

MOLECULAR CLONING

FOURTH EDITION



A LABORATORY MANUAL

GREEN AND SAMBROOK



Errata

To determine whether your book is from the original printing or the first reprint, look at the copyright page (front matter, page iv). Above the last three paragraphs on the page you will find either

10 9 8 7 6 5 4 3 2 1 (original printing)

10 9 8 7 6 5 4 3 2 (first reprint)

Corrections That Were Made for the First Reprint

VOLUME 1

Chapter 3

Page 186, Reagents, fourth item down, Dephosphorylation, "Protocol 6" changed to "Protocol 7".

Chapter 6

Page 401, Introduction, second paragraph, second line, changed from "Chapter 10" to "Protocol 10".

Chapter 7

Page 488, Figure 1, Step 1, "Tables DE4.3 and 4.7" changed to "Table 1 in the chapter introduction".
Step 3, "Table 3" changed to "Table 1".

VOLUME 2

Chapter 9

Page 641, EXTRACTING DATA section, fifth sentence, "The curve then increases linearly..." changed to "The curve then increases sharply...".

Also within EXTRACTING DATA section, sixth sentence, "This detectable linear range, which is fairly narrow, represents the exponential phase of the reaction; it is only in this linear phase..." changed to "This steep increase, which is fairly narrow, represents the exponential phase of the reaction; it is only in this phase..."

Page 665, Last sentence, parenthetical text "(slope <0.1)" changed to "(slope <-0.1 or >0.1)".

Page 676, Figure 1 legend, third sentence, "An abnormal in which..." changed to "An abnormal plot which...".

Chapter 11

Page 764, Reagents, "Sodium acetate (10 nM)" corrected to "Sodium acetate (10 mM)".

Chapter 14

Page 1088, Reagents, Oligonucleotide primers, first sentence of note changed from "For advice on the design of oligonucleotide primers, see the introduction to this protocol and the information panel Mutagenic Oligonucleotides." to "For advice on the design of oligonucleotide primers, see the introduction to this protocol."

Page 1104, Reagents, Primers, second sentence of note changed from "The mutagenic primer should be designed as described in the information panel Mutagenic Oligonucleotides with the engineered mutations..." to "The mutagenic primer should be designed with the engineered mutations...".

VOLUME 3

Chapter 18

Page 1417, Figure 2 legend, second and third sentences, "2" was removed after the word "Argonaute".

Page 1425, First paragraph, fourth line of text, "consequences of gene loss of function across..." changed to "consequences of gene loss across..."

Page 1434, Reagents, "Penicillin (100 U/mL) and streptomycin (100 µg/mL)," parenthetical comments removed.

Table 1, column 1, Tube A, "12.5 mM" was corrected to "12.5 µM".

Page 1437, Table 1, column 1, Tube A, "12.5 mM" was corrected to "12.5 µM".

Page 1443, TROUBLESHOOTING, Problem (Step 31), "Step 9" was corrected to "Step 10".

Also within TROUBLESHOOTING, Solution, fifth sentence "An additional band of the same size as the PCR product (Step 9)..." was corrected to "An additional band of the same size as the PCR product (Step 10)...".

Page 1444, Recipes, T7 Transcription Buffer (10×), "Triton X-100, 10% (w/v)" corrected to "Triton X-100".

Page 1448, Reagents, RNA samples, "(total)" was removed.

Page 1449, METHOD, Step 1, table, column 2, line 2, "3 mL" corrected to "3.75 mL".

Page 1451, Hybridization section, Step 36, "See Troubleshooting." was added as a note.

Page 1452, Step 43, note "See Troubleshooting." was removed.

TROUBLESHOOTING, "Problem (Step 43)" was changed to "Problem (Step 36)" two times.

Page 1456, Figure 1. Flowchart of steps, in steps 2-7, "RNA" was changed to "RNAs".

Also within Figure 1, Flowchart of steps (last two), "libraries" was changed to "library".

Page 1457, Figure "3" changed to Figure "2".

Also within same figure, "3'-end marker" changed to "3'-end linker".

Also within same figure, "5'-end marker" changed to "5'-end linker".

Page 1468, Reagents, ASOs, “(10 μM)” corrected to “(12.5 μM)”.

Page 1469, Preparation of Transfection Medium section, fourth sentence “For multiple-well transfection, add 10% extra mix...” changed to “For multiple-well transfections, add 10% extra reagents...”.

Page 1470, Reagents, ASOs, “(10 μM)” corrected to “(12.5 μM)”.

Page 1471, First full sentence “For multiple-well transfection, add 10% extra to mixes to compensate for loss...” changed to “For multiple-well transfections, add 10% extra reagents to compensate for losses...”

Chapter 20

Page 1682, TROUBLESHOOTING, Solution, “See also the Troubleshooting sections of Protocols 3 and 7.” was changed to “See also the Troubleshooting sections of Protocols 1 and 7.”

Appendix 1

Page 1823, Recipe for SSC (20 \times), last word of the paragraph corrected from “acetate” to “citrate”.

Page 1825, Recipe for TBE^a (5 \times), “EDTA (5 M) (pH 8.0)” corrected to “EDTA (0.5 M) (pH 8.0)”.

Corrections That Will Be Made for the Next Reprint

VOLUME 1

Chapter 1

Page 78, Third paragraph, second sentence, correction made from “50 mg/mL” to “50 $\mu\text{g/mL}$ ”.

Page 79, Second paragraph, third and last sentences, corrections made from “50 (mg/mL)” to “50 ($\mu\text{g/mL}$)” and “38 (mg/mL)” to “38 ($\mu\text{g/mL}$)”.

First displayed equation, “50 mg/mL” corrected to “50 $\mu\text{g/mL}$ ” and “38 mg/mL” corrected to “38 $\mu\text{g/mL}$ ”.

Chapter 3

Page 195, Forward primer, “20 mM” corrected to “20 μM ” twice.
METHOD, Steps 2 and 3, “20 mL” changed to “20 μL ”.

Page 196, Step 5, “10 mL” corrected to “10 μL ”.

Step 8, “5 mL” corrected to “5 μL ” and “10 mL” to “10 μL ”.

Page 198, METHOD, Step 1, table, column 2, “mL” corrected to “ μL ” six times. Also in text below table, “20 mL” corrected to “20 μL ”.

Step 3, “5 mL” corrected to “5 μL ” and “10 mL” to “10 μL ”.

Page 204, METHOD, Step 3, “5 mL” corrected to “5 μL ” and “10 mL” to “10 μL ”.

VOLUME 2

Chapter 14

Page 1090, Step 4, table, column 1, “20 mL” corrected to “20 μL ” twice, and column 2, “2.5 μL ” to “1 μL ” twice.

VOLUME 3

Appendix 1

Page 1815, Dithiothreitol (DTT, 1 M), “20 mM” corrected to “20 mL”.