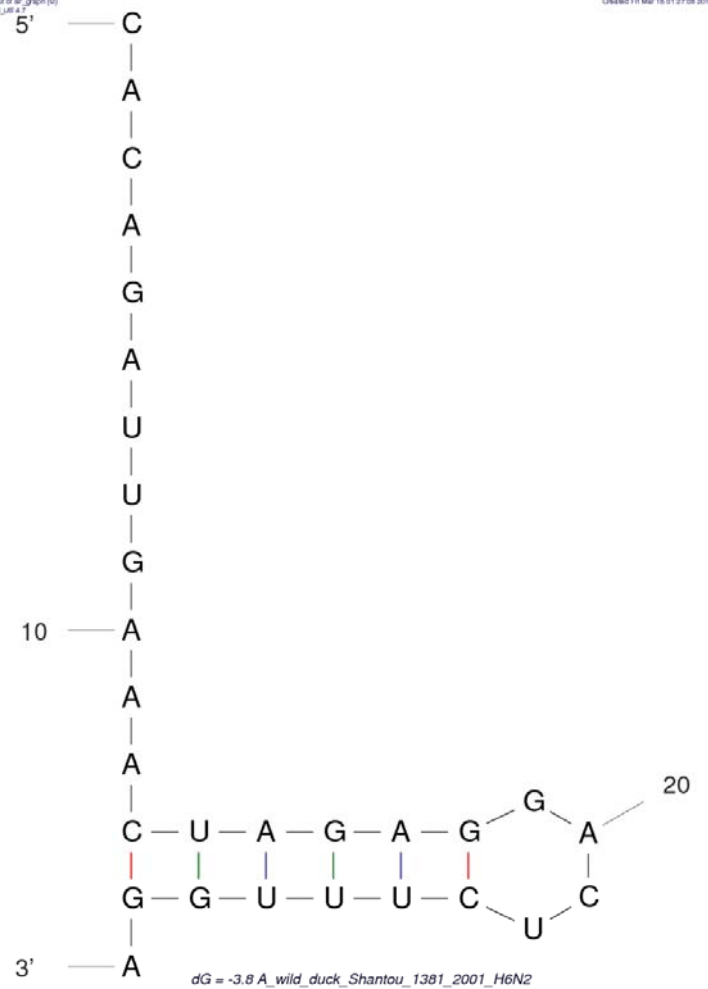
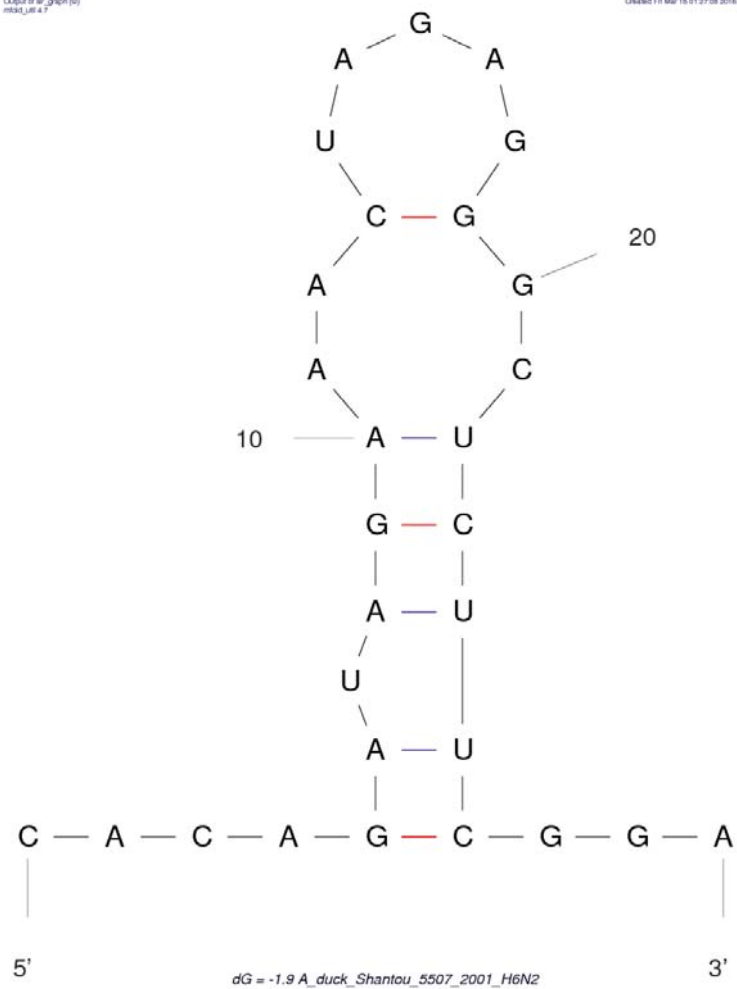


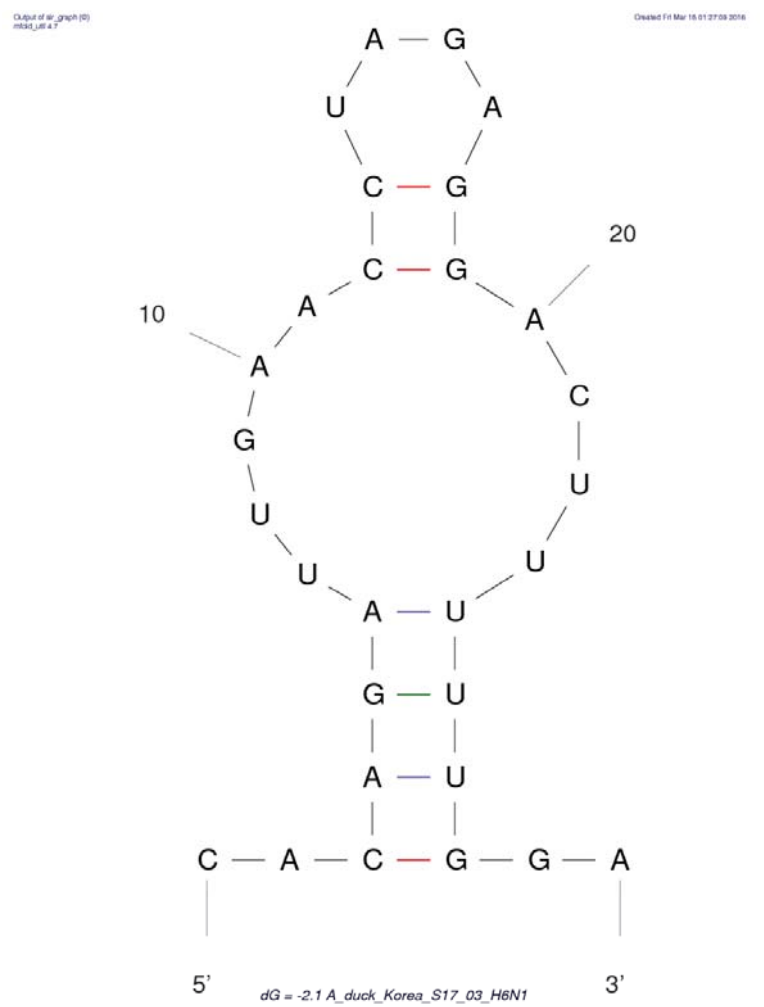
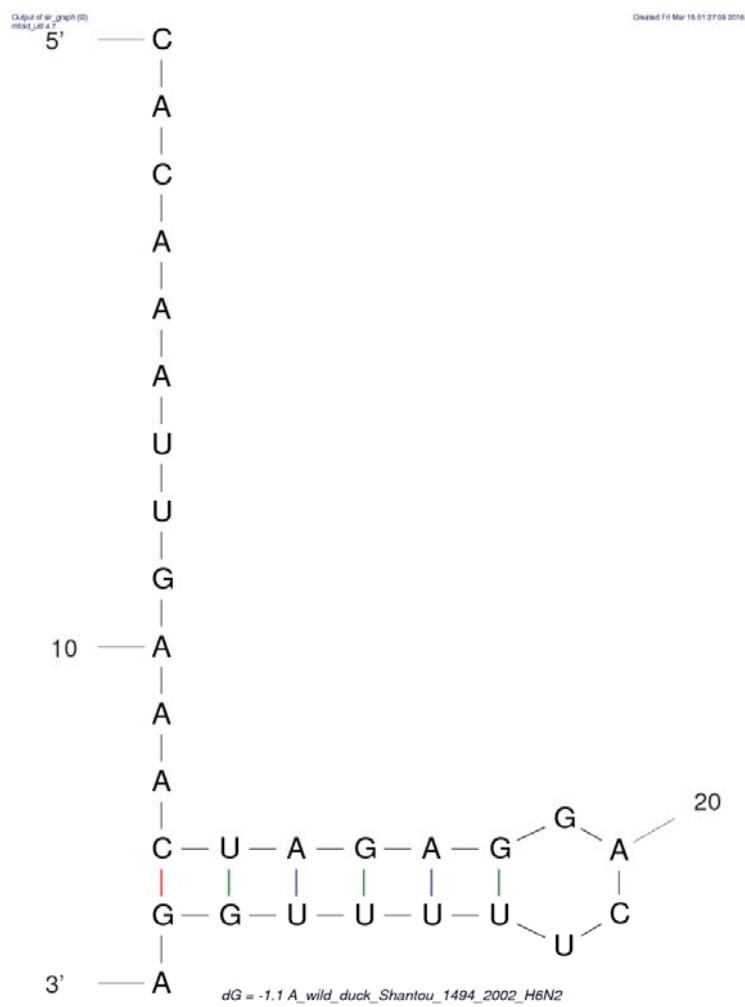
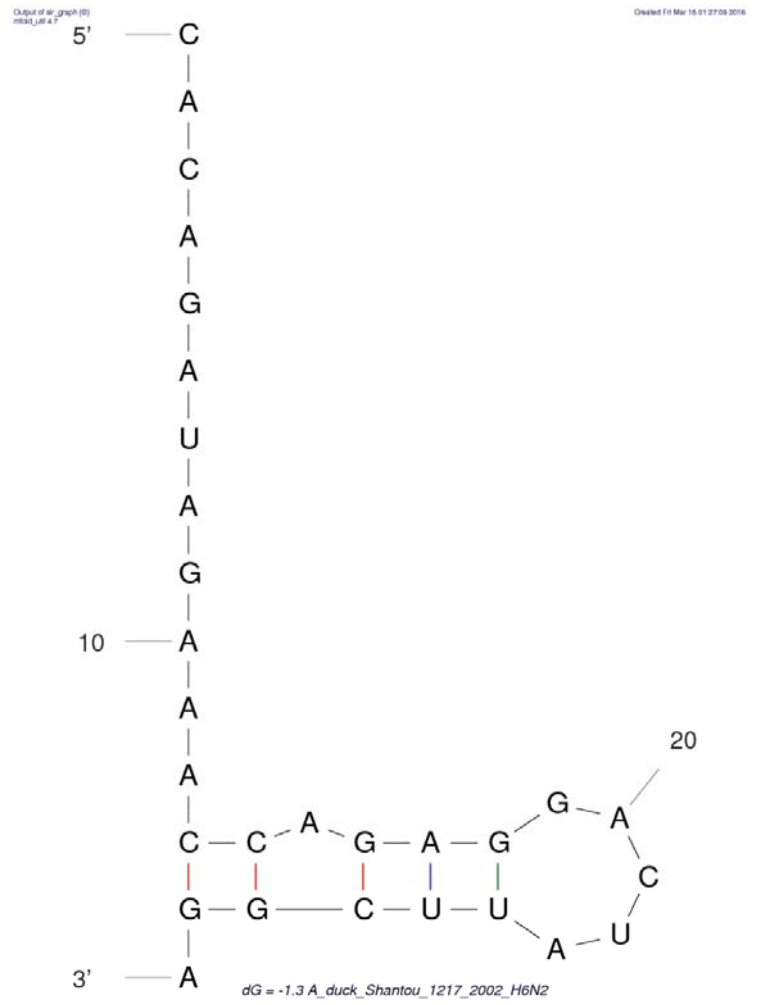
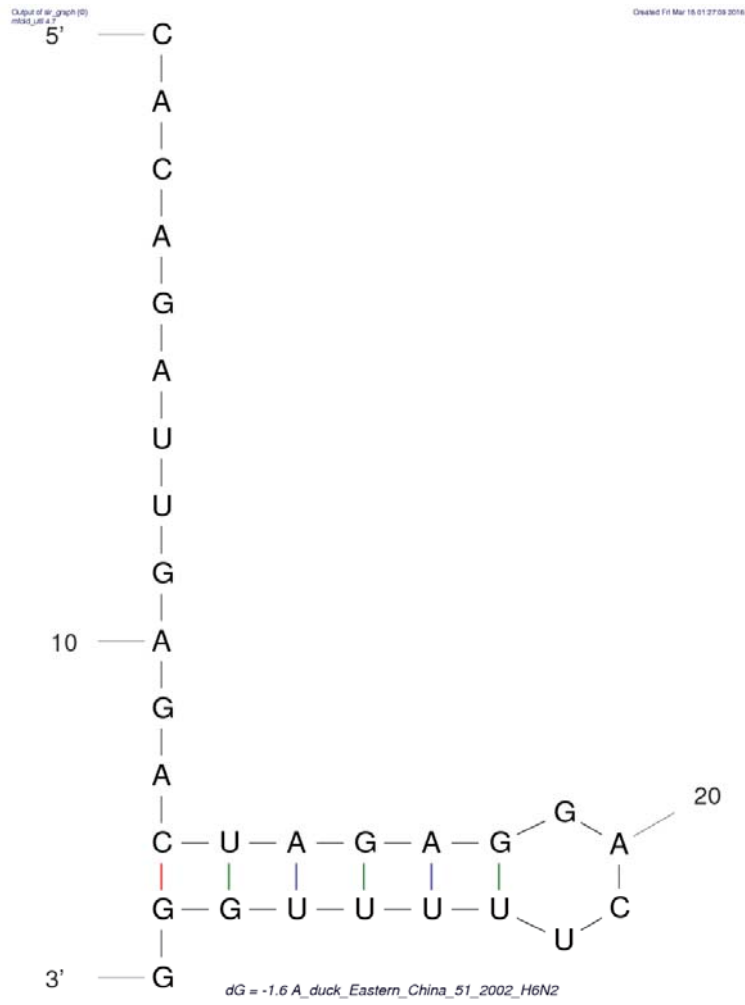
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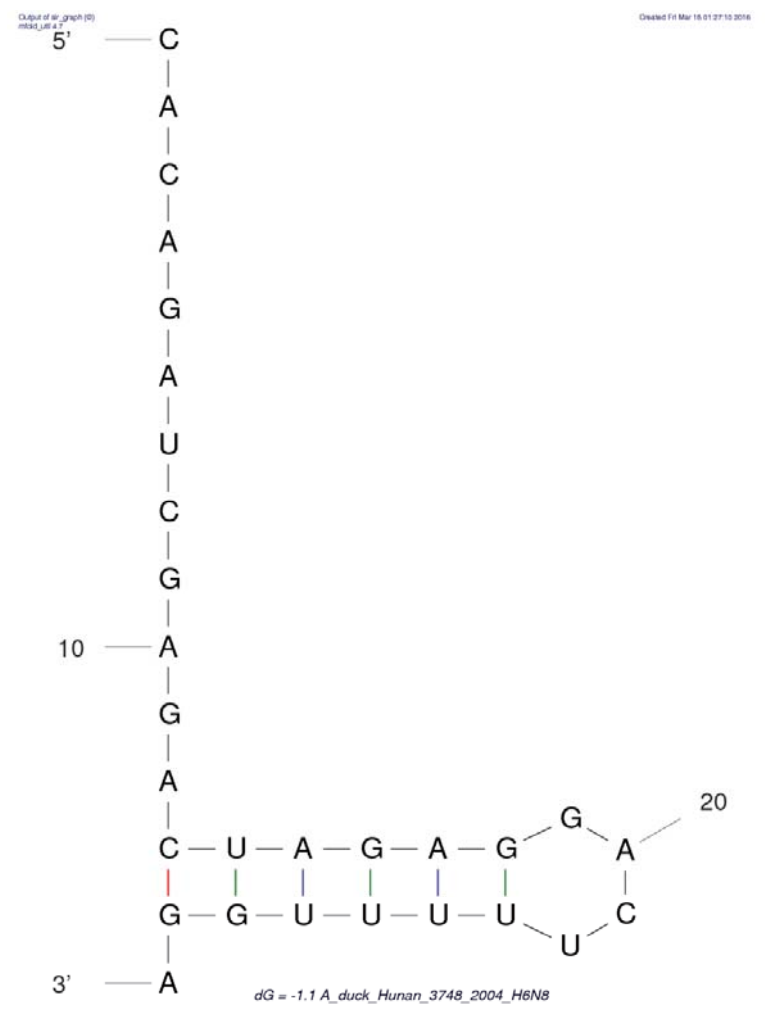
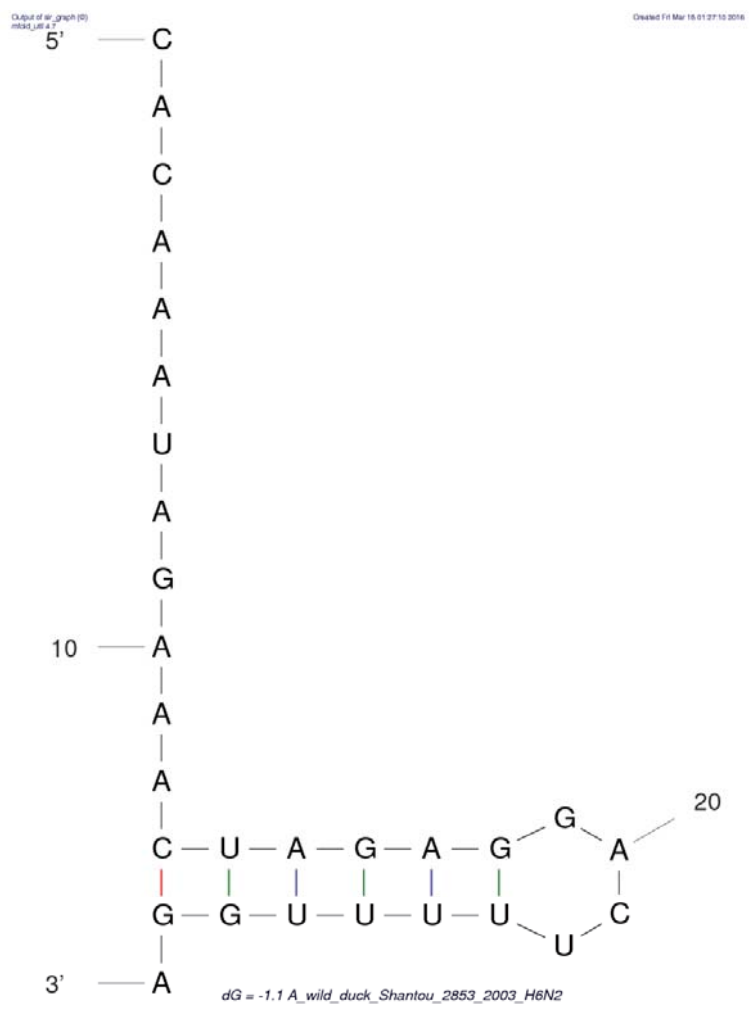
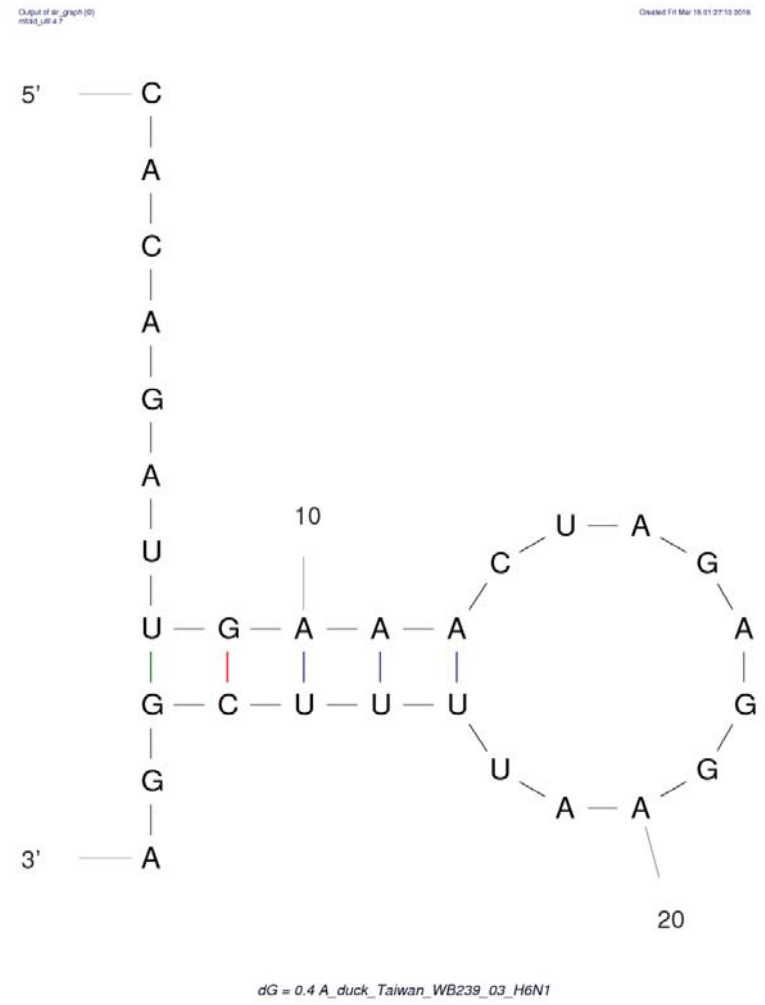
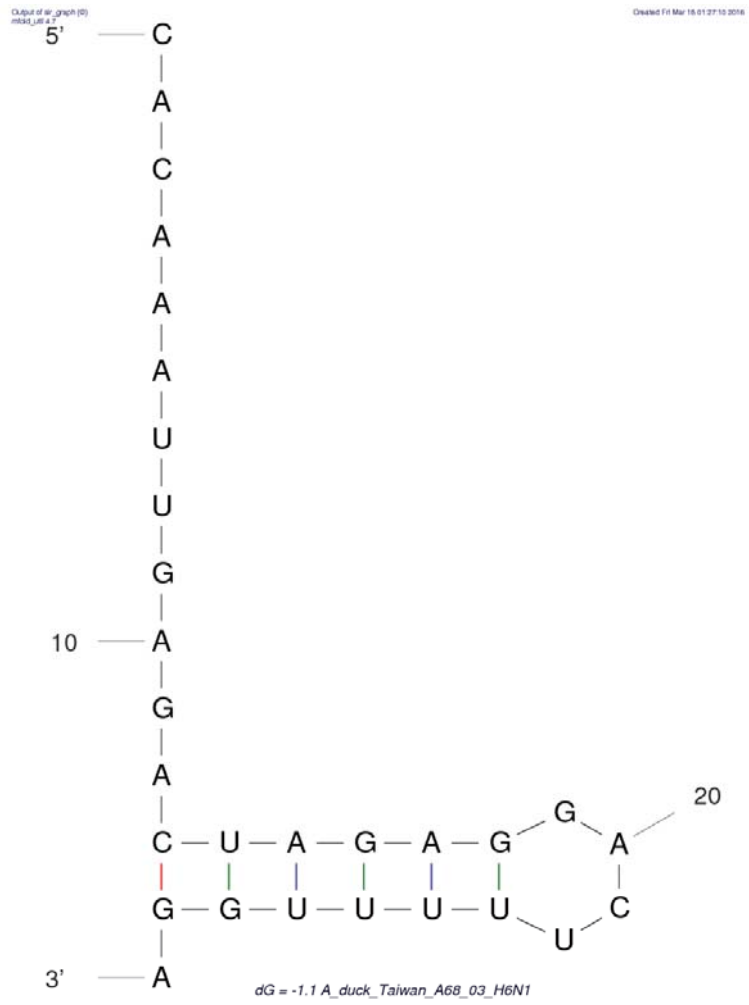


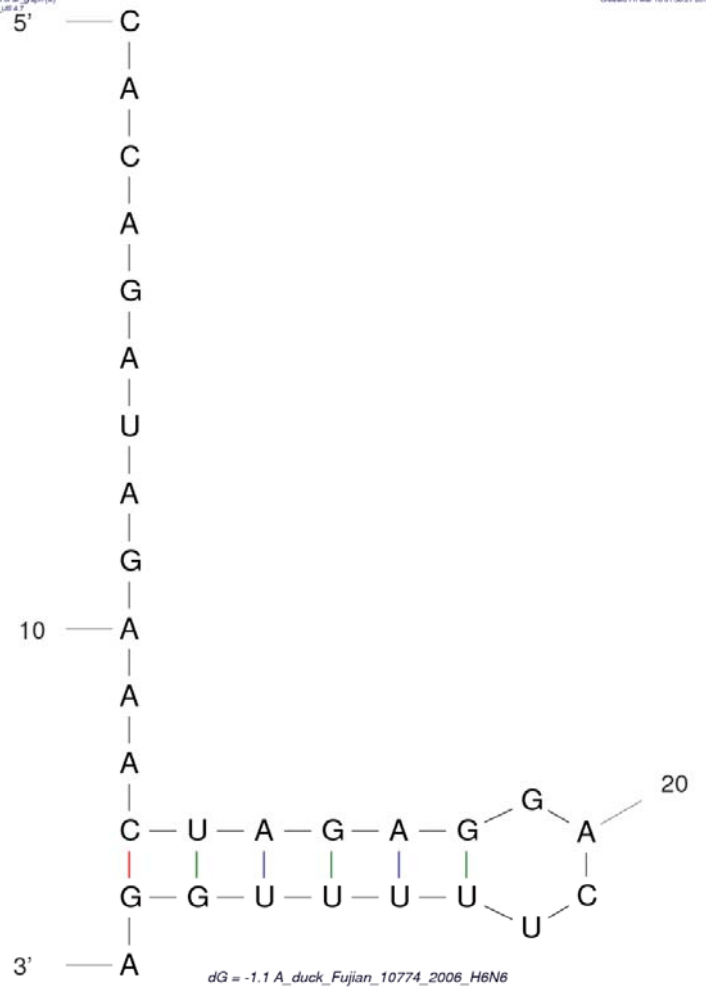
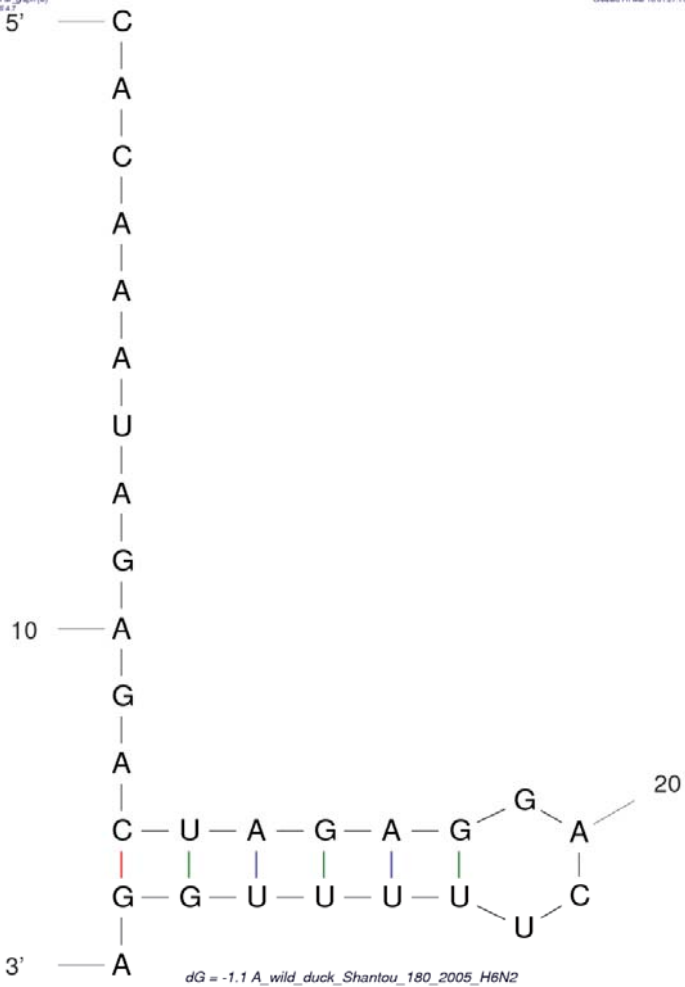
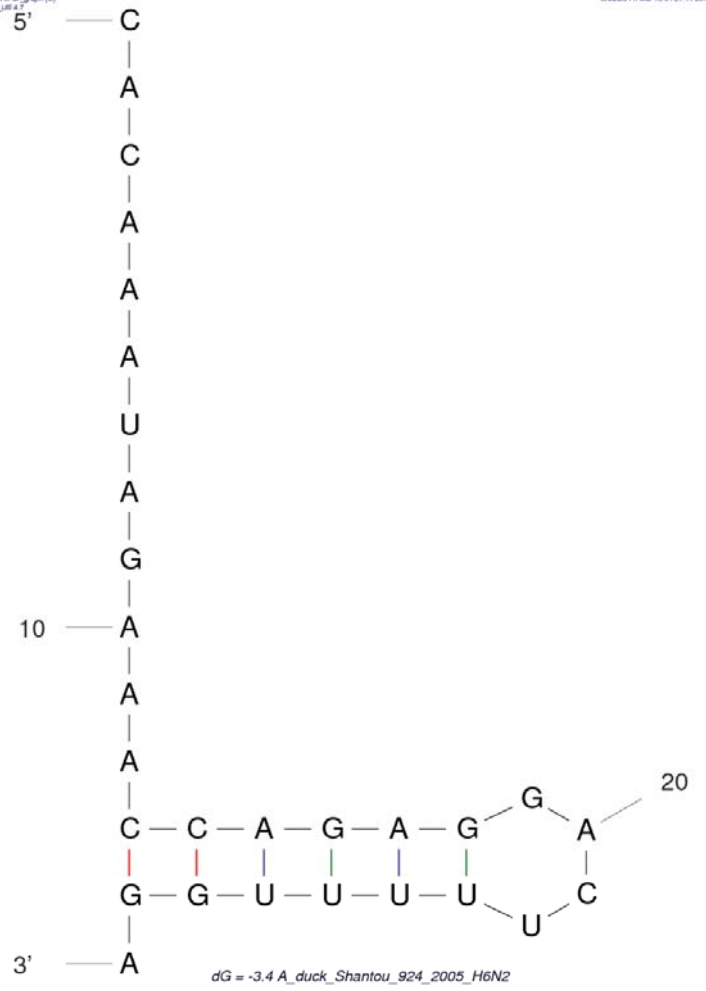
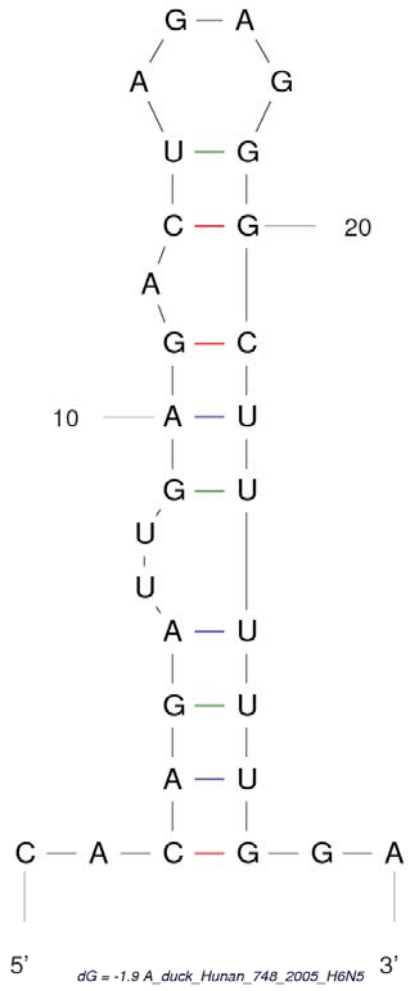
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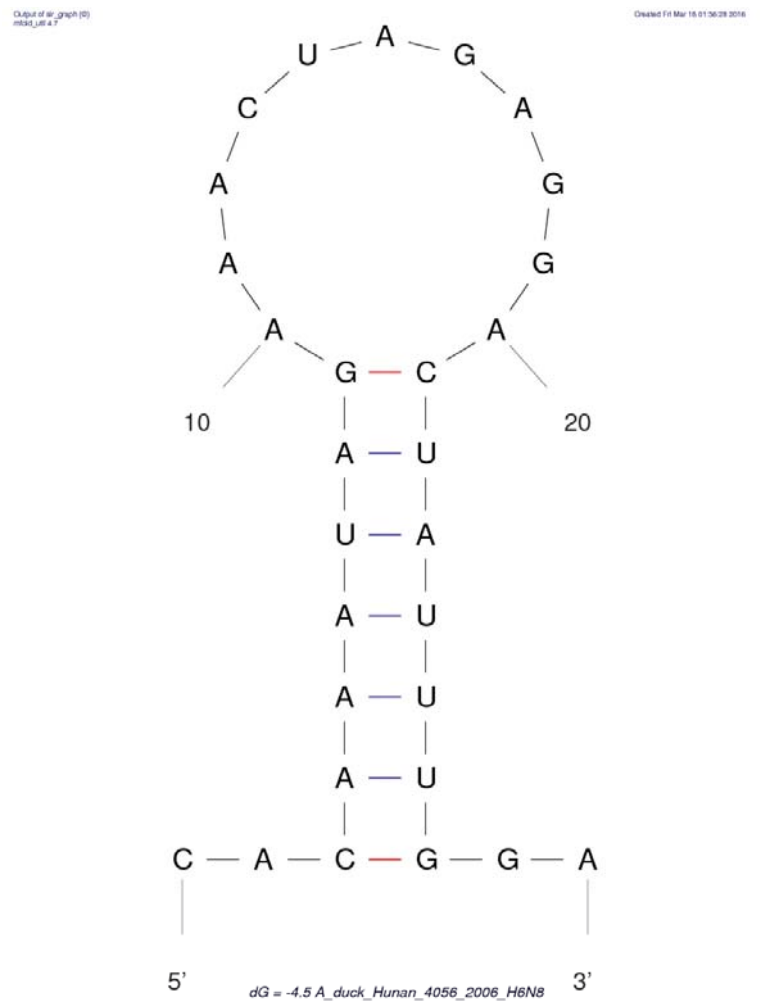
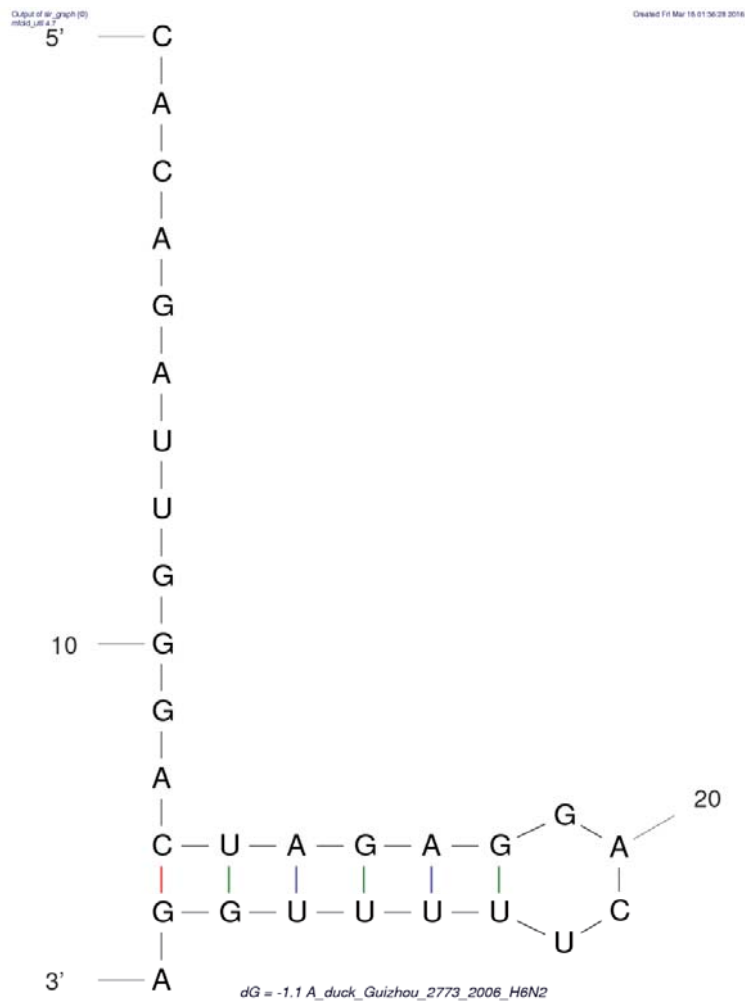
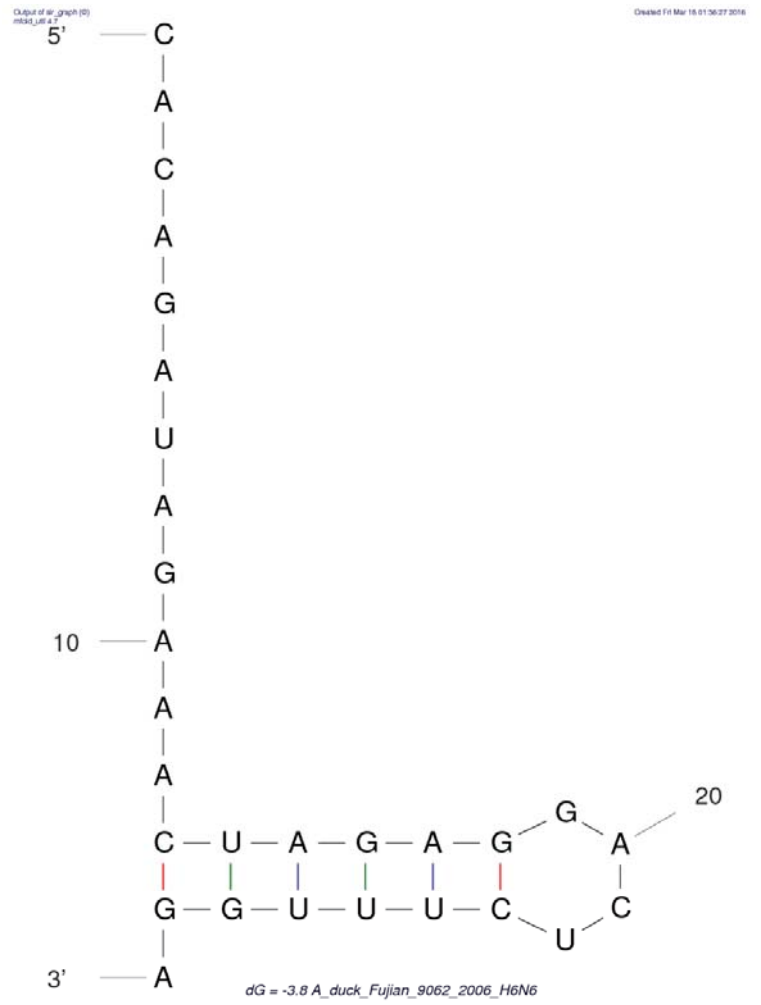
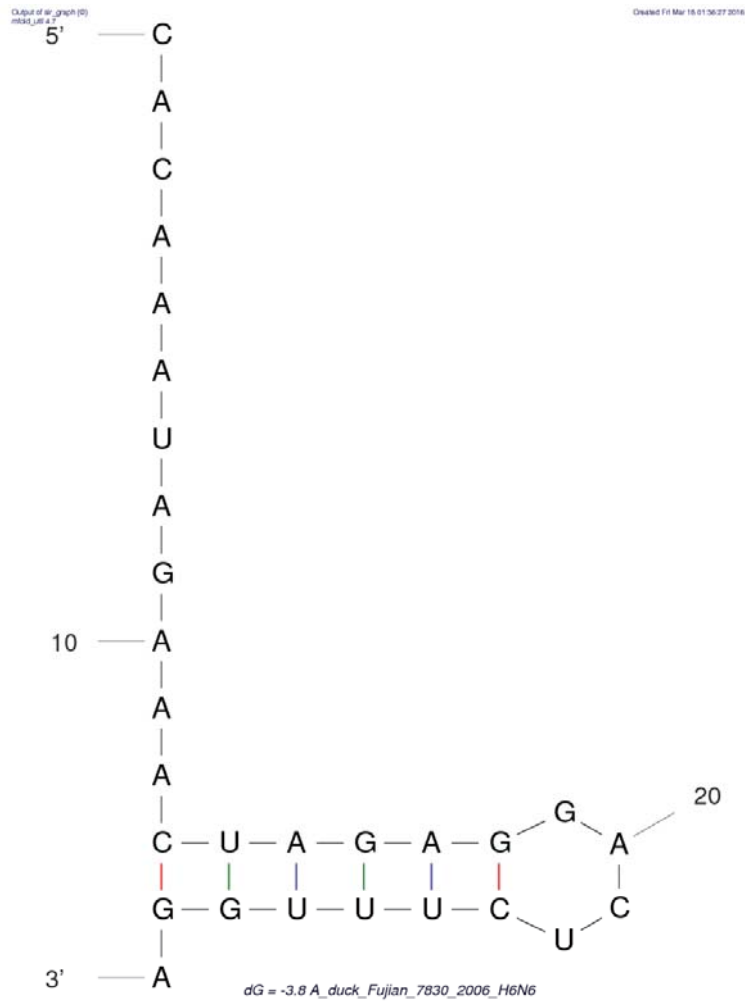


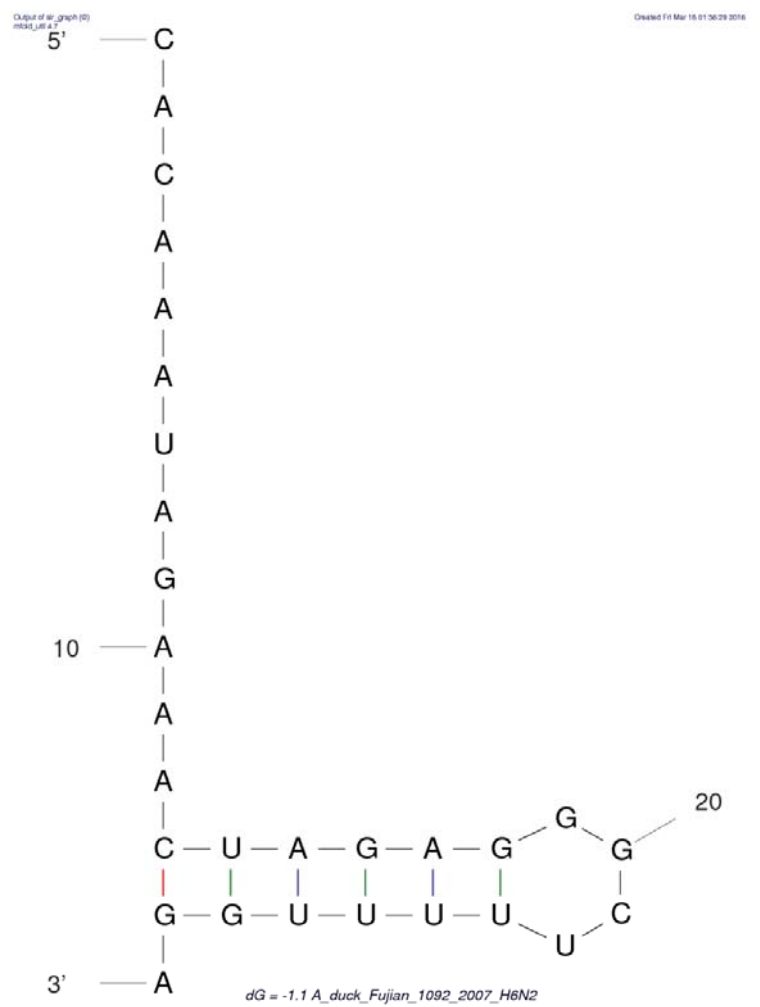
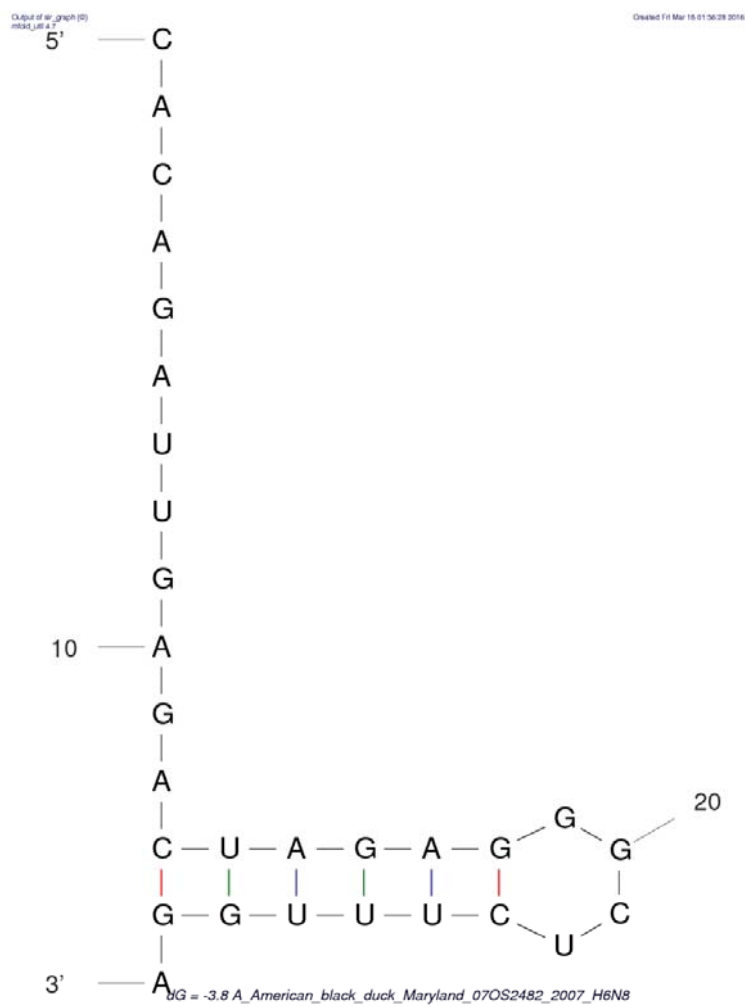
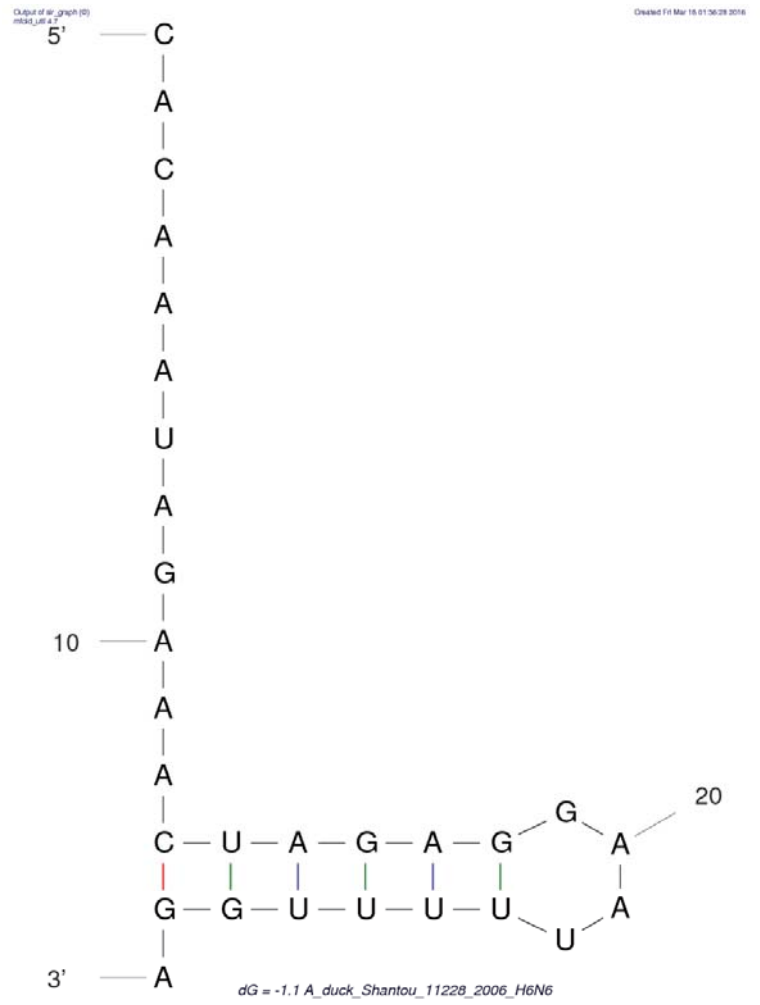
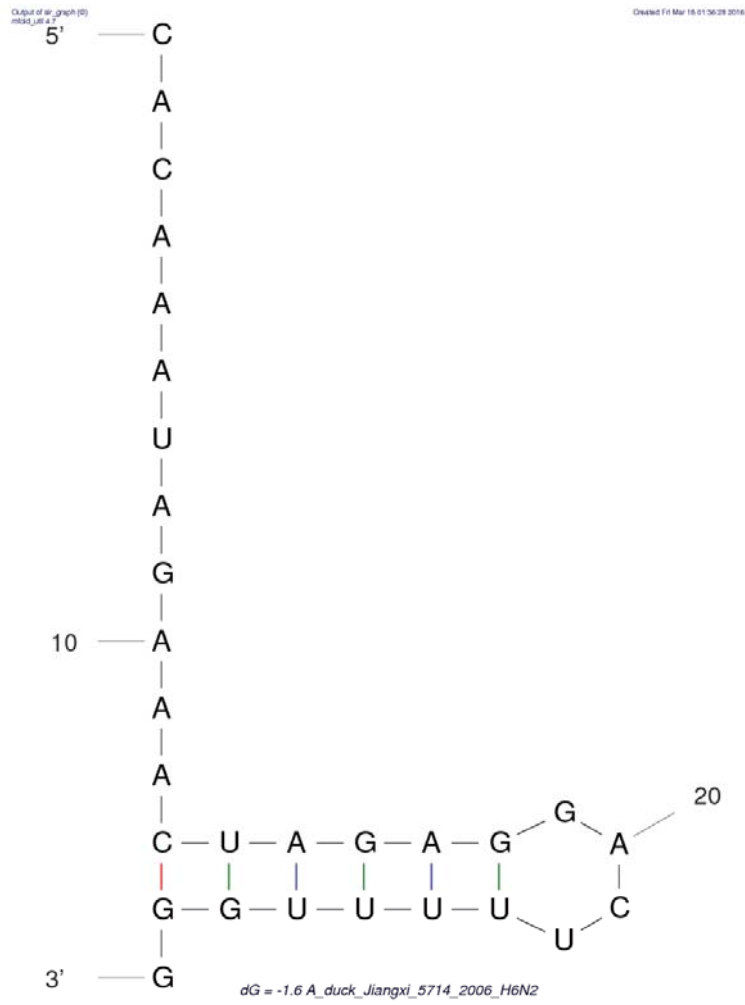


