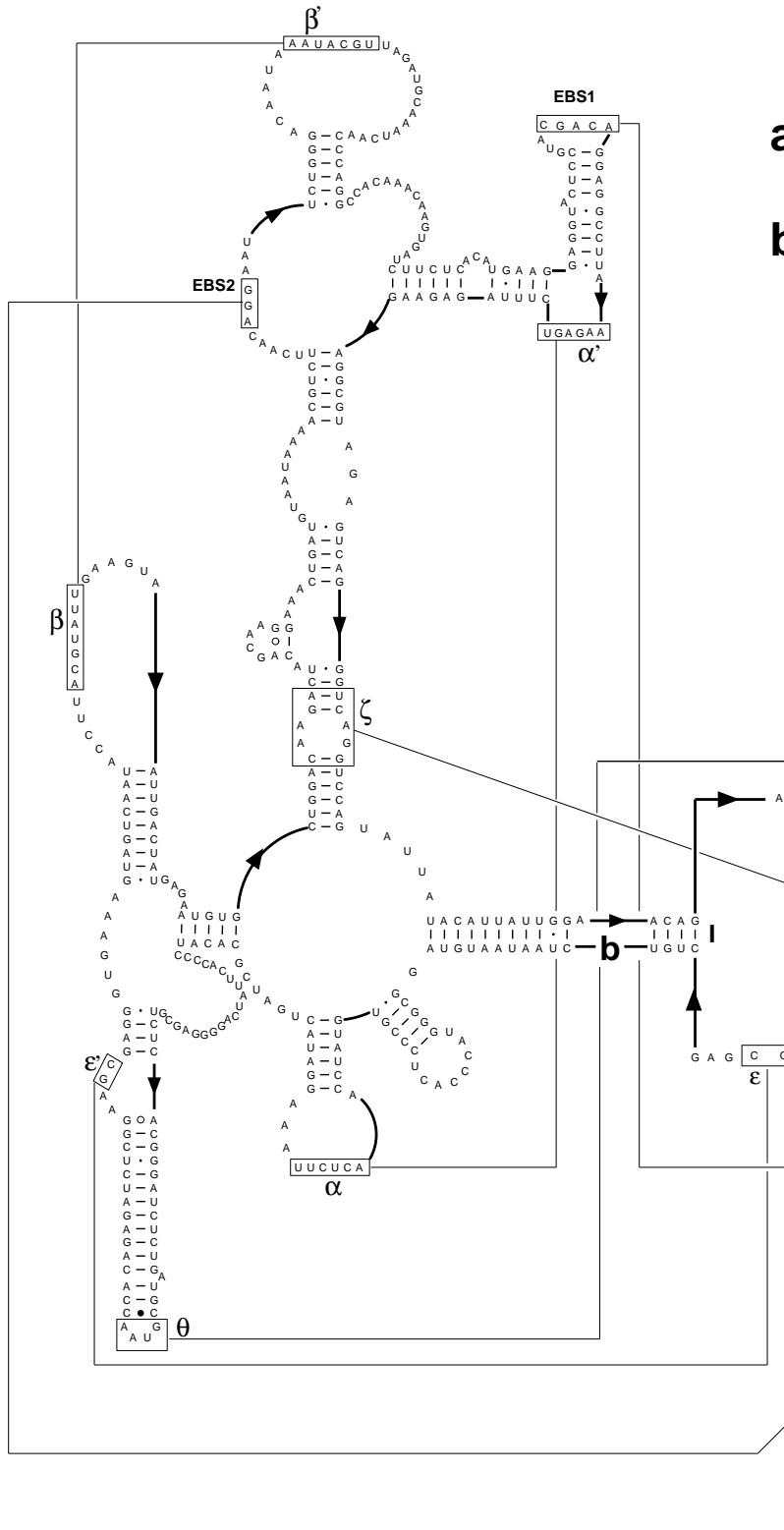
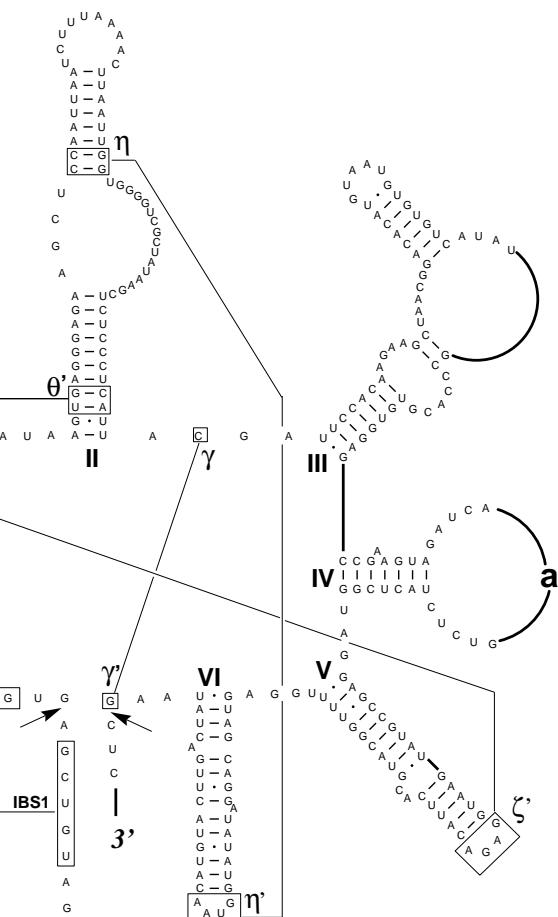


## Secondary Structure: Group II intron



**a** 5'- UUUAAAAGAACUGCAGGGUAAAUAACCUUUCGUUGUAAUUGUUGUAUGC  
GUAAUUAACCUAAGGAUGGAGUAAAUCGAGGCCGAAGUUGAACAA  
AAAGUUAUACCACGUUCUAAAUGAGUAAAAGAGGUUAAGU  
AUGGUCAAAAUAUGGAAUUCCCAAAAGGUUAAAAGUGUAGU  
GCAAGACUGCUUUCGAAAAGGGCACUGCAUGGUCAUUCUACCUA  
AUAGAUGA -3'

**b** 5'- UGGUGUAAAAGUAGAAUUGUAUCUUACG  
UAAAACCGAGUGUACUCAGGUAGAGUC  
ACUUAA -3'



*Pilayella littoralis:*  
*Mitochondrion LSUrRNA[i4,2509]*

(Z48620) (IIB)

1.Eukaryota 2.eukaryote crown group

3.stramenopiles 4.Phaeophyceae/Xanthophyceae group

5.Phaeophyceae 6.Ectocarpales 7.Ectocarpaceae

8.Pilayella

October, 2000