

Species/Abbrv	Group Name	*****					
1. mt_orf582_cox2-751_MH093740_Uco2	IIB	VRYADD	LVILHK				
2. mt_orf582_cox2-751_KY626327_Uco3	IIB	VRYADD	LVILHK				
3. mt_orf582_cox2-751_KX595276_Uco4	IIB	VRYADD	LVILHK				
4. mt_orf582_cox2-751_MK069586_Uco5	IIB	VRYADD	LVILHK				
5. mt_orf542_cox2-751_MK069587_Uco6	IIB	VRYADD	LVILHK				
6. mt_orf508_cox2-751_MT179359_Uri	IIB	VRYADD	LVILHK				
7. mt_orf294_nad3-216_MH013469_Uco1	IIB	IRYADD	FVIMHK				
8. mt_orf568_nad3-216_MK069586_Uco5	IIB	IRYADD	FVIMHK				
9. mt_orf294_nad3-216_MK069587_Uco6	IIB	IRYADD	FVIMHK				
10. mt_orf573_nad3-216_KU182748_Ula1	IIB	IRYADD	FVIMHK				
11. mt_orf573_nad3-216_KT364296_Ula2	IIB	IRYADD	FVIMHK				
12. mt_orf573_nad3-216_MH763013_Ula3	IIB	IRYADD	FVIMHK				
13. mt_orf568_nad3-216_MZ438677_Upr1	IIB	IRYADD	FVIMHK				
14. mt_orf568_nad3-216_KT428794_Upr2	IIB	IRYADD	FVIMHK				
15. mt_orf568_nad3-216_KU161104_Upr3	IIB	IRYADD	FVIMHK				
16. mt_orf329_nad3-216_KU189740_Ul1	IIB	IRYADD	FVIMHK				
17. mt_orf486_nad3-216_MT179358_Usp4	IIB	IRYADD	FVIMHK				
18. mt_orf582_nad3-216_MT179359_Uri	IIB	IRYADD	FVIMHK				
19. mt_orf160_nad3-216_AP018695_Uoh	IIB	IRYADD	FV----				
20. mt_orf558_rnl-1963_KX530816_Uau1	IIB	VRYADD	FVITGK				
21. mt_orf558_rnl-1963_KX530817_Uau2	IIB	VRYADD	FVITGK				
22. mt_orf558_rnl-1963_MT179354_Uau3	IIB	VRYADD	FVITGK				
23. mt_orf577_rns-780_KP720617_Usp3	IIB	IRYADD	FIVSGA				
24. mt_orf563_rns-780_MK069587_Uco6	IIB	IRYADD	FIVSGA				
25. mt_orf178/106_rns-780_KX530816_Uau1	IIB	IRYADD	FIVSGA				
26. mt_orf178/106_rns-780_KX530817_Uau2	IIB	IRYADD	FIVSGA				
27. mt_orf178/106_rns-780_MT179354_Uau3	IIB	IRYADD	FIVSGA				
28. cp_orf529_atpB-627_MT916929_Uco6	IIB	FRYADD	DMVFILK				
29. cp_orf529_atpB-627_KX595275_Uco7	IIB	FRYADD	DMVFILK				
30. cp_orf474_atpB-627_MT179350_Ugi	IIB	FRYADD	DMVFILK				
Species/Abbrv	Group Name	*****					
31. cp_orf521_atpB-627_MT179353_Uri	IIB	FRYADD	DMVFILK				
32. cp_orf536_atpB-627_MT179349_Ufe	IIB	FRYADD	DMVFILK				
33. cp_orf529_atpB-627_KX579943_Uf1	IIB	FRYADD	DMVFILK				
34. cp_orf529_atpB-627_MW353781_Uco3	IIB	FRYADD	DMVFILK				
35. cp_orf529_atpB-627_MW344287_Uco2	IIB	FRYADD	DMVFILK				
36. cp_orf527_atpB-627_AP018696_Uoh	IIB	FRYADD	DMVFILK				
37. cp_orf524_atpB-627_MK069584_Uco4	IIB	FRYADD	DMVFILK				
38. cp_orf524_atpB-627_MW548841_Uco1	IIB	FRYADD	DMVFILK				
39. cp_orf429_atpB-627_MN853875_Uau1	IIB	FRYADD	DMVFILK				
40. cp_orf572_atpB-696_MT179351_Ulc	IIB	IRYADD	FVLIIHR				
41. cp_orf578_atpB-696_MT179350_Ugi	IIB	IRYADD	FVLIIHR				
42. cp_orf574_atpB-696_MT179353_Uri	IIB	IRYADD	FVLIIHR				
43. cp_orf581_atpB-696_AP018696_Uoh	IIB	IRYADD	FVLIIHR				
44. cp_orf571_atpB-696_KX579943_Uf1	IIB	IRYADD	FVLIIHR				
45. cp_orf571_atpB-696_MW548841_Uco1	IIB	IRYADD	FVLIIHR				
46. cp_orf522_atpB-696_MK069584_Uco4	IIB	IRYADD	FVLIIHR				
47. cp_orf577_psbC-496_MK069584_Uco4	IIB	IRYADD	FVLIHY				
48. cp_orf564_petB-277_MT179353_Uri	IIB	VRYADD	FVITGR				
49. cp_orf568_petB-169_MT179353_Uri	IIB	VRYADD	FIIITGK				
50. cp_orf569_petB-23_MT179353_Uri	IIB	IRYADD	FVIMHA				
51. cp_orf464_atpI-256_MT179350_Ugi	IIB	IRYADD	MIFILK				
52. cp_orf398_petB-69_MT916929_Uco6	IIB	LRYADD	LIIYFIK				
53. cp_orf519_petB-69_KX595275_Uco7	IIB	LRYADD	LIIYFIK				
54. cp_orf467_petB-69_MT179348_Uau3	IIB	LRYADD	LIIYFIK				
55. cp_orf491_petB-69_MT179351_Ulc	IIB	LRYADD	VIIYFLK				
56. cp_orf519_petB-69_AP018696_Uoh	IIB	LRYADD	LIIYFIK				
57. cp_orf519_petB-69_MK069584_Uco4	IIB	YRYADD	LIIYFIK				
58. cp_orf519_petB-69_MW353781_Uco3	IIB	LRYADD	LIIYFIK				
59. cp_orf519_petB-69_MW548841_Uco1	IIB	YRYADD	LIIYFIK				
60. cp_orf475_petB-69_KP720616_Usp	IIB	LRYADD	LIIYFIK				
61. cp_orf467_petB-69_LC507117_Uau2	IIB	LRYADD	LIIYFIK				
62. cp_orf460_petB-69_KT882614_Ula1	IIB	LRYADD	LIIYFIK				
63. cp_orf203/199_petB-69_MH730972_Ula2	IIB	LRYADD	LIIYFIK				

Fig. S2 The conserved RYADD catalytic motif in RT domains from 63 group IIB introns in *Ulva* organelle genomes.