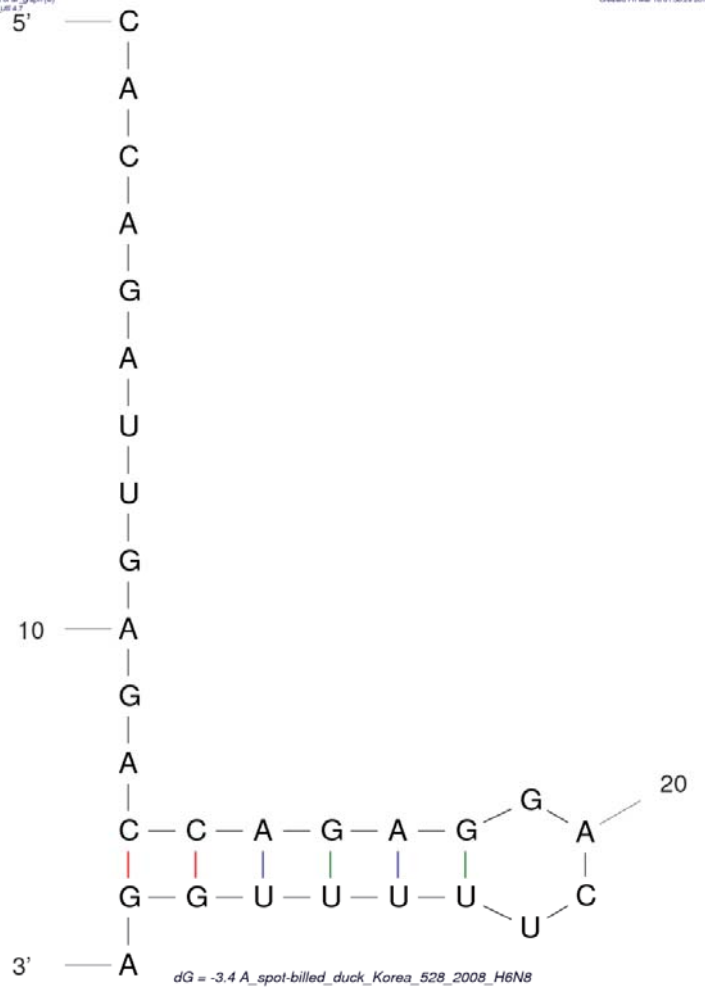
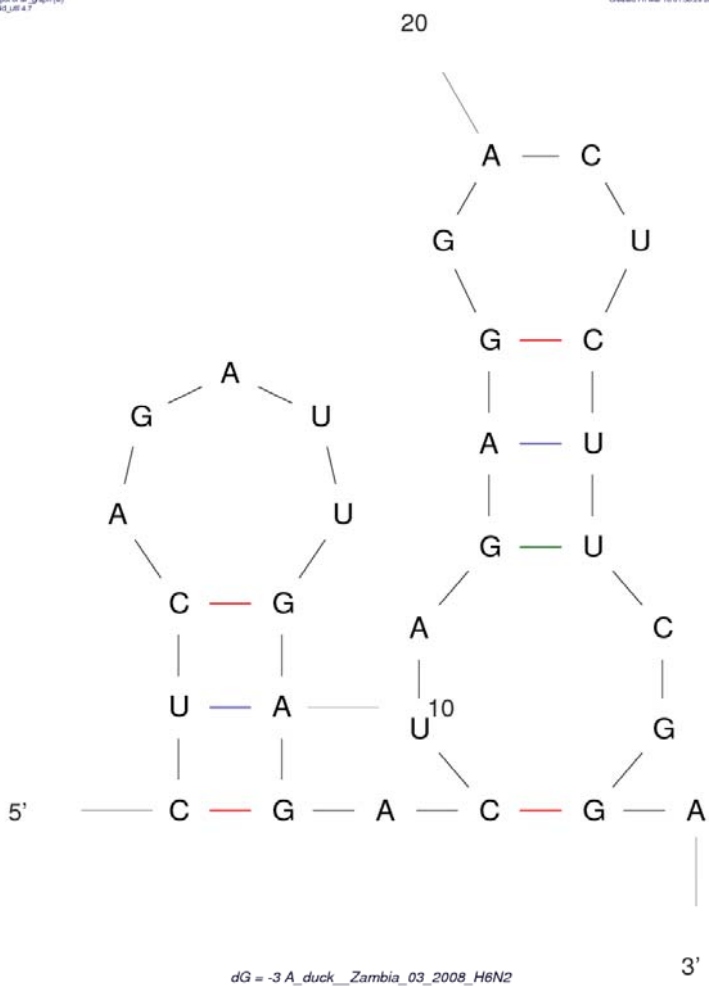
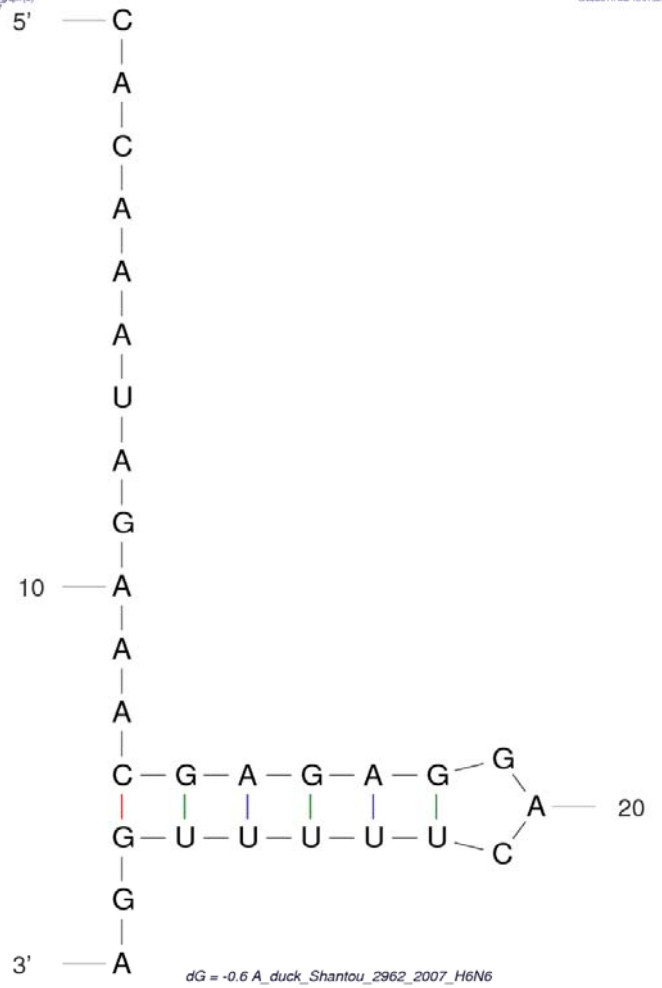
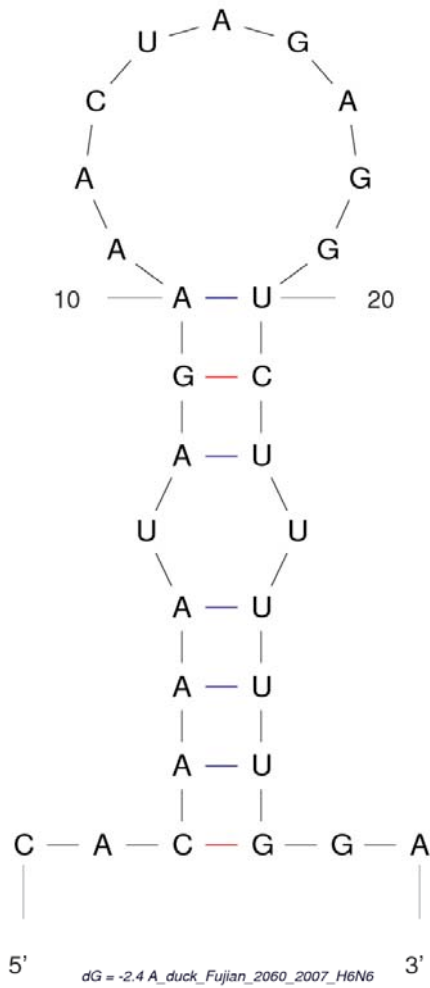


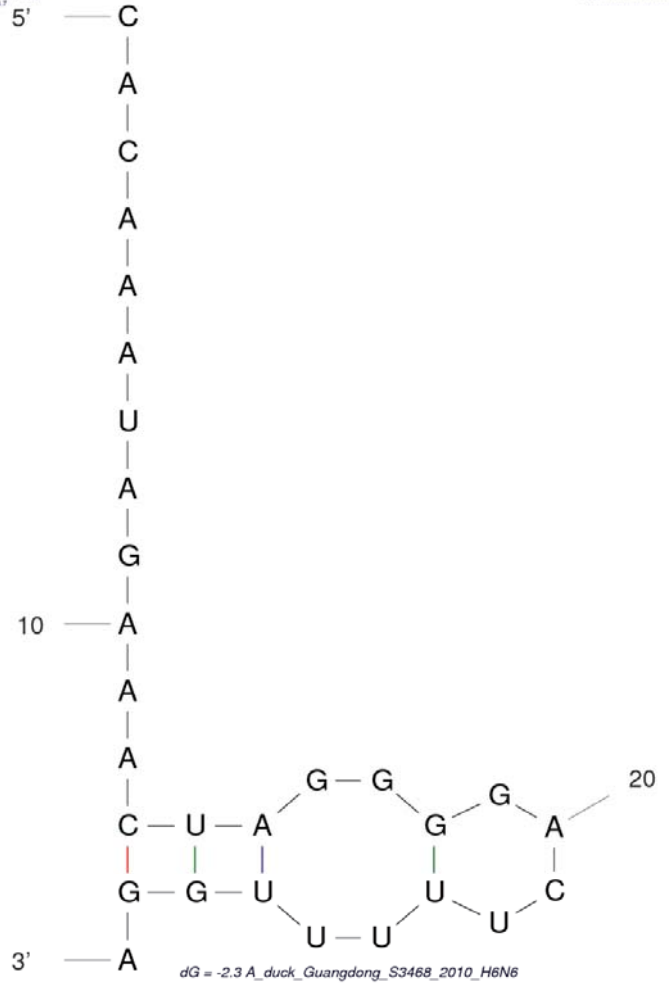
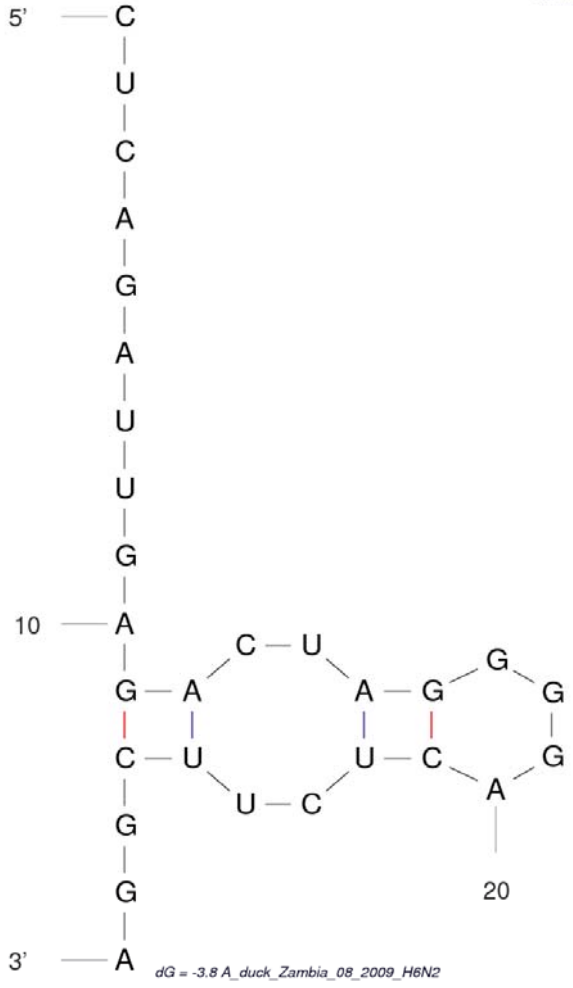
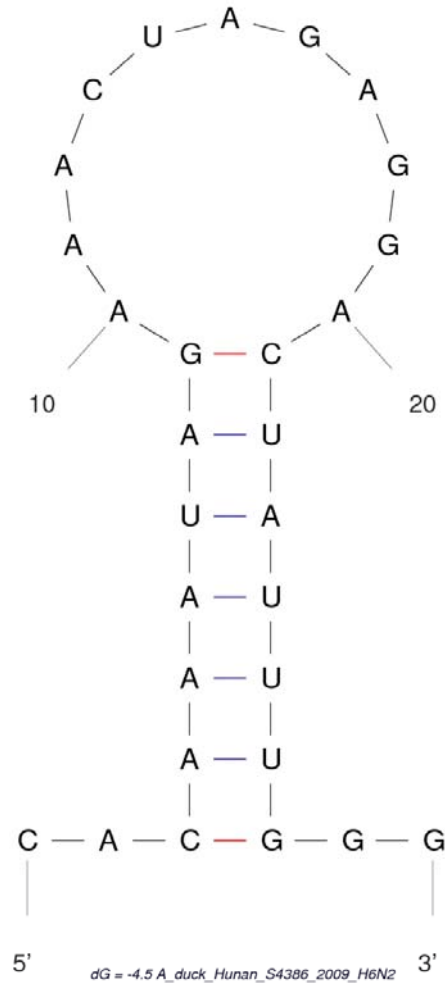
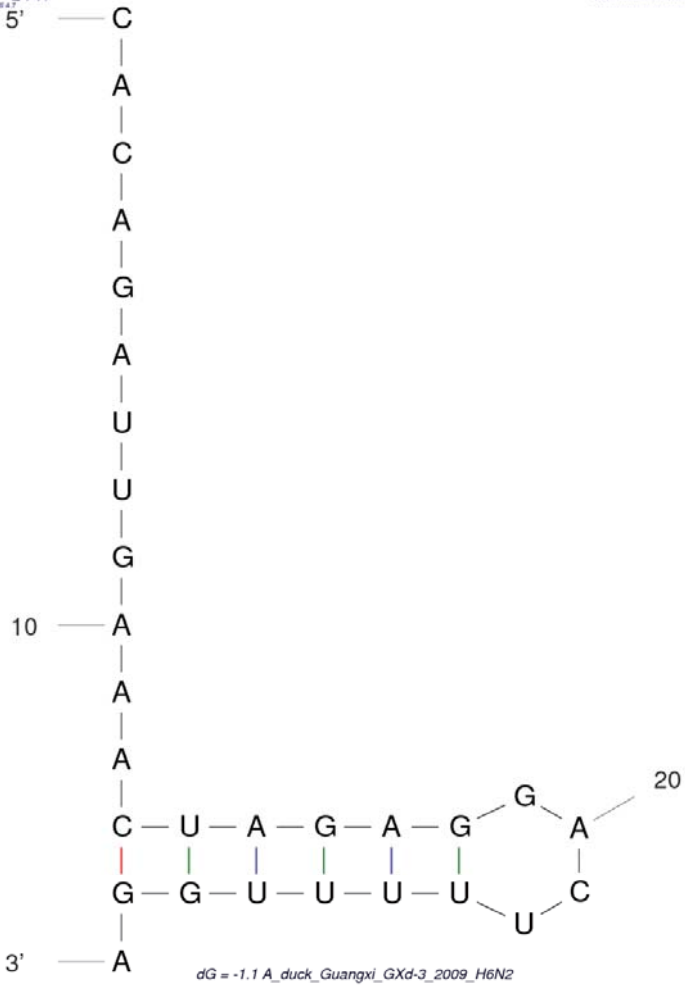


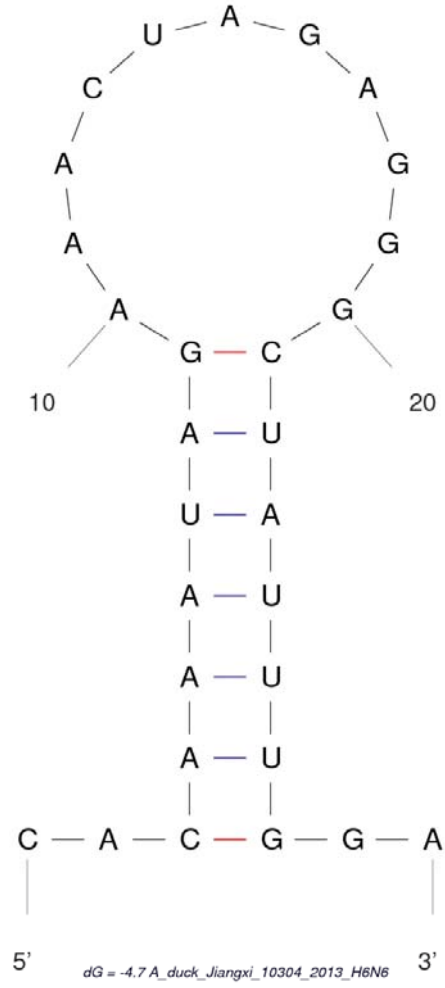
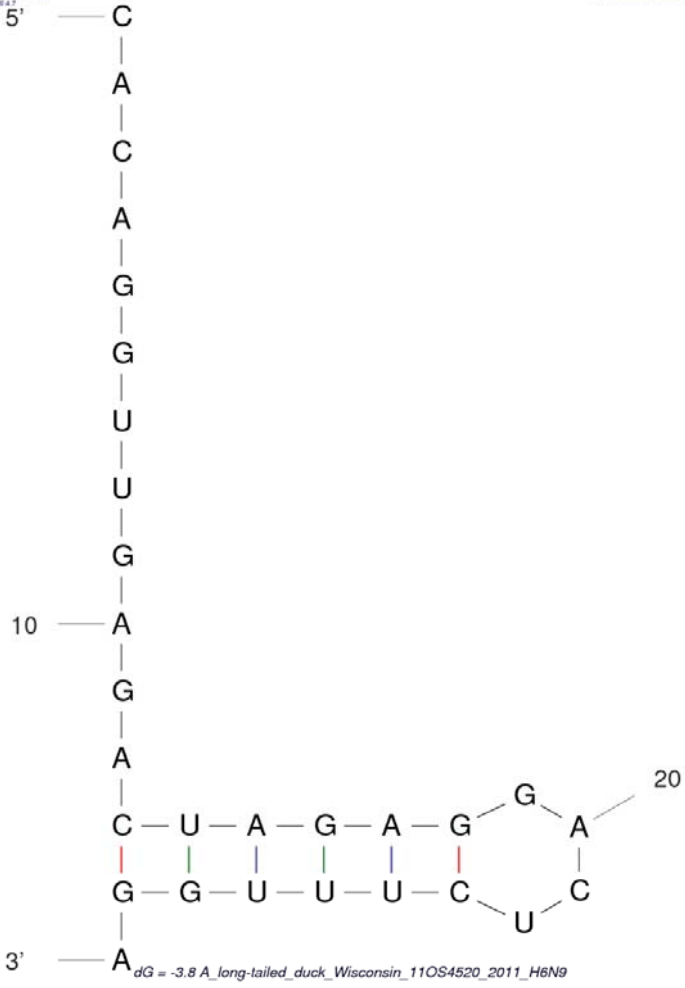
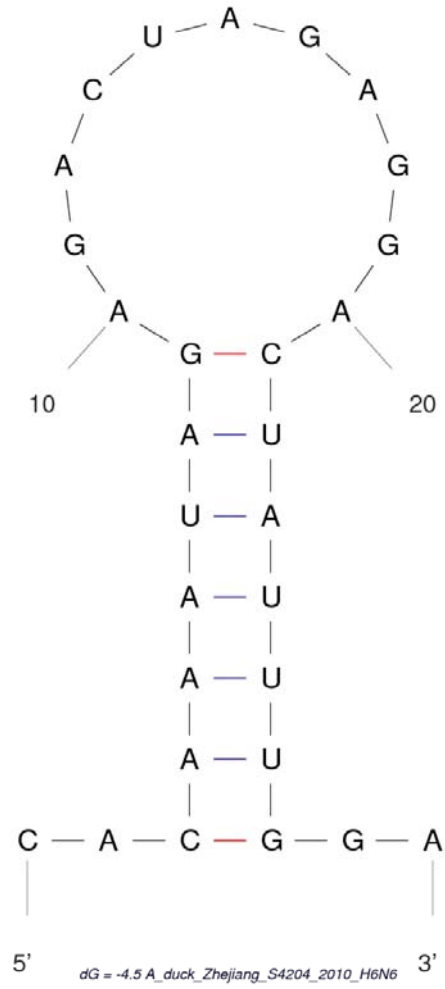
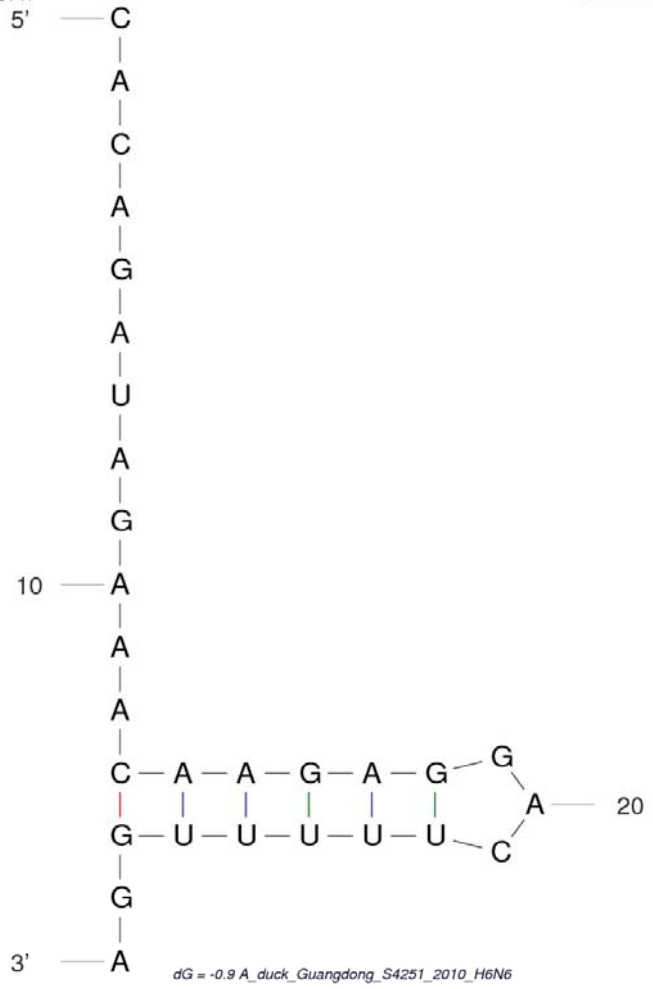


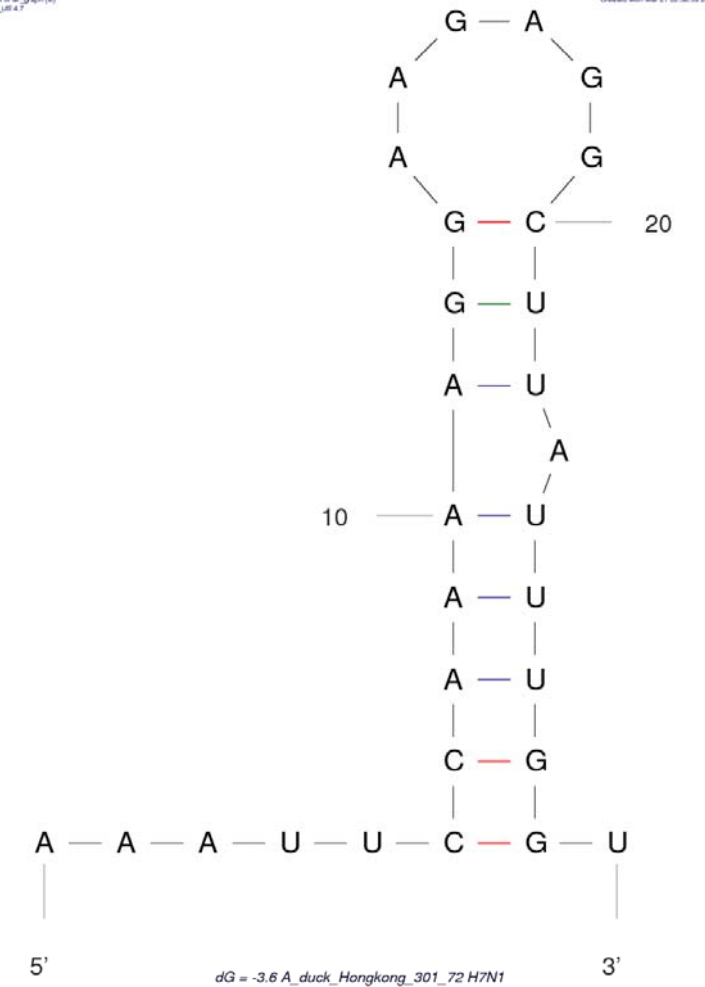
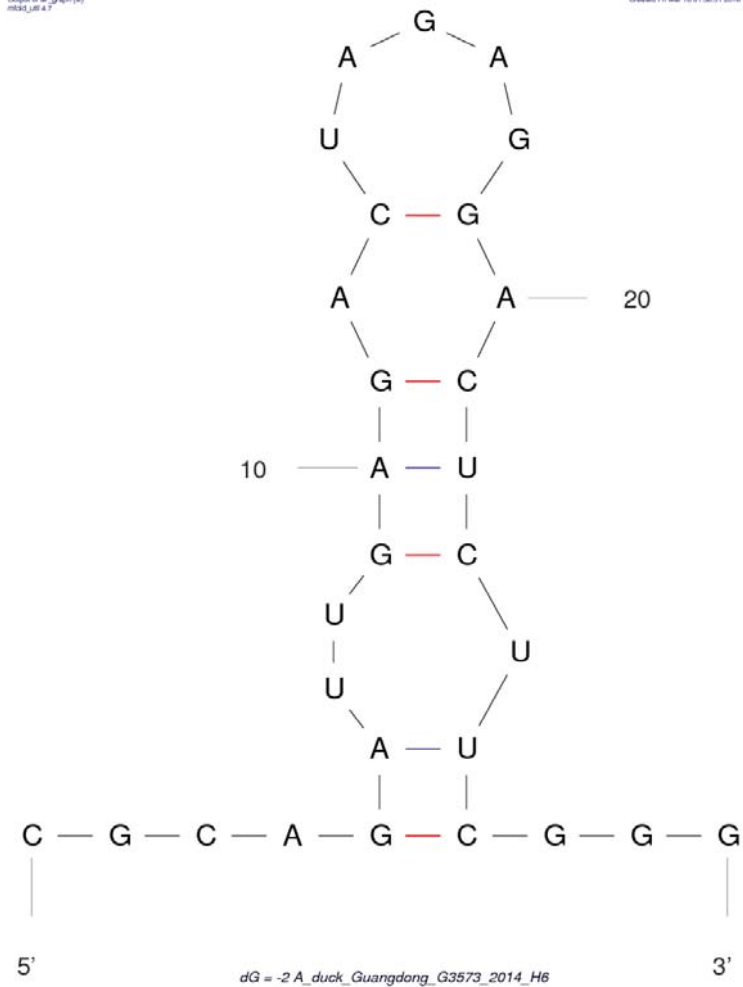
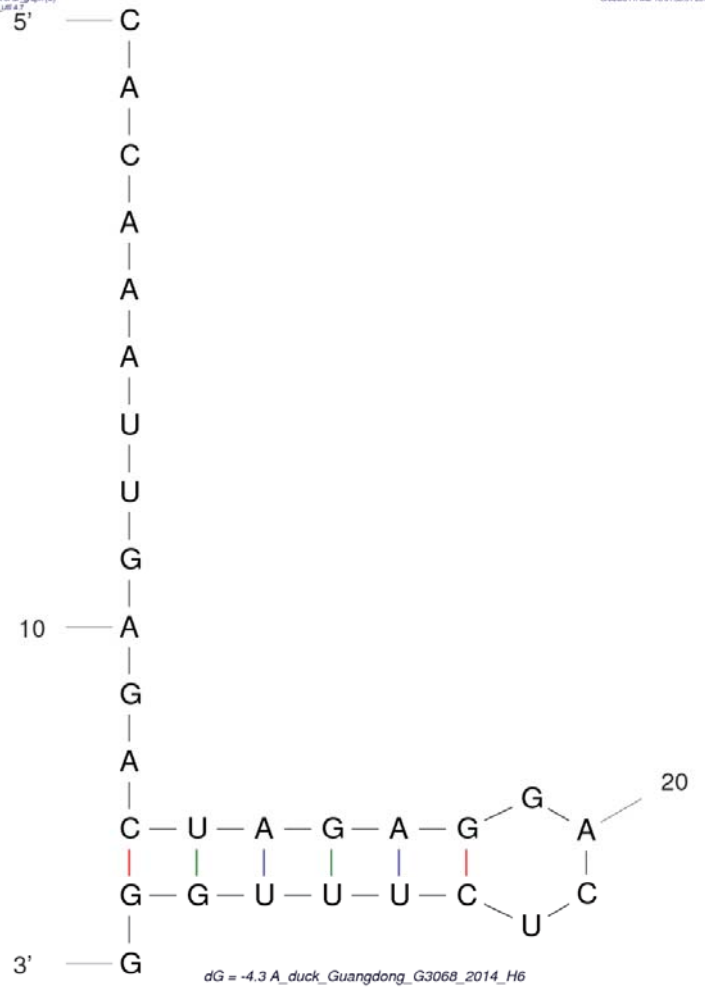
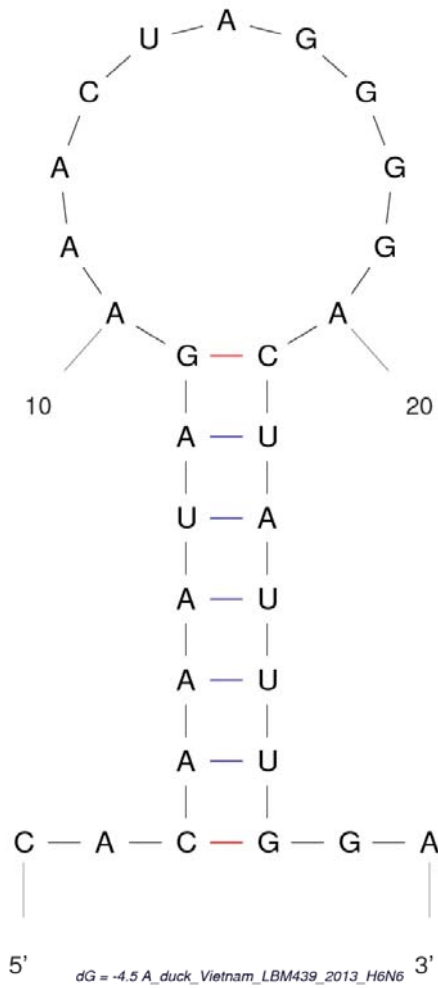


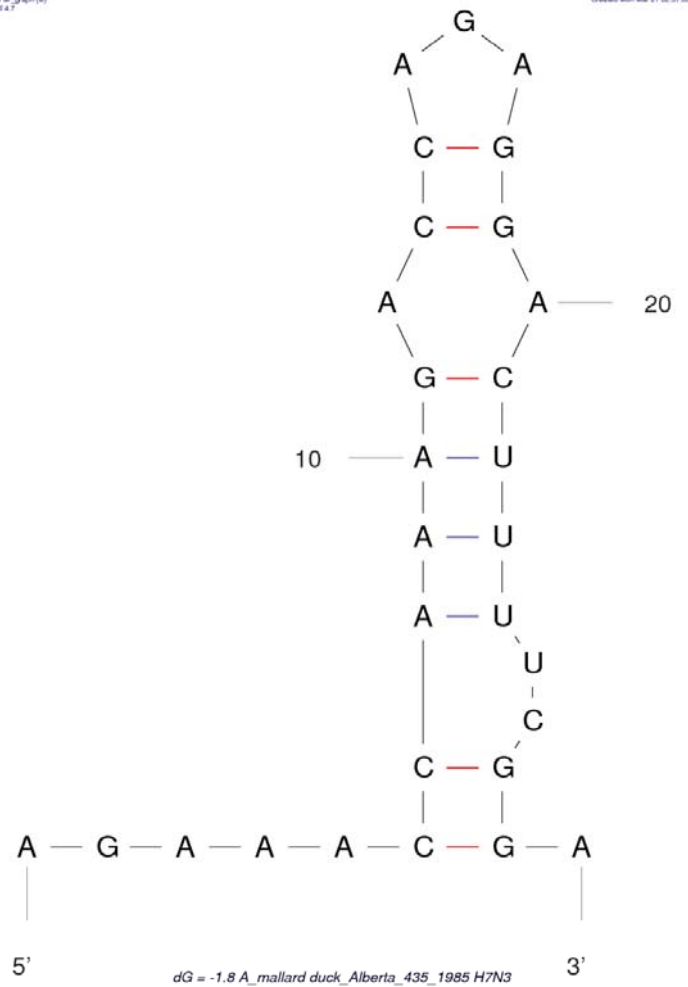
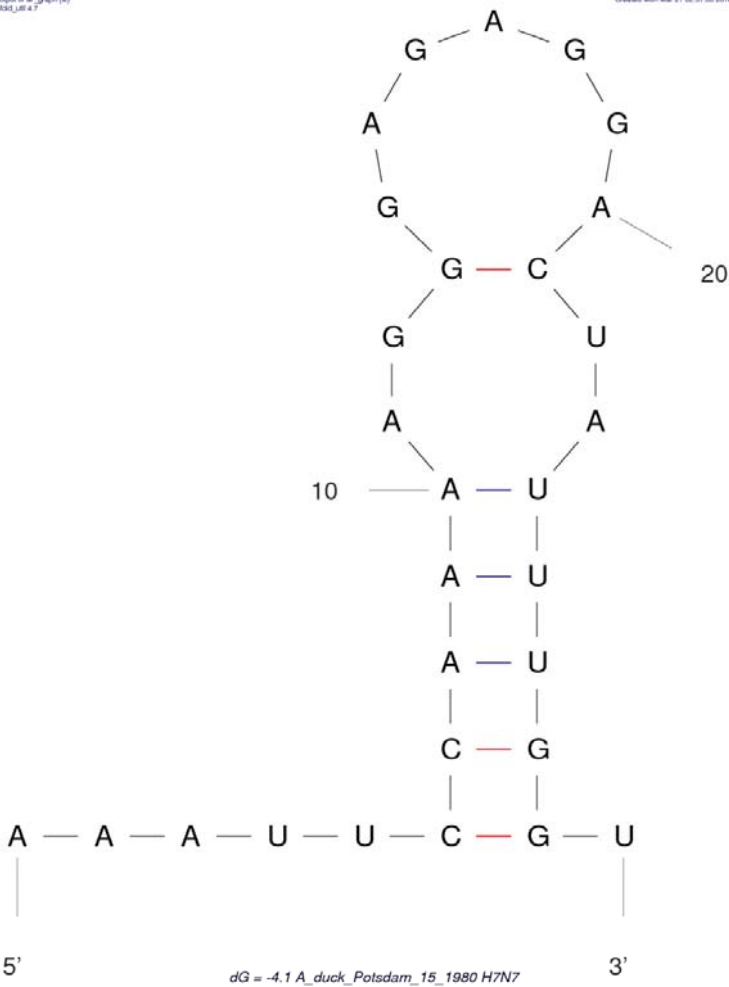
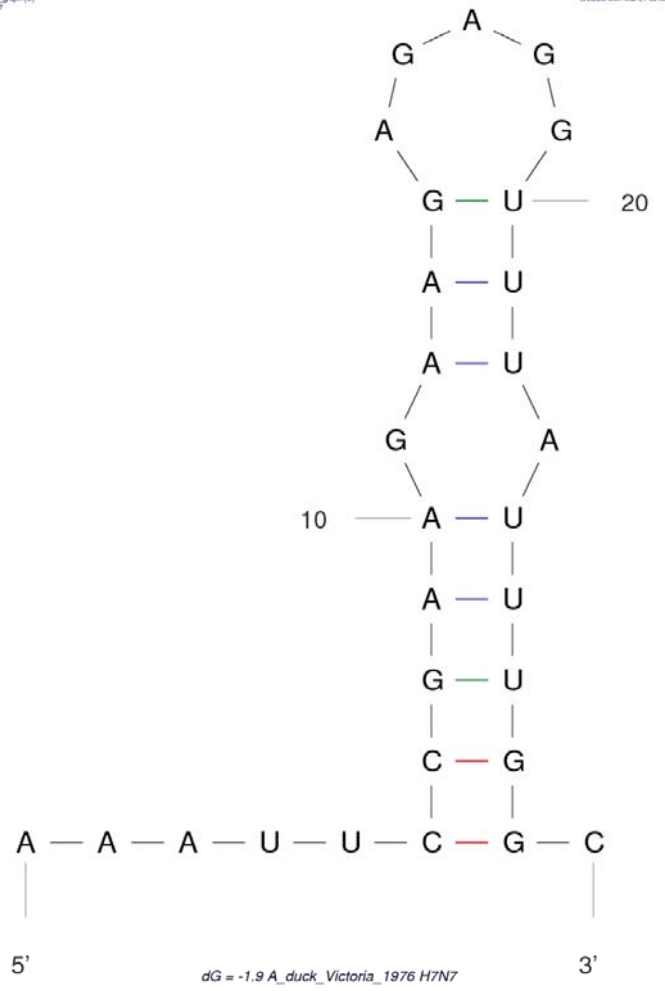
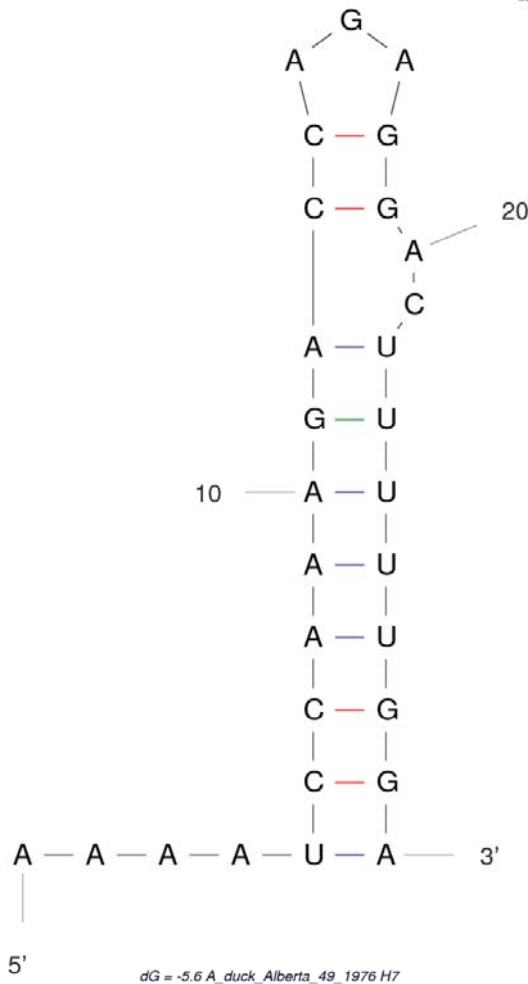


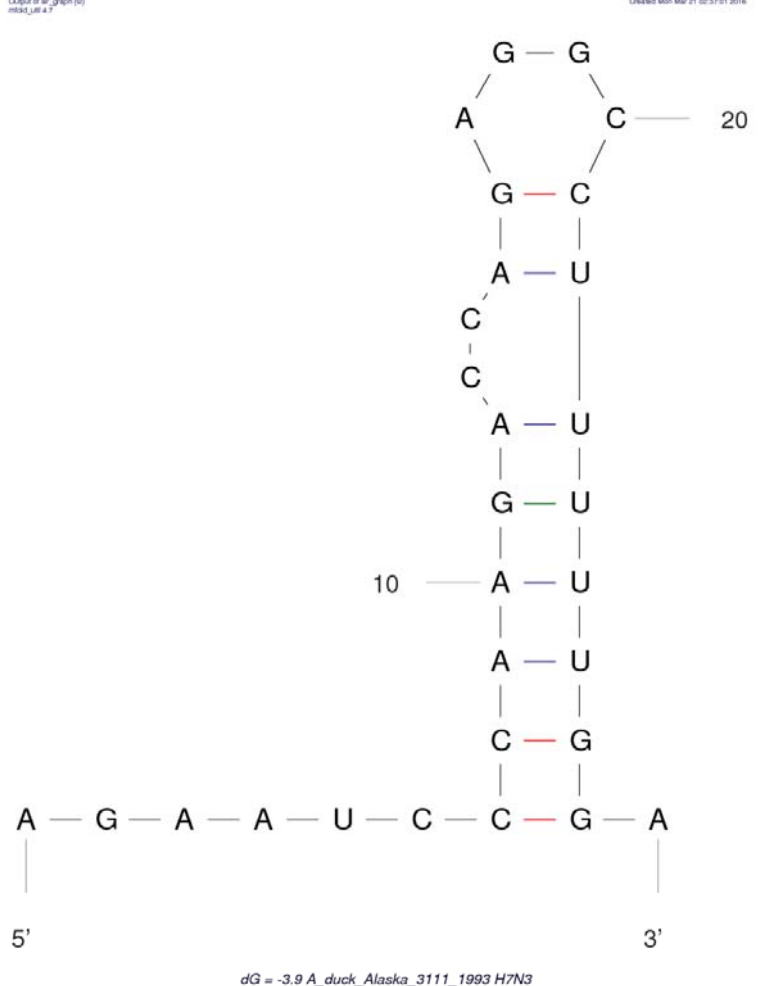
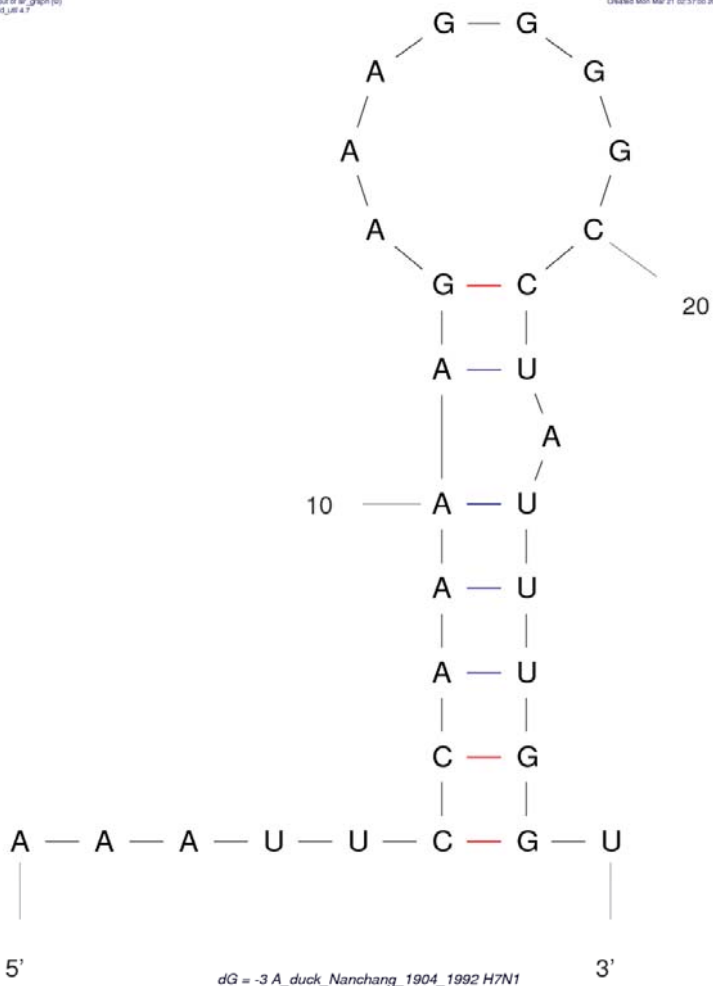
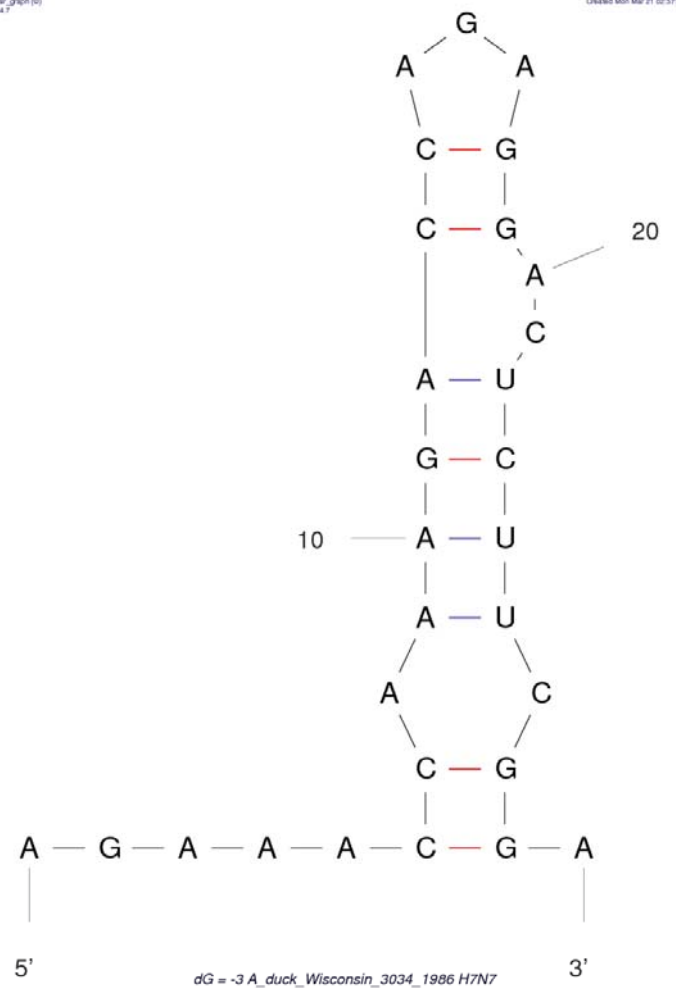
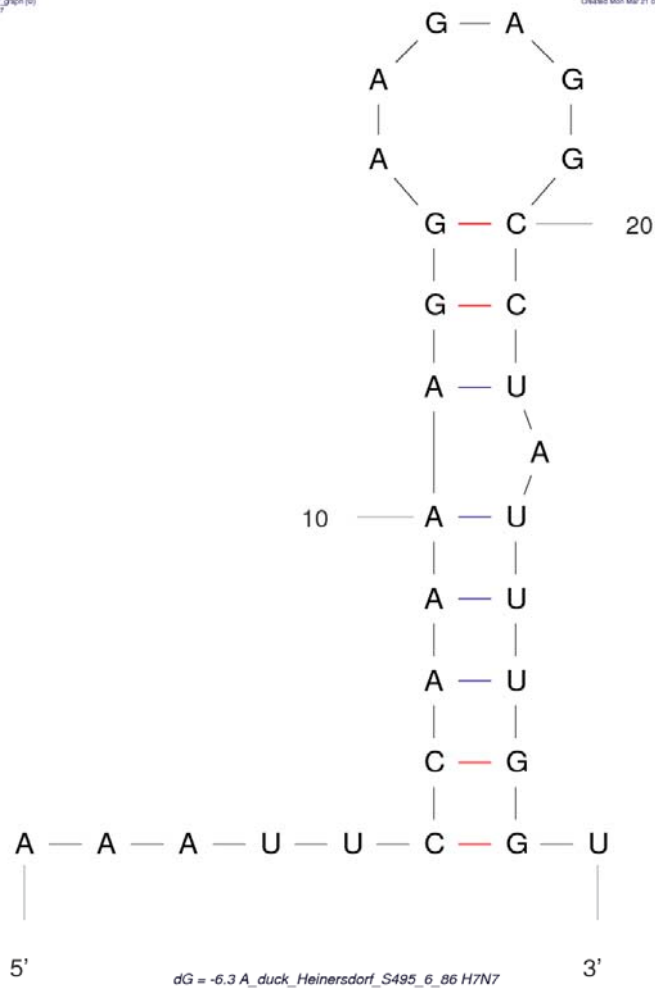


