Table 3. A3-staple group motif 539_7_0.26_2z75_1_259 representatives from different non-coding RNA molecules.

| PDB entry | RNA molecule | Motif instance | Staple residue | Layer-1 | Layer-2 | Layer-3 |
|--------------|---------------------------|-------------------|-------------------|--------------------------------|---------------|--------------|
| 2Z75 | glmS ribozyme | 2z75_1_259 | B.A.104 | O2'-O2'(2.65) | N1-N2G(2.94) | N6-O4'(3.02) |
| 6TH6 | Archaeal SSU rRNA | 6th6_48_678 | Aa.A.1239 | O2'-O2'(3.48) | N1-N2G(3.04) | N6-O4'(3.55) |
| 6TH6 | Archaeal LSU rRNA | 6th6_27_968 | BA.A.1716. | O2'-O2'(3.1) | N1-N2G(2.89) | N6-O4'(3.34) |
| 4WFL | Bacterial large SRP RNA | 4wfl_0_354 | A.G.76. | O2'-O2'(2.78) | - | N2-O4'(3.8) |
| 5T83 | Guanidine-I riboswitch | 5t83_0_210 | A.A.82. | O4'-O2'(3.31) O2'-O4'(3.29) | N3-O2'(2.73) | N6-O2'(3.16) |
| 7D1A | Group II catalytic intron | 7d1a_4_746 | A.G.501. | O4'-O2'(2.91) | N1-O2'(2.3) | N2-O4'(2.71) |
| 7EZ2 | Group I catalytic intron | 7ez2_0_400 | N.A.115. | O4'-O2'(3.09) | O2'-O2'(3.78) | C2-O2'(3.75) |