

***Fucus vesiculosus* and *spiralis* species complex: a nested model of local adaptation at the shore level**

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Supplement 1. Table of allele frequencies for each locus and population.

L 20

	FspiH P	FspiH F	FspiL P	FspiL F	Fves P	Fves F
N	19	19	30	50	78	84
Allele size						
120	---	---	1.000	0.980	0.019	---
129	---	---	---	---	---	0.006
132	---	---	---	---	0.026	0.006
135	---	---	---	---	---	0.030
138	---	---	---	---	---	0.101
141	---	---	---	---	0.019	0.220
144	---	---	---	0.020	---	0.214
147	1.000	1.000	---	---	0.782	0.042
150	---	---	---	---	0.128	0.042
153	---	---	---	---	---	0.161
156	---	---	---	---	---	0.131
159	---	---	---	---	---	0.036
165	---	---	---	---	0.013	0.006
168	---	---	---	---	0.006	0.006
171	---	---	---	---	0.006	---

L38

	FspiH P	FspiH F	FspiL P	FspiL F	Fves P	Fves F
N	19	19	30	50	78	84
Allele size						
182	---	---	---	---	---	0.012
185	---	---	---	---	---	0.018
188	0.947	1.000	0.983	1.000	0.494	0.327
191	---	---	---	---	---	0.095
200	---	---	---	---	0.071	0.030
209	0.026	---	0.017	---	0.327	0.310
212	---	---	---	---	---	0.048
215	---	---	---	---	---	0.060
218	---	---	---	---	---	0.060
224	---	---	---	---	---	0.012
227	0.026	---	---	---	0.109	0.018
236	---	---	---	---	---	0.006
248	---	---	---	---	---	0.006

L58

	FspiH P	FspiH F	FspiL P	FspiL F	Fves P	Fves F
N	19	19	30	50	78	84
Allele size						
105	---	---	---	---	---	0.012
107	1.000	1.000	1.000	0.990	0.192	0.268
109	---	---	---	---	0.763	0.286
111	---	---	---	0.010	---	0.375
113	---	---	---	---	---	0.018
115	---	---	---	---	0.045	0.006
117	---	---	---	---	---	0.024
119	---	---	---	---	---	0.012

L78

	FspiH P	FspiH F	FspiL P	FspiL F	Fves P	Fves F
N	19	19	30	50	78	84
Allele size						
138	0.947	1.000	---	---	---	---

141	---	---	---	---	---	0.006
147	0.026	---	0.017	---	0.058	0.030
150	---	---	---	---	---	0.012
153	---	---	0.883	1.000	0.045	0.012
156	---	---	---	---	---	0.012
162	---	---	---	---	0.013	0.030
165	---	---	---	---	0.039	0.125
168	---	---	0.050	---	0.417	0.316
171	0.026	---	0.050	---	0.385	0.256
174	---	---	---	---	---	0.083
177	---	---	---	---	0.045	0.095
180	---	---	---	---	---	0.024

L94

	FspiH P	FspiH F	FspiL P	FspiL F	Fves P	Fves F
N	19	19	30	50	78	84
Allele size						
154	---	---	0.017	---	---	---
157	---	---	0.967	---	---	---
163	0.974	1.000	---	0.980	0.115	0.006
169	---	---	---	---	---	0.024
172	0.026	---	---	0.020	0.494	0.601
178	---	---	0.017	---	0.391	0.185
181	---	---	---	---	---	0.024
184	---	---	---	---	---	0.054
187	---	---	---	---	---	0.083
193	---	---	---	---	---	0.024

fsp1

	FspiH P	FspiH F	FspiL P	FspiL F	Fves P	Fves F
N	19	19	30	50	78	84
Allele size						
138	---	---	---	0.030	---	---
140	0.947	1.000	---	0.840	0.103	0.226
142	0.026	---	0.983	0.130	0.122	0.089

144	0.026	---	---	---	0.500	0.107
146	---	---	---	---	0.026	0.202
148	---	---	---	---	0.051	0.191
150	---	---	---	---	0.141	0.143
152	---	---	0.017	---	0.006	---
154	---	---	---	---	---	0.018
158	---	---	---	---	---	0.018
160	---	---	---	---	---	0.006
162	---	---	---	---	0.051	---

fsp2

	FspiH P	FspiH F	FspiL P	FspiL F	Fves P	Fves F
N	19	19	30	50	78	84
Allele size						
152	---	---	---	---	---	0.012
156	0.974	0.368	0.950	1.000	0.545	0.327
160	---	---	---	---	0.039	0.149
164	0.026	---	0.050	---	0.346	0.470
168	---	---	---	---	---	0.006
192	---	0.605	---	---	0.071	0.036
198	---	0.026	---	---	---	---