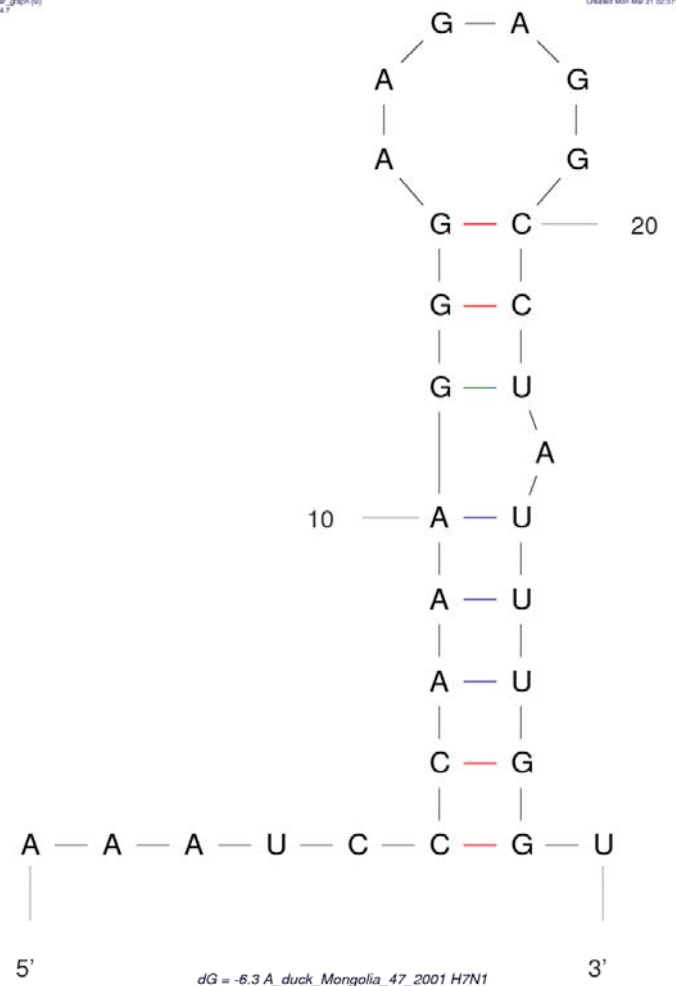
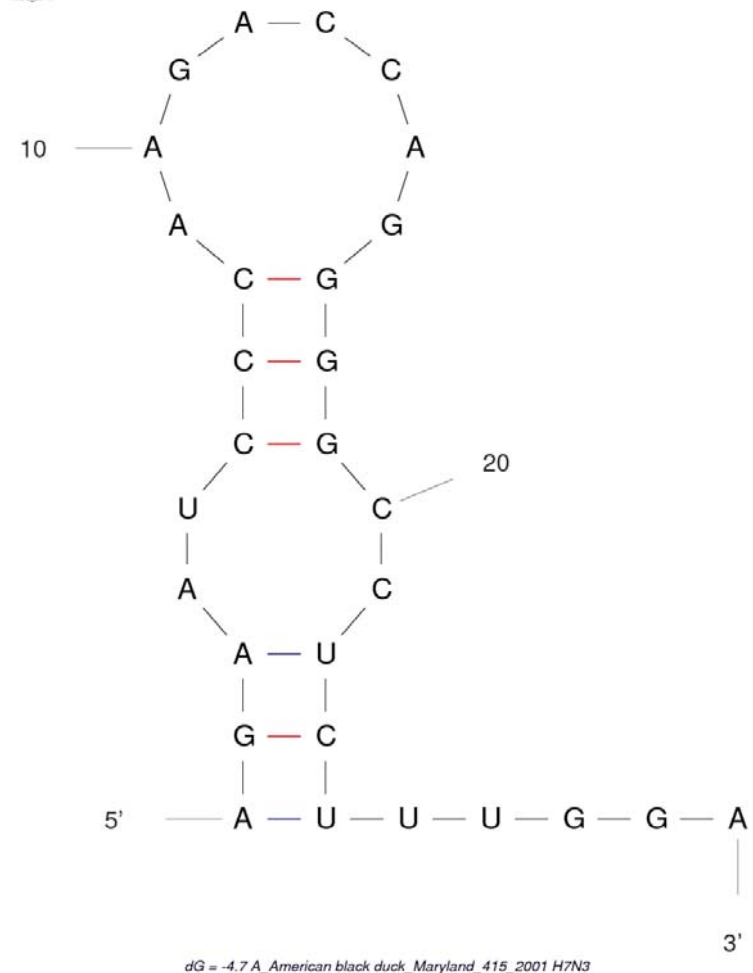
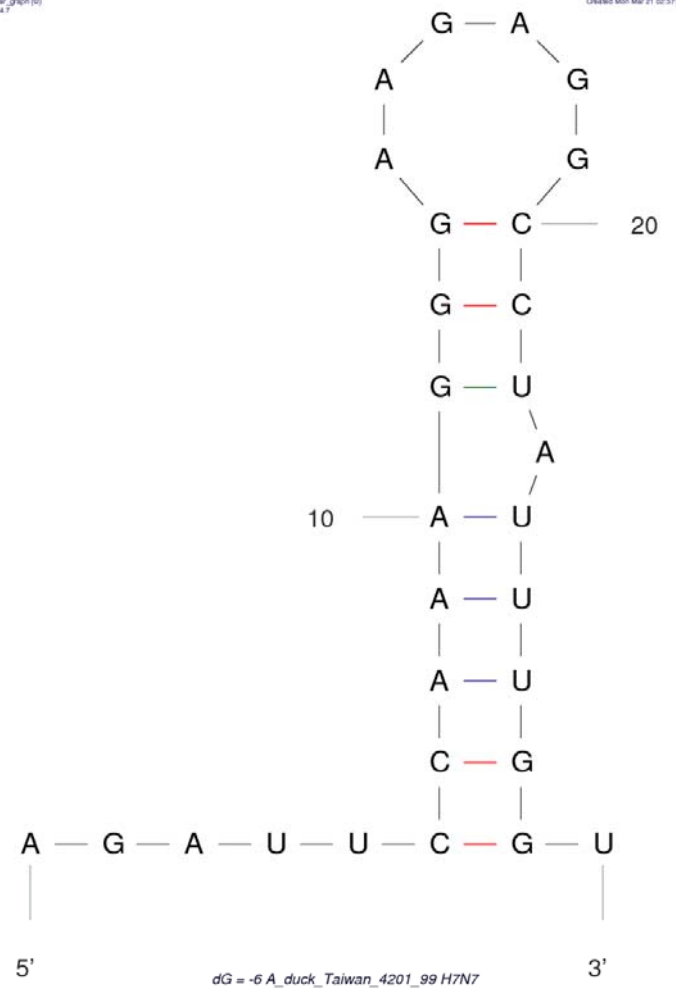
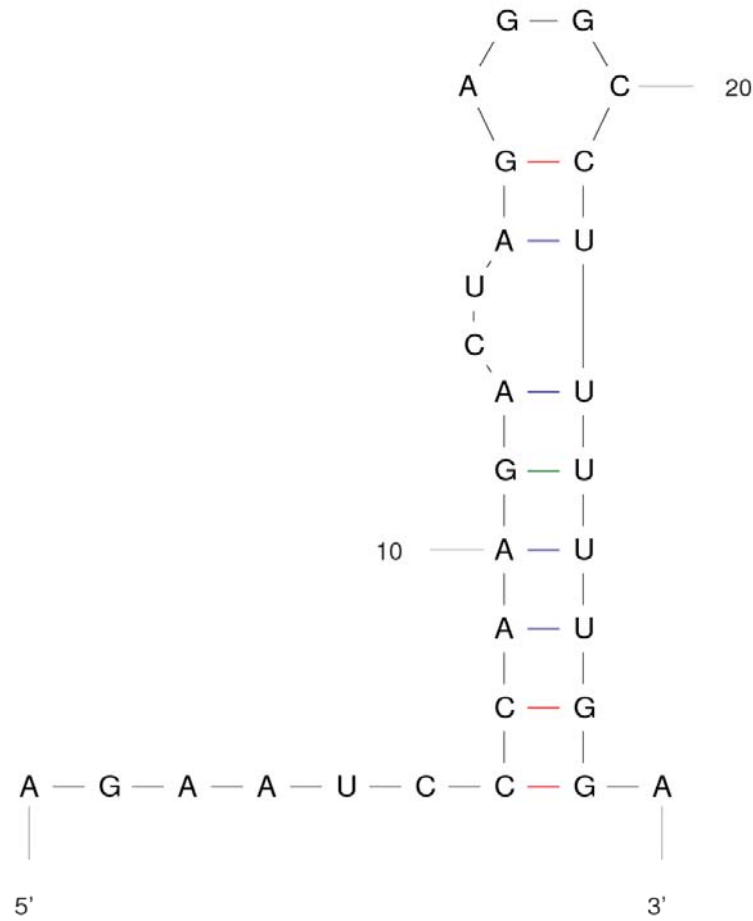


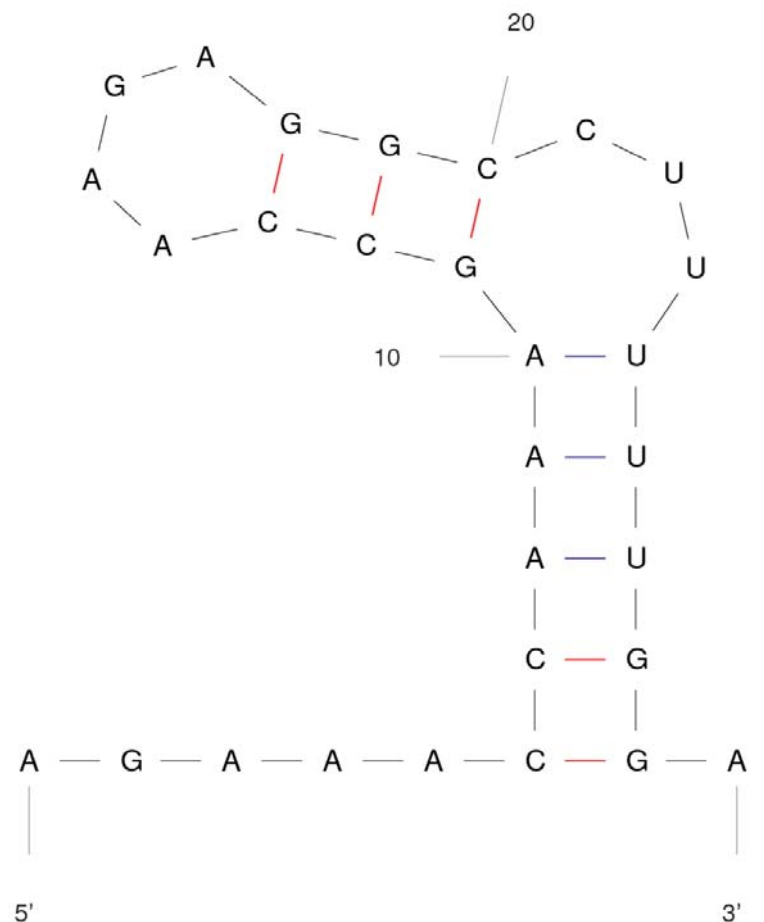
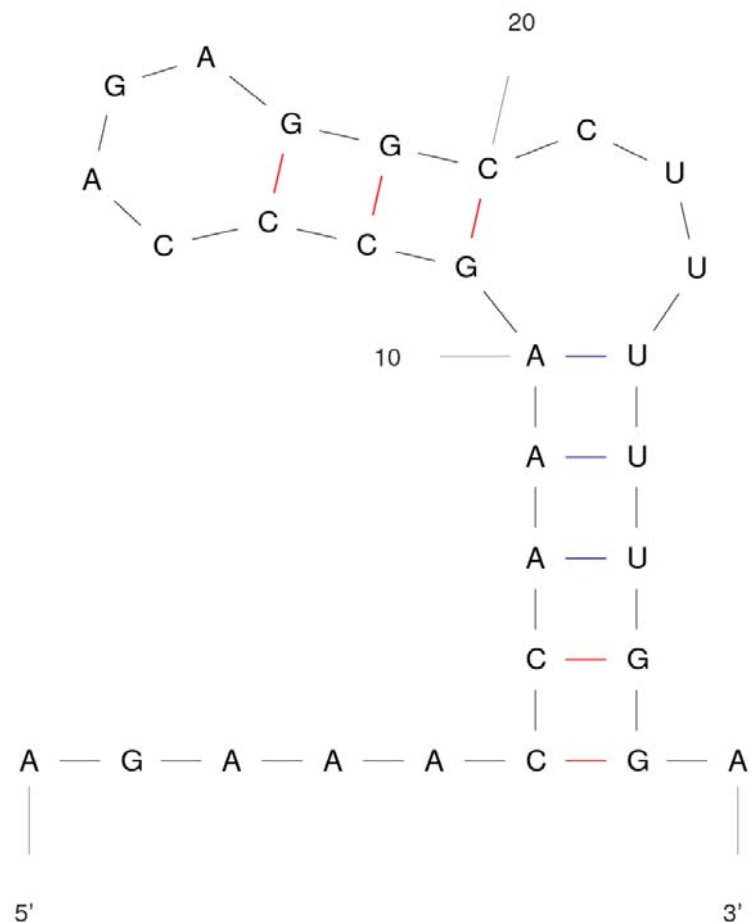
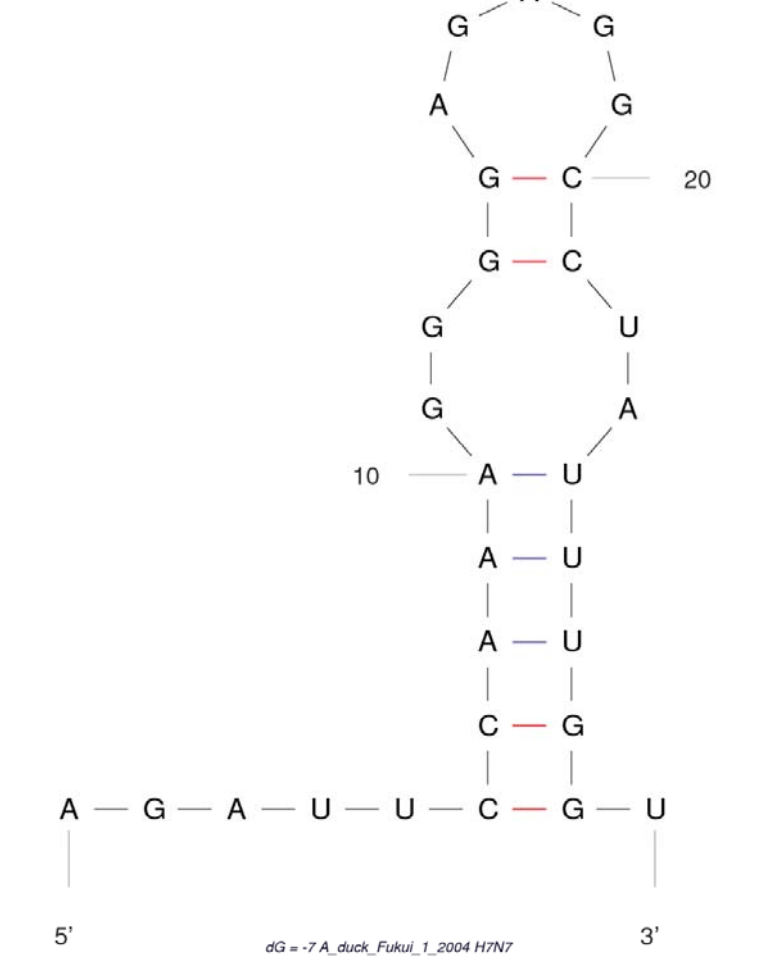
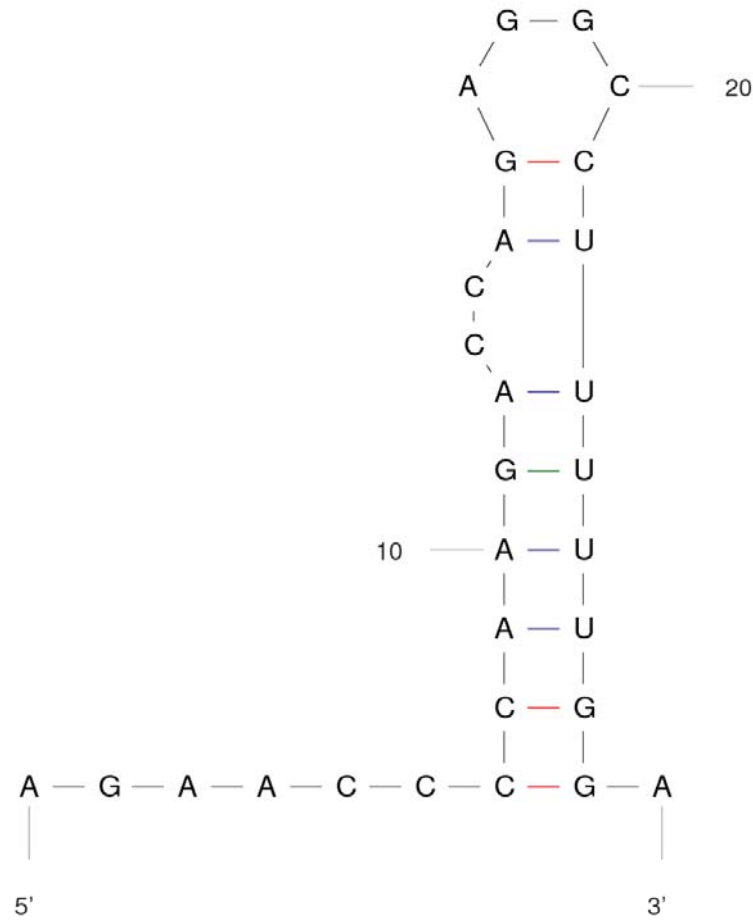


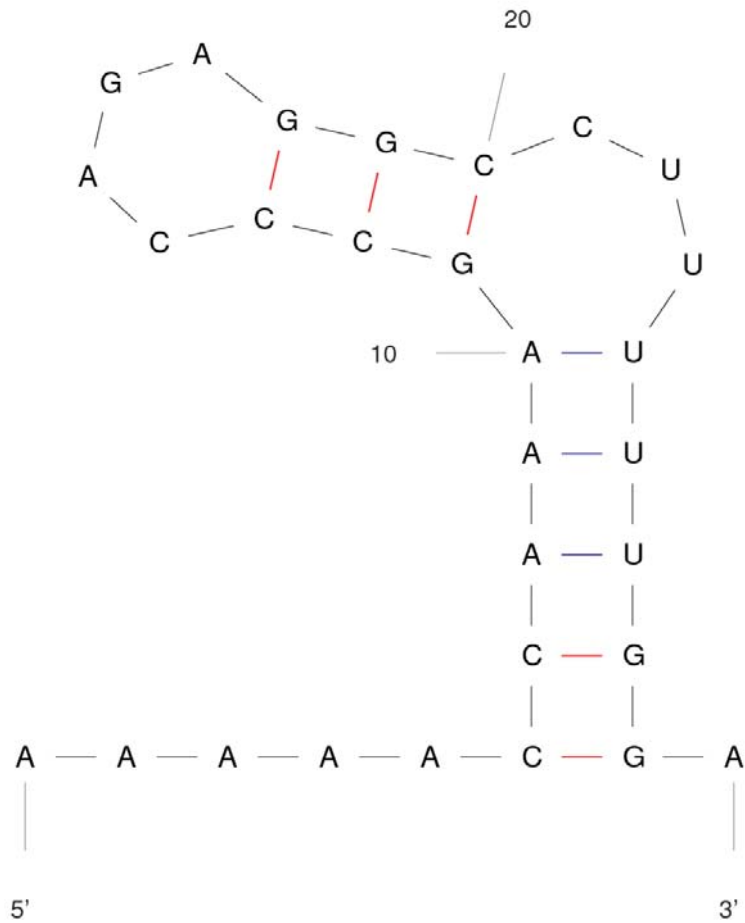




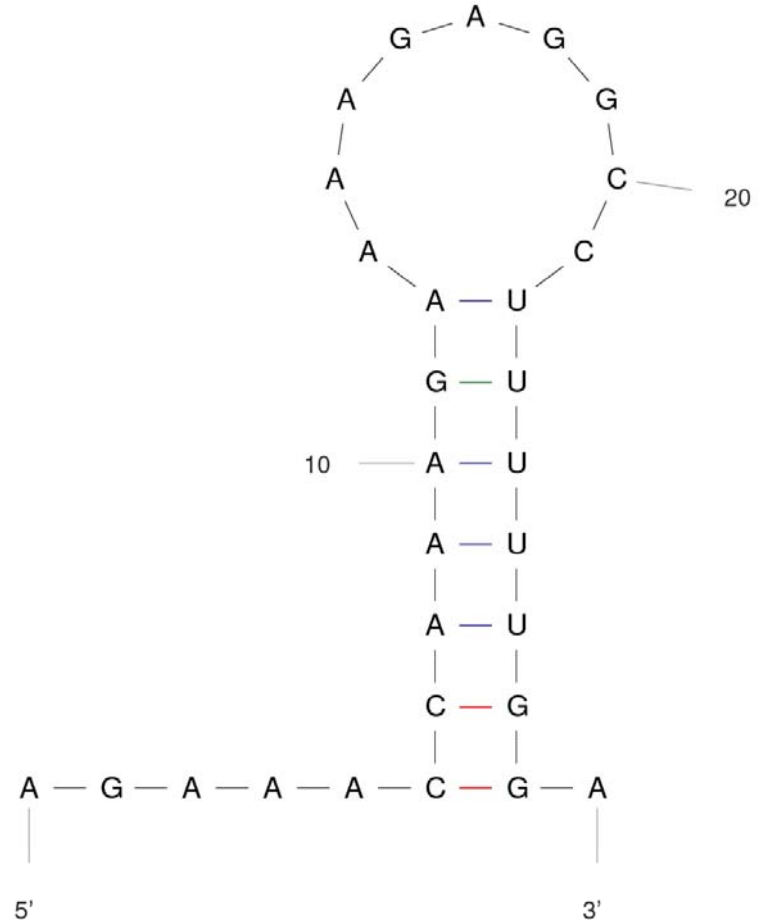




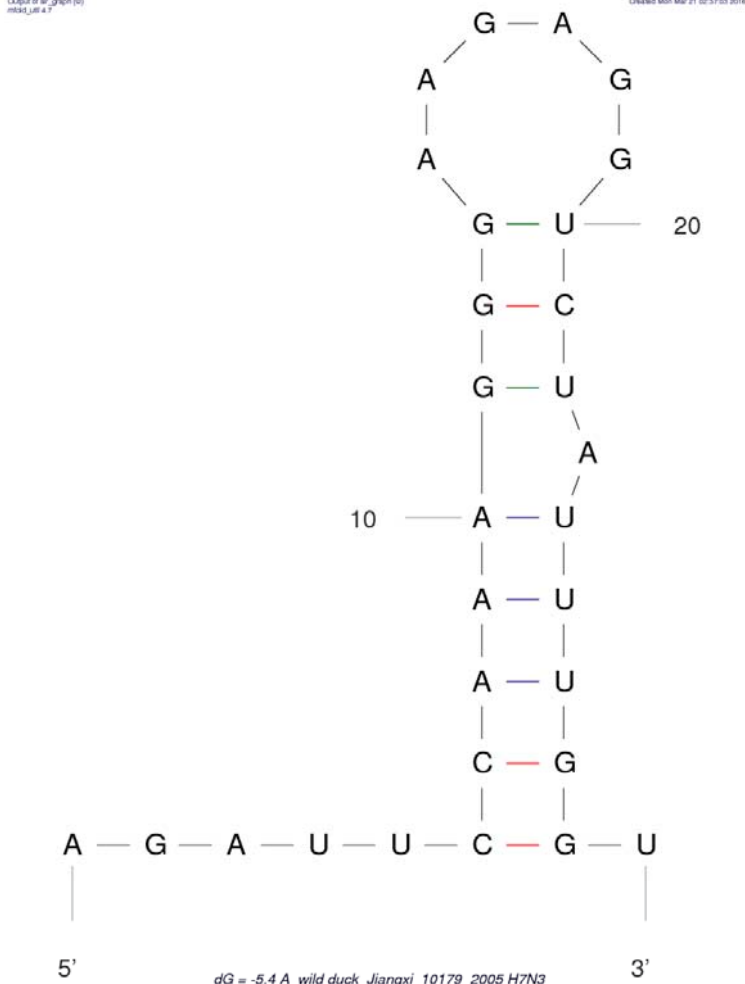




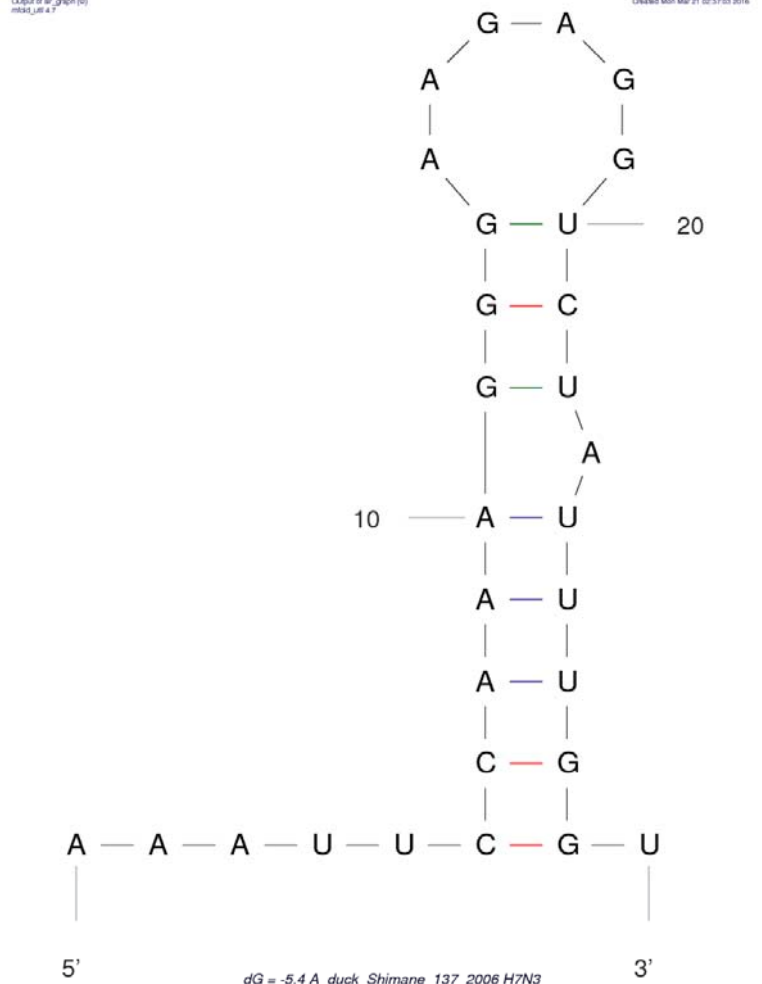
dG = -6.7 A_Muscovy duck_New York_23165-13_2005 H7N2



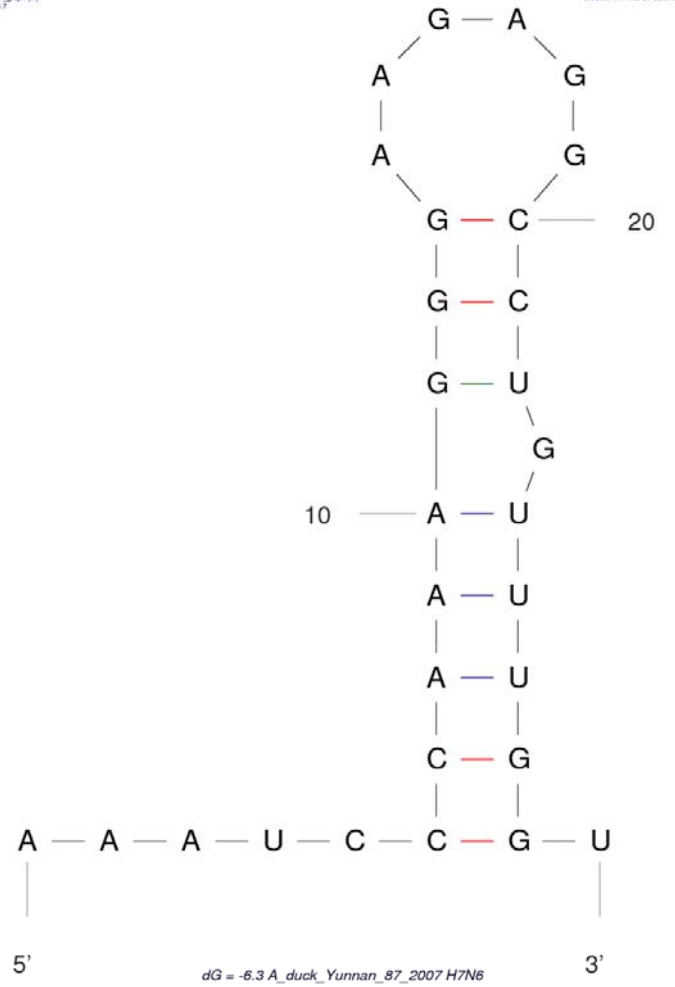
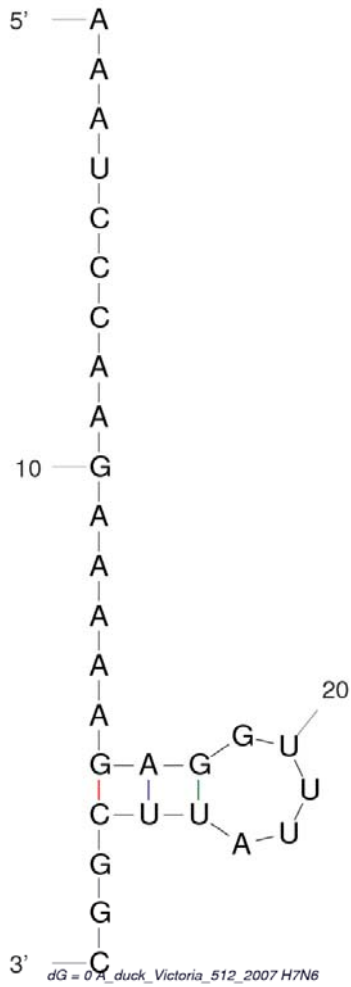
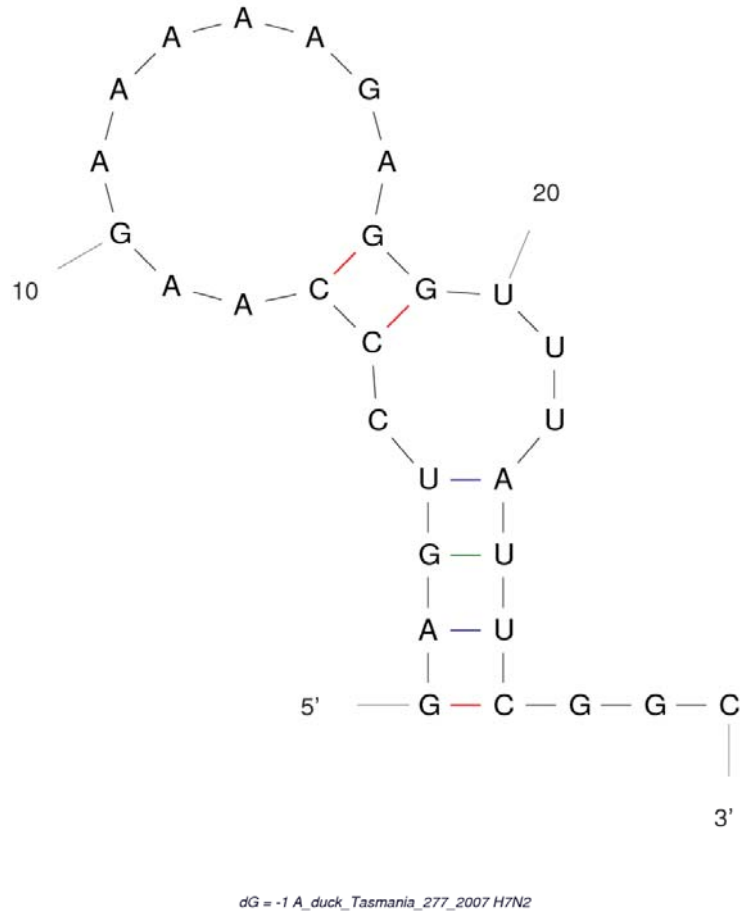
dG = -4.3 A_duck_New York_21211-6_2005 H7N2

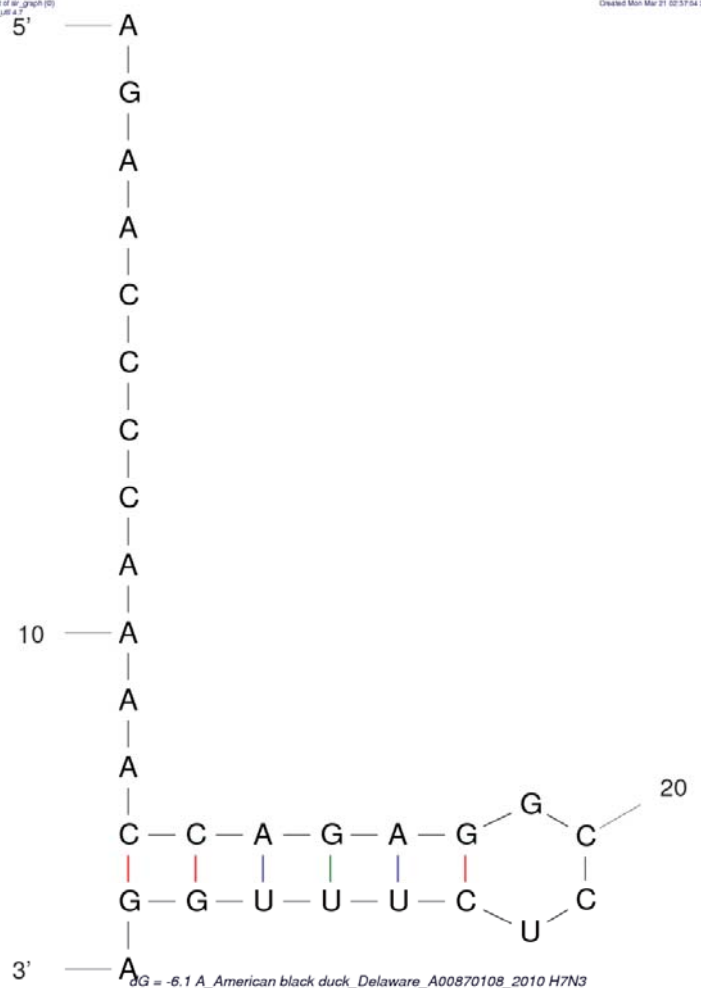
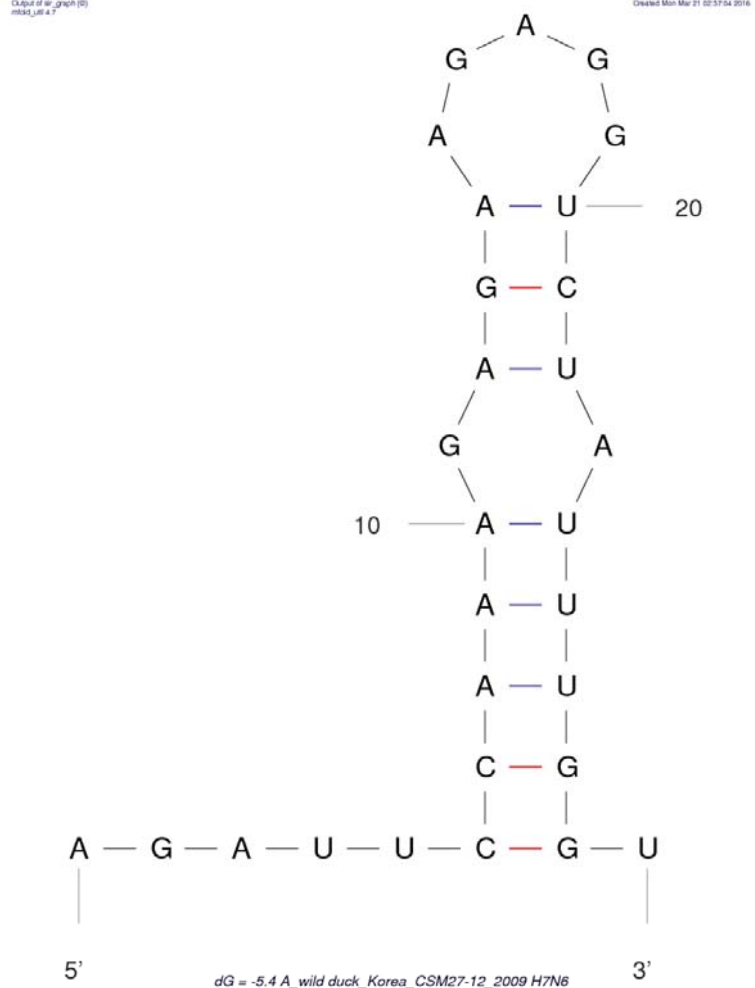
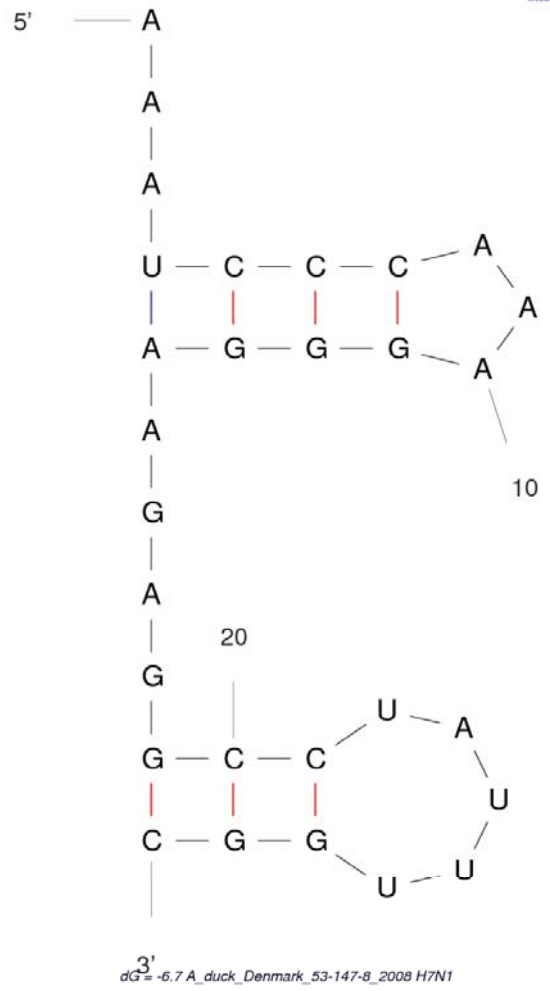
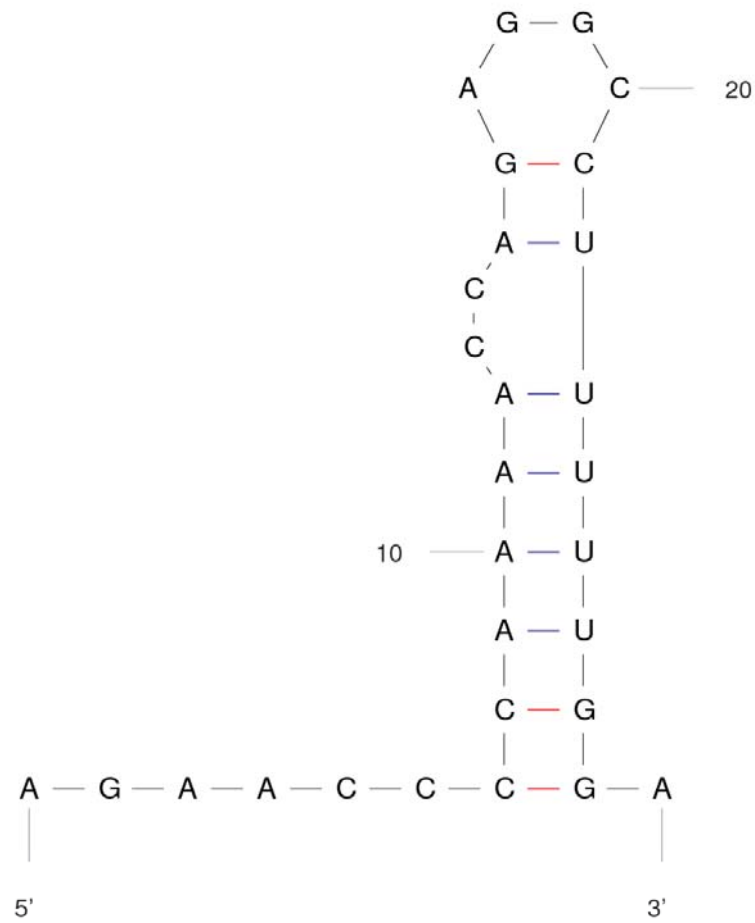


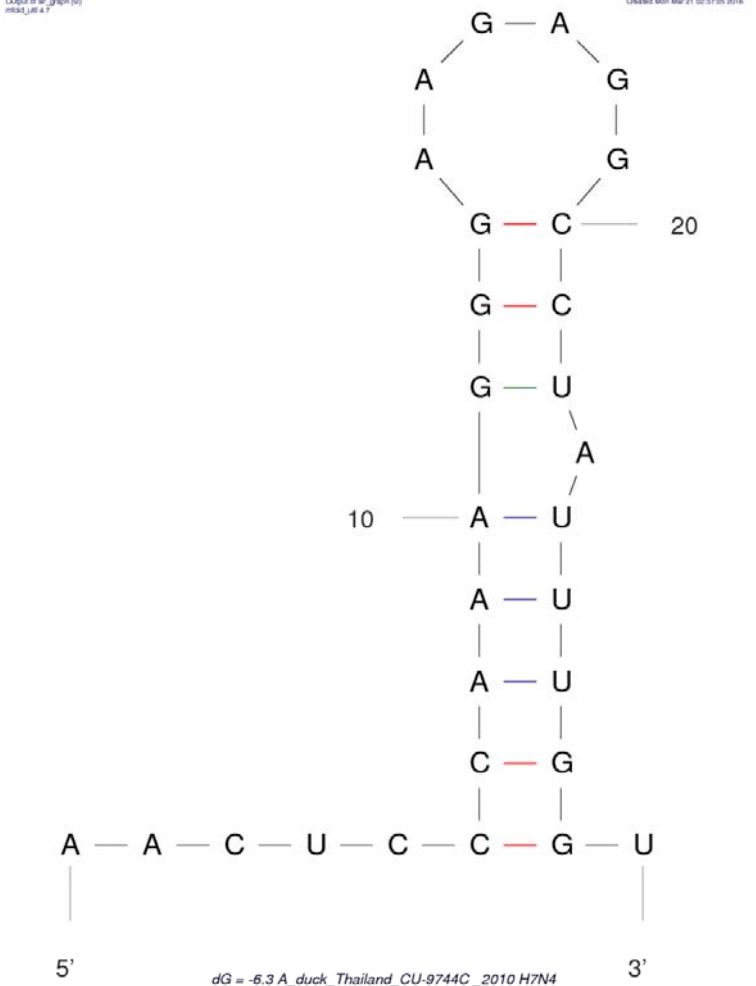
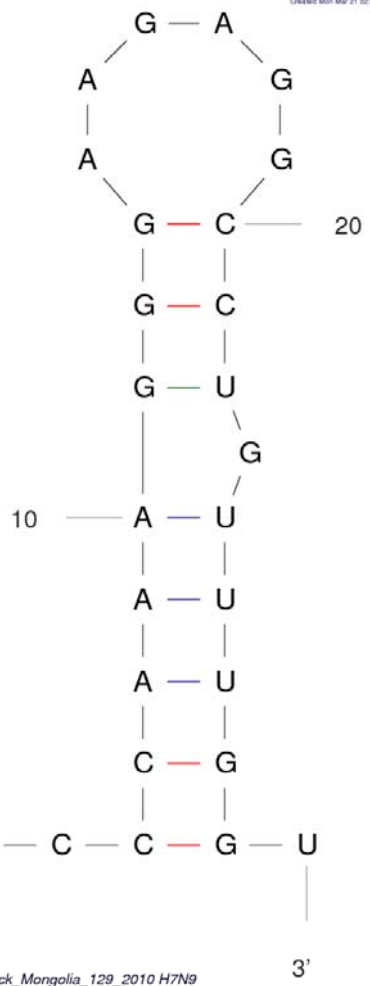
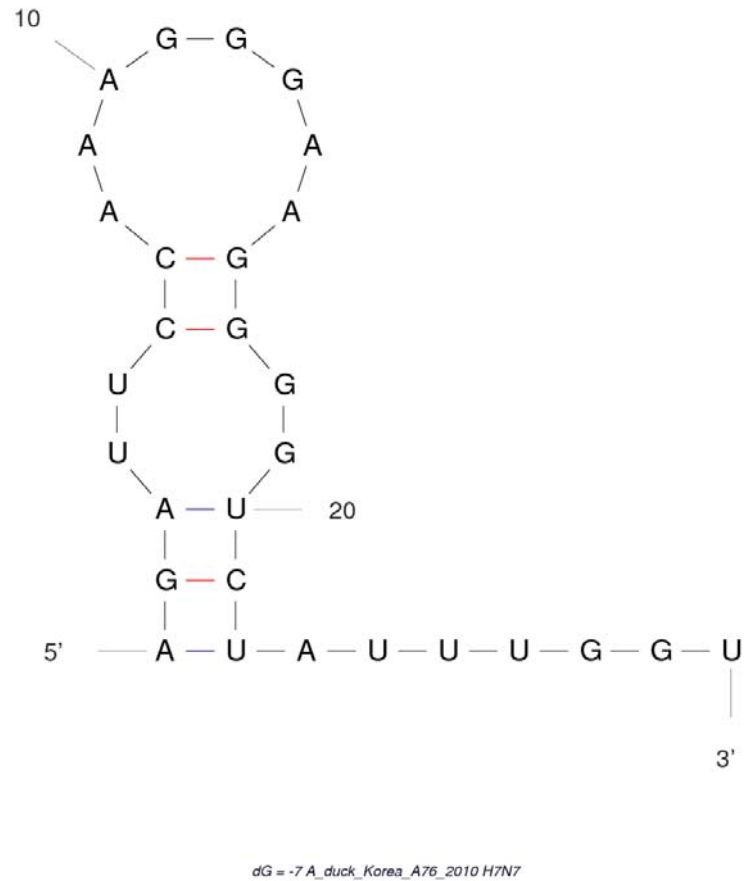
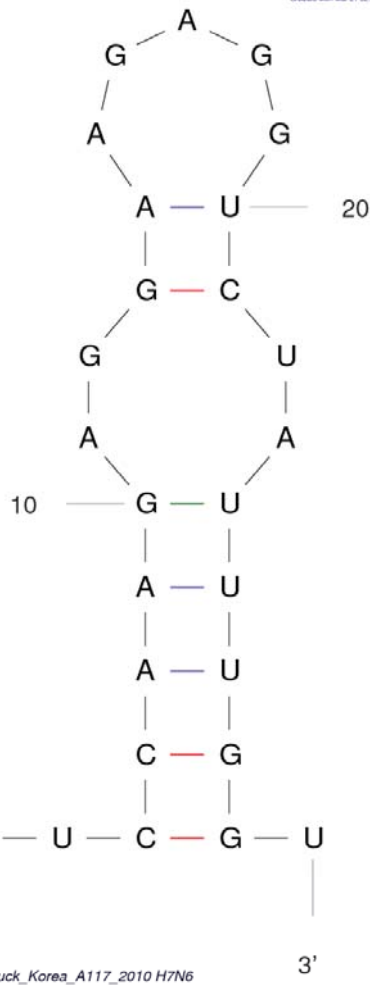
dG = -5.4 A_wild duck_Jiangxi_10179_2005 H7N3

