

Kit Contents (sufficient materials for 8 student workstations with 2–4 students per workstation)	
Resuspension solution, 5 ml	1
Lysis solution, 5 ml	1
Neutralization solution, 5 ml	1
Wash buffer, 10 ml	1
Matrix, 5 ml	1
Spin filters	20
PCR tubes, 0.2 ml	50
Microcentrifuge tubes, 2 ml	250
PCR master mix (Taq DNA polymerase, dNTPs, buffer), 1.2 ml	1
Fish primer mix (40x), 50 µl	1
pCOI control, 25 µl	1
UVView™ 6x loading dye, 200 µl	1
PCR molecular weight ruler, 200 µl	1
Sterile water, 2.5 ml	1
Curriculum (includes teacher guide, student manual, and graphic quick guide)	1
Required Accessories Not Included in Kit	
Fish tissue samples	8–16
Digital dry bath/water bath	1
Model 16K centrifuge	1–2
Horizontal gel electrophoresis chambers	4–8
Power supplies	2–4
Thermal cycler	1
2–20 µl adjustable-volume micropipet	8
20–200 µl adjustable-volume micropipet	8
100–1,000 µl adjustable-volume micropipet	8
100–1,000 µl pipet tips	1 bag
2–20 µl aerosol barrier pipet tips	1 bag
20–200 µl aerosol barrier pipet tips	1 bag
UV transilluminator or imaging system	1
Ethanol	10 ml
Distilled water	5 ml
Razor blades or plastic knives	16

Electrophoresis buffer, 50x TAE, 100 ml	1
Agarose powder, 5 g	1
Gloves	
Markin pens	8
Recommended (Optional) Accessories	
Precast agarose gels	8
Pipet controller	1
Vortexer	1
Digital camera for imaging gels	1