

PR-164 COI

15-Jul-2016

Order No. **12008358**

Ref. No. **148203251**

Sequence - LCO1490M13

25 nmole DNA Oligo, 43 bases

5'- TGT AAA ACG ACG GCC AGT GGT CAA CAA ATC ATA AAG ATA TTG G -3'

**Properties**

*T<sub>m</sub>* (50mM NaCl)\*: 64.1 °C  
 GC Content: 39.5%  
 Molecular Weight: 13,316.7  
 nmoles/OD260: 2.3  
 ug/OD260: 30.1  
 Ext. Coefficient: 441,900 L/(mole·cm)

**Amount Of Oligo**

10.8 = 24.4 = 0.33  
 OD<sub>260</sub> nmoles mg  
 For 100 µM: add 244 µL

**Shipped To**

JENESSA WALL  
 NATURAL HISTORY MUSEUM OF LOS A  
 JENESSA WALL  
 LOS ANGELES, CA 90007  
 USA  
 2137633231  
 Customer No. 293704 PO No. Credit Card

**Secondary Structure Calculations**

Lowest folding free energy (kcal/mole): -1.08 at 25 °C  
 Strongest Folding T<sub>m</sub>: 29.0 °C

**Oligo Base Types**

Oligo Base Types	Quantity
DNA Bases	43

**Modifications and Services**

Modifications and Services	Quantity
Standard Desalting	1

**Disclaimer**

See on reverse page notes (I) (II) & (III) for usage, label license, and product warranties

$$\frac{24.4 \times 10^{-9} \text{ mol}}{\text{nL}} = \frac{20 \times 10^{-6} \text{ mol}}{\text{µL}}$$

$$n = 1.22 \times 10^{-3} \text{ L} = 1220 \mu\text{L H}_2\text{O added to primer}$$

Mfg. ID 49508738

Labels - Peel Here



**I N S T R U C T I O N S**

\*Lyophilized contents may appear as either a translucent film or a white powder. This variance does not affect the quality of the oligo.

\*Please centrifuge tubes prior to opening. Some of the product may have been dislodged during shipping.

\*The T<sub>m</sub> shown takes no account of Mg<sup>2+</sup> and dNTP concentrations. Use the OligoAnalyzer® Program at [www.idtdna.com/scitools](http://www.idtdna.com/scitools) to calculate accurate T<sub>m</sub> for your reaction conditions.

15-Jul-2016

Order No. **12008358**

Ref. No. **148203252**

Sequence - HCO2198M13

25 nmole DNA Oligo, 43 bases

5'- CAG GAA ACA GCT ATG ACT AAA CTT CAG GGT GAC CAA AAA ATC A -3'

**Properties**

*T<sub>m</sub>* (50mM NaCl)\*: 63.9 °C  
 GC Content: 39.5%  
 Molecular Weight: 13,254.7  
 nmoles/OD260: 2.3  
 ug/OD260: 30.1  
 Ext. Coefficient: 440,900 L/(mole·cm)

**Amount Of Oligo**

9.6 = 21.8 = 0.29  
 OD<sub>260</sub> nmoles mg  
 For 100 µM: add 218 µL

**Shipped To**

JENESSA WALL  
 NATURAL HISTORY MUSEUM OF LOS A  
 JENESSA WALL  
 LOS ANGELES, CA 90007  
 USA  
 2137633231  
 Customer No. 293704 PO No. Credit Card

**Secondary Structure Calculations**

Lowest folding free energy (kcal/mole): -2.50 at 25 °C  
 Strongest Folding T<sub>m</sub>: 43.8 °C

**Oligo Base Types**

DNA Bases Quantity 43

**Modifications and Services**

Standard Desalting Quantity 1

**Disclaimer**

See on reverse page notes (I) (II) & (III) for usage, label license, and product warranties

$$\frac{21.8 \times 10^{-9} \text{ mol}}{\mu\text{L}} = \frac{20 \times 10^{-6} \text{ mol}}{\text{L}}$$

$$n = 1.09 \times 10^{-3} \text{ L}$$

= 1090 µL then added to primer

Mfg. ID 49508739

Labels - Peel Here

**148203252**

J.WALL  
49508739 15-Jul-2016

**HCO2198M13**

5'-CAG GAA ACA GCT ATG ACT AAA CTT CAG  
GGT GAC CAA AAA ATC A -3'

MW = 13,254.7g/mol T<sub>m</sub> = 63.9°C  
9.6 OD = 21.8 nmol = 0.29 mg

**148203252**

J.WALL  
49508739 15-Jul-2016

**HCO2198M13**

5'-CAG GAA ACA GCT ATG ACT AAA CTT CAG  
GGT GAC CAA AAA ATC A -3'

MW = 13,254.7g/mol T<sub>m</sub> = 63.9°C  
9.6 OD = 21.8 nmol = 0.29 mg

**I N S T R U C T I O N S**

\*Lyophilized contents may appear as either a translucent film or a white powder. This variance does not affect the quality of the oligo.

\*Please centrifuge tubes prior to opening. Some of the product may have been dislodged during shipping.

\*The T<sub>m</sub> shown takes no account of Mg<sup>2+</sup> and dNTP concentrations. Use the OligoAnalyzer® Program at [www.idtdna.com/scitools](http://www.idtdna.com/scitools) to calculate accurate T<sub>m</sub> for your reaction conditions.