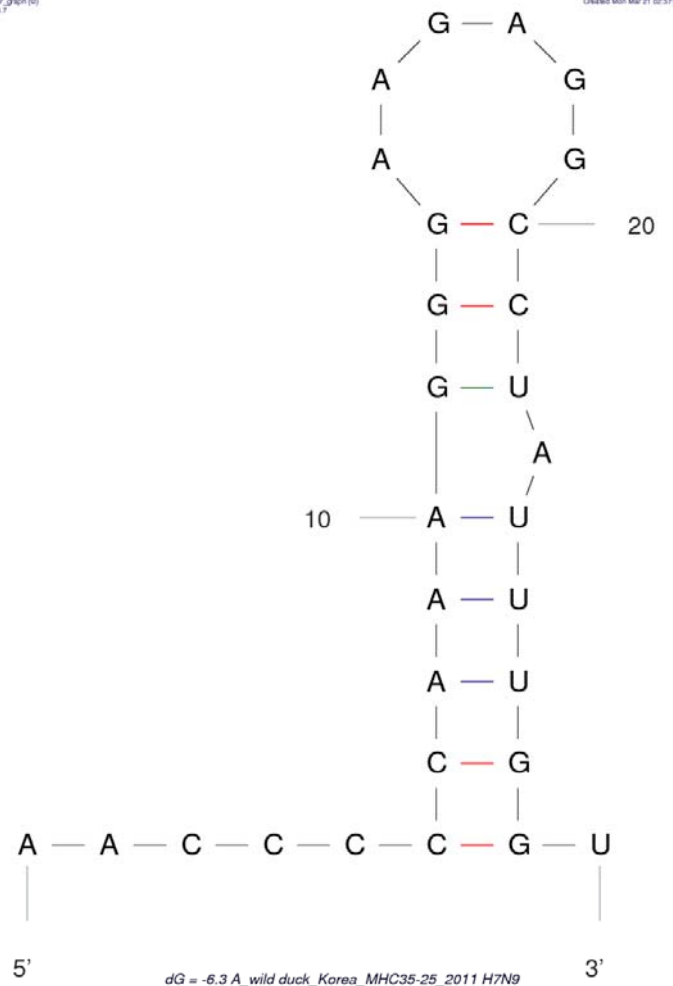
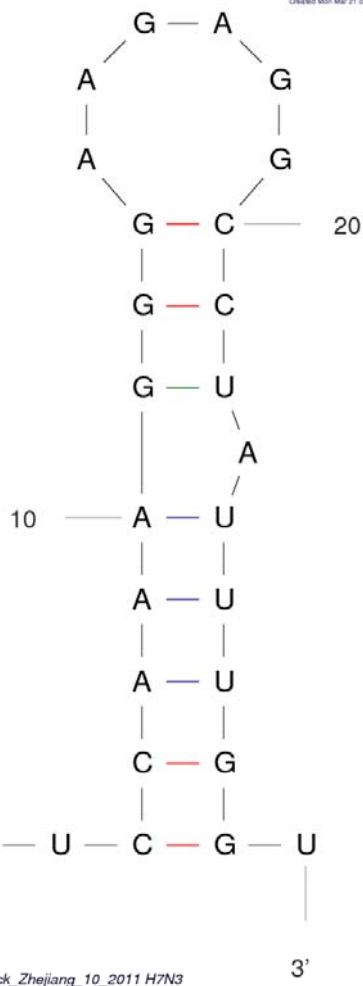
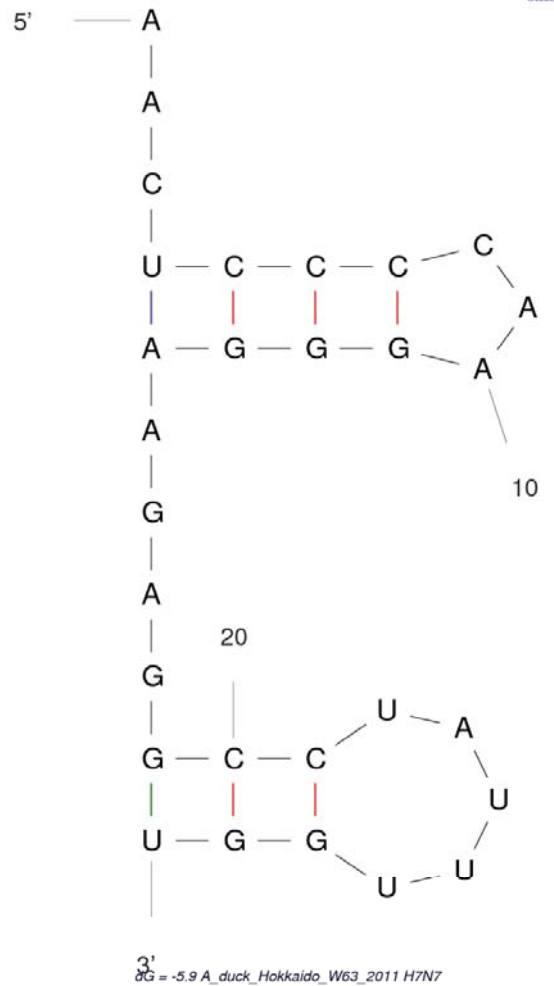
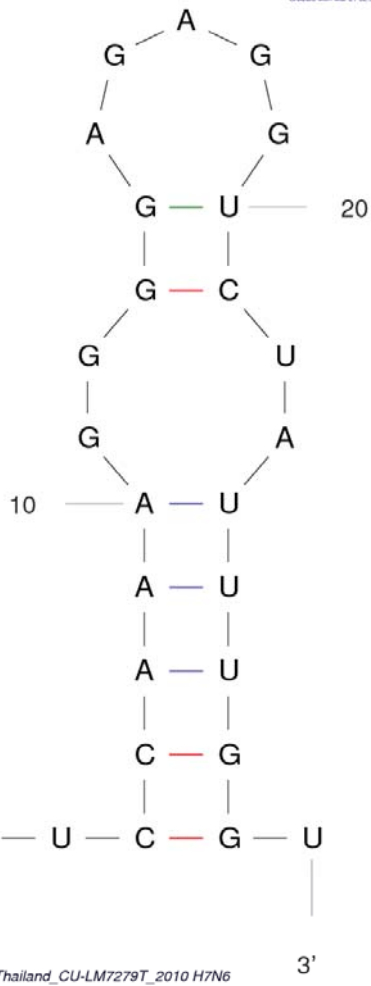


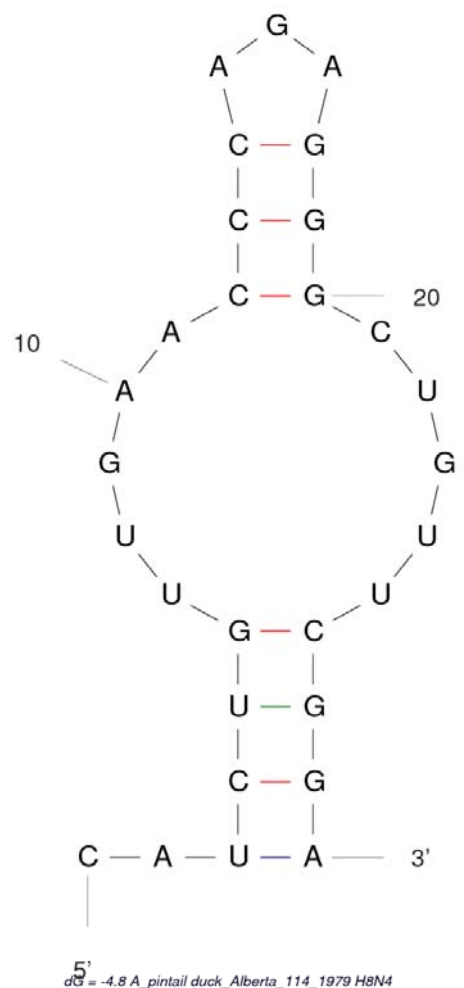
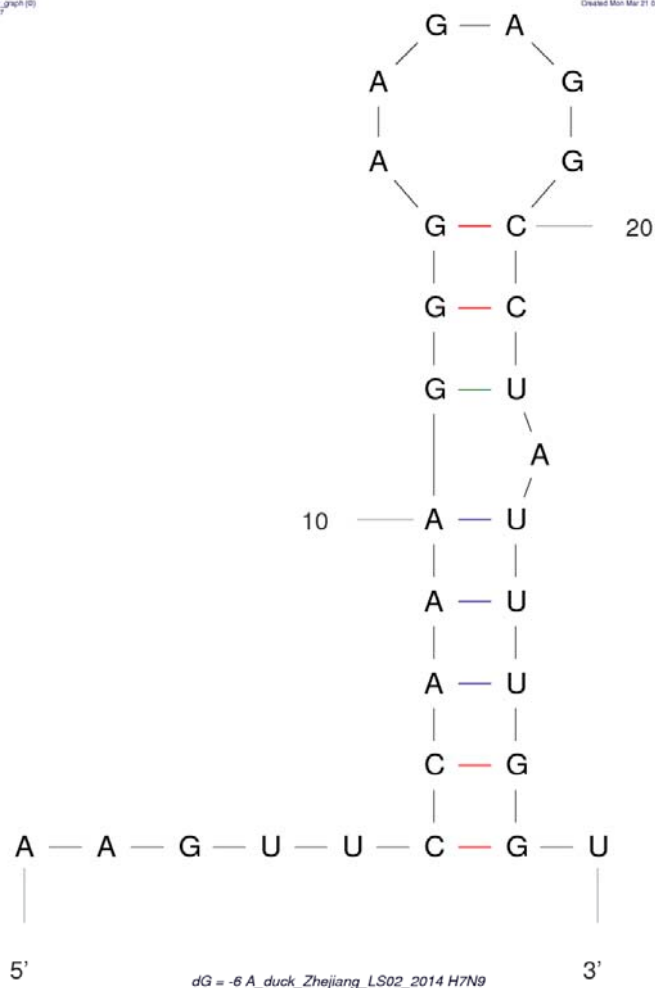
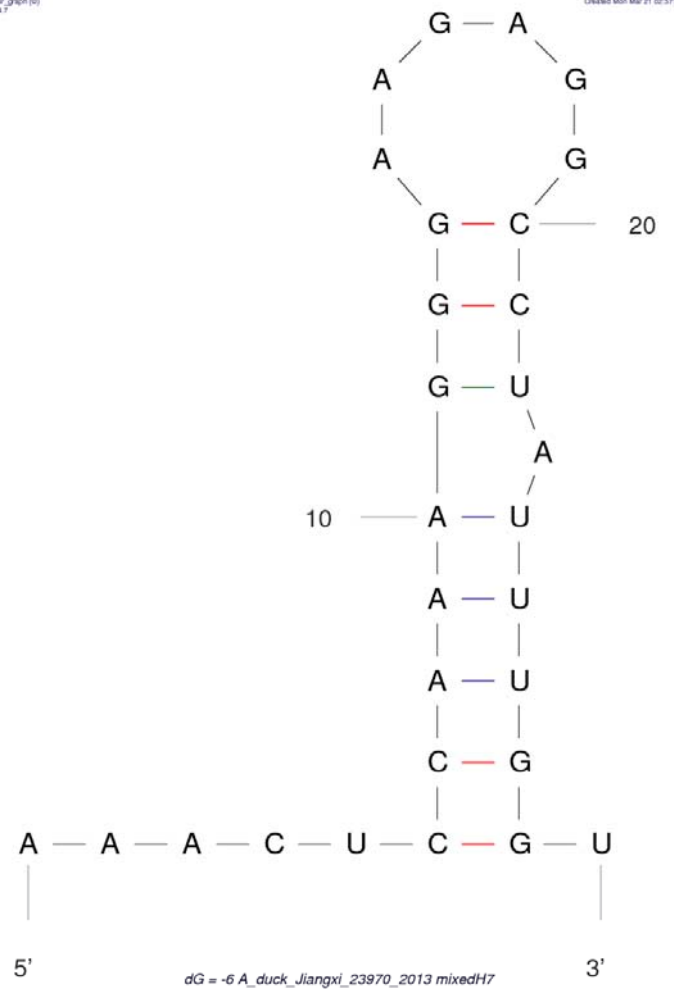
dG = -5.4 A_duck_Shimane_137_2006 H7N3

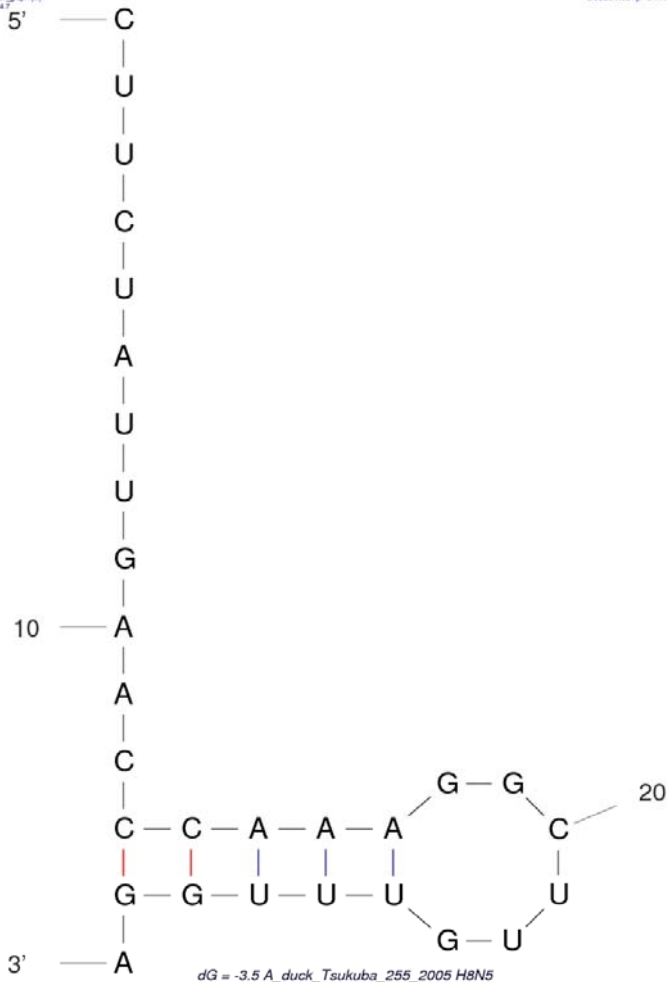
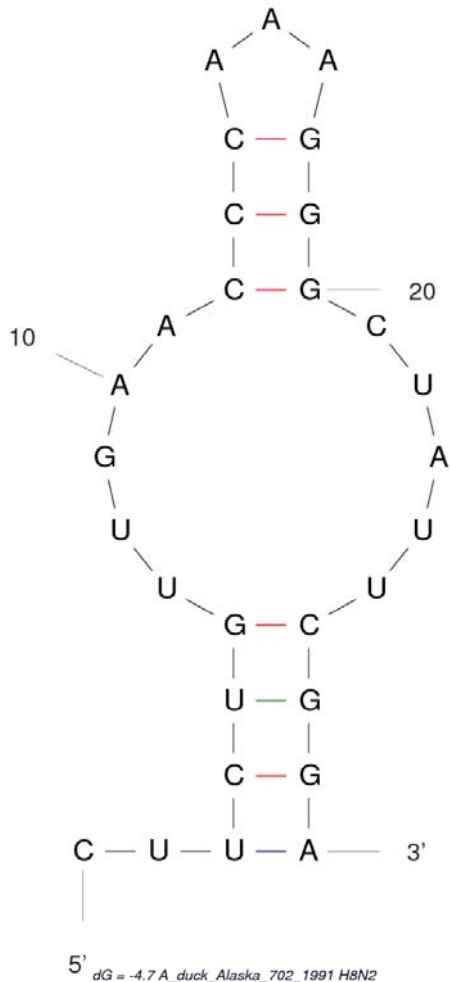
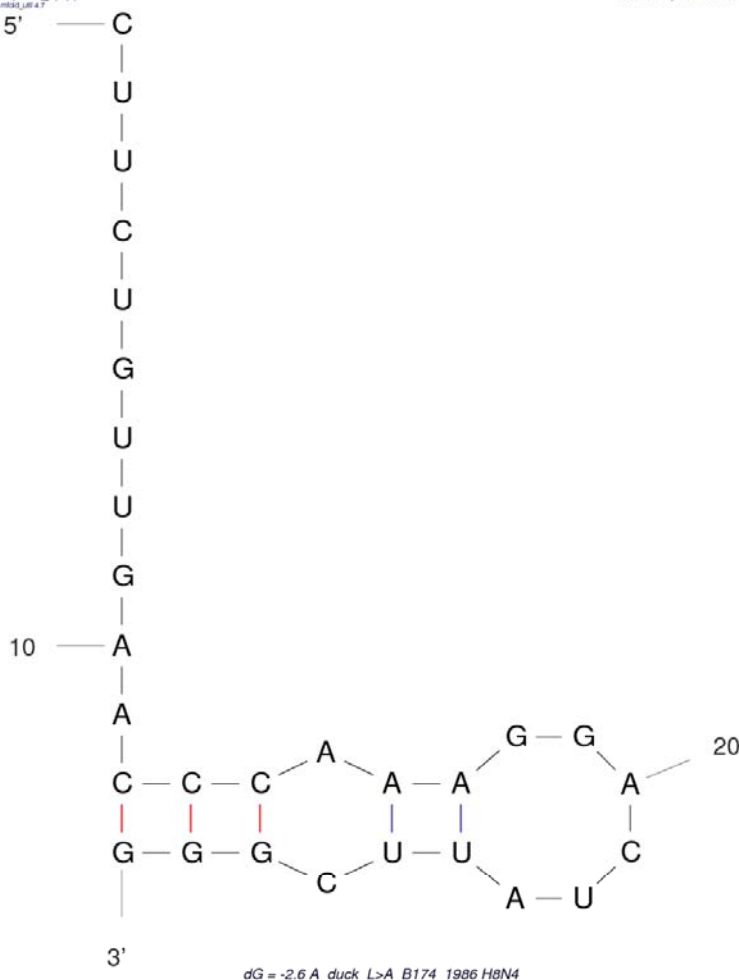
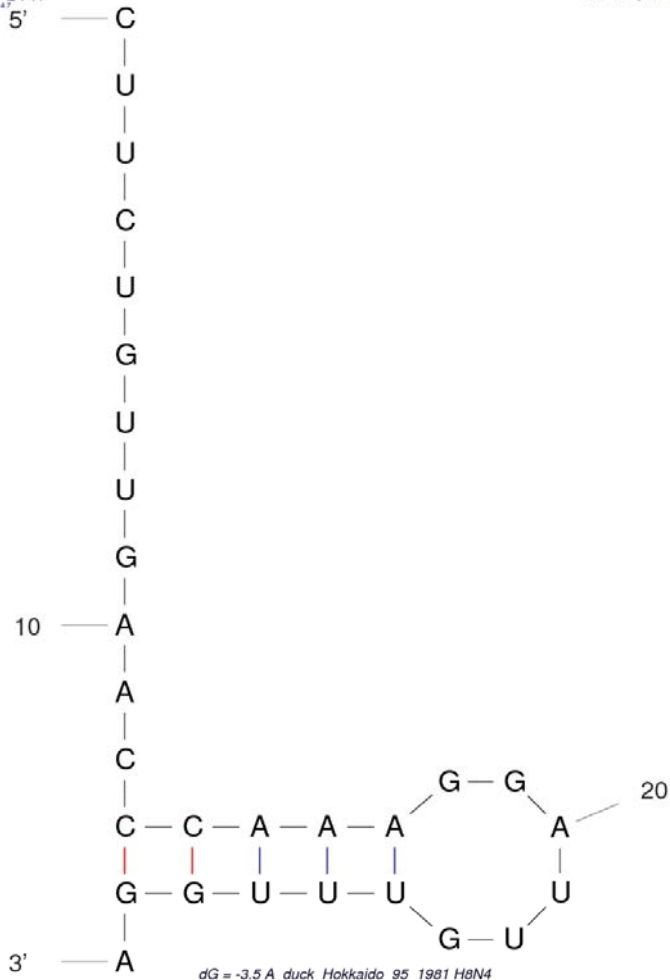


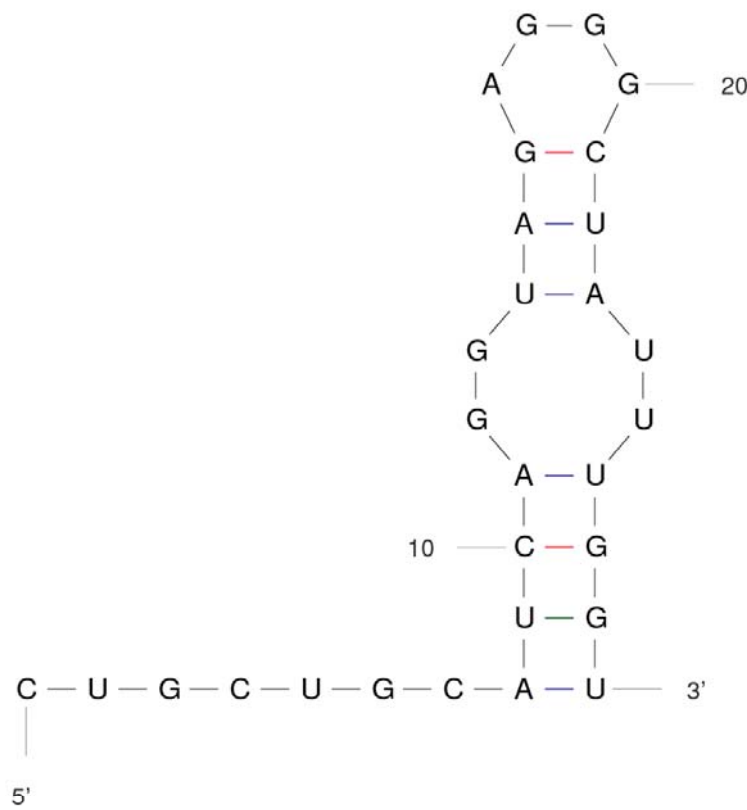
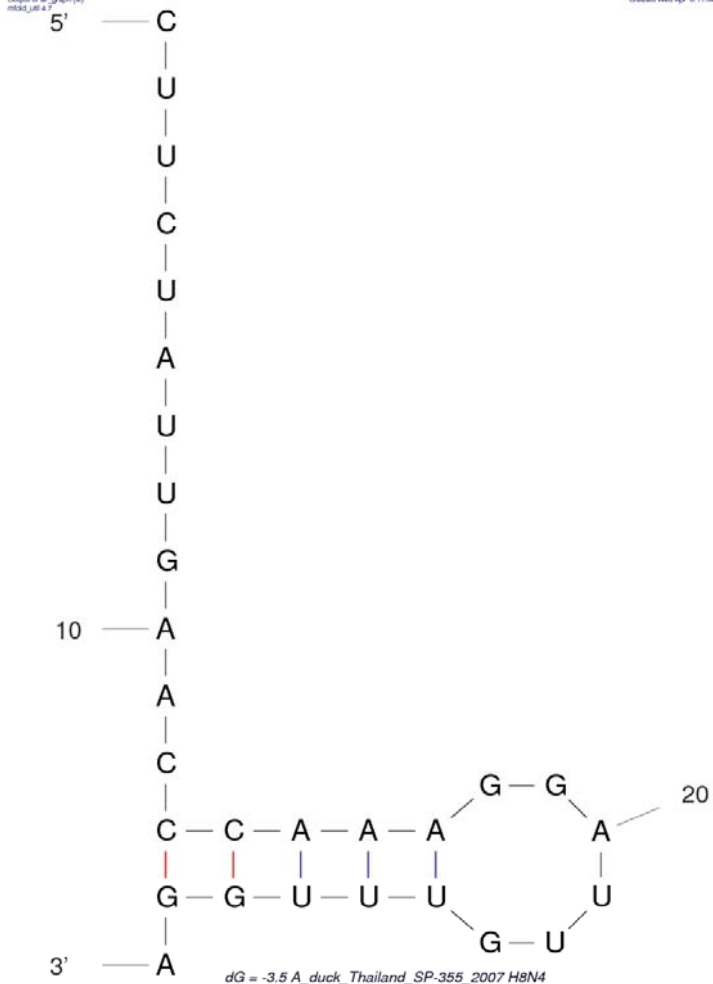
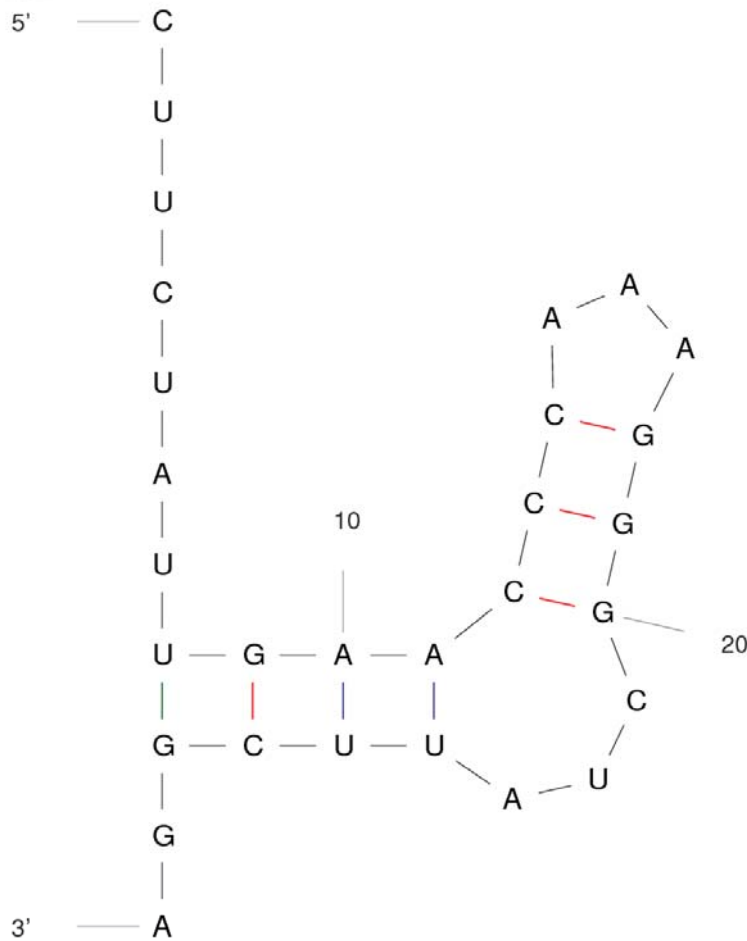
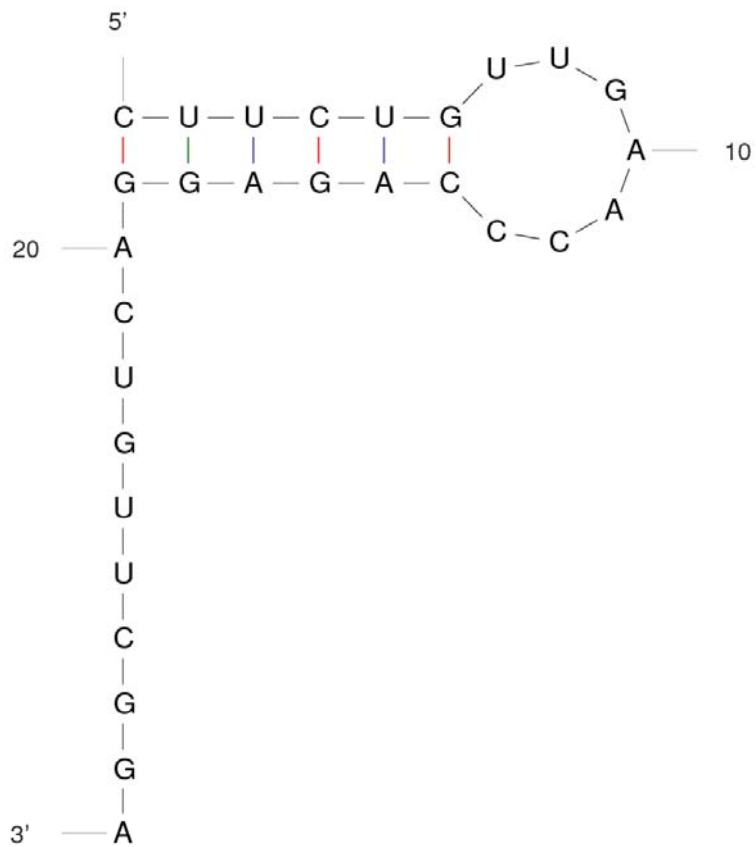


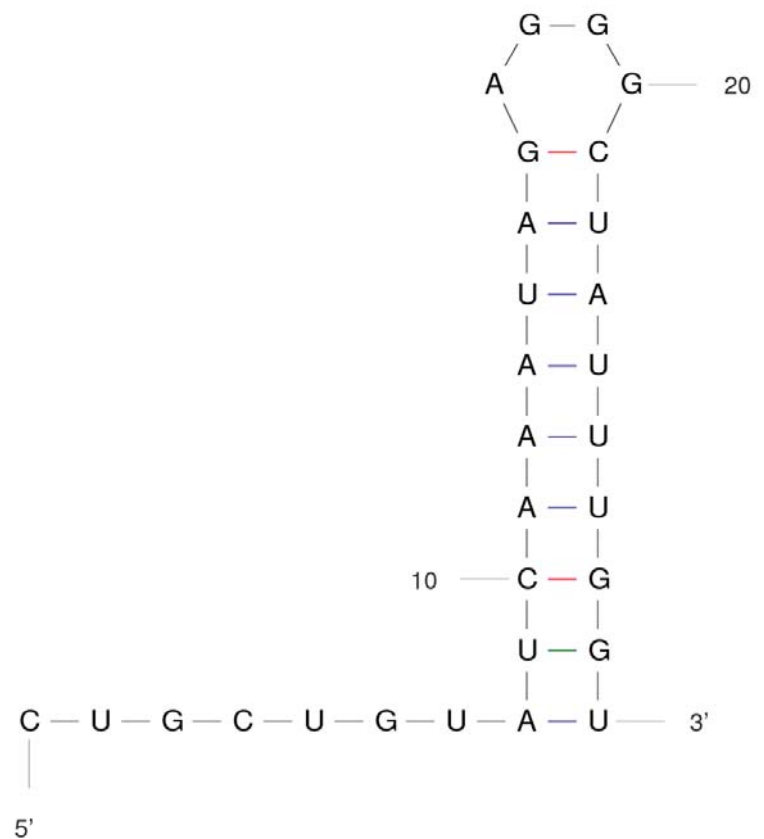
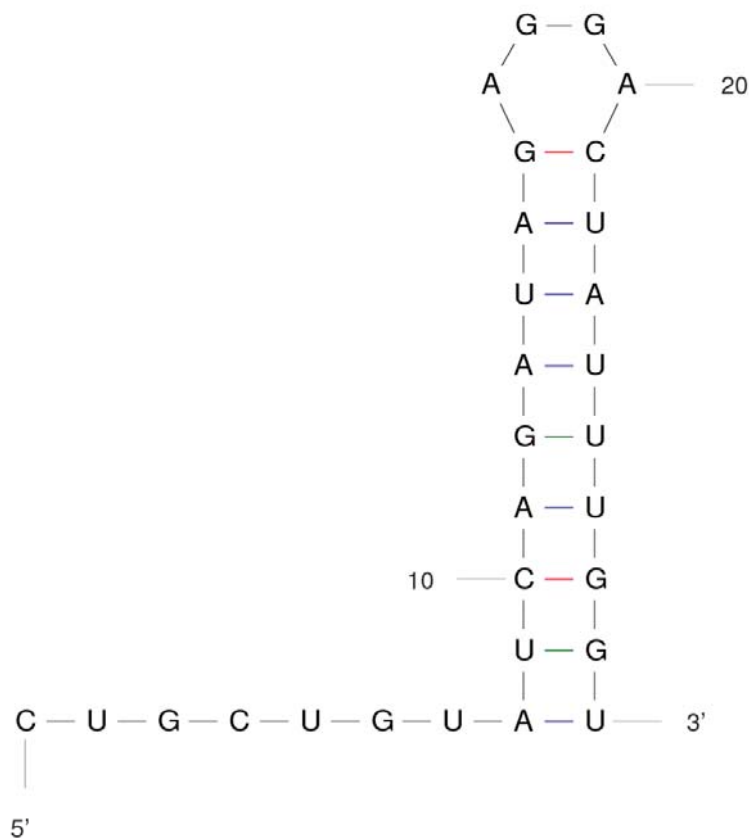
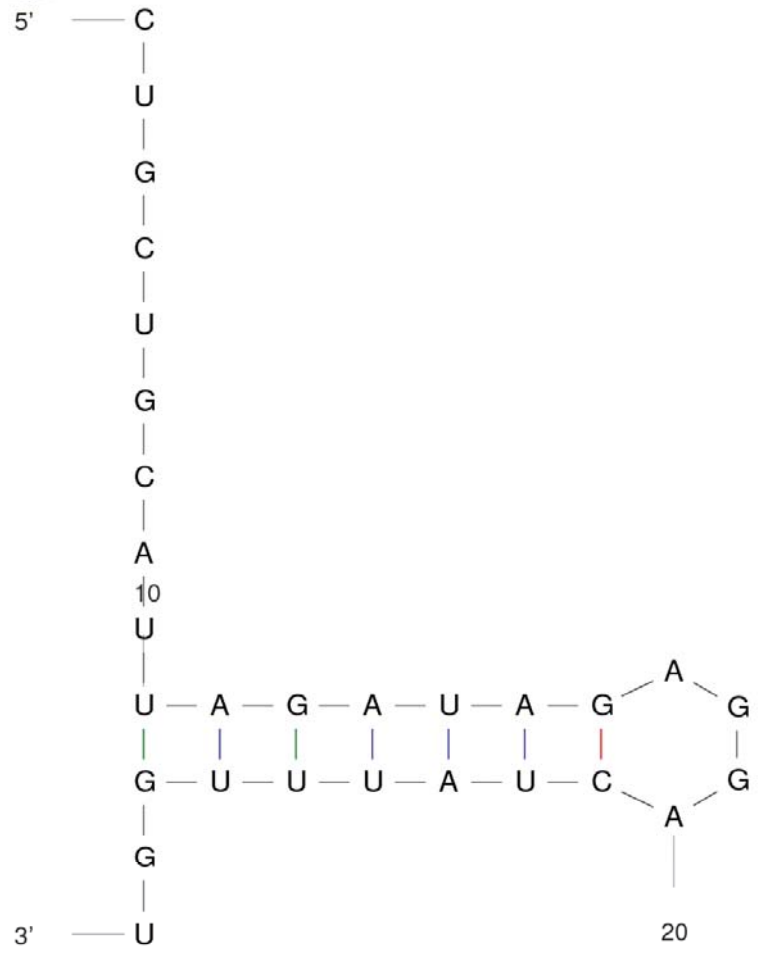
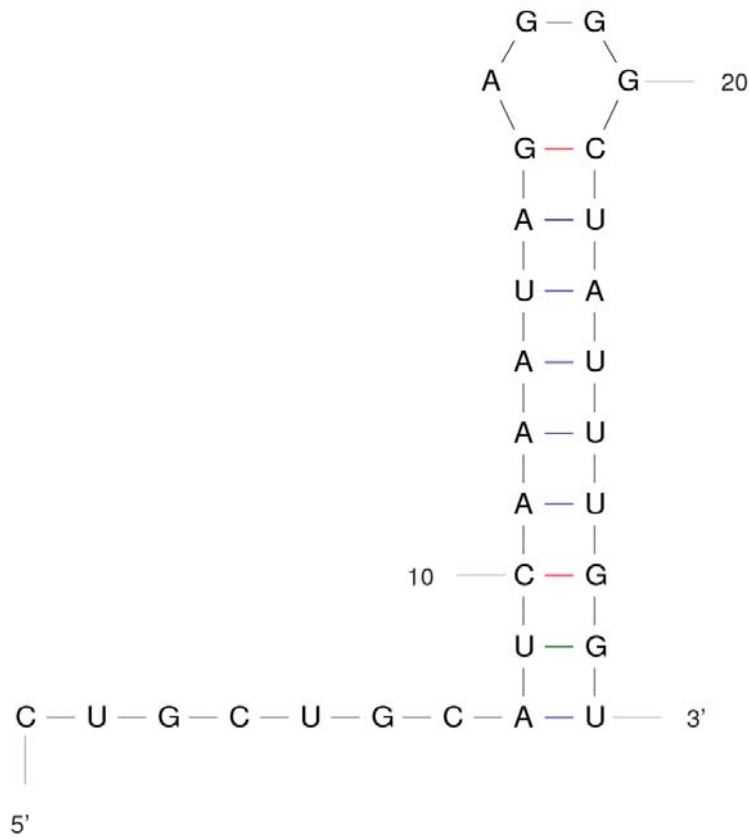


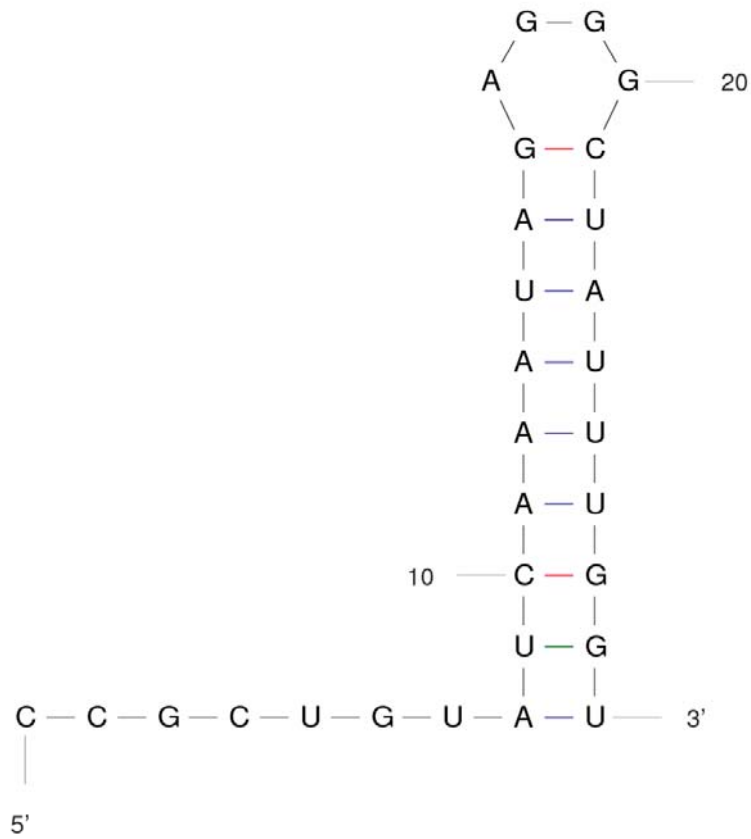




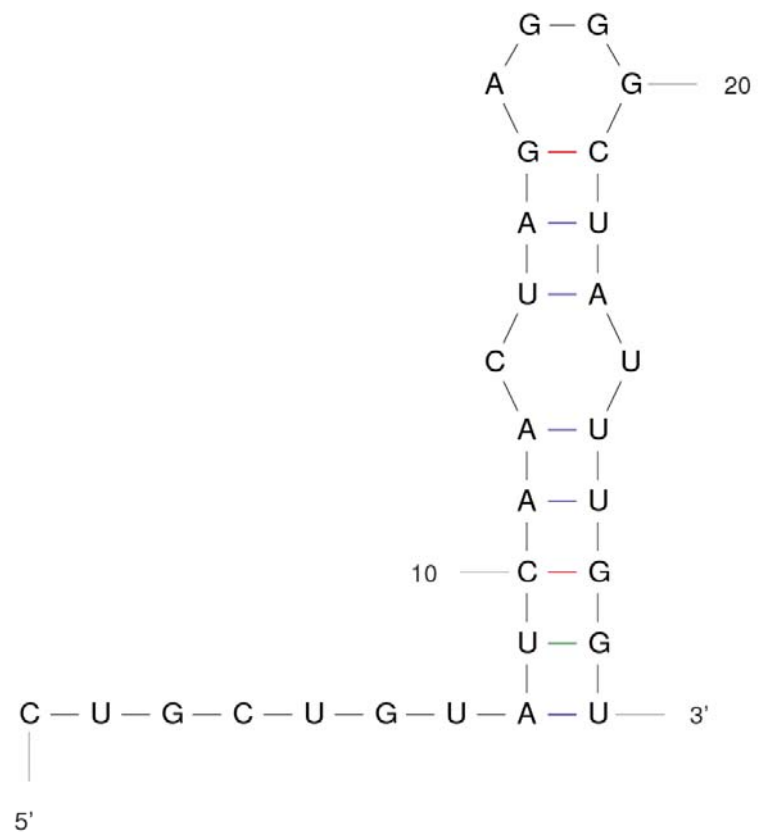




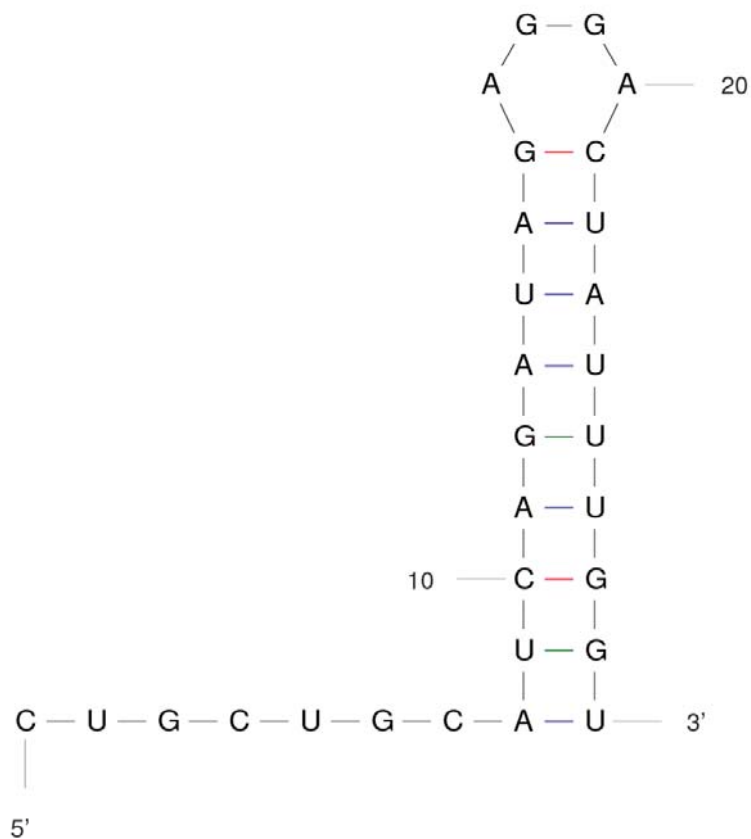




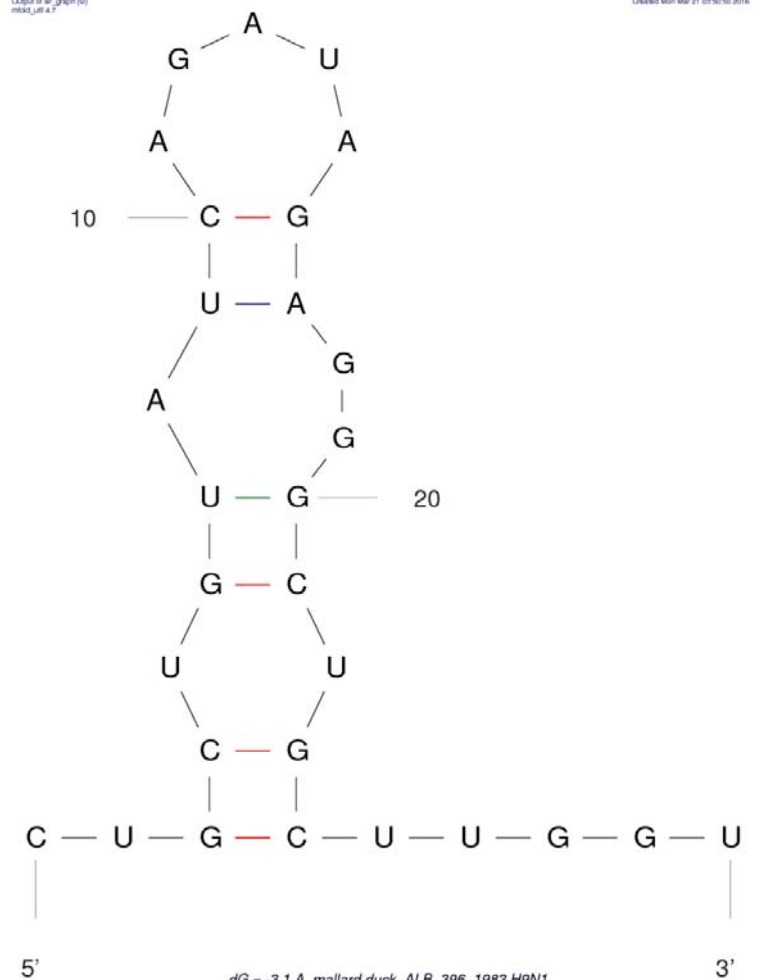
dG = -6.7 A_duck_Hong Kong_610_79 H9N2



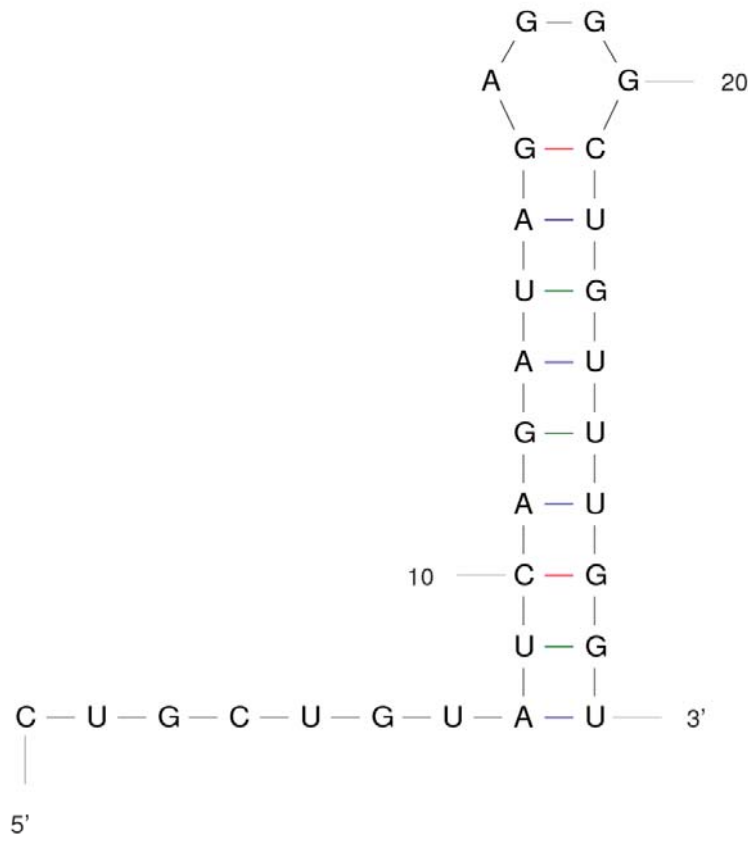
dG = -3 A_duck_Hong Kong_702_1979-chicken adapted H9N2



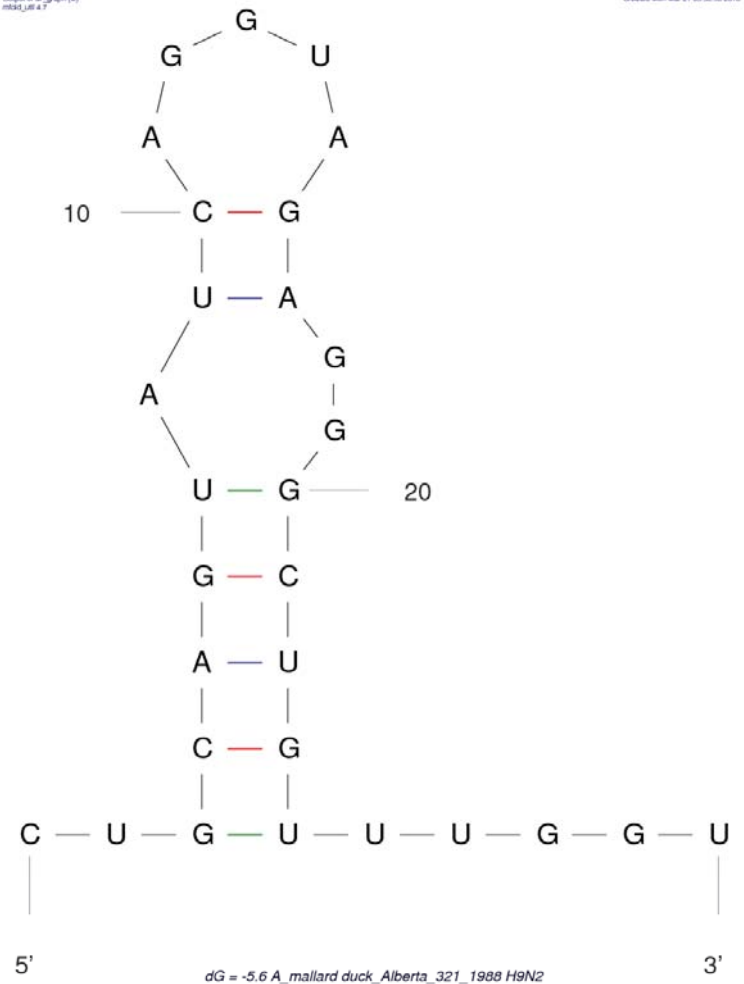
dG = -6.7 A_duck_Hong Kong_784_1979 H9N2



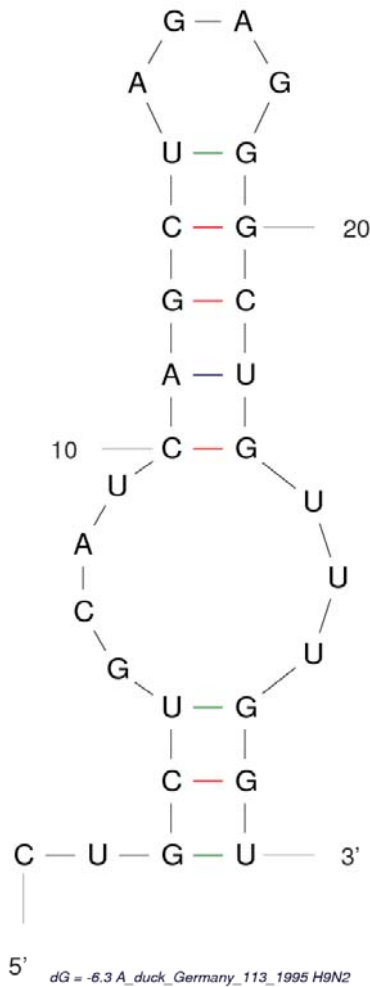
dG = -3.1 A_mallard duck_ALB_396_1983 H9N1



