

**Table S1.** List of all the *A. coerulea* COI sequences determined in this study

Isolate code	Isolation source	Collected location	Collection date	Gene	Accession No.
RF01-2	Polyp tissue	Jeongok port; R1-JG	11-Apr-17	cox1	MT361137
RF05-7	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361138
RF05-8	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361139
RF05-9	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361140
RF05-10	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361141
RF07-1	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361142
RF07-3	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361143
RF07-4	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361144
RF07-6	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361145
RF07-7	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361146
RF07-8	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361147
RF07-9	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361148
RF07-11	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361149
RF07-13	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361150
RF07-14	Polyp tissue	Jeongok port; R1-JG	06-Apr-17	cox1	MT361151
RF08-1	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361152
RF08-2	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361153
RF08-3	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361154
RF08-4	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361155
RF08-5	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361156
RF08-6	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361157
RF08-7	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361158
RF08-8	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361159
RF08-9	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361160
RF08-10	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361161
RF08-11	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361162
RF08-12	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361163
RF08-13	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361164
RF08-14	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361165
RF08-15	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361166
RF08-17	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361167
RF08-18	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361168
RF08-19	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361169
RF08-20	Polyp tissue	Dangjin port; R1-DJ	13-Apr-17	cox1	MT361170

RF09-1	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361171
RF09-2	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361172
RF09-3	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361173
RF09-4	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361174
RF09-5	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361175
RF09-6	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361176
RF09-7	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361177
RF09-8	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361178
RF09-9	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361179
RF09-10	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361180
RF09-11	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361181
RF09-12	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361182
RF09-13	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361183
RF09-14	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361184
RF09-15	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361185
RF09-16	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361186
RF09-17	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361187
RF09-18	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361188
RF09-19	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361189
RF09-20	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361190
RF09-21	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361191
RF10-1	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361192
RF10-2	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361193
RF10-3	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361194
RF10-4	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361195
RF10-5	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361196
RF10-6	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361197
RF10-7	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361198
RF10-8	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361199
RF10-9	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361200
RF10-10	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361201
RF10-11	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361202
RF10-12	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361203
RF10-13	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361204
RF10-14	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361205
RF10-15	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361206
RF10-16	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361207
RF10-17	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361208
RF10-19	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361209
RF10-20	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361210

RF10-21	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361211
RF10-22	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361212
RF10-23	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361213
RF10-24	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361214
RF10-25	Polyp tissue	Daesan port; R1-DS	02-May-17	cox1	MT361215
RF11-2	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361216
RF11-3	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361217
RF11-4	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361218
RF11-5	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361219
RF11-6	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361220
RF11-7	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361221
RF11-8	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361222
RF11-9	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361223
RF11-11	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361224
RF11-13	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361225
RF11-14	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361226
RF11-15	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361227
RF11-16	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361228
RF11-19	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361229
RF11-20	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361230
RF12-1	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361231
RF12-2	Polyp tissue	Baeksajang port; R2-BJ	13-Apr-17	cox1	MT361232
RF13-1	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361233
RF13-2	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361234
RF13-3	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361235
RF13-4	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361236
RF13-5	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361237
RF13-6	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361238
RF13-7	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361239
RF13-8	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361240
RF13-9	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361241
RF13-10	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361242
RF13-11	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361243
RF13-12	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361244
RF13-13	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361245
RF13-14	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361246
RF13-15	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361247
RF13-16	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361248
RF13-17	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361249
RF13-18	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361250

RF13-19	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361251
RF13-20	Polyp tissue	Daecheon port; R2-DC	14-Apr-17	cox1	MT361252
RF15-1	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361253
RF15-2	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361254
RF15-3	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361255
RF15-4	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361256
RF15-5	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361257
RF15-6	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361258
RF15-7	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361259
RF15-8	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361260
RF15-9	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361261
RF15-10	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361262
RF15-11	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361263
RF15-12	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361264
RF15-13	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361265
RF15-14	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361266
RF15-15	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361267
RF15-16	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361268
RF15-17	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361269
RF15-18	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361270
RF15-19	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361271
RF15-20	Polyp tissue	Galyeogdo port; R2-GL	04-Apr-17	cox1	MT361272
RF16-1	Polyp tissue	Galyeogdo port; R2-GL	29-Mar-17	cox1	MT361273
RF17-1	Polyp tissue	Galyeogdo port; R2-GL	29-Mar-17	cox1	MT361274
RF17-10	Polyp tissue	Galyeogdo port; R2-GL	29-Mar-17	cox1	MT361275
RF19-1	Polyp tissue	Galyeogdo port; R2-GL	29-Mar-17	cox1	MT361276
RF19-2	Polyp tissue	Usuyeong port; R3-UY	29-Mar-17	cox1	MT361277
RF19-3	Polyp tissue	Usuyeong port; R3-UY	29-Mar-17	cox1	MT361278
RF20-3	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361279
RF20-4	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361280
RF20-5	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361281
RF20-6	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361282
RF20-7	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361283
RF20-8	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361284
RF20-10	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361285
RF21-1	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361286
RF21-2	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361287
RF21-3	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361288
RF21-4	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361289
RF21-5	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361290

RF21-6	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361291
RF21-7	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361292
RF21-8	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361293
RF21-9	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361294
RF21-10	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361295
RF21-11	Polyp tissue	Nokdong port; R3-ND	19-Apr-17	cox1	MT361296
RF22-1	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361297
RF22-2	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361298
RF22-3	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361299
RF22-4	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361300
RF22-5	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361301
RF22-6	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361302
RF22-7	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361303
RF22-8	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361304
RF22-10	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361305
RF23-1	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361306
RF23-2	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361307
RF23-3	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361308
RF23-5	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361309
RF23-7	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361310
RF23-8	Polyp tissue	Nokdong port; R3-ND	09-Apr-17	cox1	MT361311
RF25-9	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251296
RF25-10	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251297
RF25-12	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251298
RF26-1	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251299
RF31-1	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251300
RF31-2	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251301
RF31-3	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251302
RF31-4	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251303
RF31-5	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251304
RF31-6	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251305
RF31-7	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251306
RF31-8	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT361312
RF31-9	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251307
RF31-10	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251308
RF31-11	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251309
RF31-12	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT361313
RF31-13	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251310
RF31-14	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251311
RF31-16	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT361314

RF31-17	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251312
RF31-18	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251313
RF31-19	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251314
RF31-21	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251315
RF31-22	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251316
RF31-24	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251317
RF31-26	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251318
RF31-27	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251319
RF31-28	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251320
RF31-29	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251321
RF31-30	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251322
RF32-1	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251323
RF32-3	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251324
RF32-4	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251325
RF32-5	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251326
RF32-7	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251327
RF32-9	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251328
RF32-10	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251329
RF33-1	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251330
RF33-2	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251331
RF34-1	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251332
RF34-2	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251333
RF34-3	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251334
RF34-5	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251335
RF35-1	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251336
RF35-2	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251337
RF35-3	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251338
RF35-4	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251339
RF35-6	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251340
RF36-1	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251341
RF36-3	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251342
RF36-5	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251343
RF36-6	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251344
RF36-7	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251345
RF36-8	Polyp tissue	Jaran Bay; R4-GS	30-Mar-17	cox1	MT251346

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