

Helix 2

Most Capsosiphonaceae: 7/9 nt
 Acrosiphonia, Protomonostroma: 12 nt
 Chlorothrix: 18 nt
 Most Gomontiaceae: 6-10 nt
 Gloeotilopsis sp.: 25 nt

U: 'Pseudodoclonium' basiliense
 U: 6 taxa, C: 14 taxa
 C-G→G-C: Collinsiella
 C: Gloeotilopsis clade
 C: Monostroma

A-U→C-G: Gloeotilopsis sp. ACOI
 2 nt: most of Capsosiphonaceae, freshwater/ soil
 1-4 nt: most of Gomontiaceae

Helix 1

only Collinsiella
 A: Gloeotilopsis paucicellularis, C: rest of Ulvales
 Capsosiphonaceae: 7/9/11/12/13/16 nt
 Gomontiaceae: 6-12 nt

Helix 3

base pair in Collinsiella
 3-6 nt
 G: Gomontiaceae (marine/ brackish)
 only Collinsiella
 C: 'Blidingia'
 C: Collinsiella
 A: Gomontiaceae (marine/ brackish)
 U: Ulvales EF595507

Helix 4

only Collinsiella, 'Blidingia'
 G: Pseudoneochloris
 U: Acrosiphonia
 only Chamaetrichon, 'Pseudodoclonium' basiliense
 G/C→U/U, A→C: Gomontiaceae (marine/ brackish)
 U: Gomontiaceae (marine/ brackish)
 G-C→A-U: Gomontiaceae (marine/ brackish)