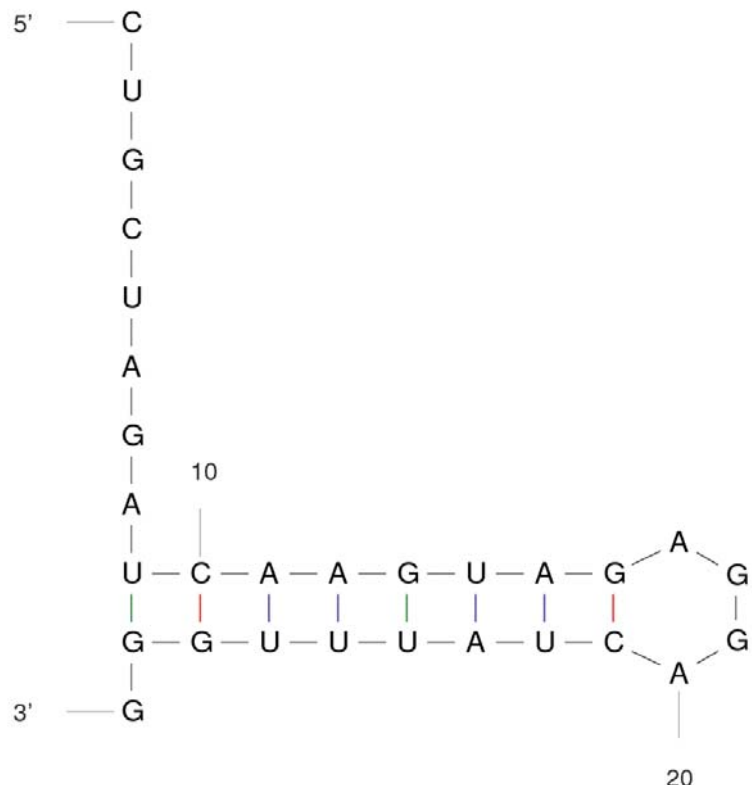
dG = -6.8 A_mallard duck_ALB_506_1983 H9N1



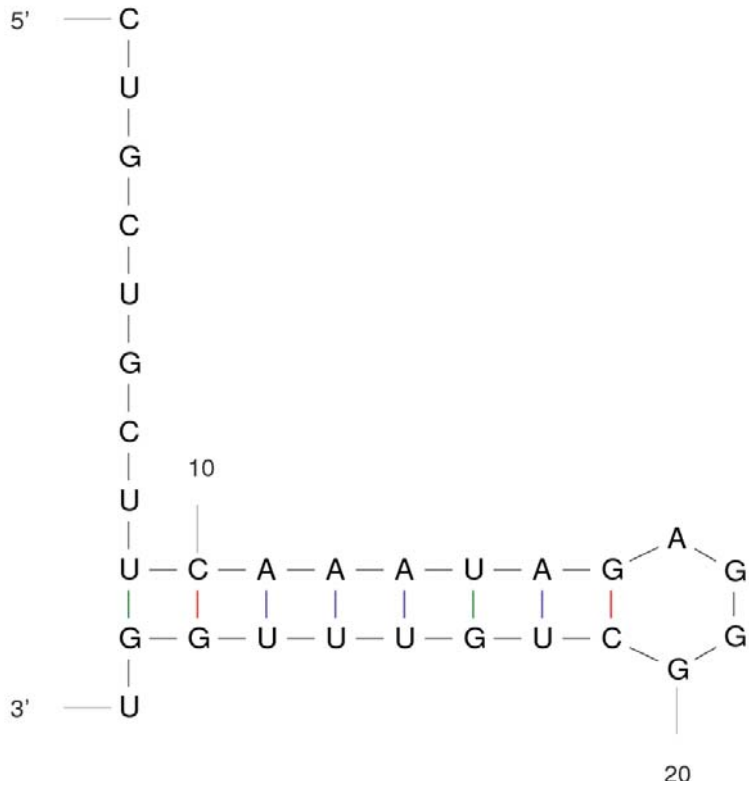
dG = -5.6 A_mallard duck_Alberta_321_1988 H9N2



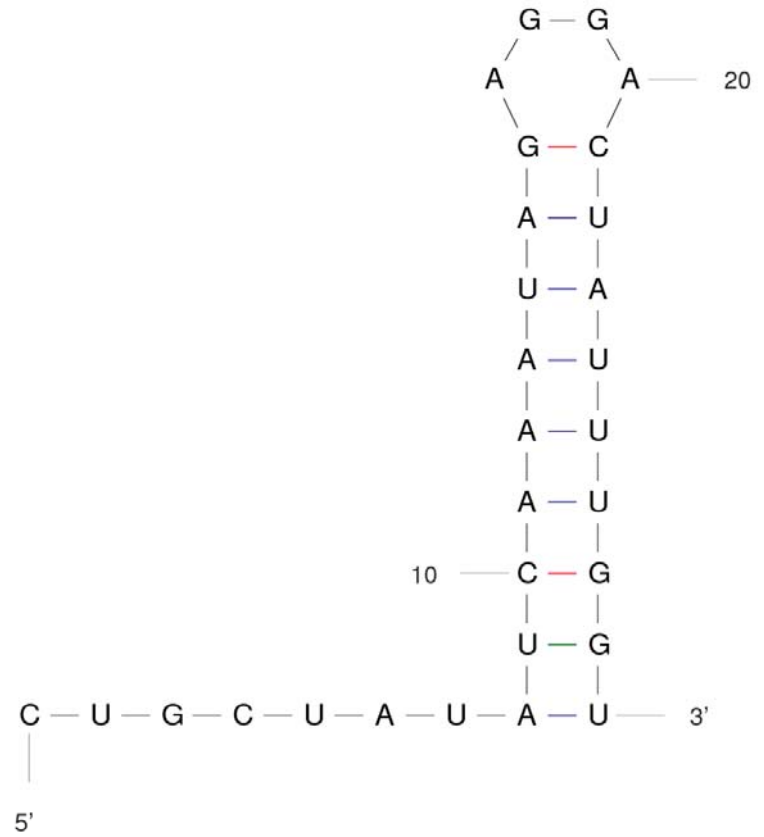
dG = -6.3 A_duck_Germany_113_1995 H9N2



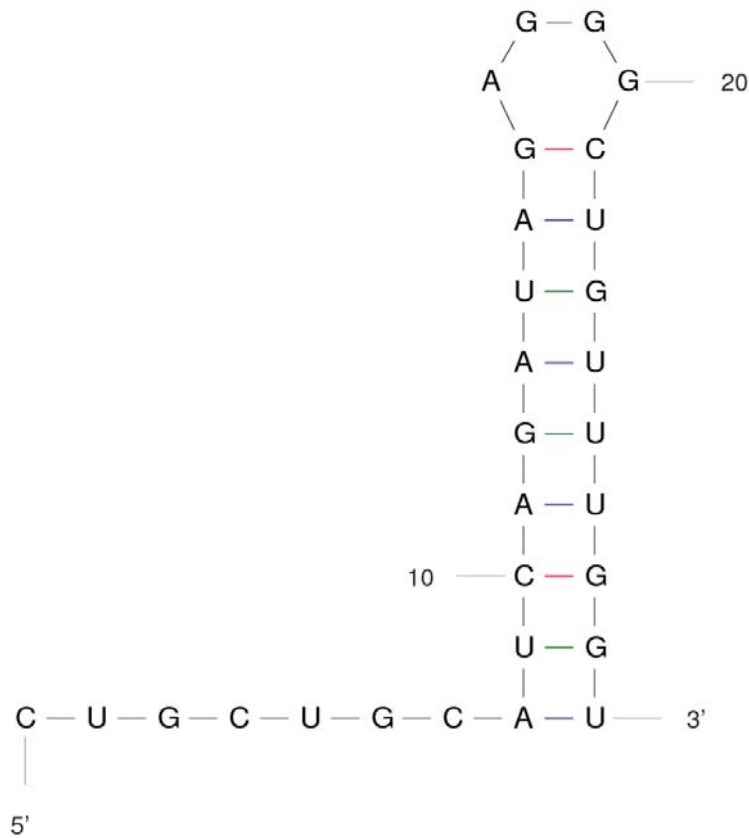
dG = -5.7 A_Muscovy duck_Fujian_CL_1997 H9N2



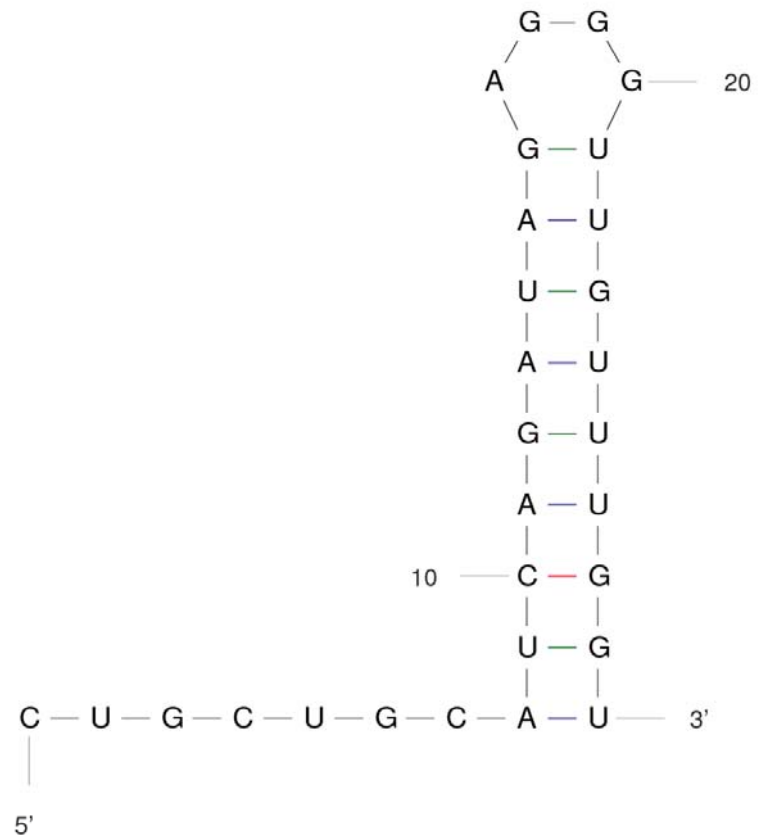
dG = -5.9 A_duck_Hong Kong_Y439_1997 H9N2



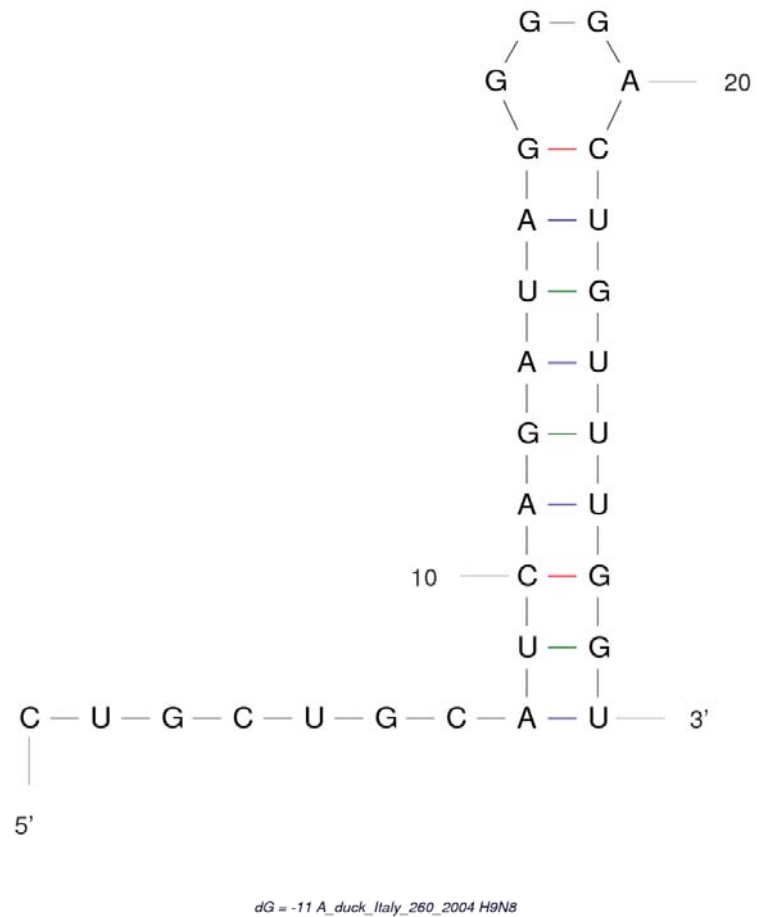
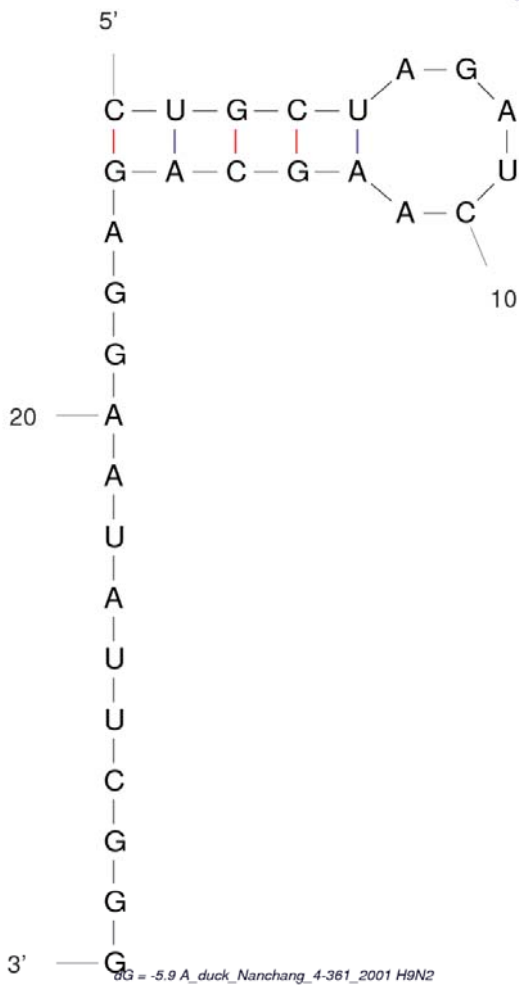
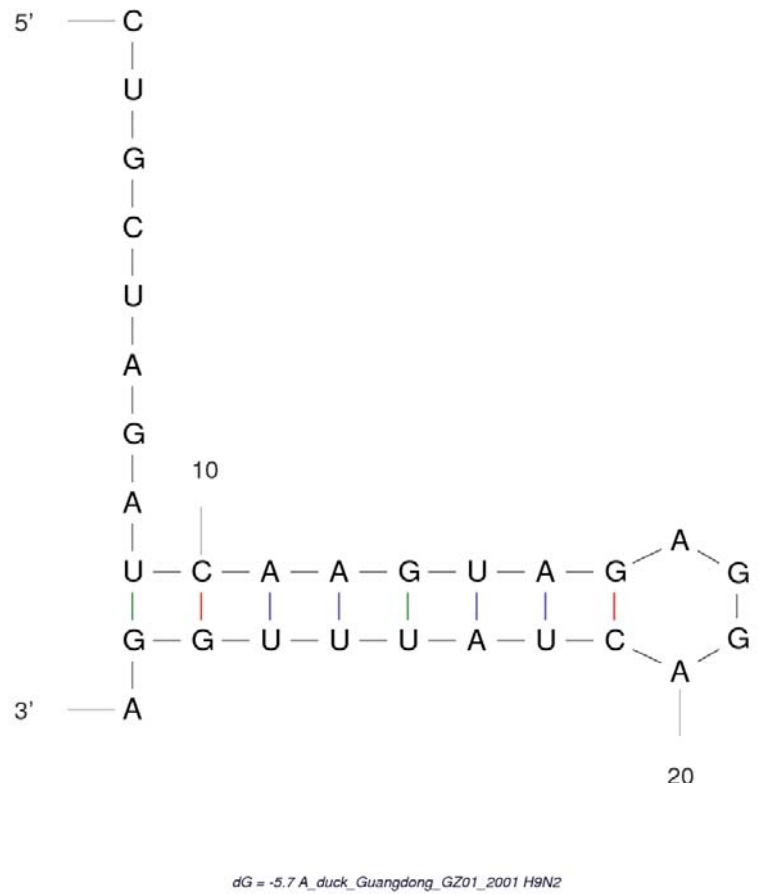
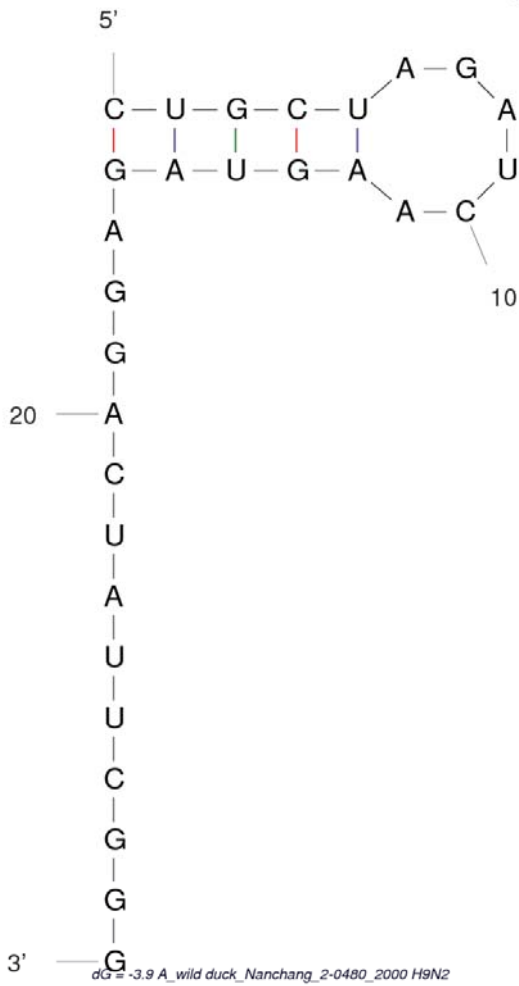
dG = -6.5 A_duck_Malaysia_91_1997 H9N2

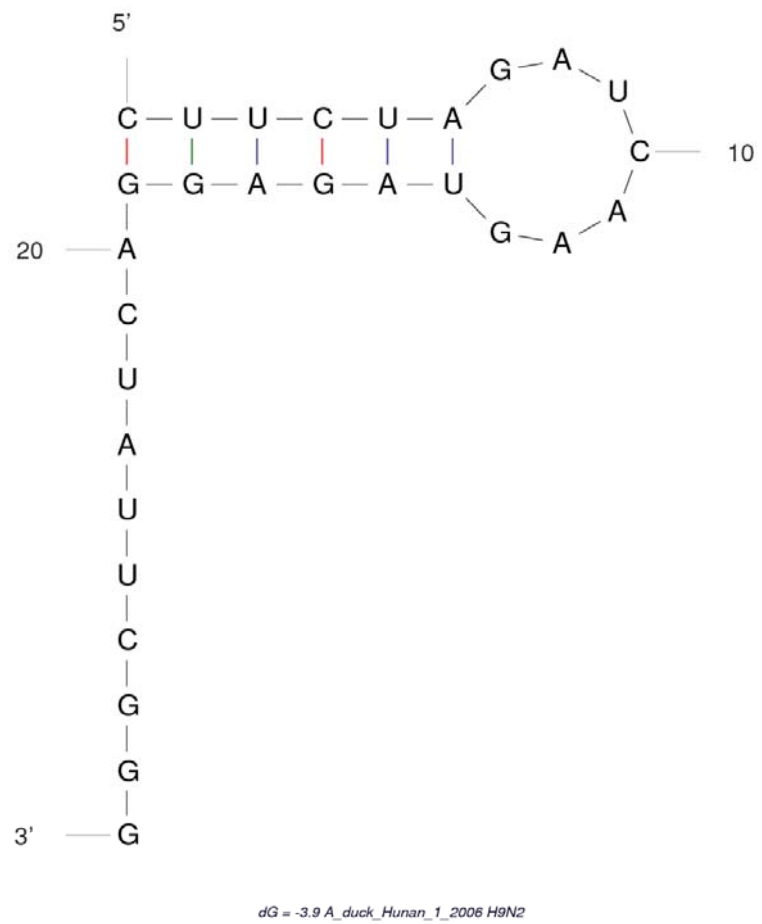
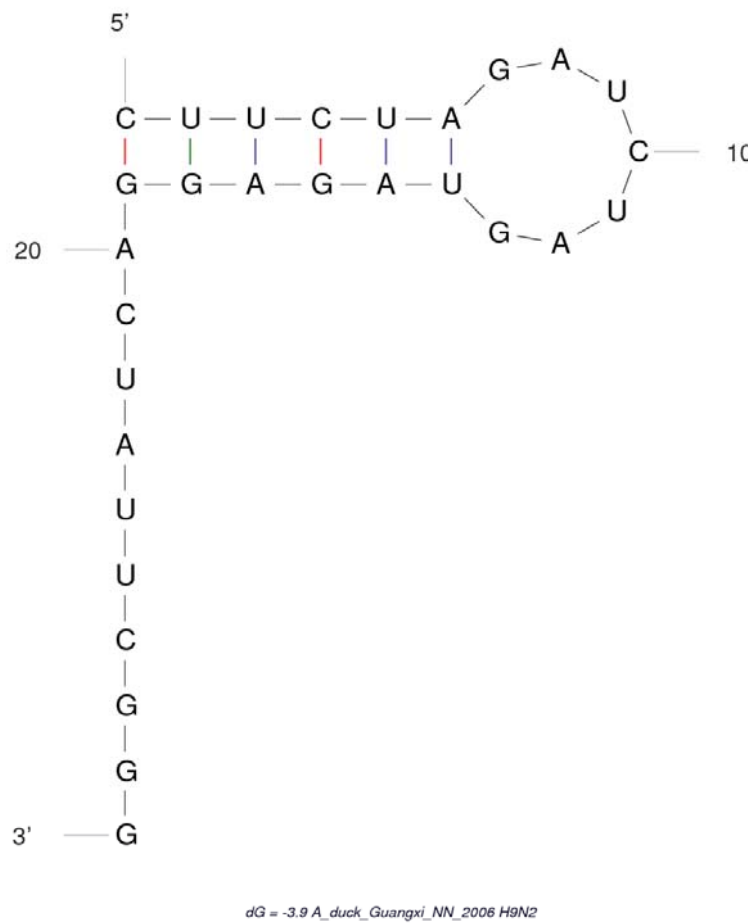
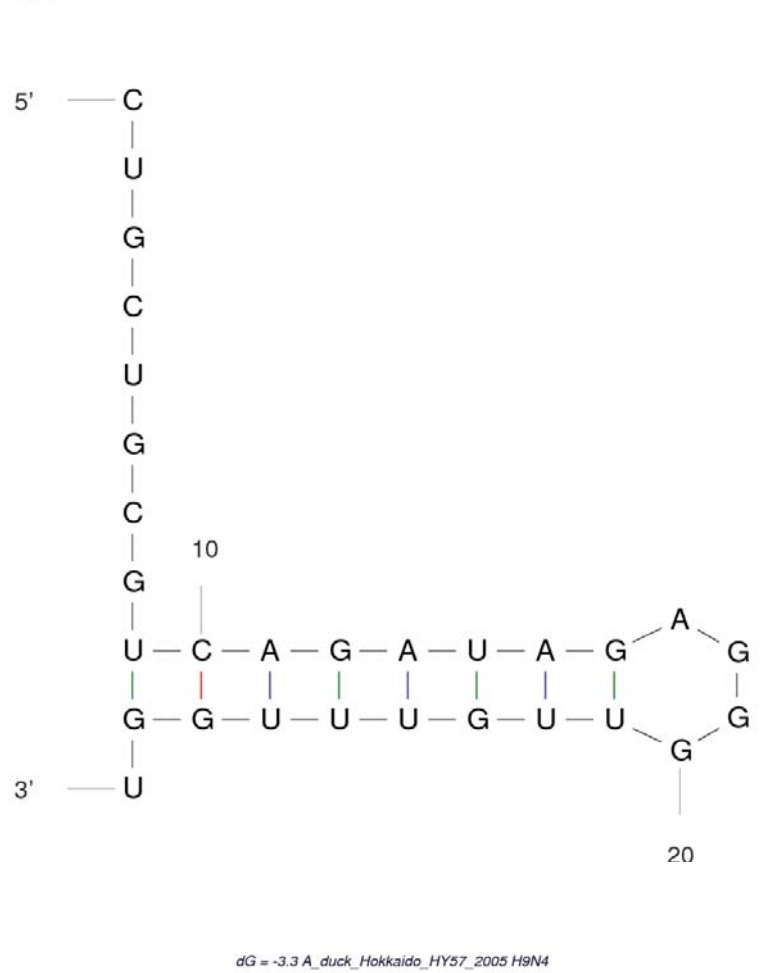
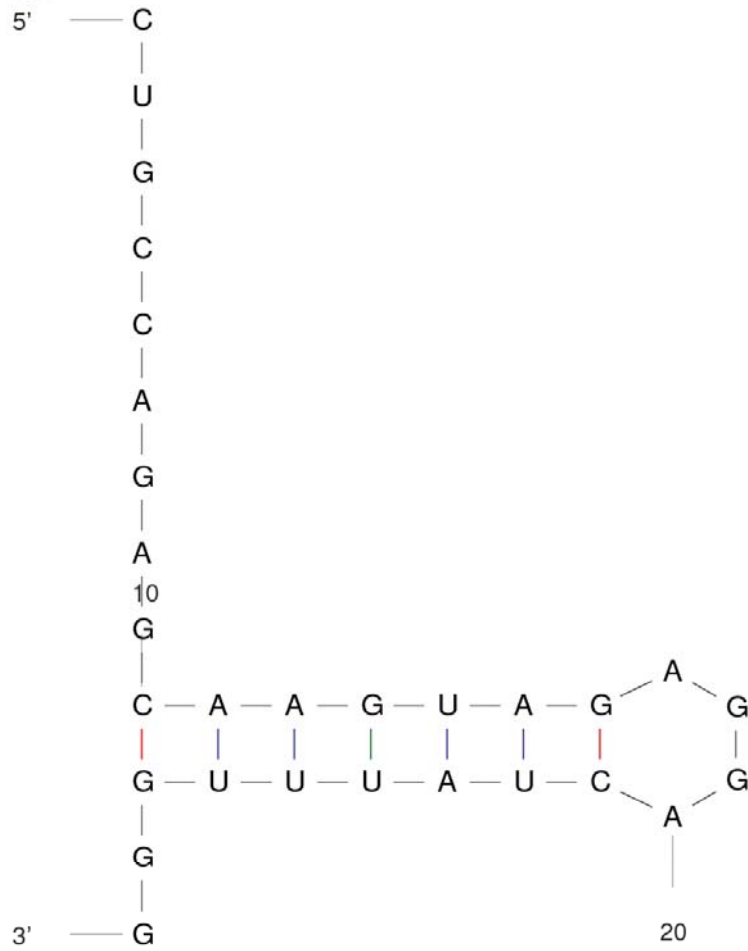


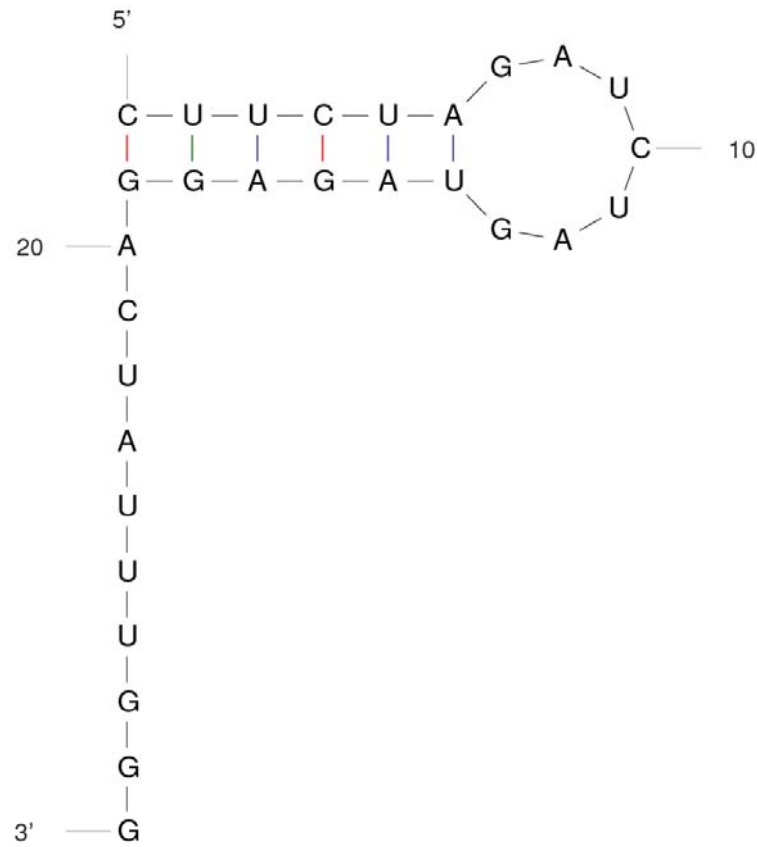
dG = -6.9 A_duck_Hokkaido_49_98 H9N2



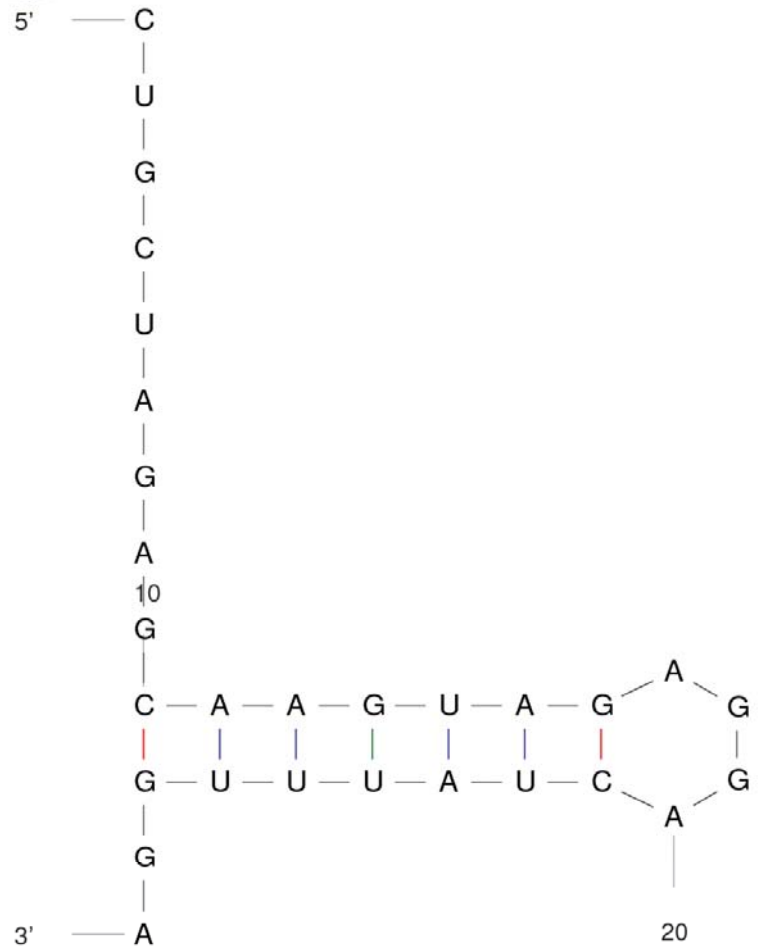
dG = -4.4 A_duck_Hokkaido_9_99 H9N2



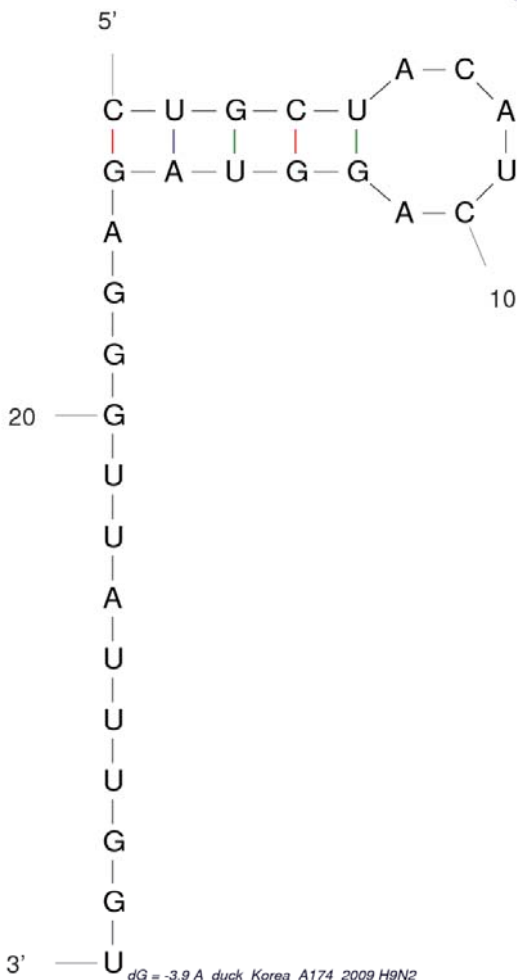




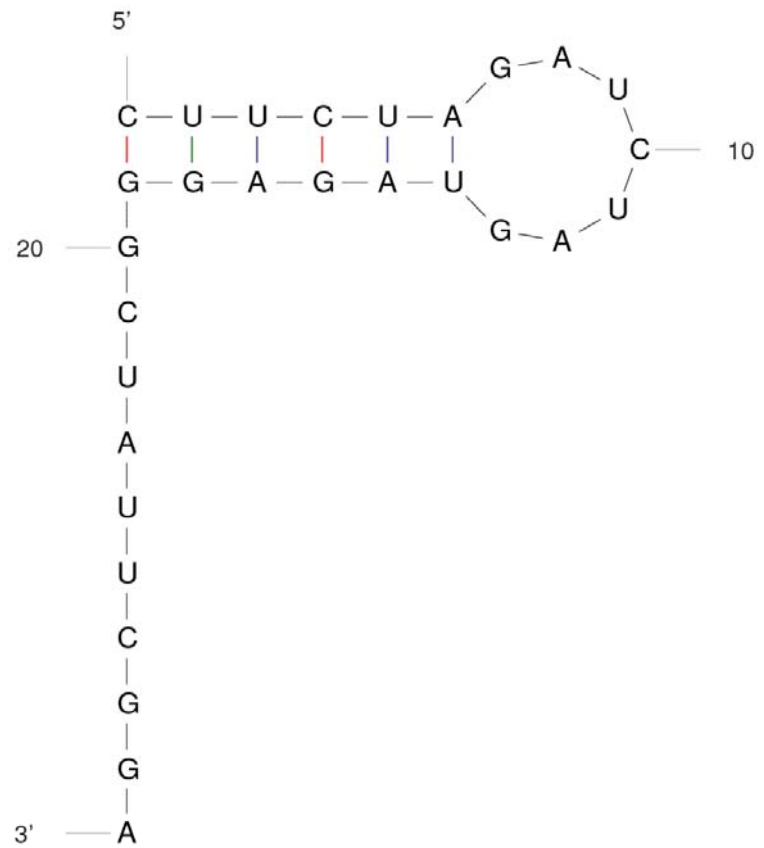
dG = -3.9 A_duck_Guangdong_B10_2009 H9N2



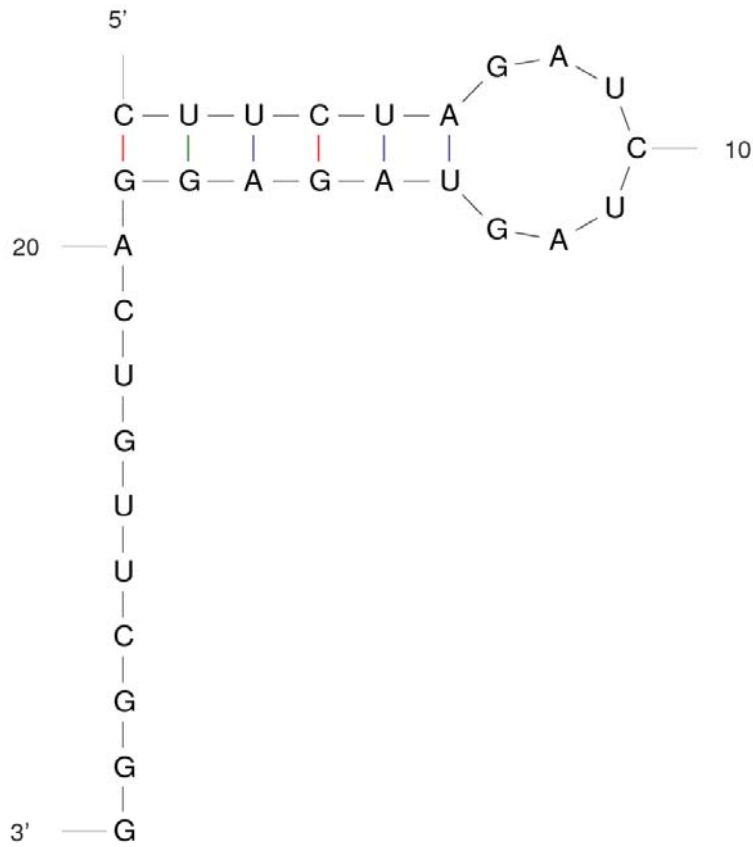
dG = -5.3 A_duck_Guangxi_LAD9_2009 H9N8



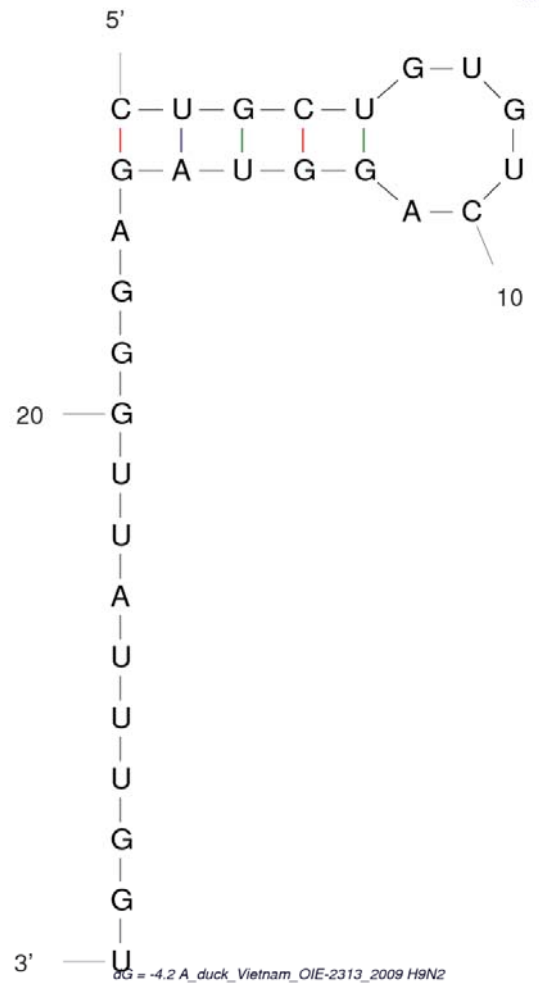
dG = -3.9 A_duck_Korea_A174_2009 H9N2



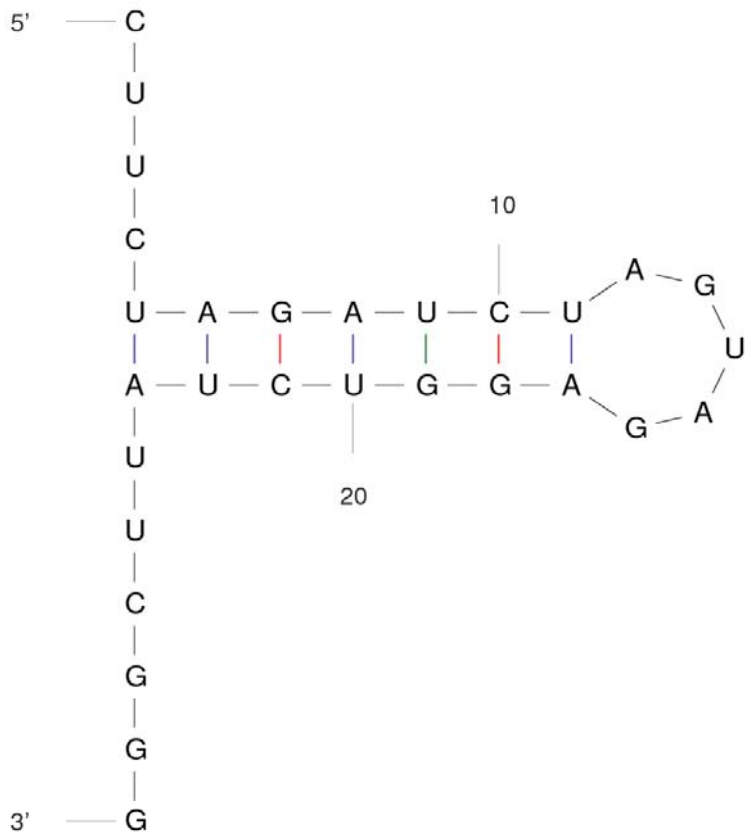
dG = -4.1 A_duck_Shanghai_C163_2009 H9N2



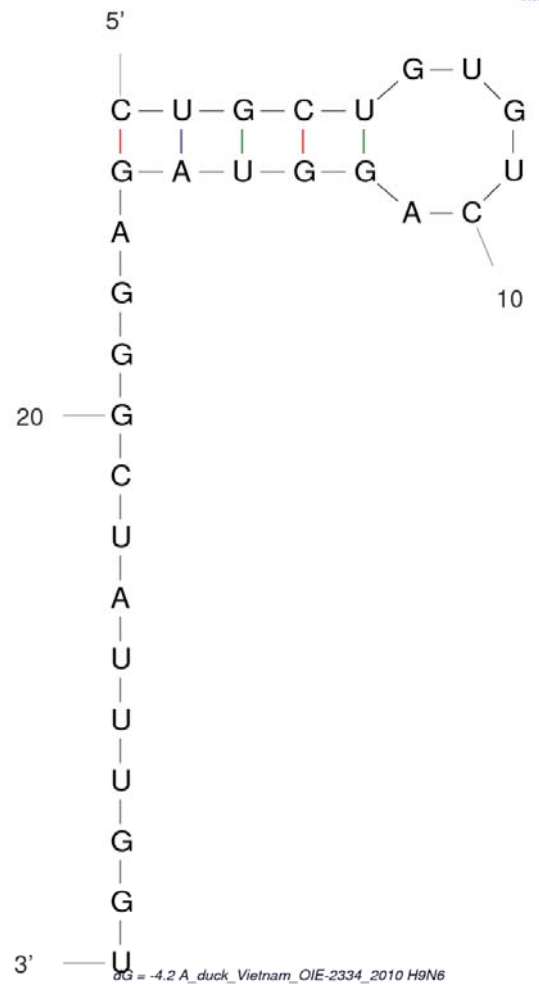
dG = -3.9 A_duck_Tibet_S2_2009 H9N2



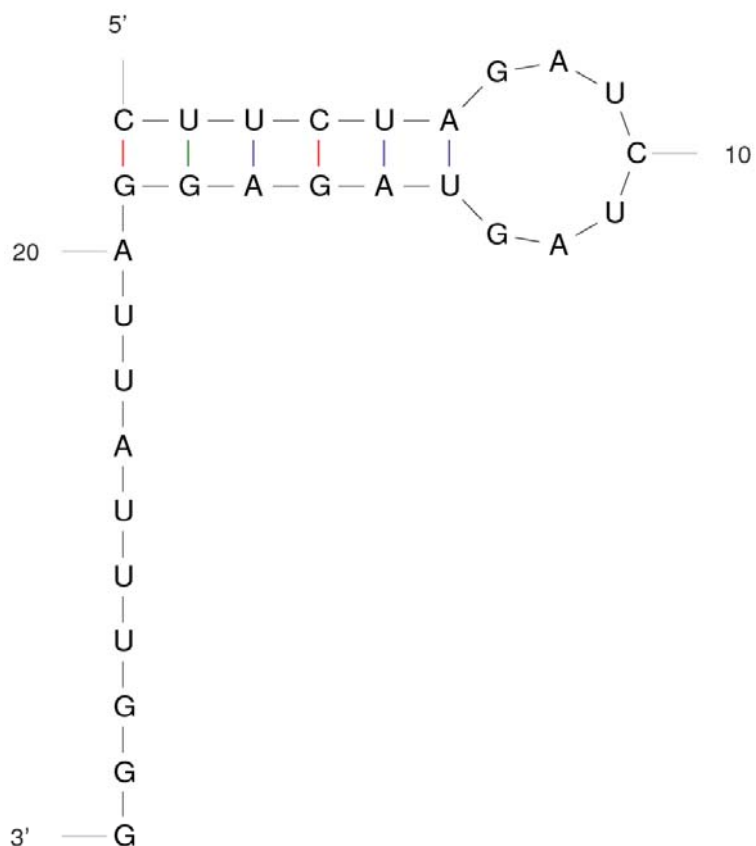
dG = -4.2 A_duck_Vietnam_OIE-2313_2009 H9N2



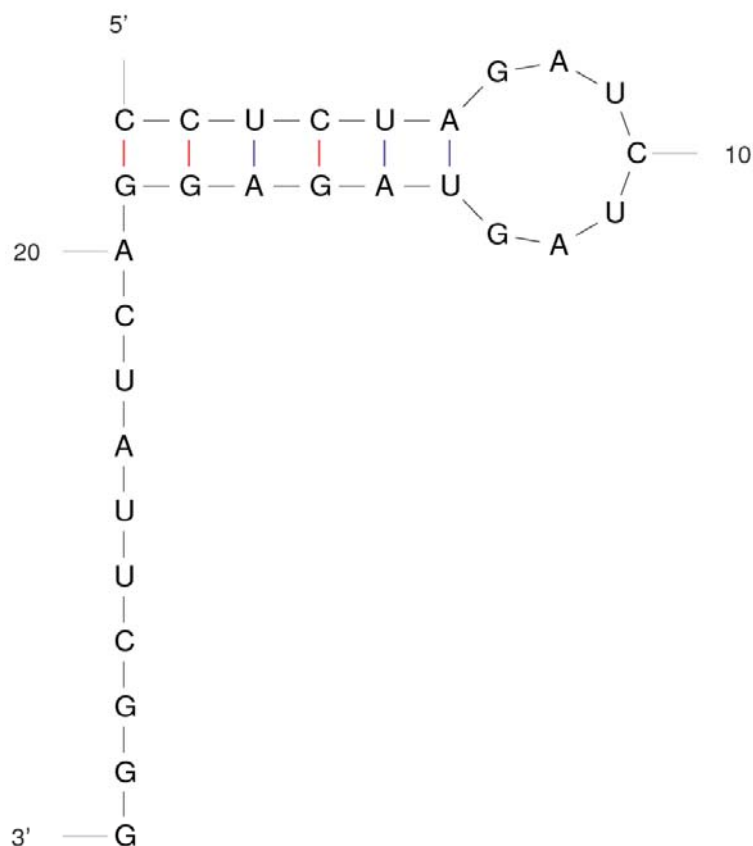
dG = -6.1 A_duck_Guangdong_G17_2010 H9N2



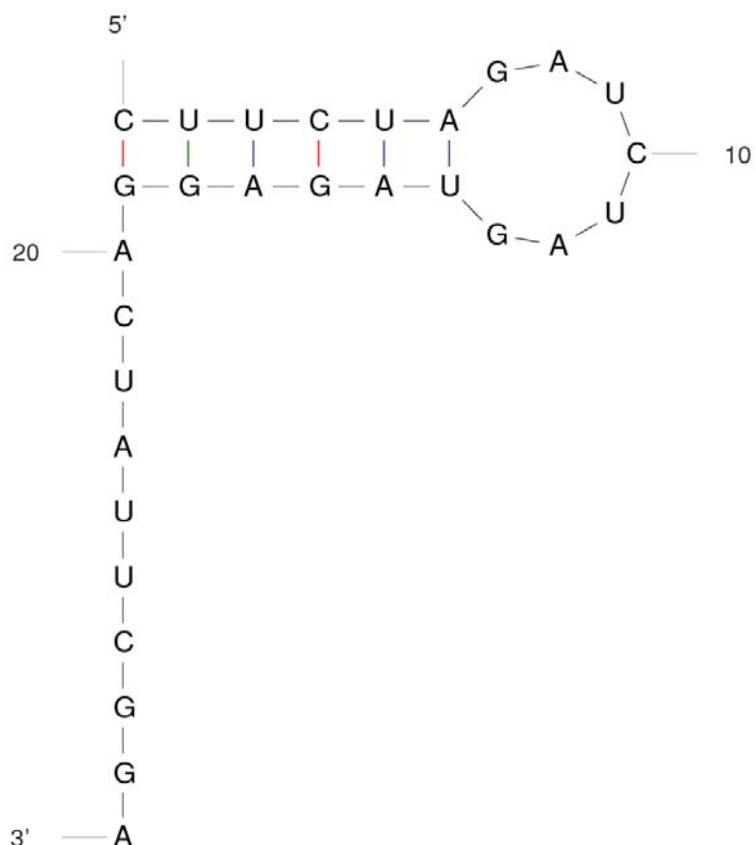
dG = -4.2 A_duck_Vietnam_OIE-2334_2010 H9N6



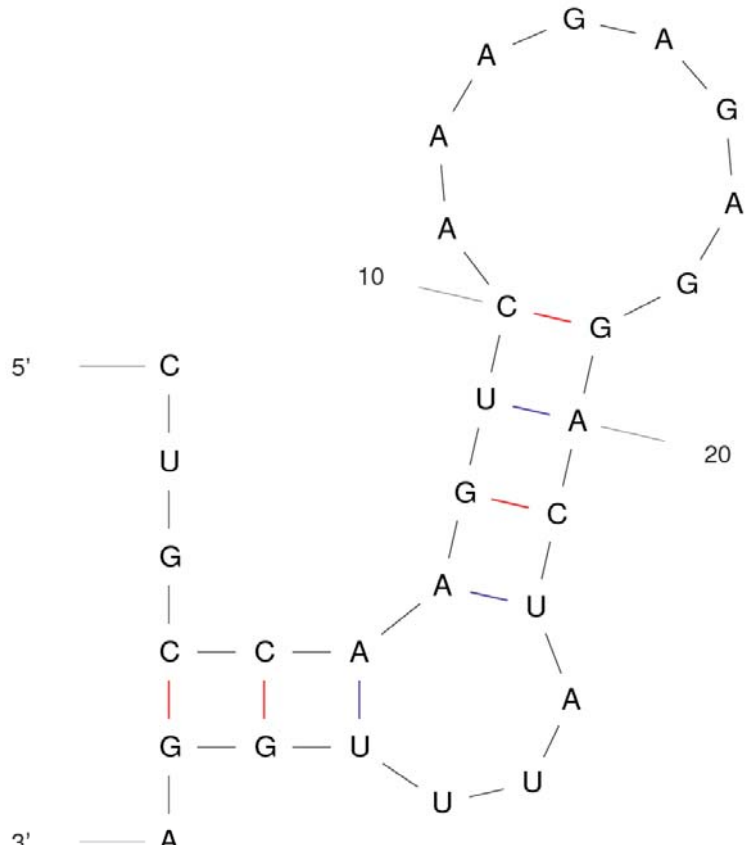
dG = -3.9 A_duck_Hubei_C1146_2011 H9N2



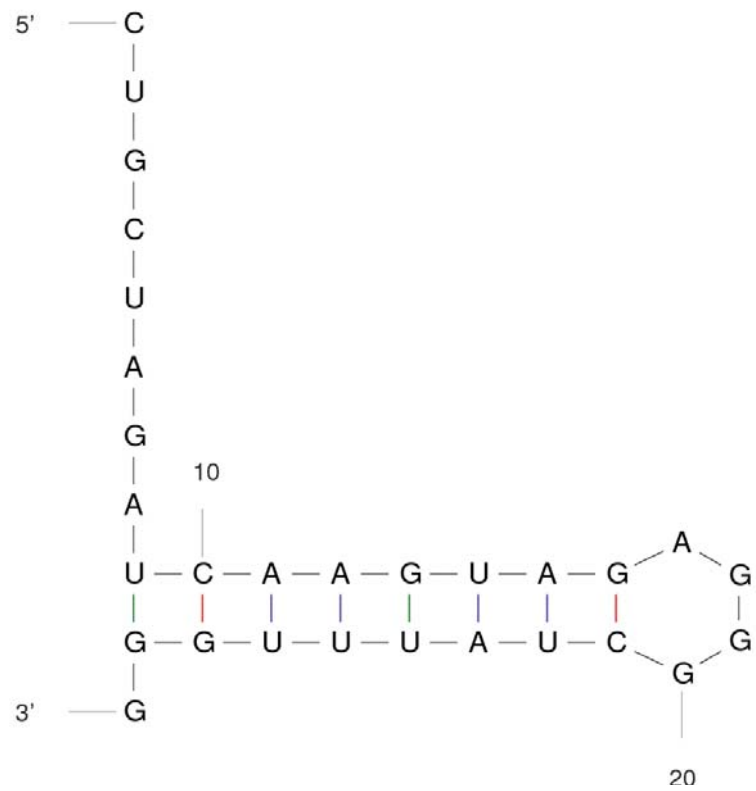
dG = -6.6 A_duck_Shandong_TA01_2012 H9N2



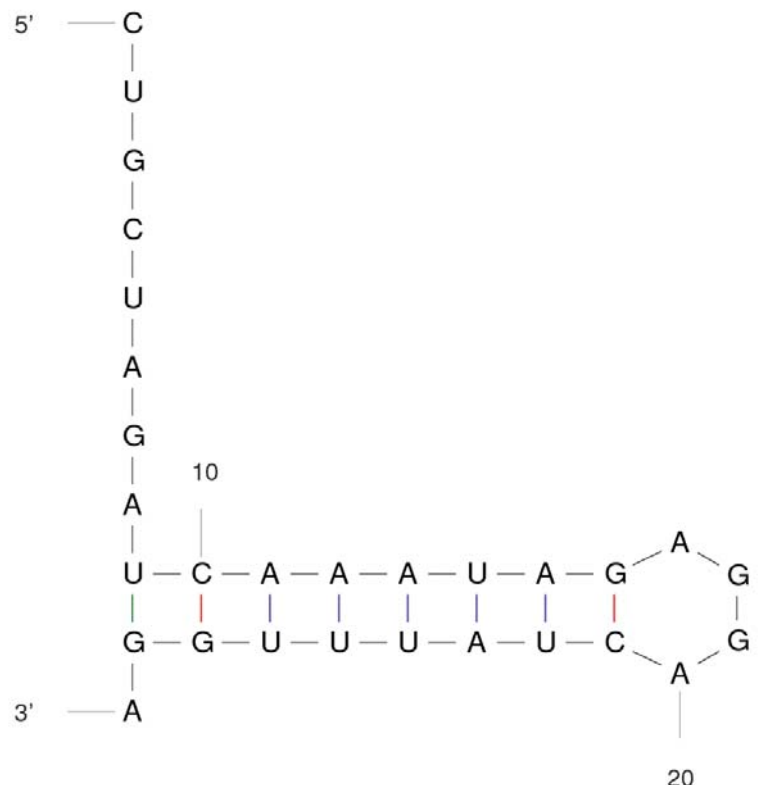
dG = -3.9 A_duck_Zhejiang_Z42_2012 H9



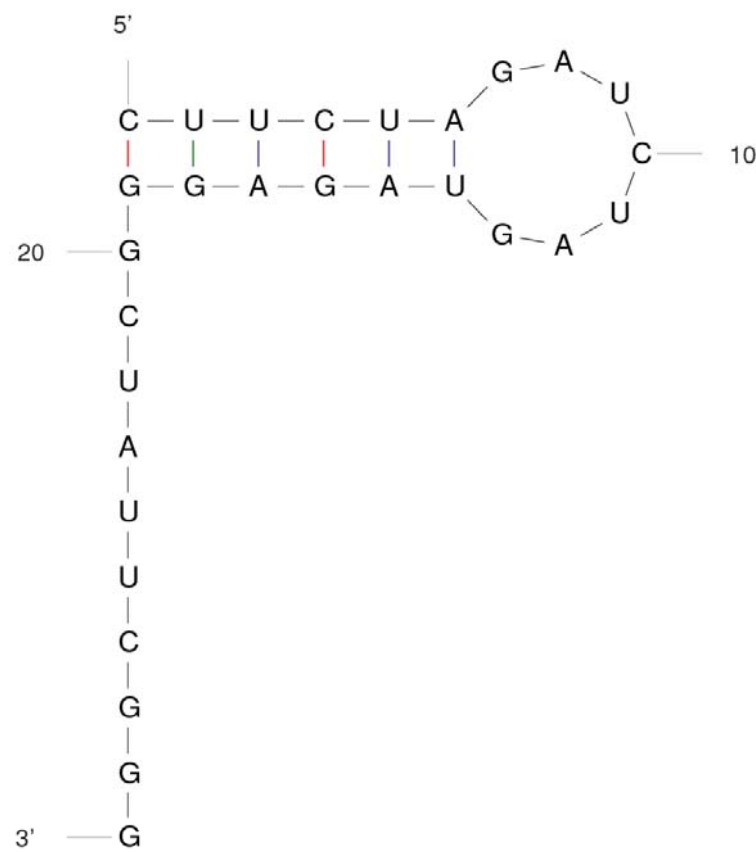
dG = -5 A_duck_Bangladesh_21126_2013 H9N2



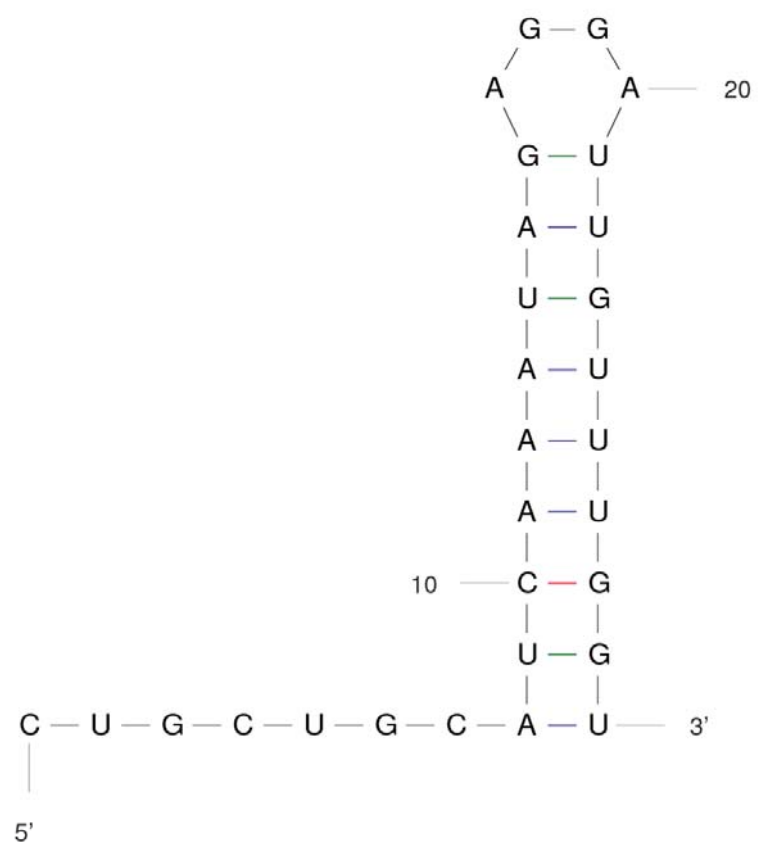
dG = -5.9 A_duck_Jiangsu_KS0802_2013 H9N2



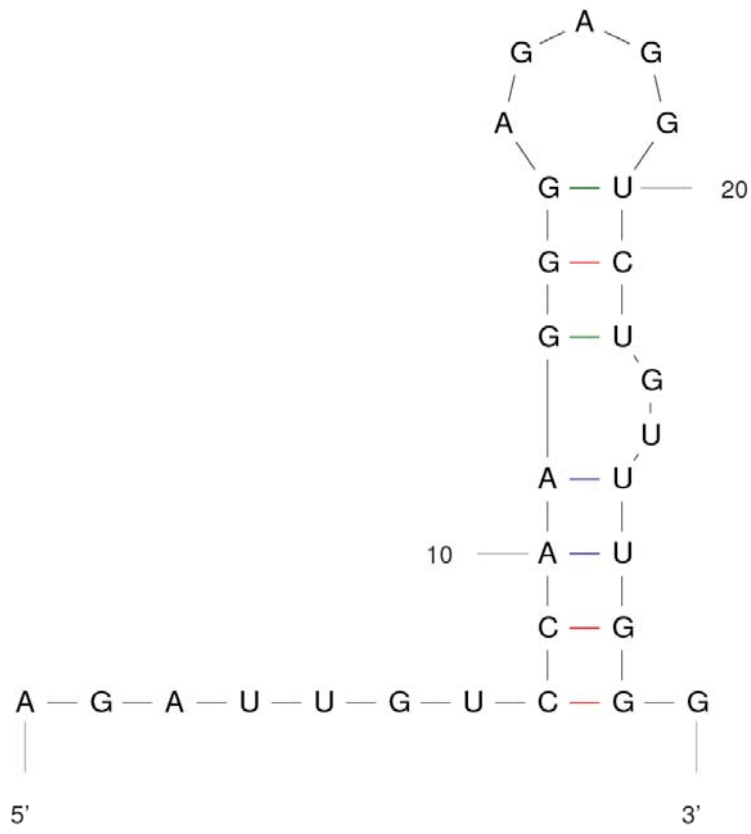
dG = -5.7 A_muscovy duck_Vietnam_LBM417_2013 H9N2



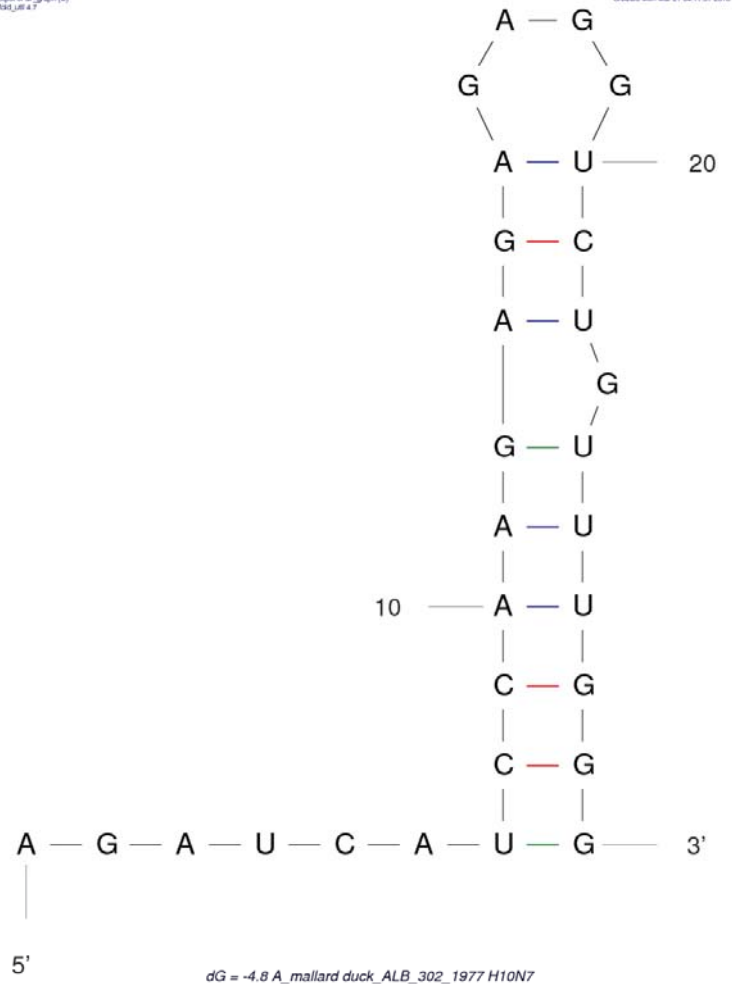
dG = -4.1 A_duck_Guangdong_G2259_2014 H9



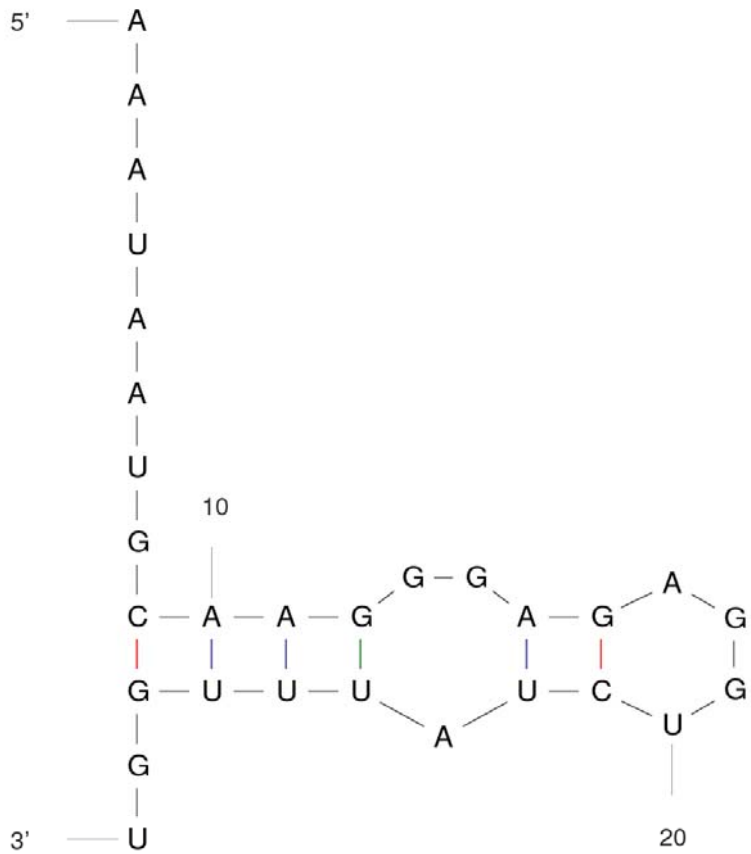
dG = -3.8 A_duck_Wuhan_WHYF05_2014 H9N2



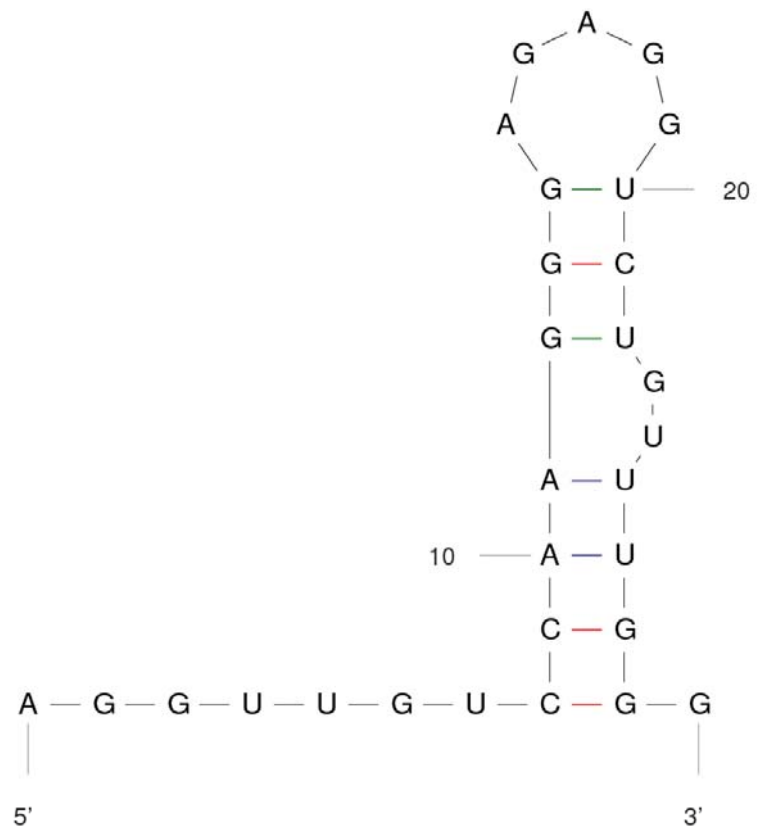
dG = -4.3 A_duck_Manitoba_1953 H10N7



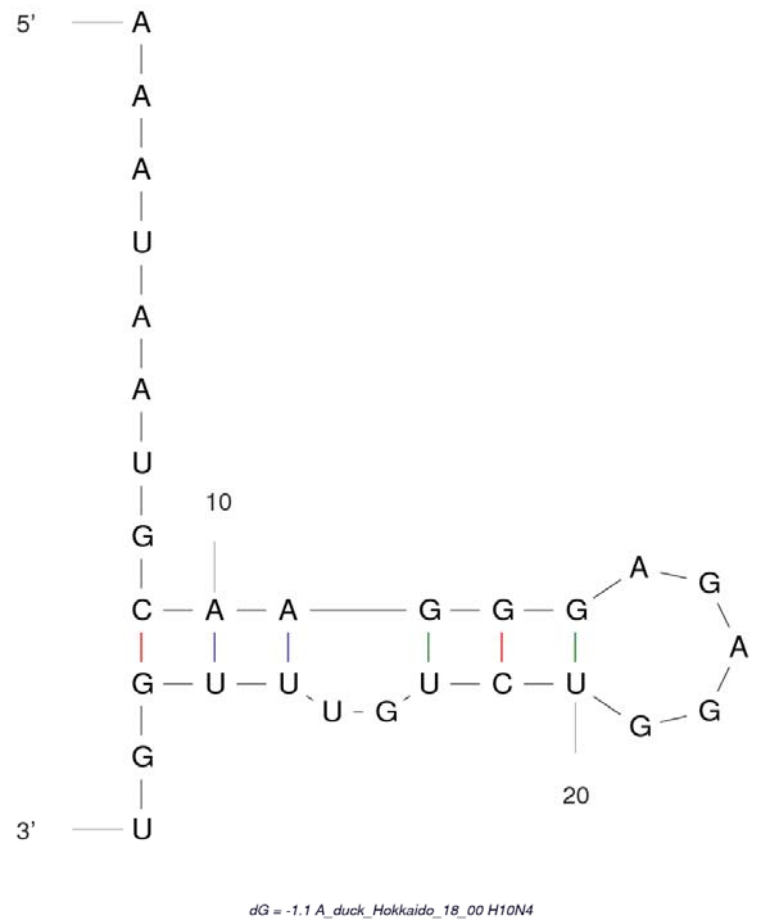
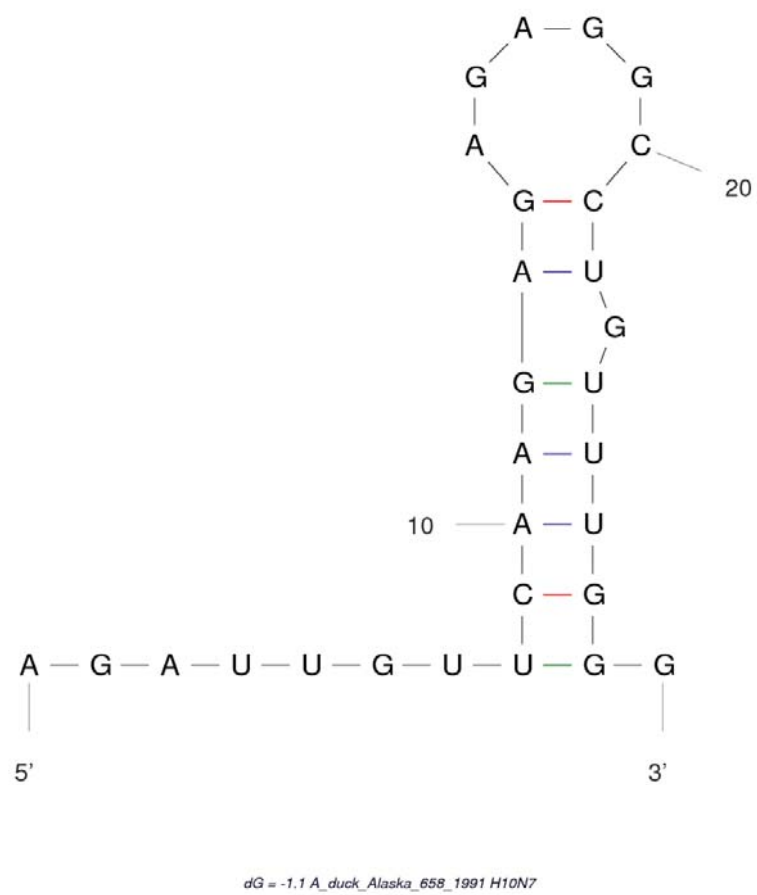
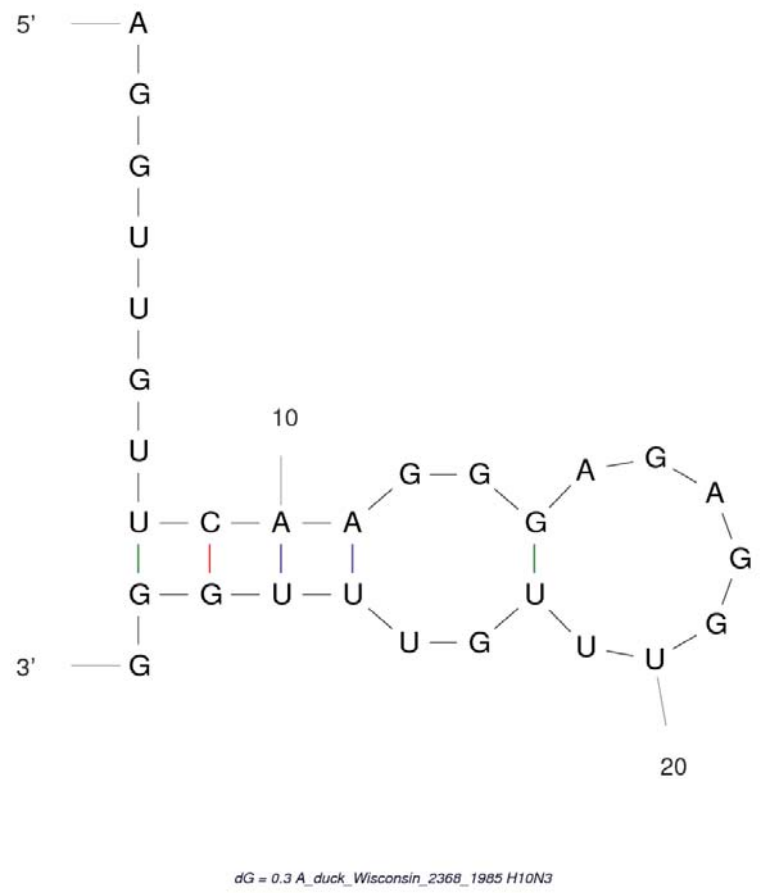
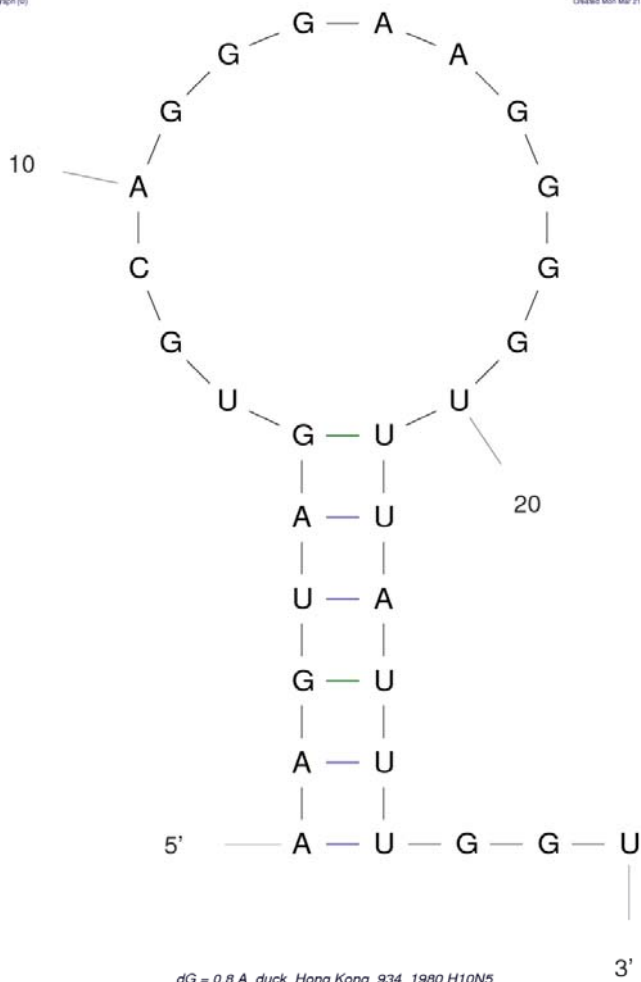
dG = -4.8 A_mallard duck_ALB_302_1977 H10N7

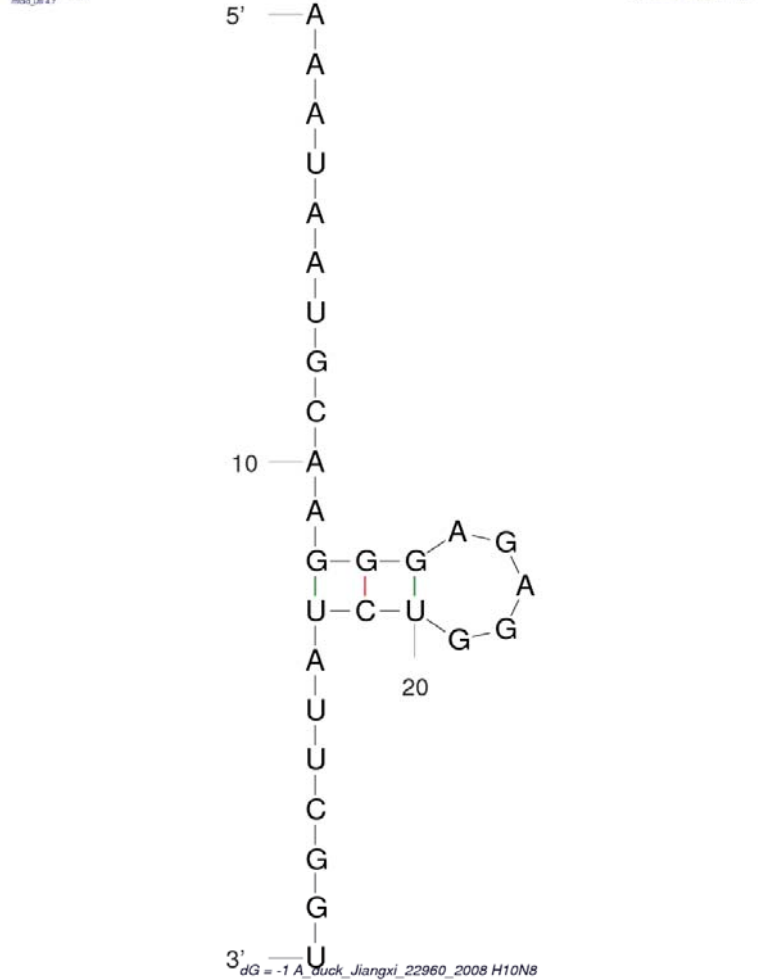
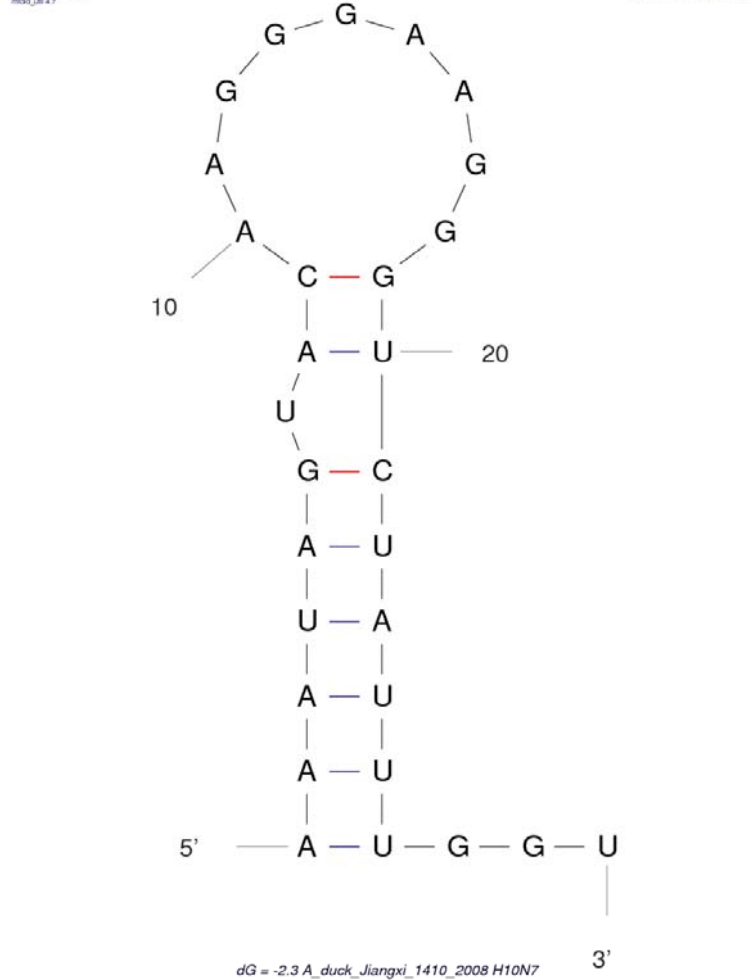
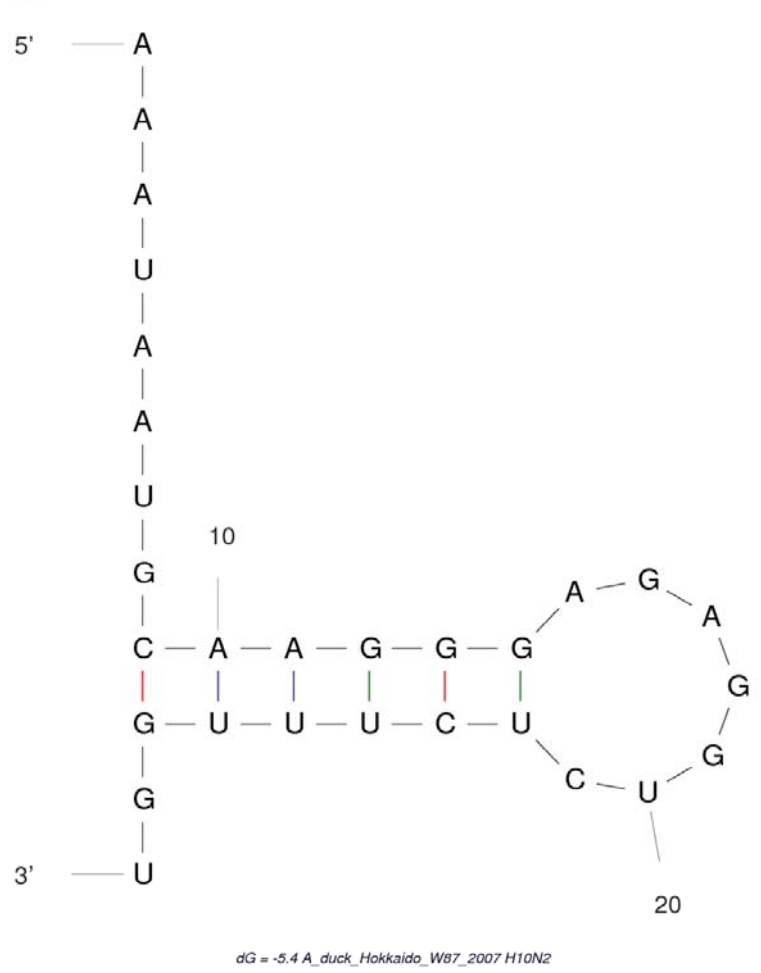
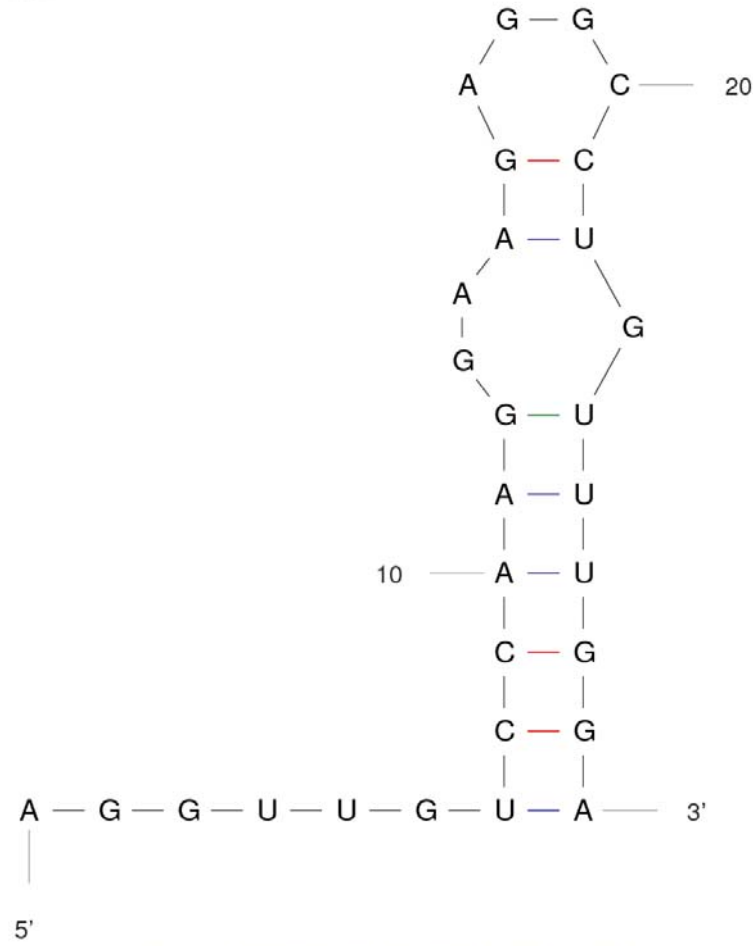


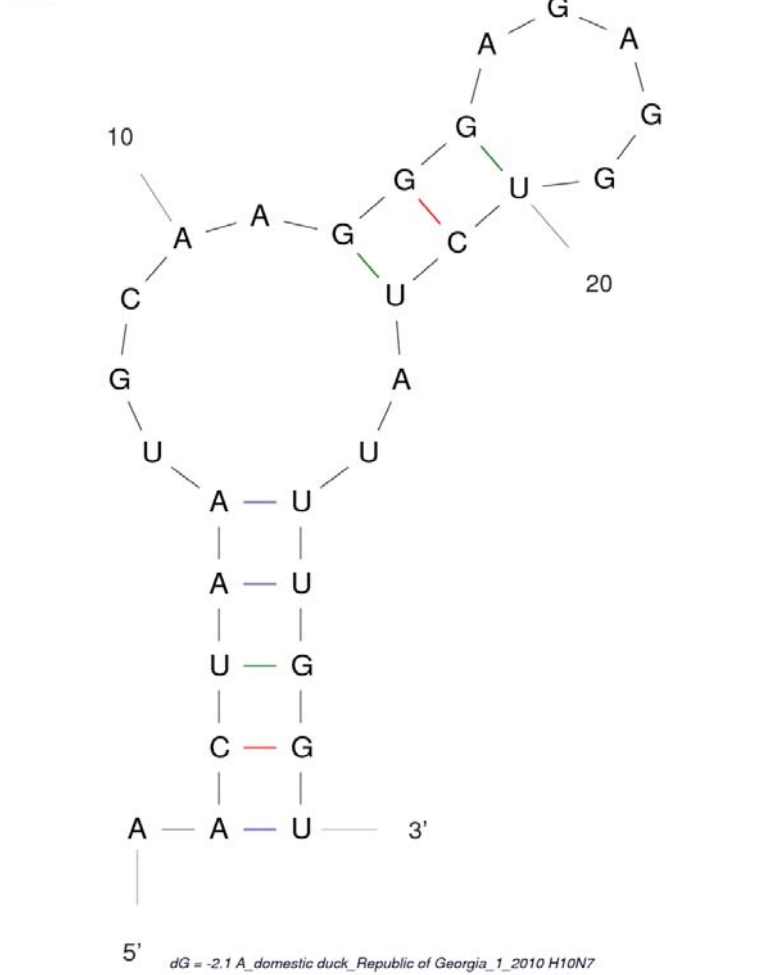
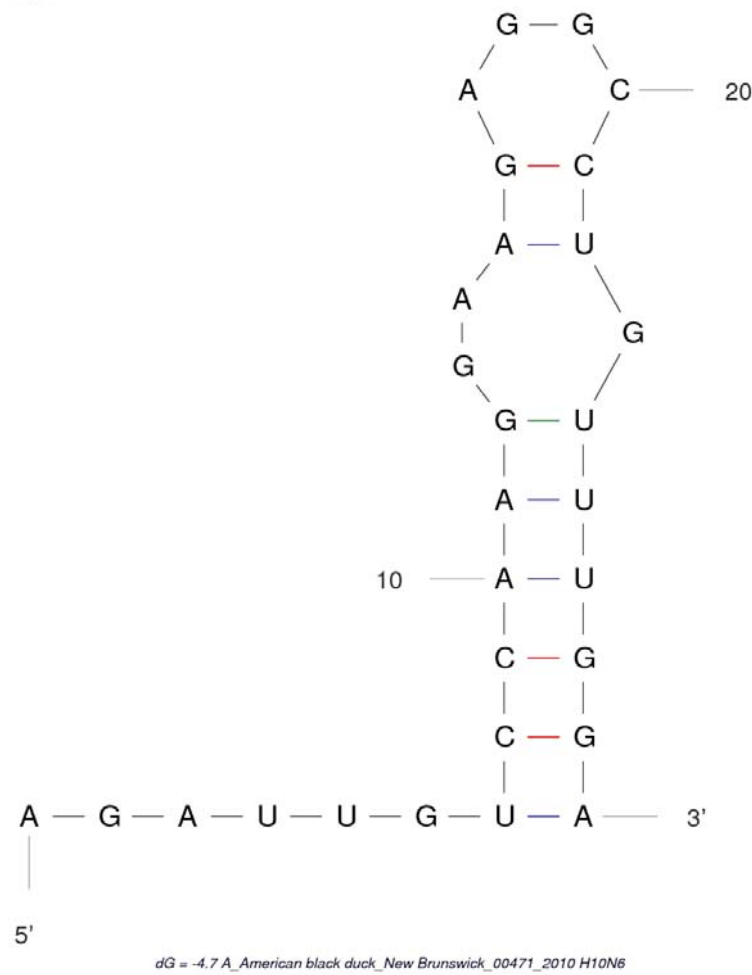
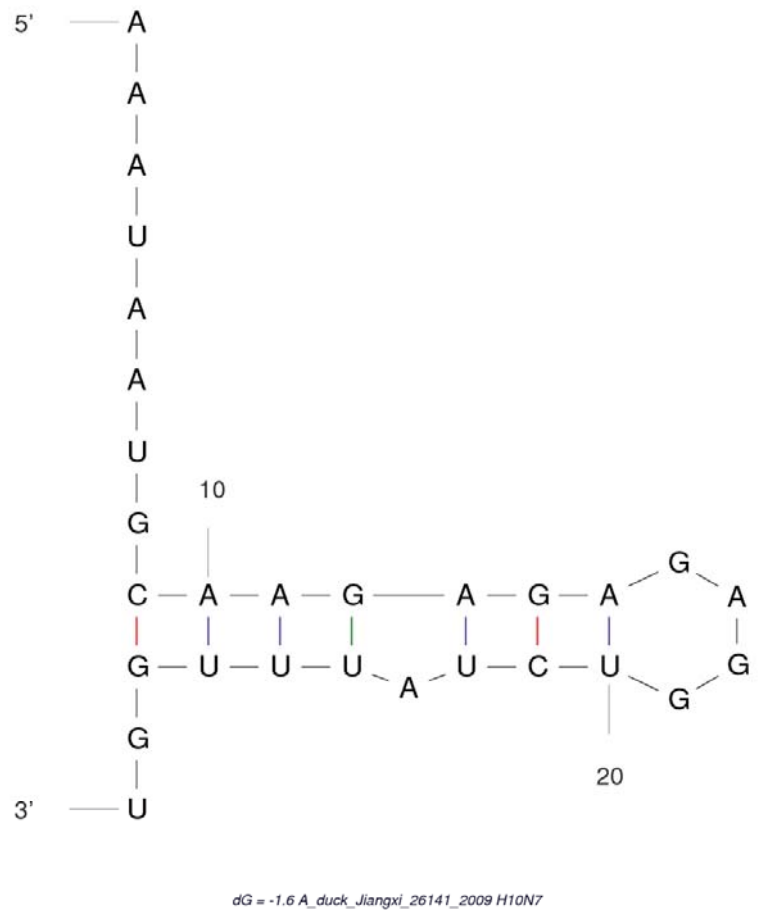
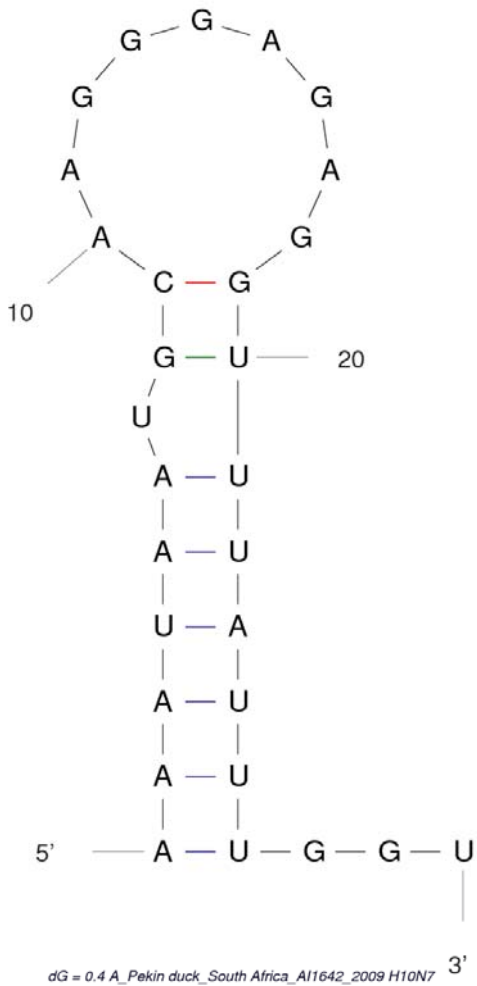
dG = -1.7 A_duck_Hong Kong_562_1979 H10N9

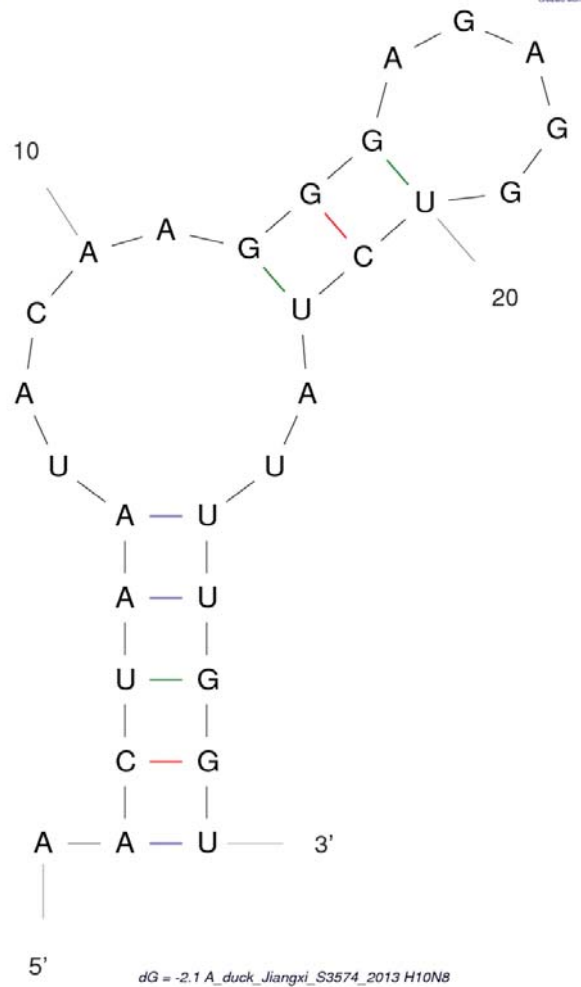
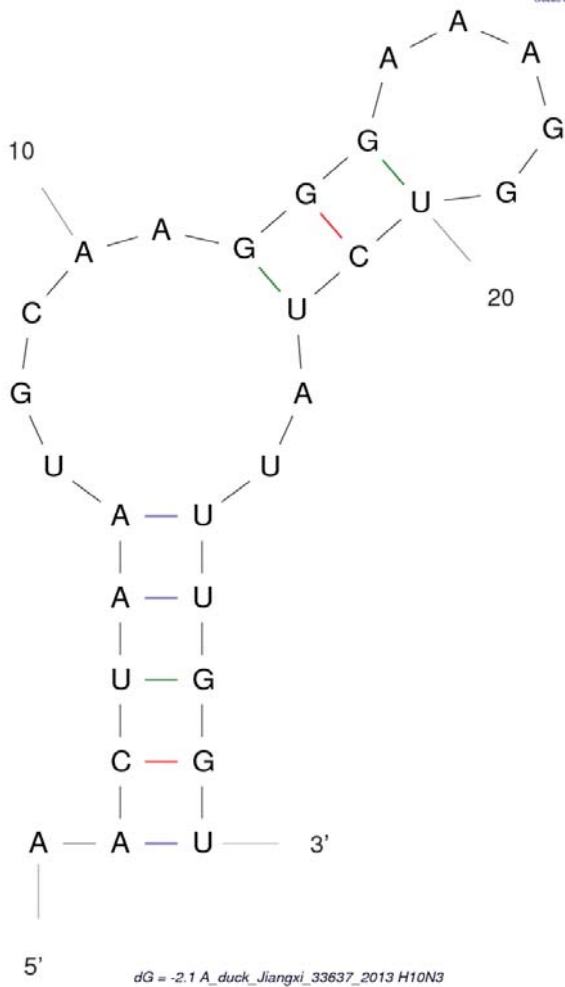
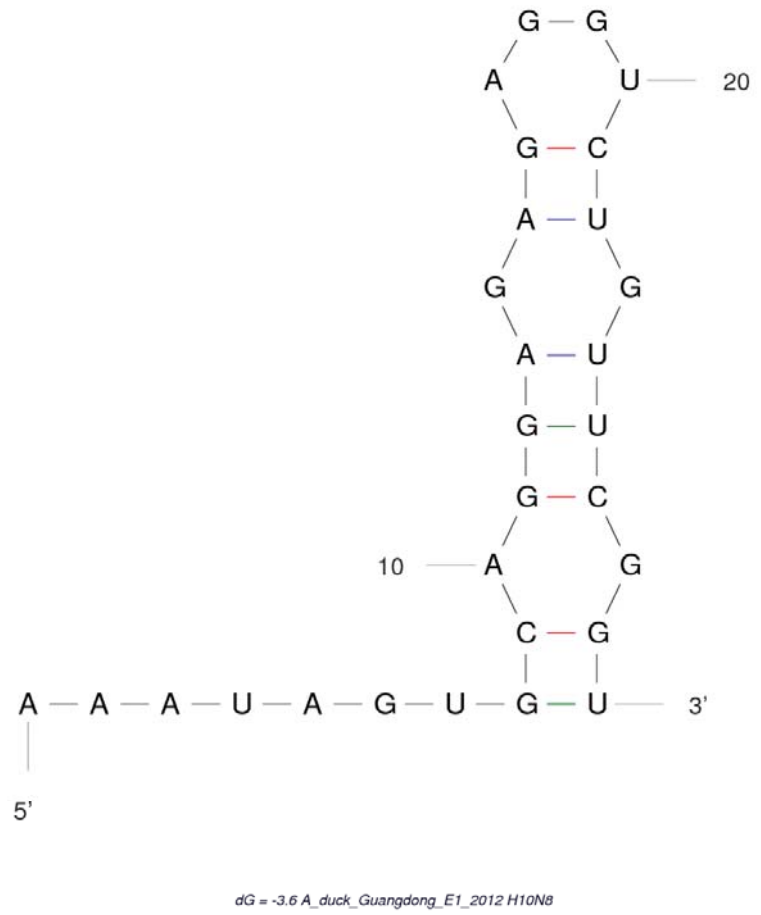
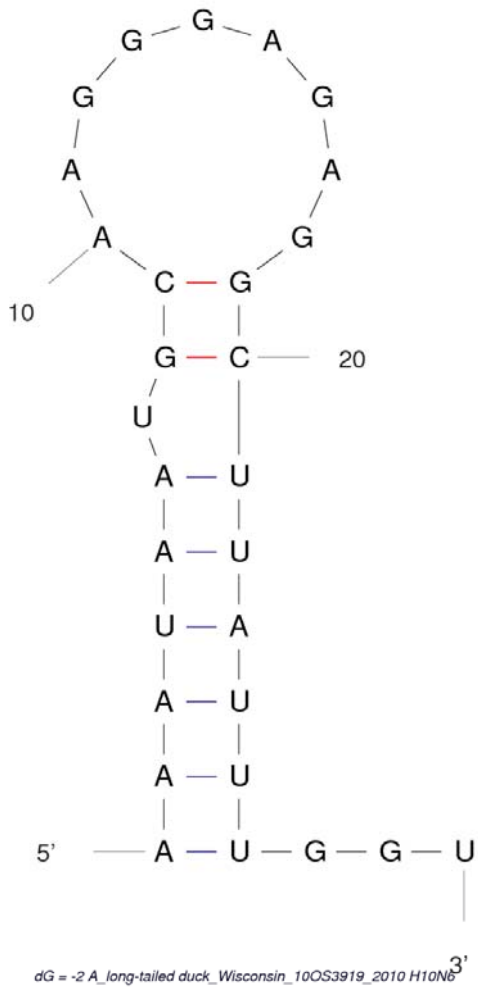


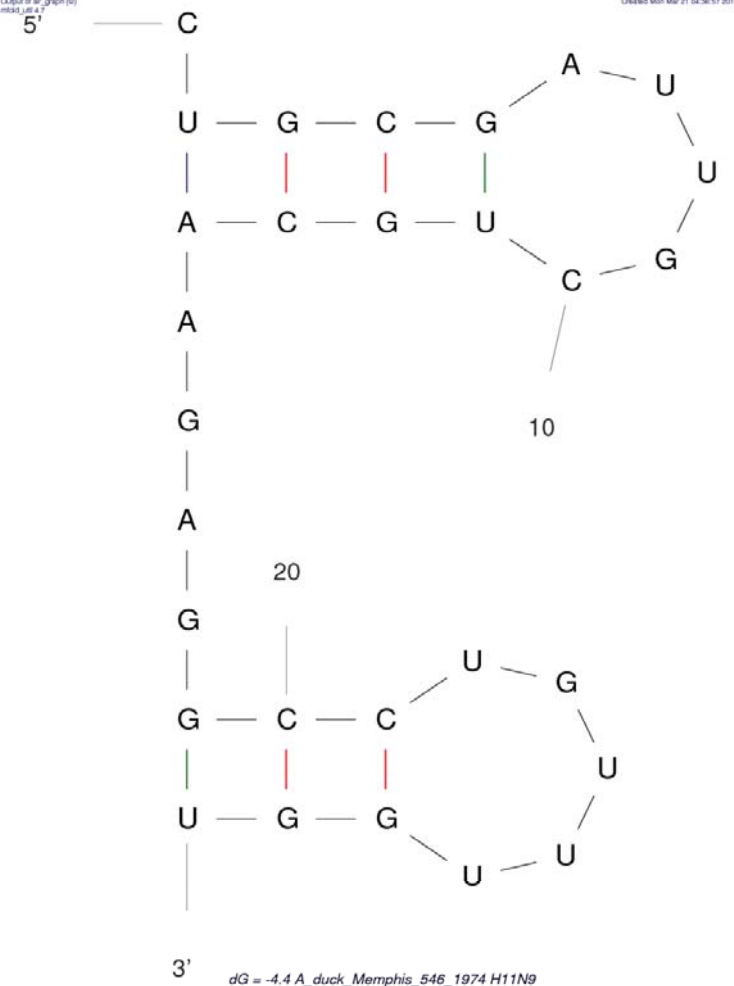
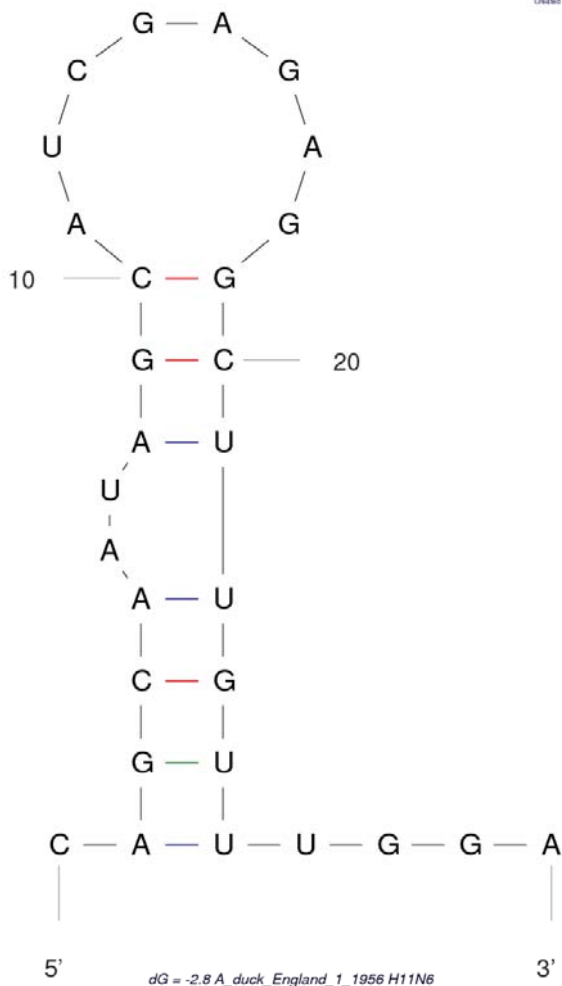
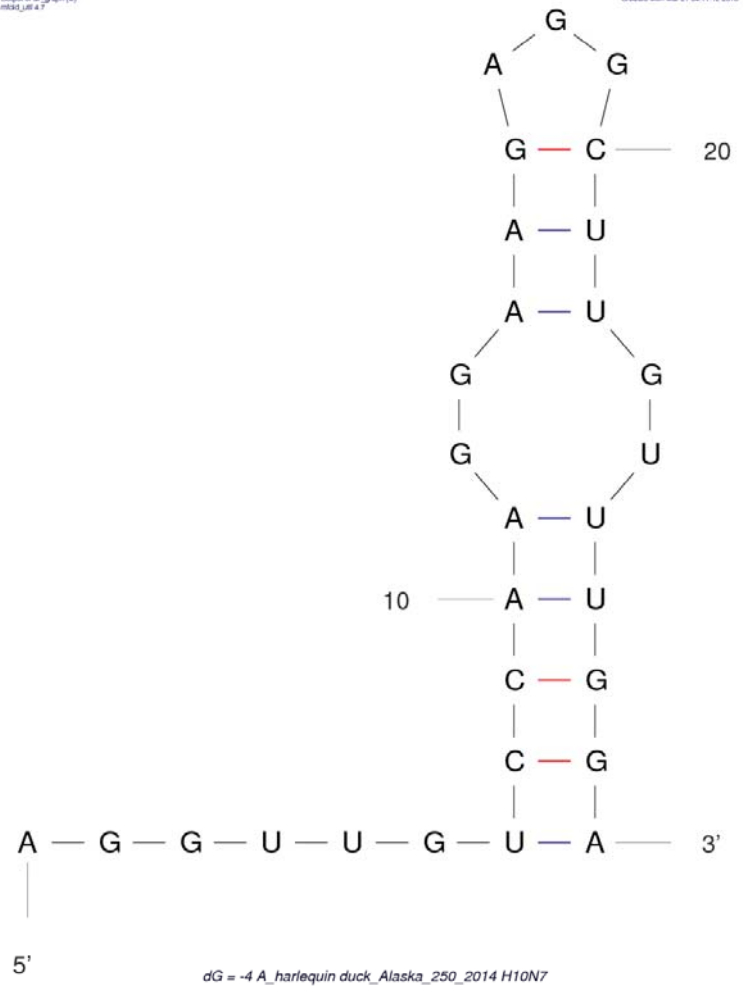
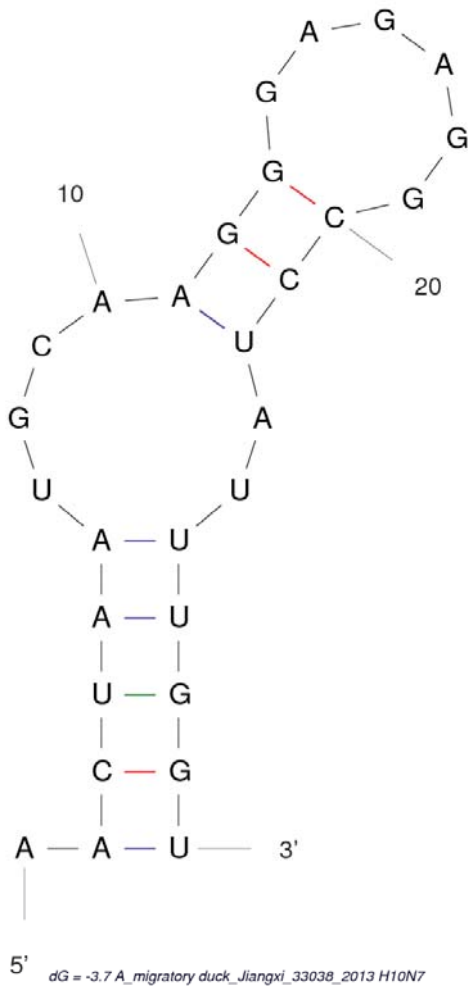
dG = -4.3 A_mallard duck_Minnesota_19_1979 H10N7

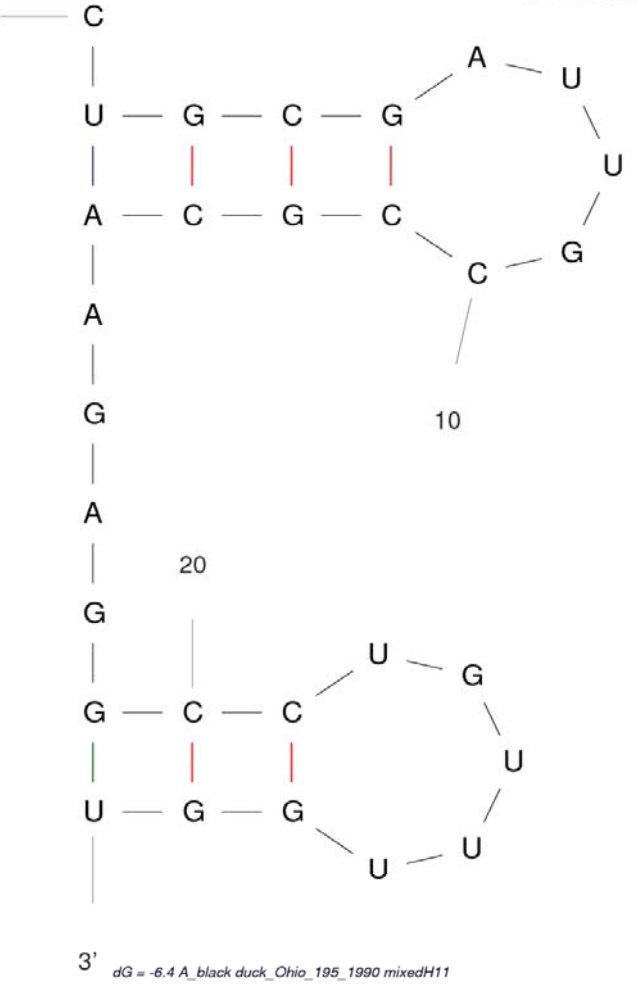
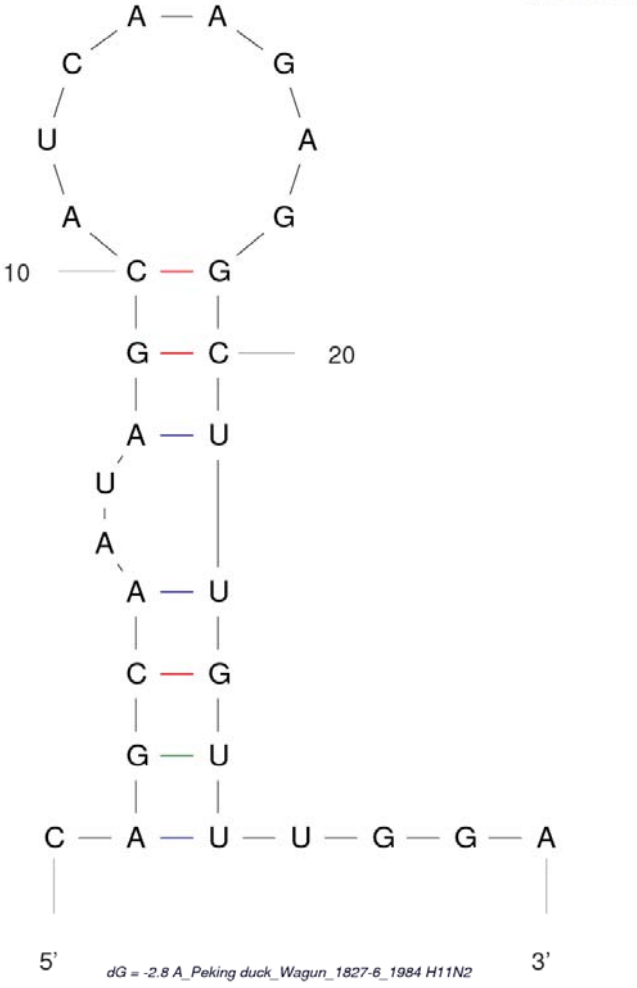
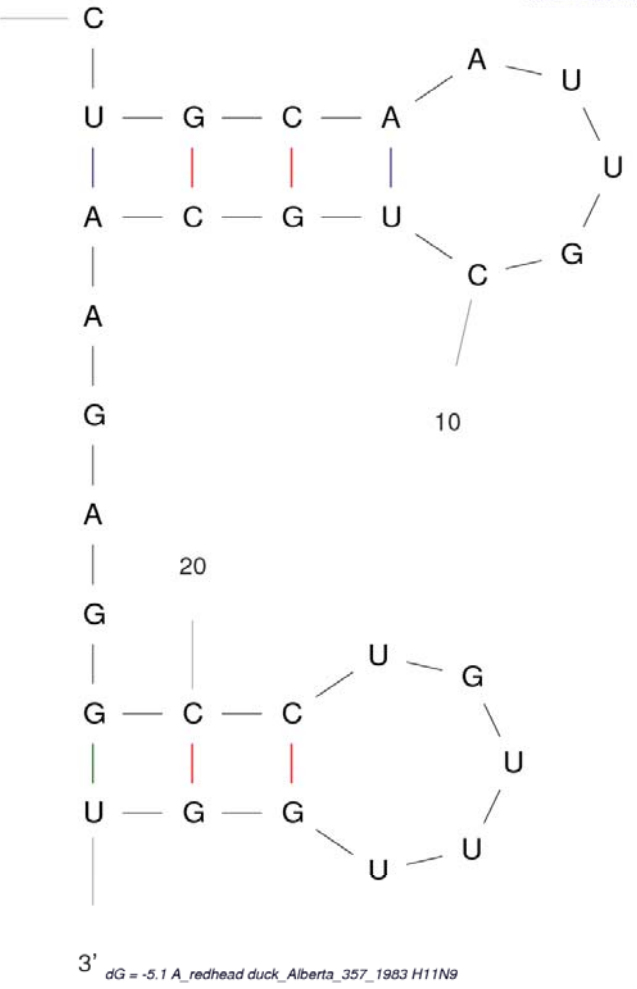
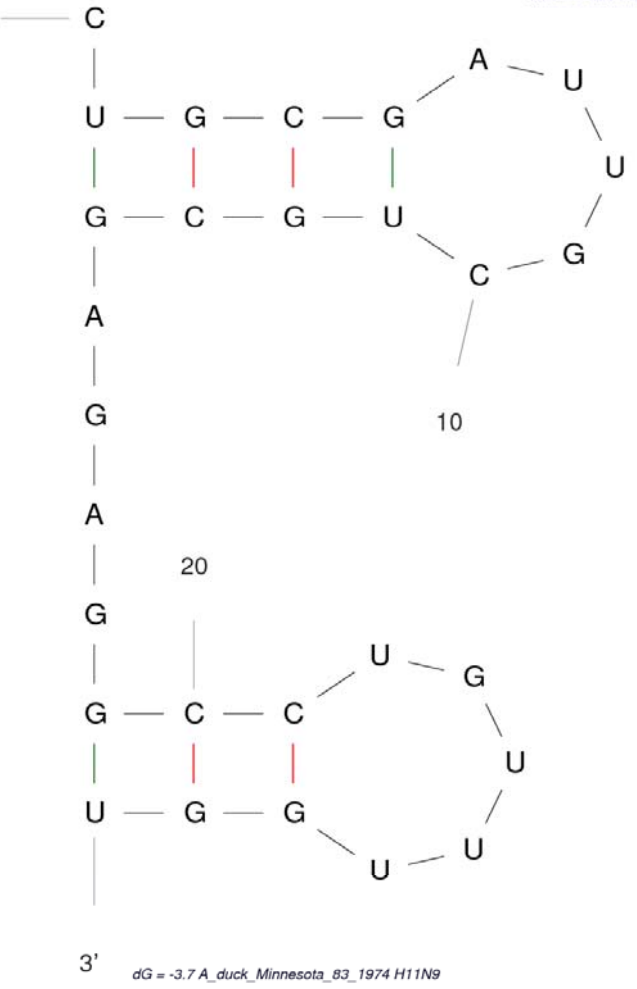


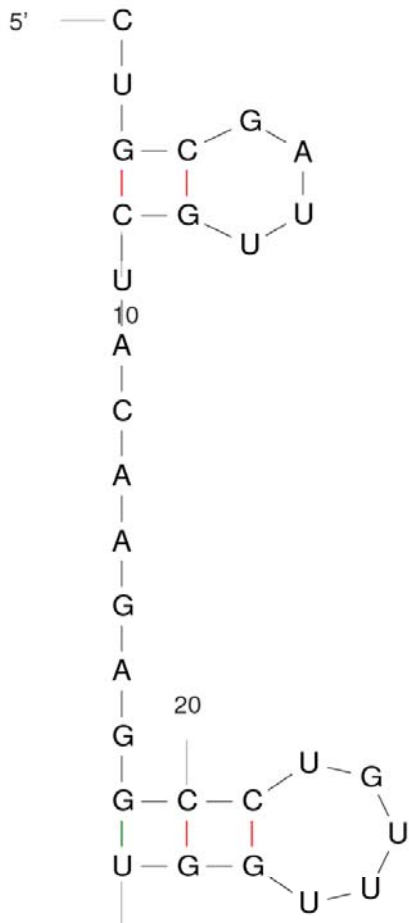




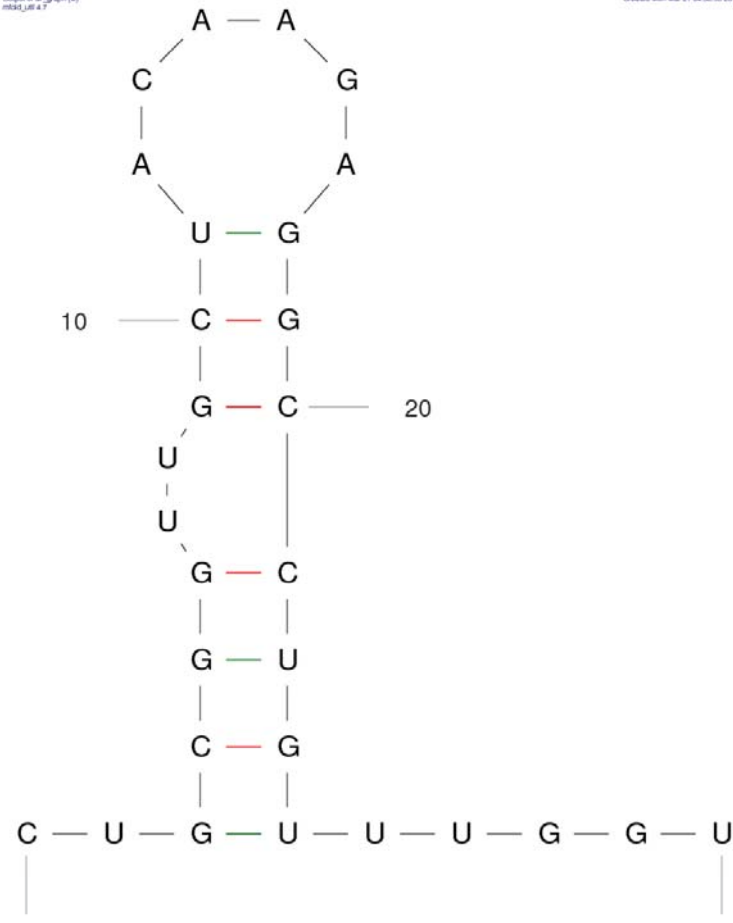




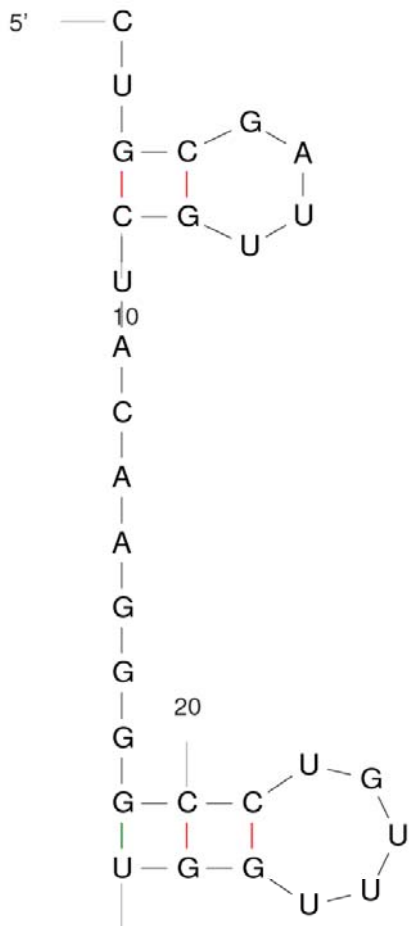




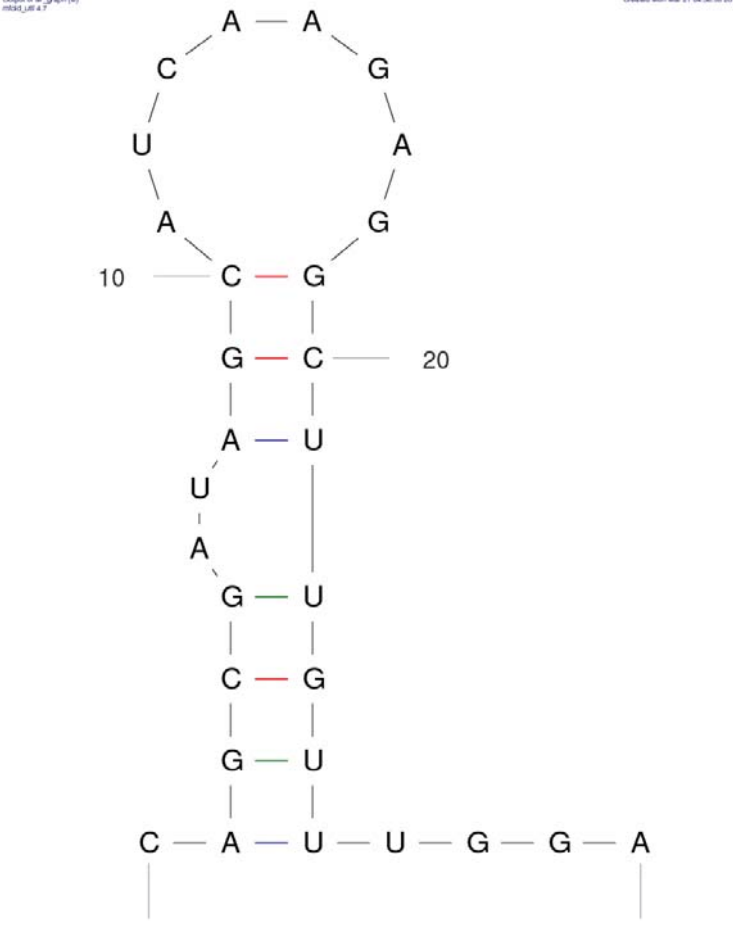
dG = -2.2 A_duck_Washington_663_1997 H11N9



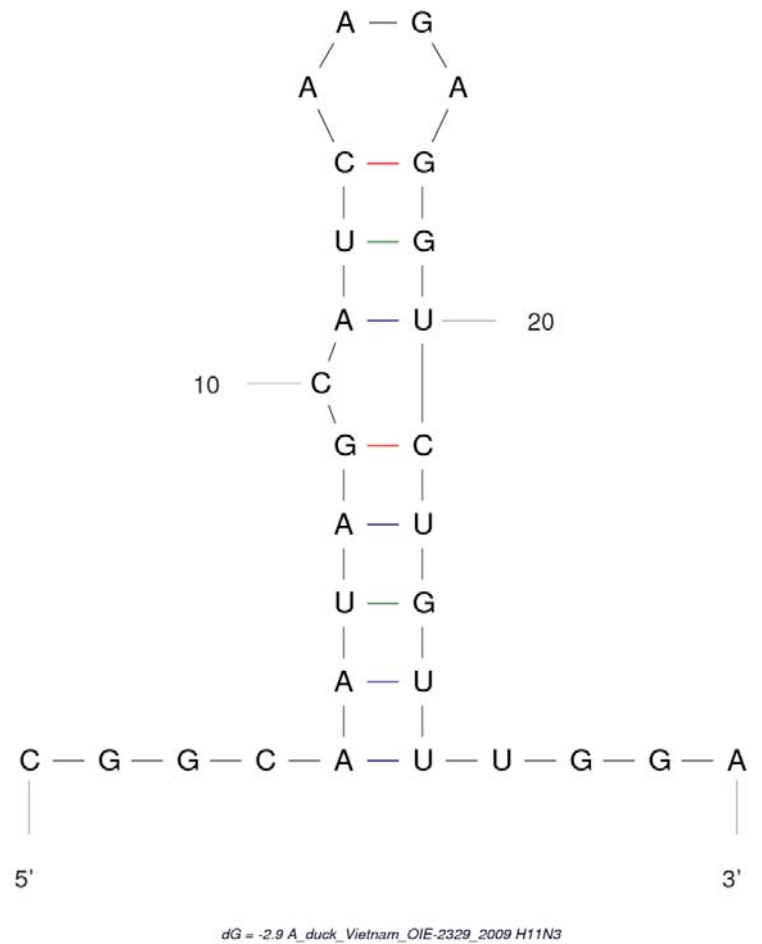
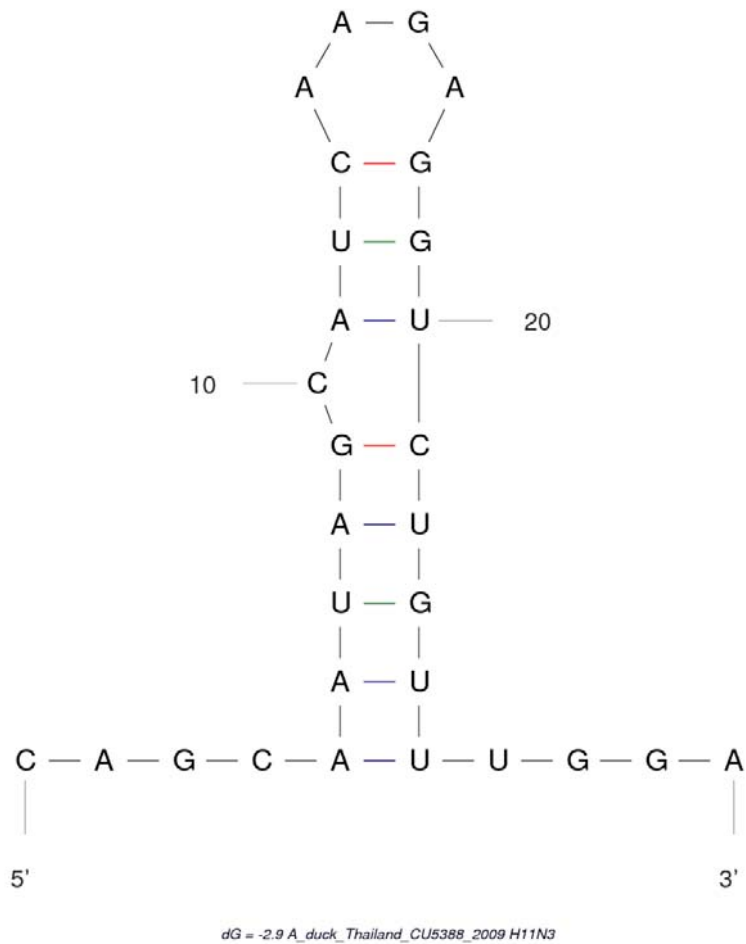
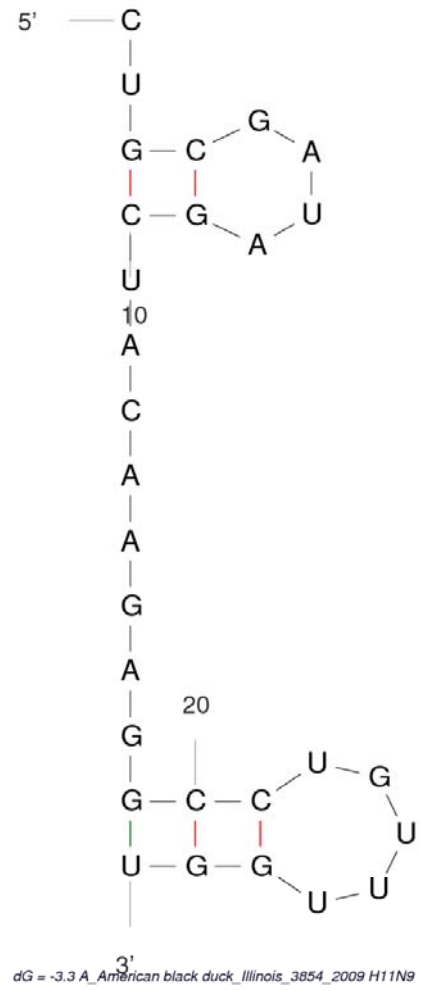
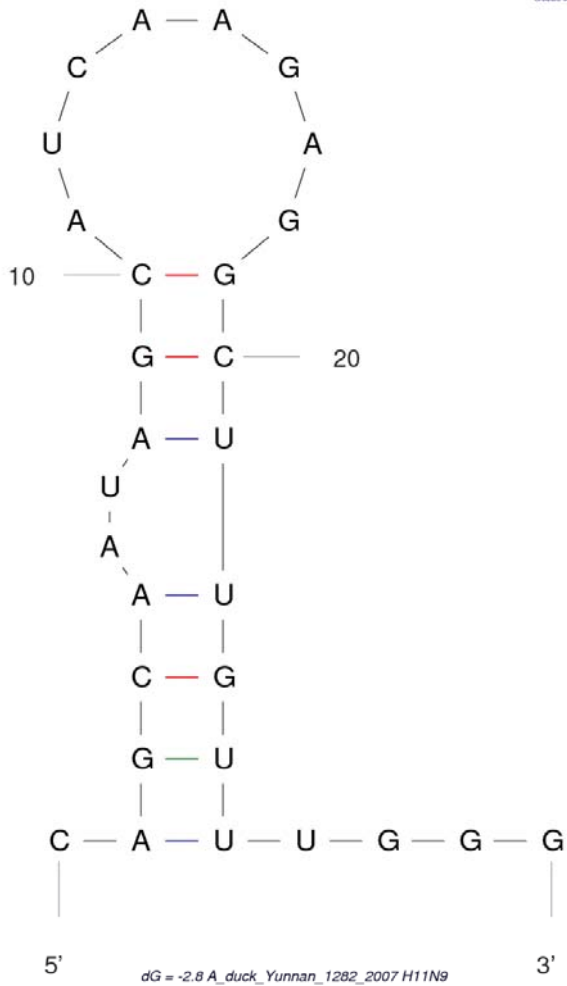
dG = -3.8 A_black_duck_Ohio_161_1999 H11N9

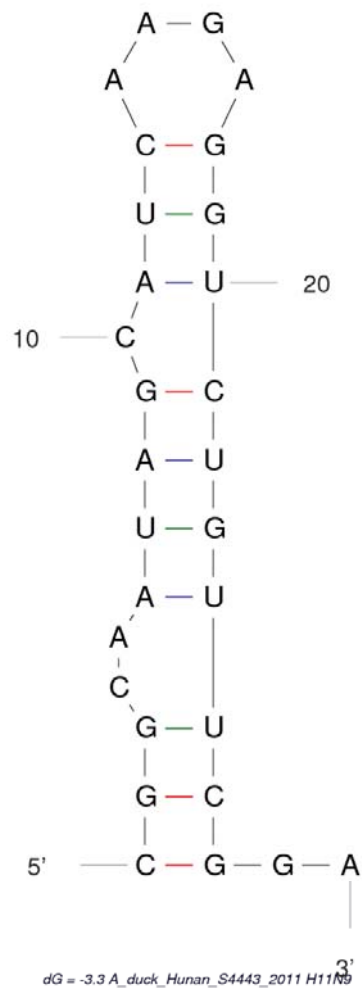
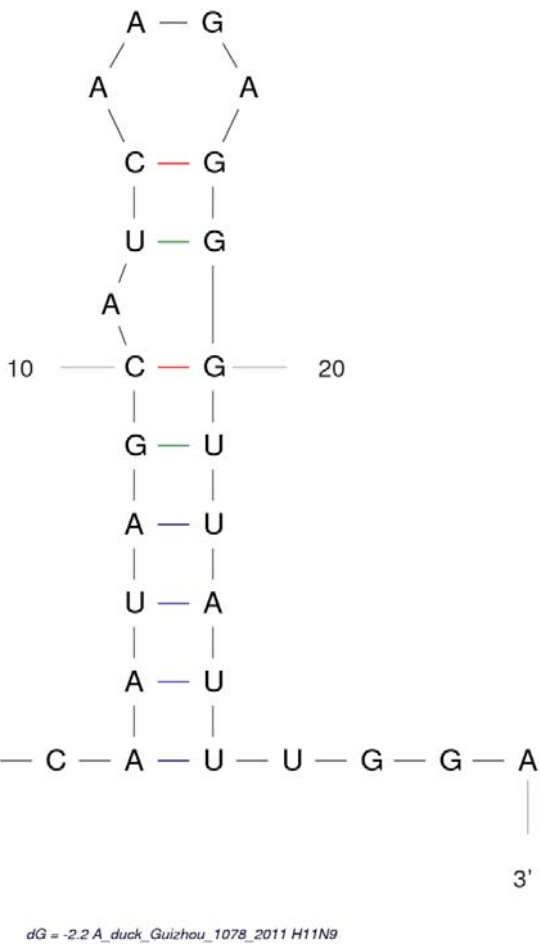
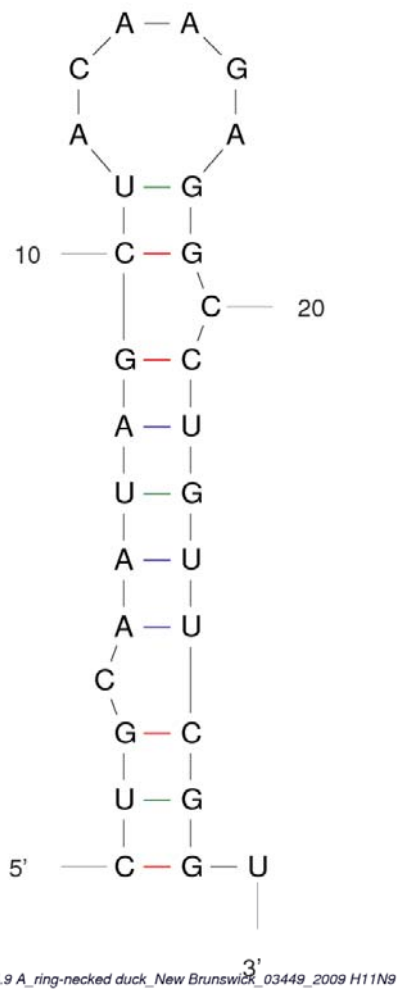
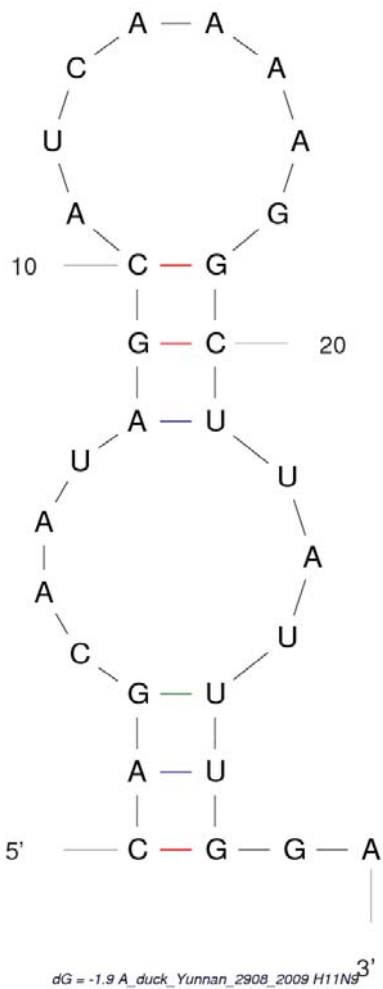


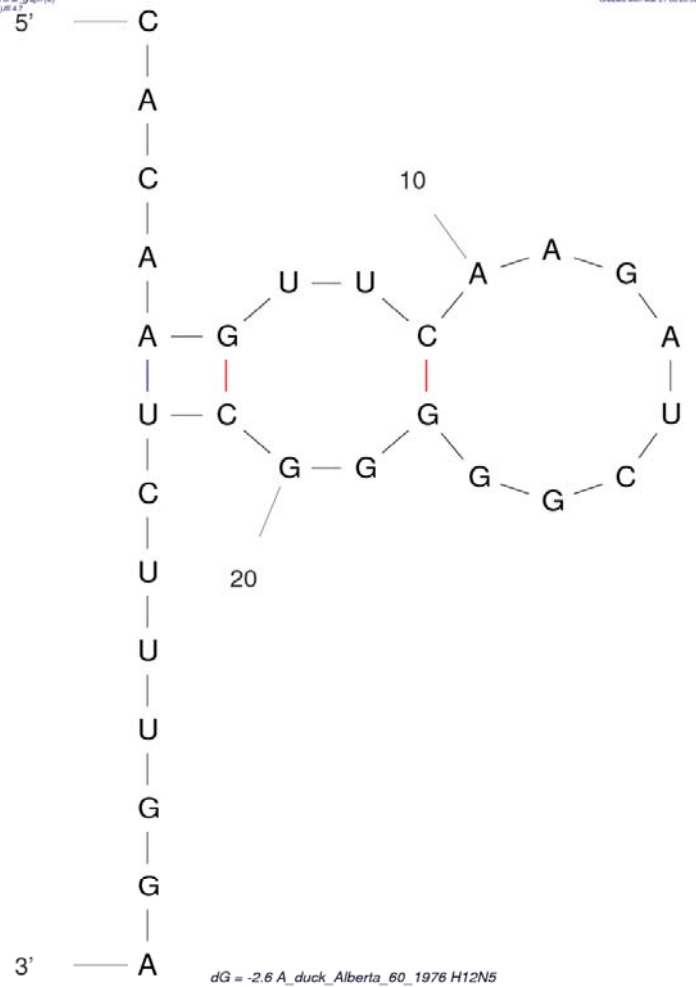
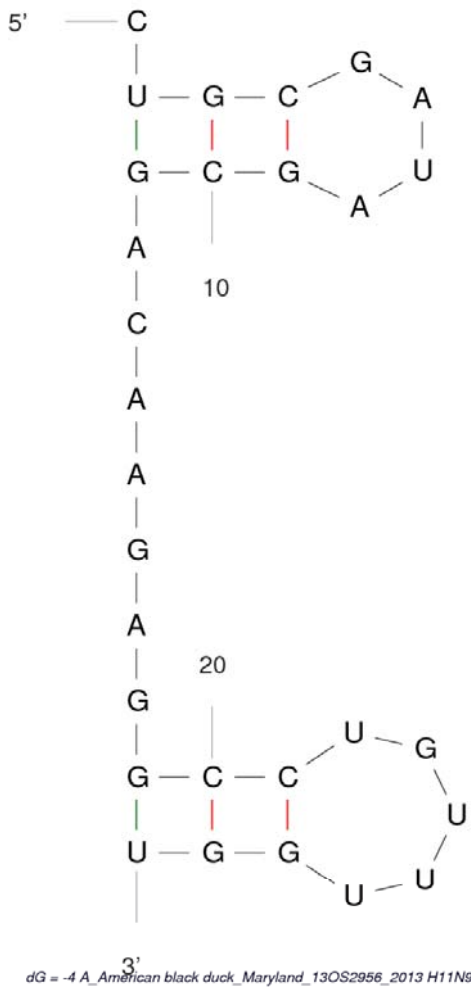
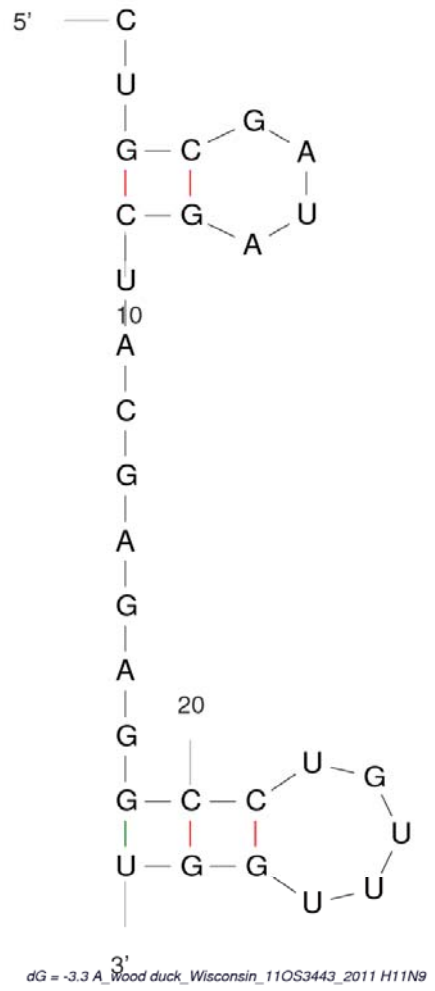
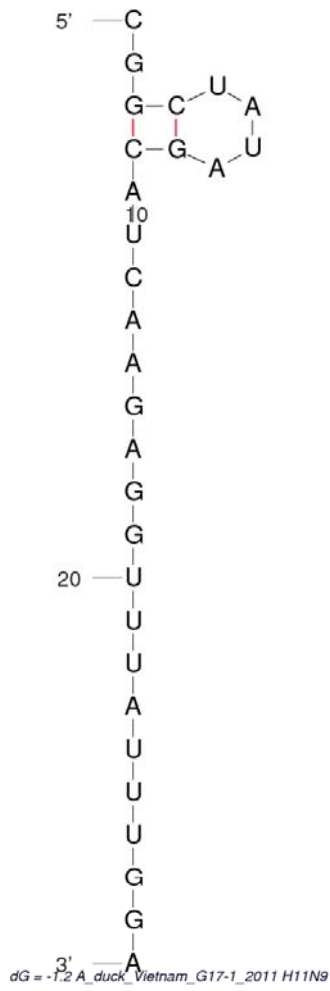
dG = -2.2 R_call_duck_Maryland_1C48_2004 H11N3

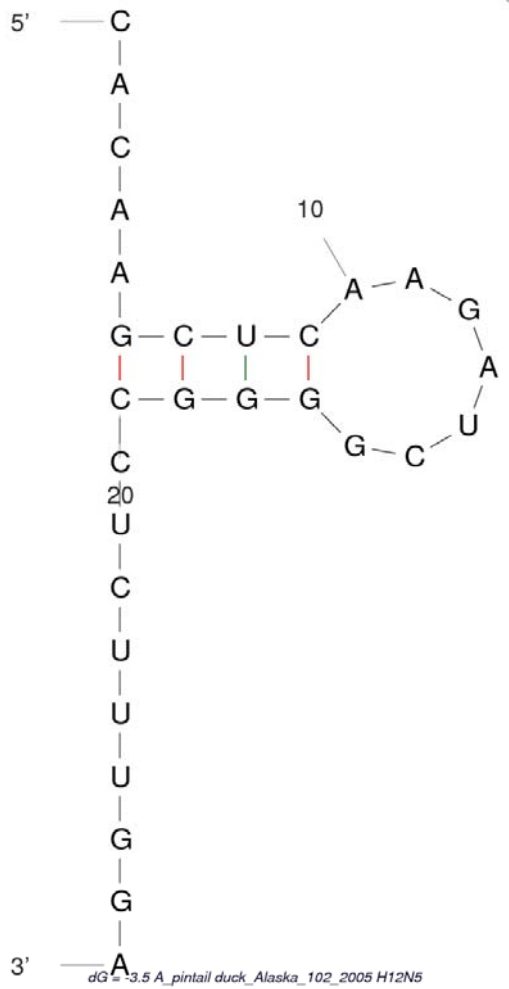
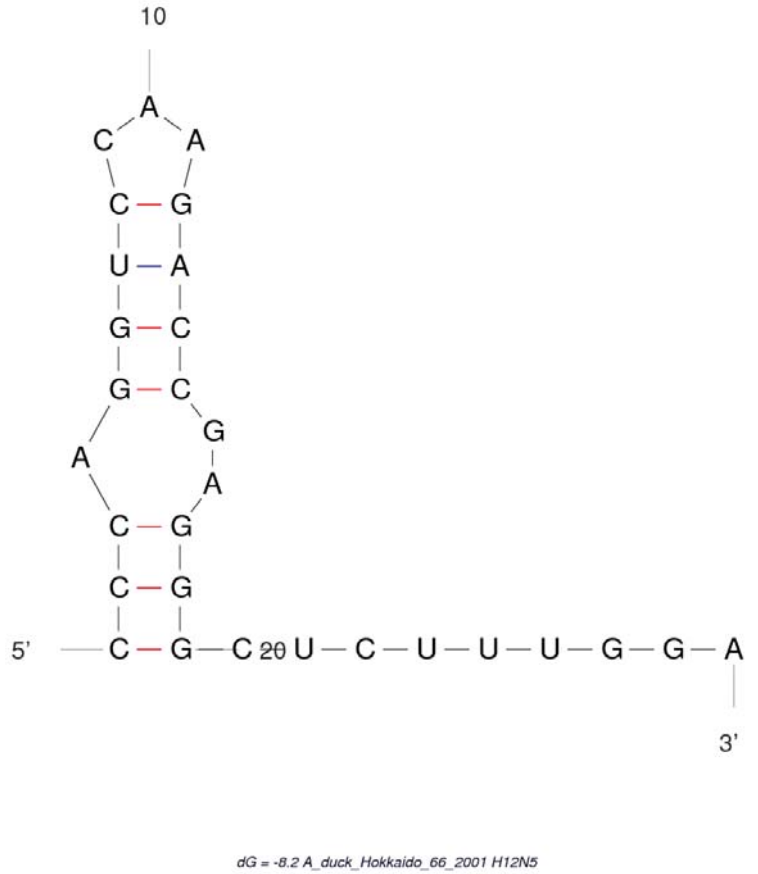
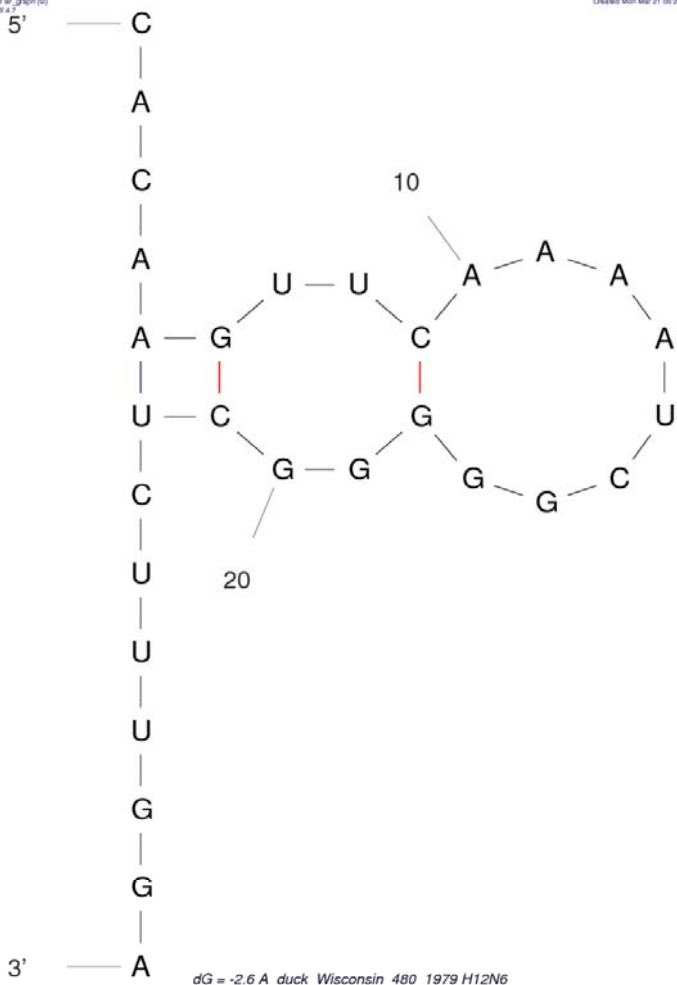


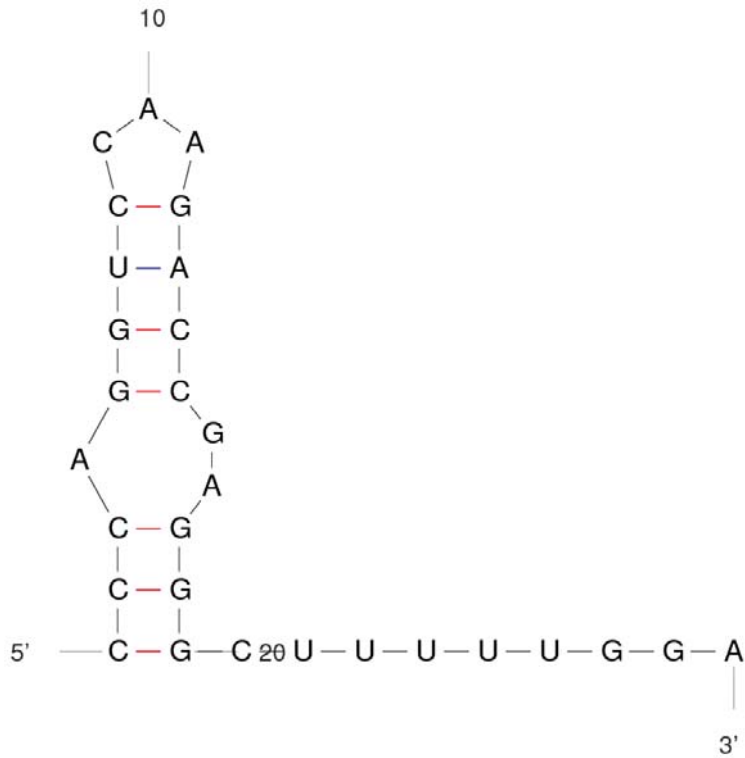
dG = -2.1 A_spotbill_duck_Xuyi_6_2005 H11N2



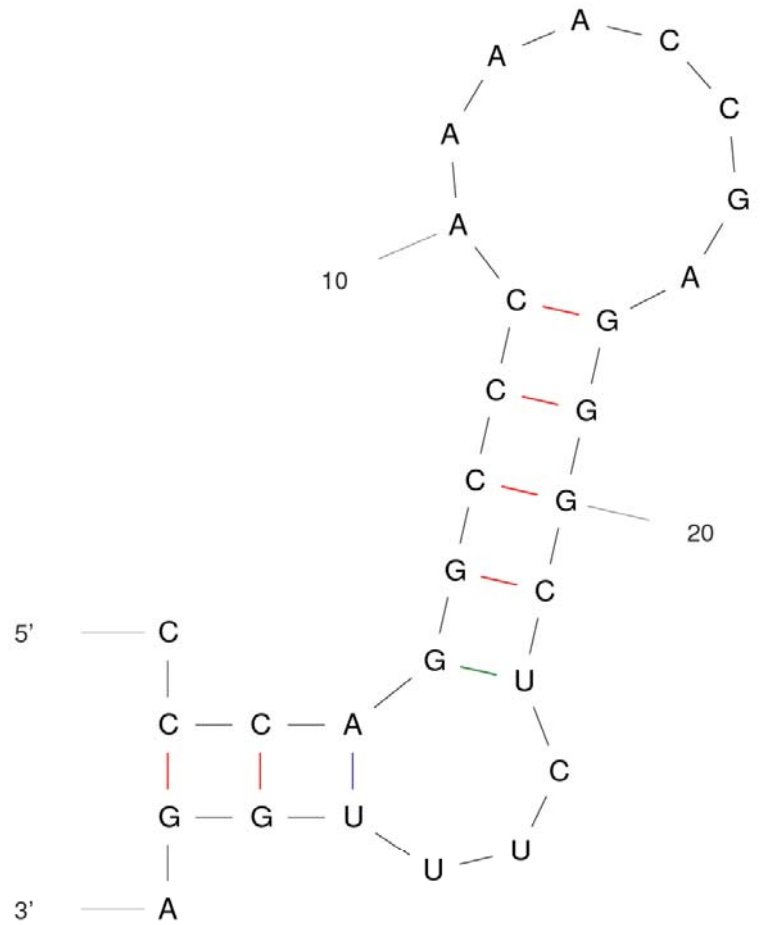




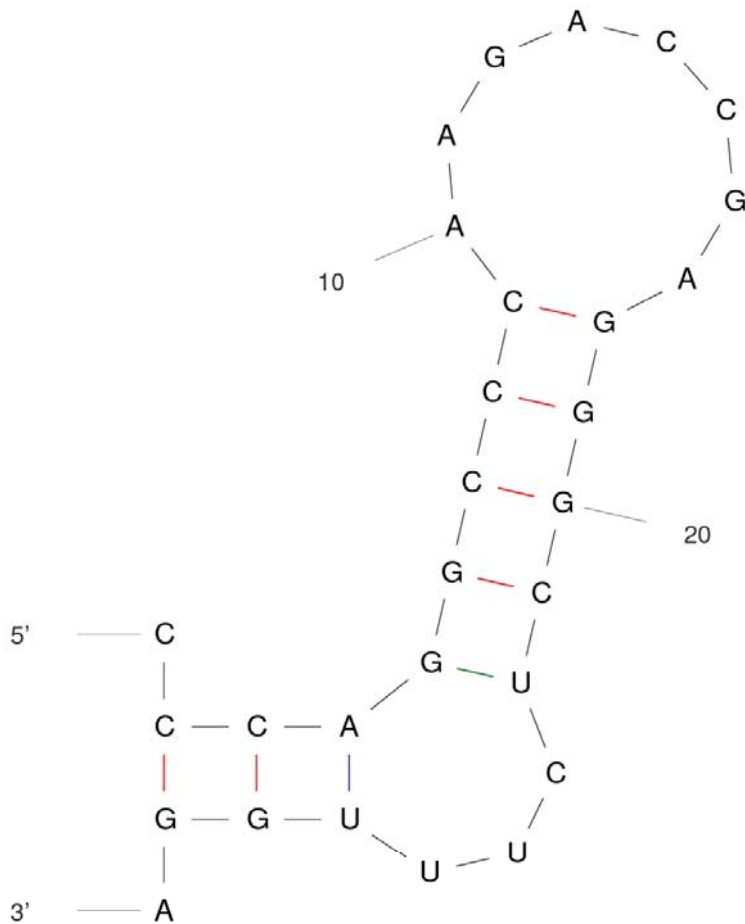




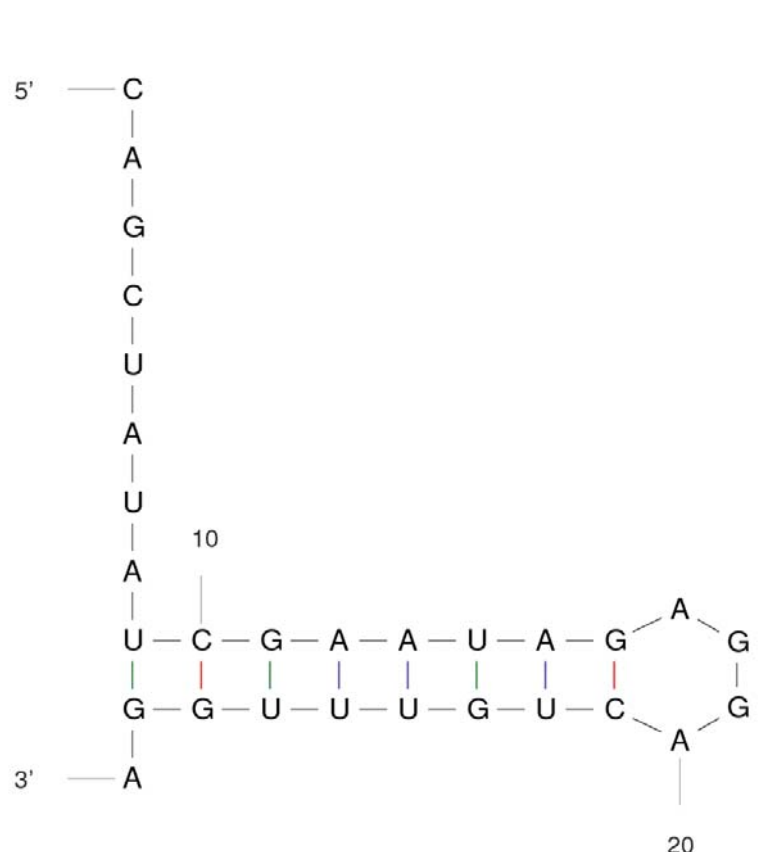
dG = -8.2 A_duck_Tsukuba_212_2006 H12N5



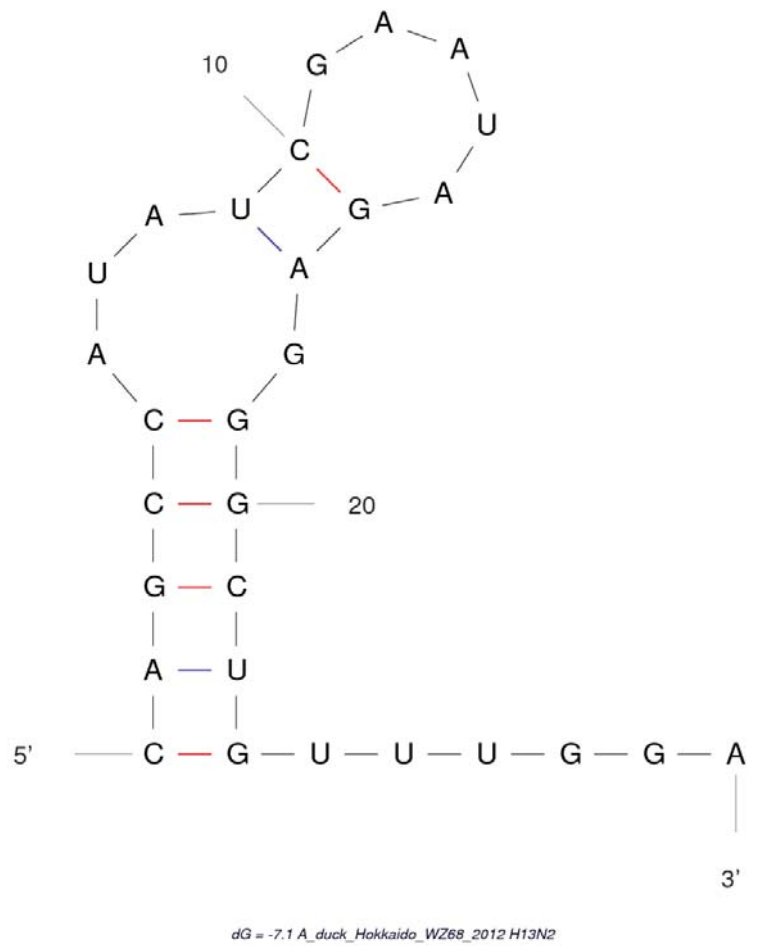
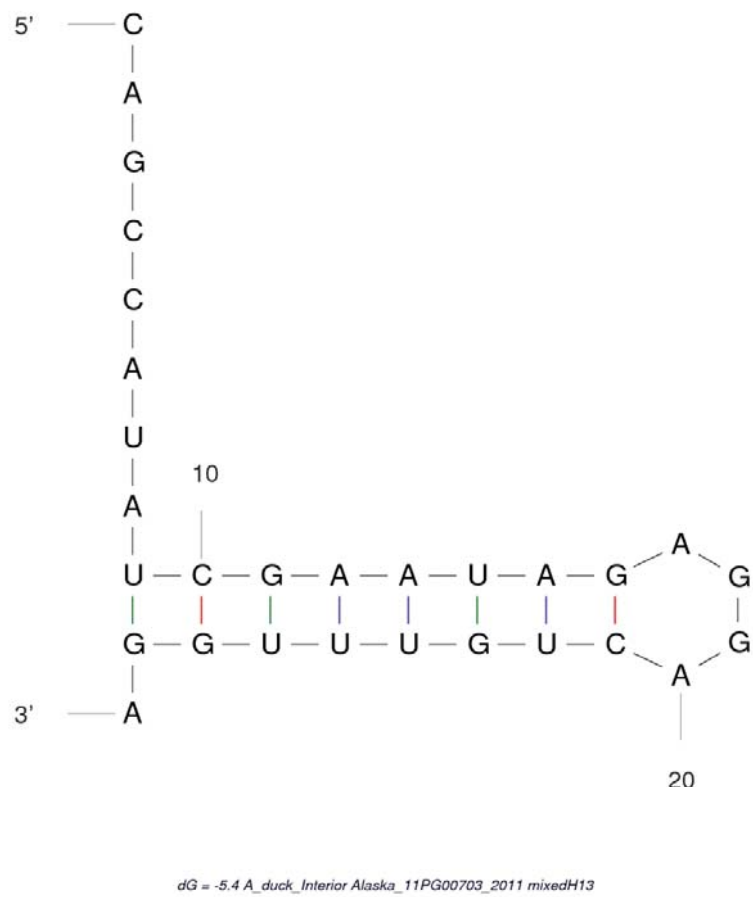
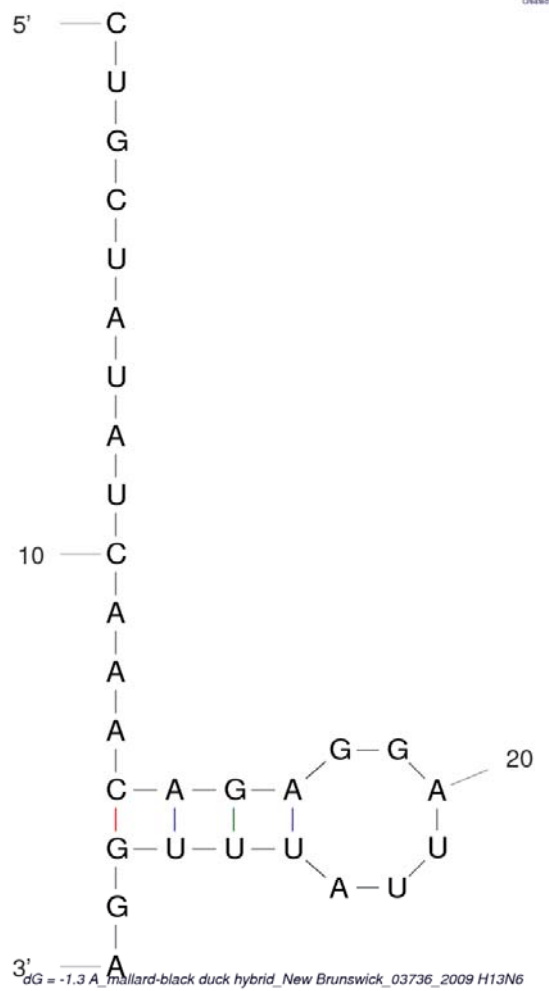
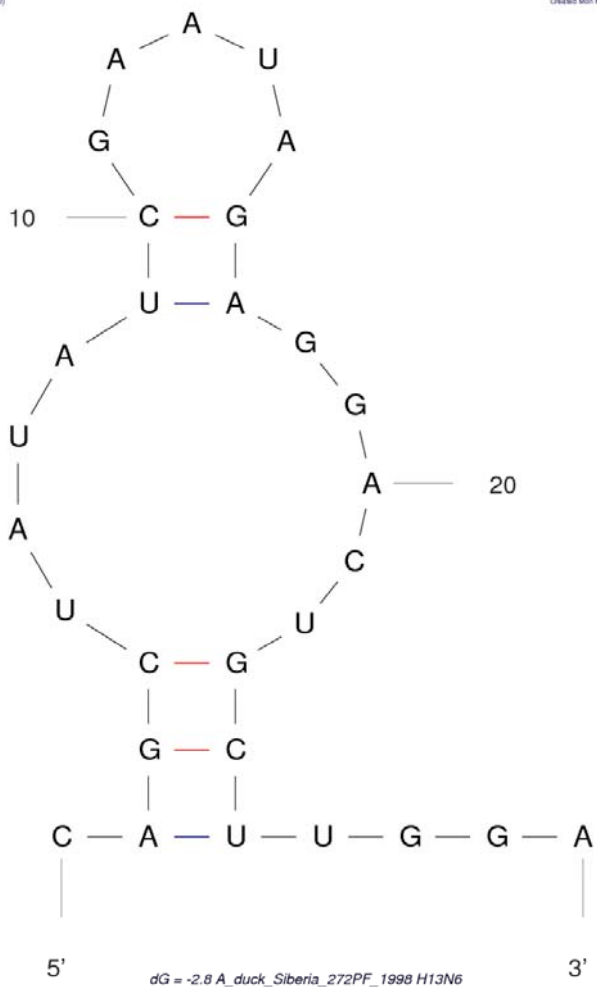
dG = -10.7 A_duck_Vietnam_G18_2009 H12N5

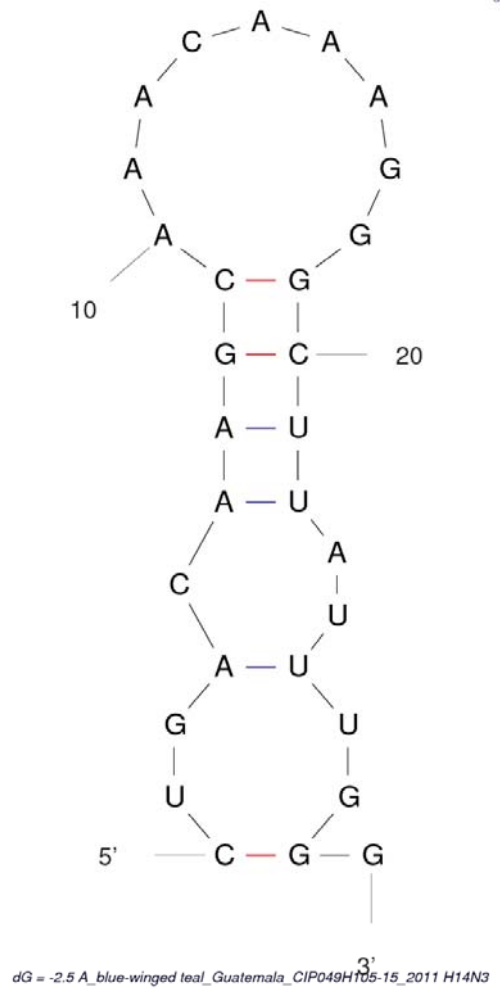
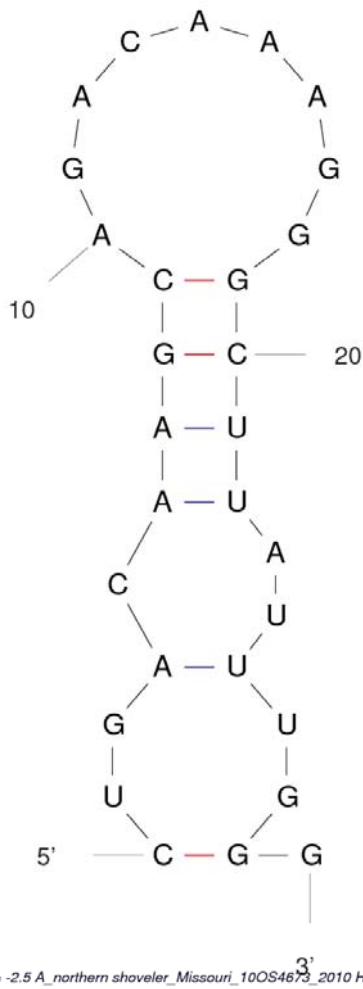
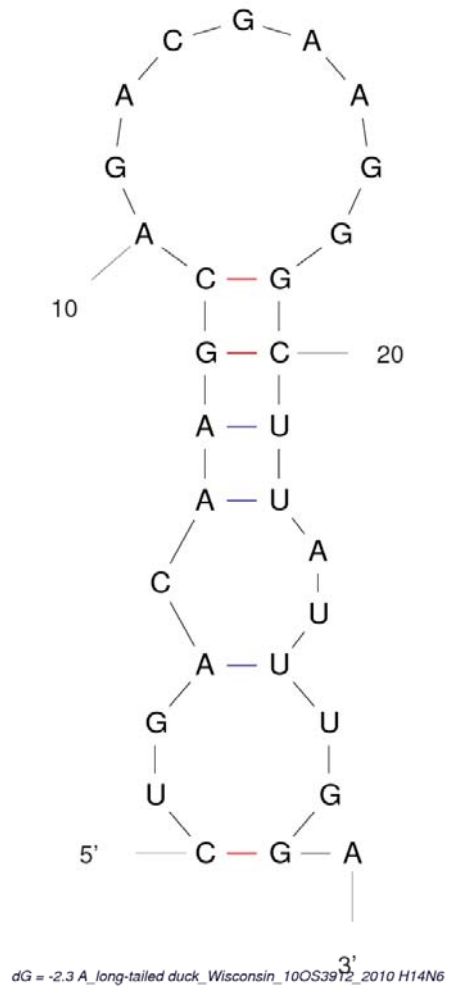
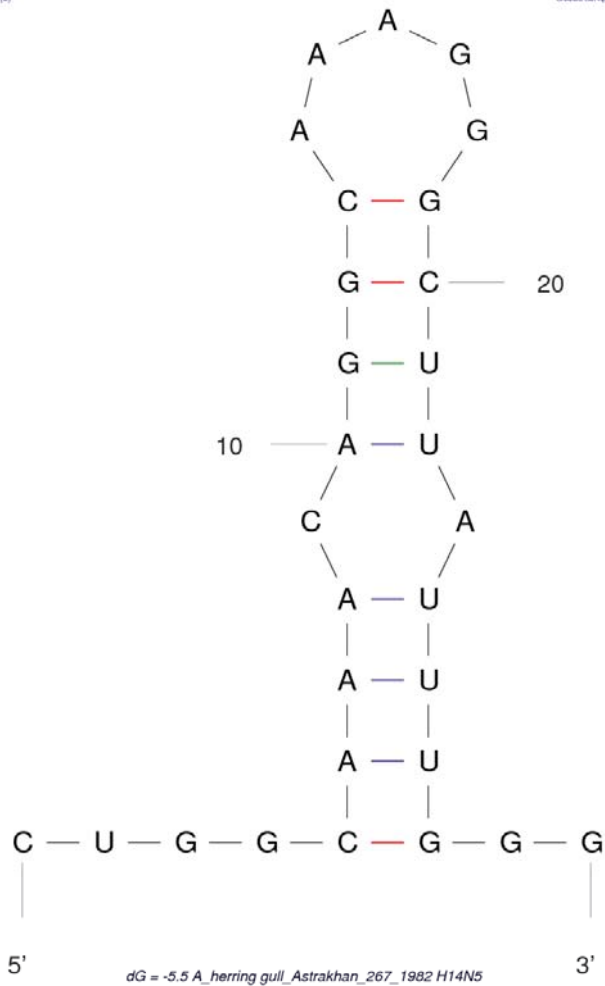


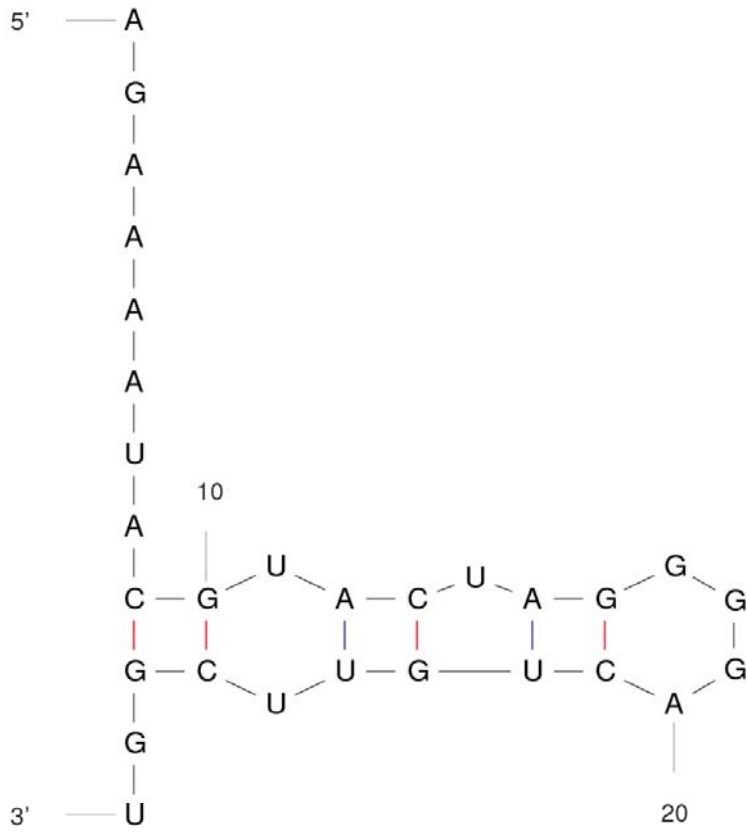
dG = -10.7 A_duck_Hokkaido_W26_2012 H12N1



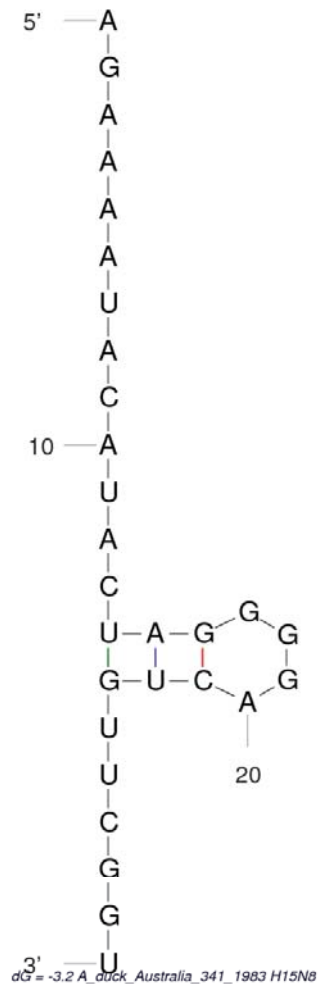
dG = -5.4 A_duck_Siberia_272_1998 H13N6



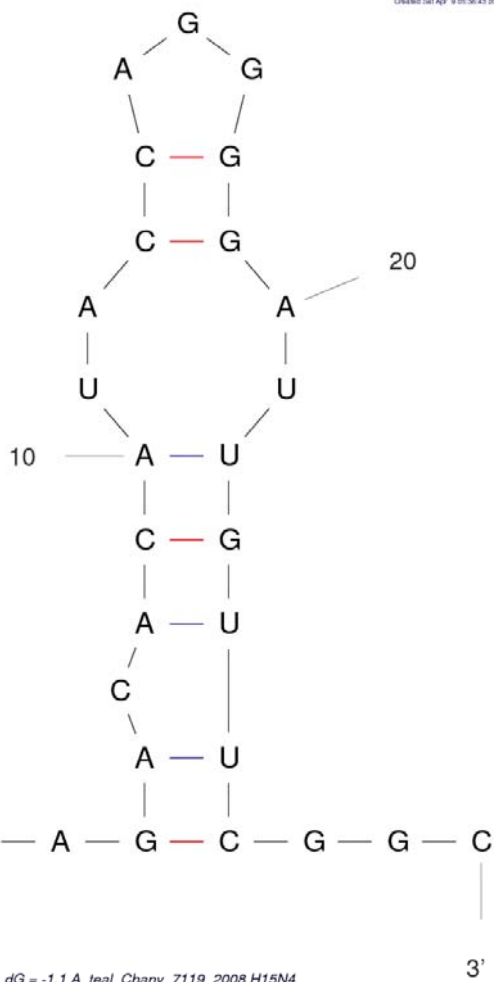




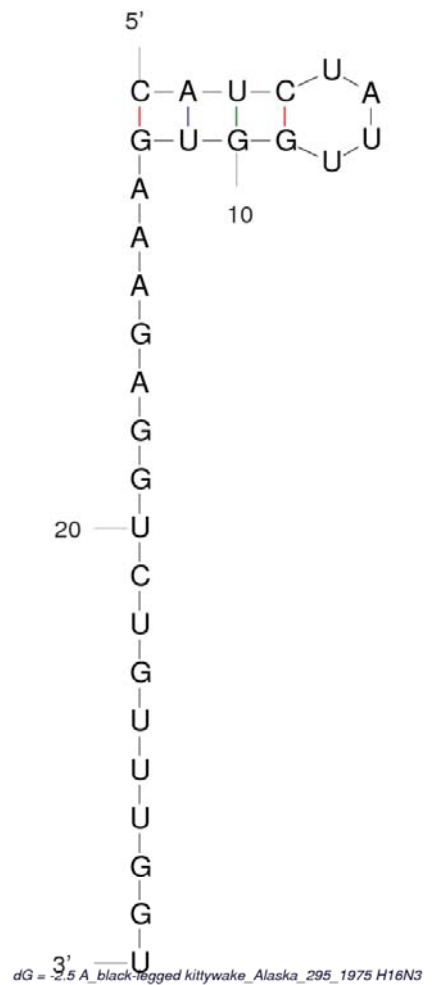
dG = -5.3 A_Australian shelduck_Western Australia_1762_1979 H15N9



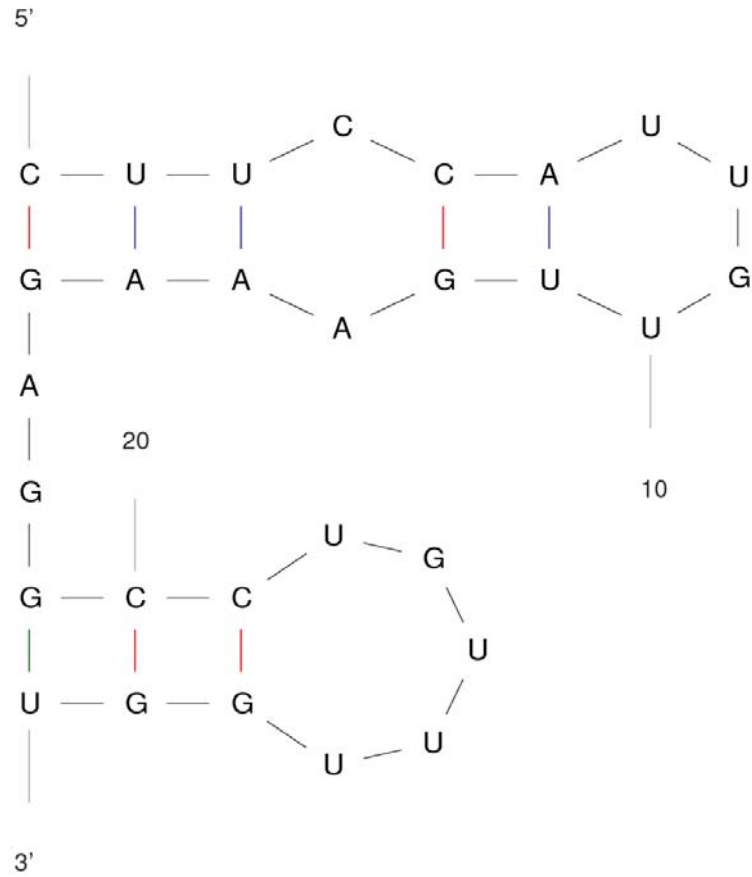
dG = -3.2 A_duck_Australia_341_1983 H15N8



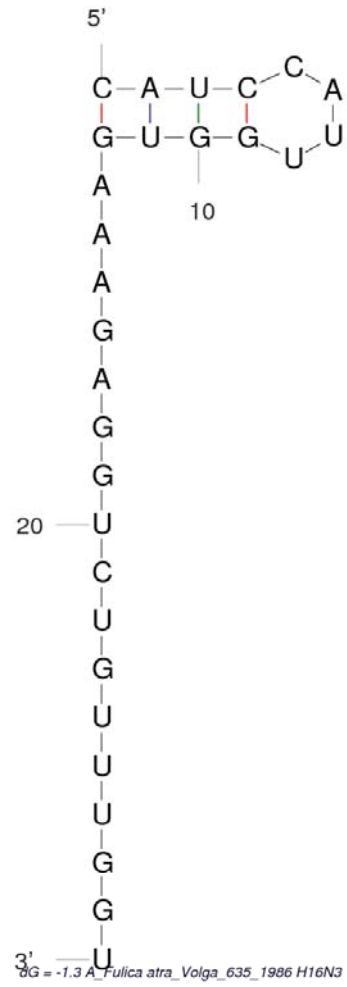
dG = -1.1 A_teal_Chany_7119_2008 H15N4



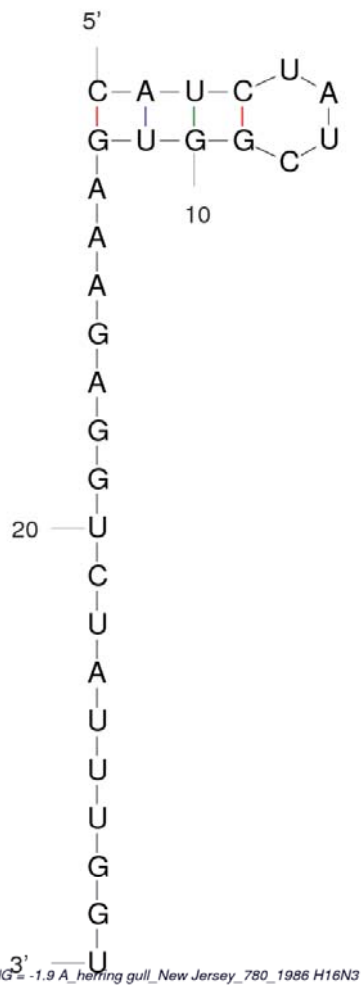
dG = -2.5 A_black-legged kittiwake_Alaska_295_1975 H16N3



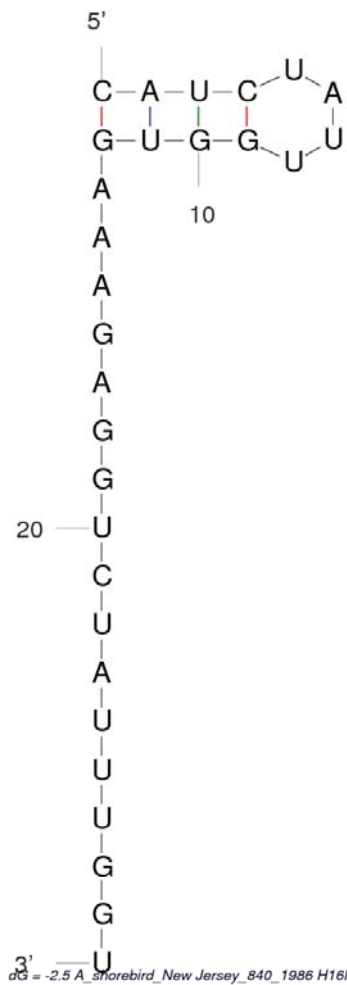
dG = -2.7 A_little tern_Gurjev_779_83 H16N3



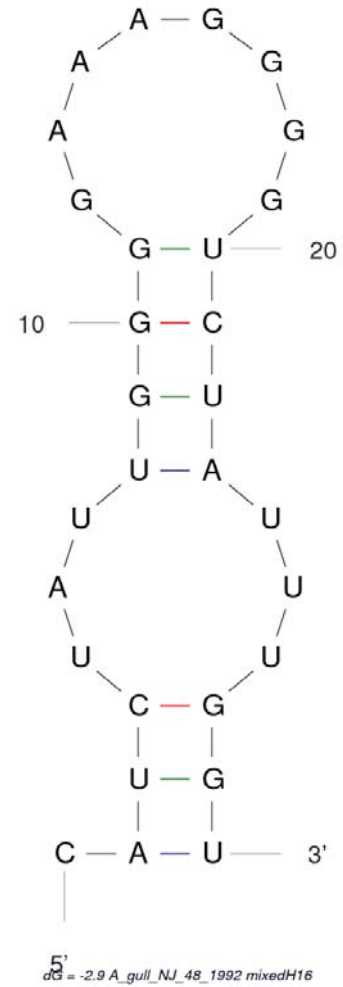
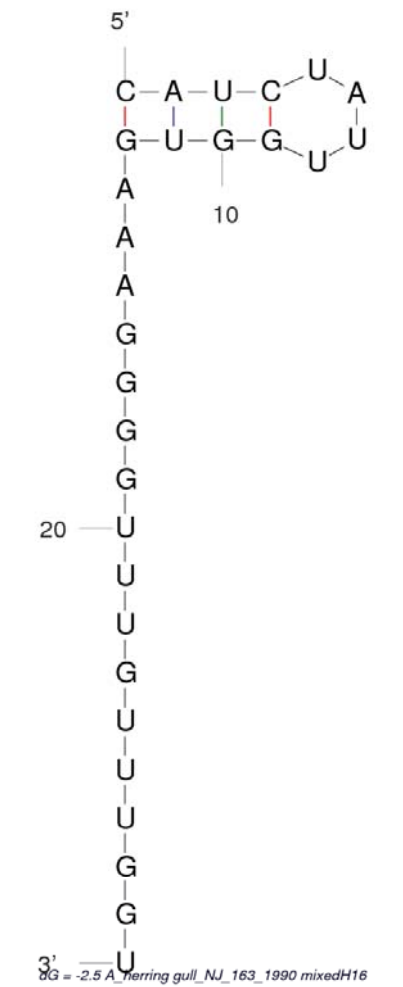
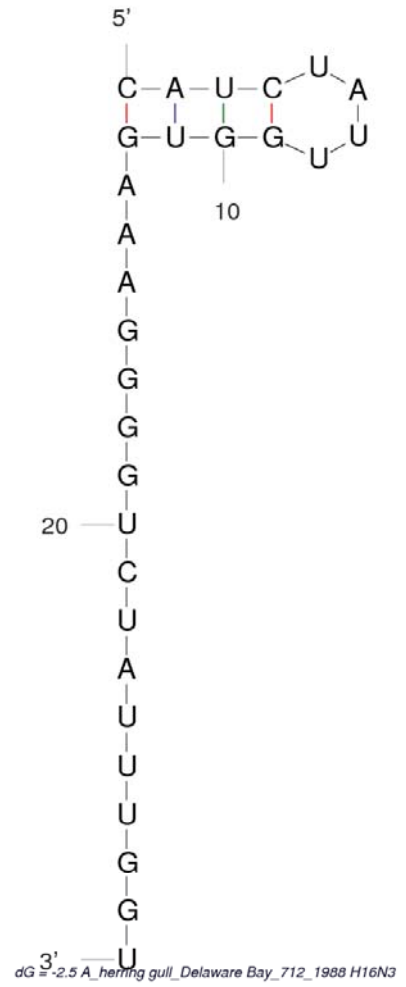
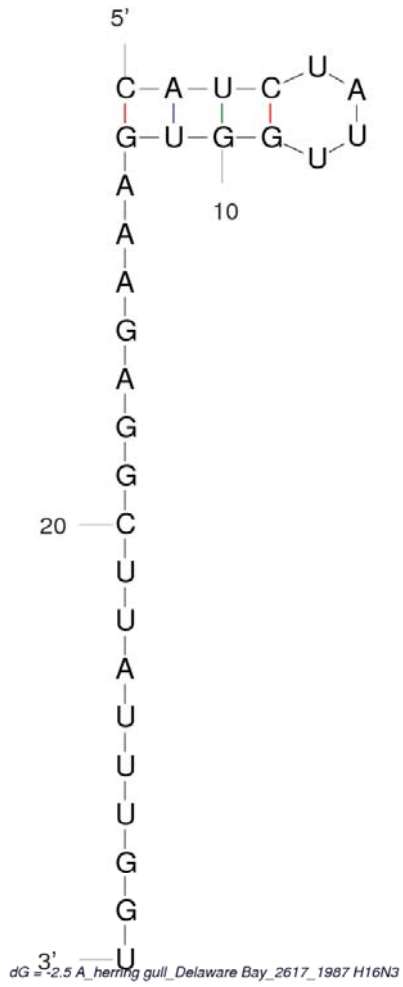
dG = -1.3 A_Fulica atra_Volga_635_1986 H16N3

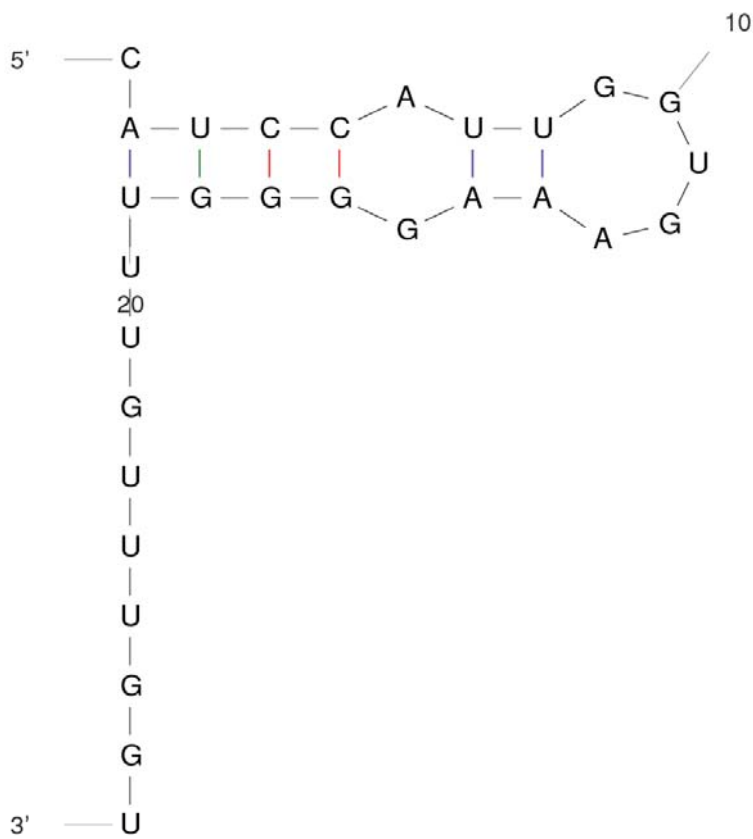


dG = -1.9 A_herring gull_New Jersey_780_1986 H16N3

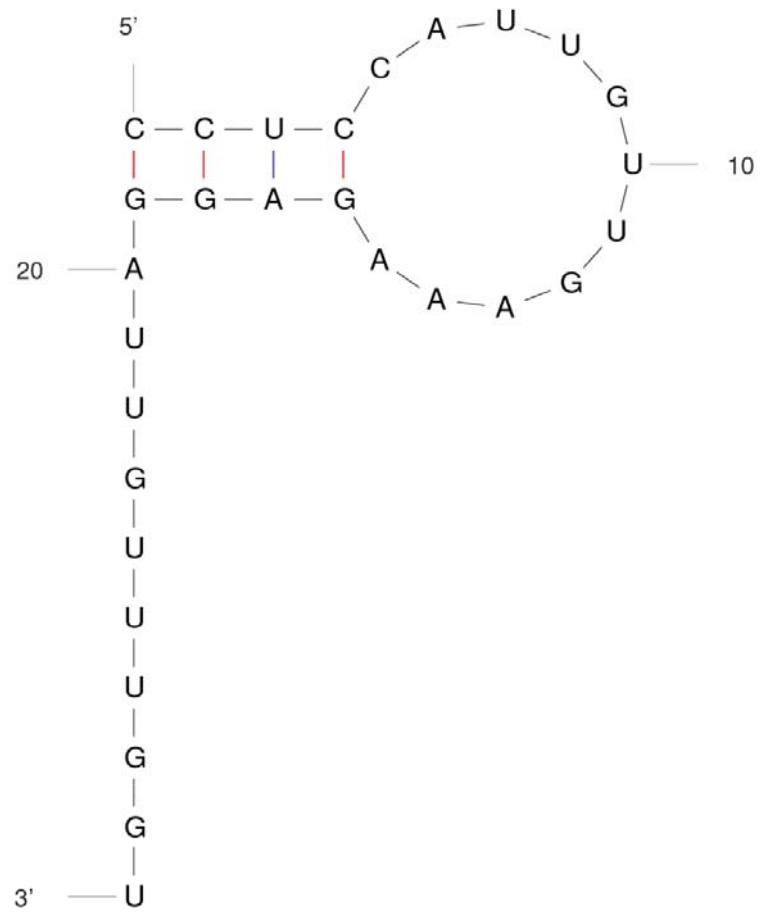


dG = -2.5 A_shorebird_New Jersey_840_1986 H16N3

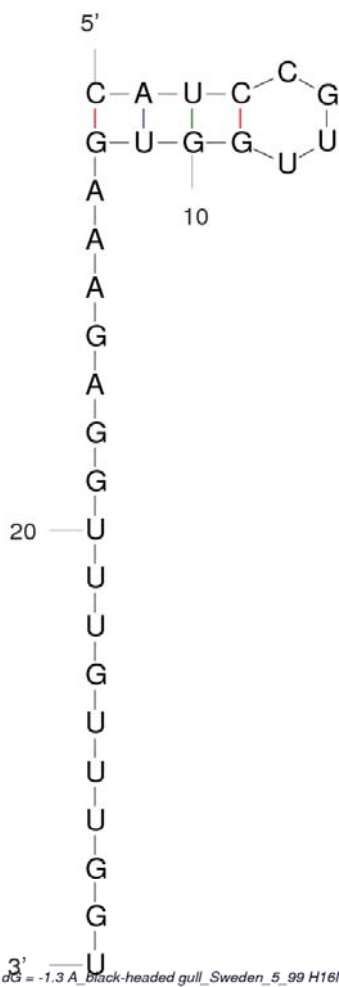




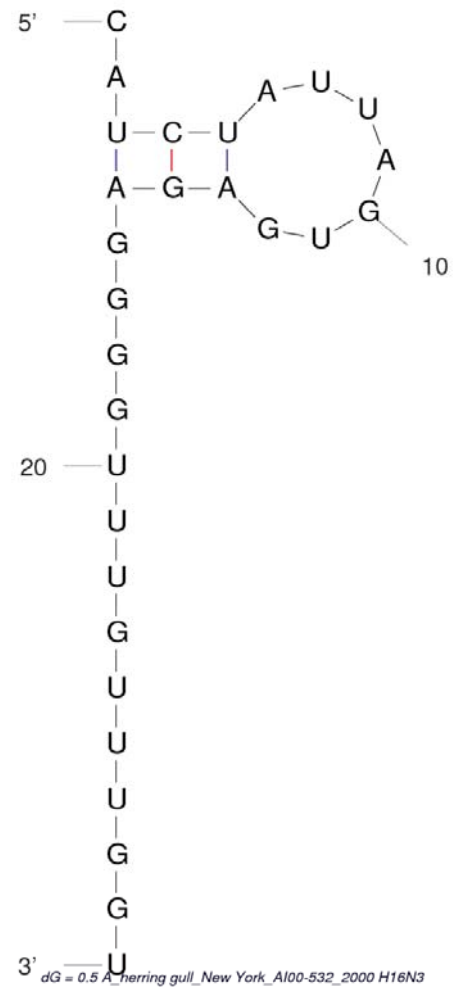
dG = -1.9 A_laughing_gull_Delaware Bay_296_1998 H16N3



dG = -3.3 A_black-headed_gull_Sweden_2_99 H16N3



dG = -1.3 A_black-headed_gull_Sweden_5_99 H16N3



dG = 0.5 A_herring_gull_New York_AI00-532_2000 H16N3

