

06-Oct-2022

Order No. **18897733**

Ref. No. **420446748**

Sequence - Thurs_BlueBot

25 nmole DNA Oligo, 59 bases

5'- CCG CCA CTT TAA ATA TAT GTT ATA ATC TTA AAT ATT CAA TTA AAA AAA CAT TAA AAG AA -3'

Properties

T_m (50mM NaCl)*: 59.9 °C
GC Content: 18.6%
Molecular Weight: 18,101.9
nmoles/OD260: 1.6
ug/OD260: 29.6
Ext. Coefficient: 611,800 L/(mole·cm)

Amount Of Oligo

100µM in 233µL IDTE Buffer pH 8.0

Shipped To

PEGGY MAIORANO
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942509
Customer No. 396673 PO No. Credit Card

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -0.37 at 25 °C
Strongest Folding *T_m*: 28.0 °C

Oligo Base Types

Oligo Base Types	Quantity
DNA Bases	59

Modifications and Services

Modifications and Services	Quantity
LabReady (Normalized to 100µM in IDTE pH 8.0)	1
Standard Desalting	1

Disclaimer

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

Mfg. ID 400260959



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_m* shown takes no account of Mg²⁺ and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate *T_m* for your reaction conditions.

06-Oct-2022

Order No. **18897733**

Ref. No. **420446747**

Sequence - Thurs_BlueTop

25 nmole DNA Oligo, 59 bases

5'- CGA CTT CTT TTA ATG TTT TTT TAA TTG AAT ATT TAA GAT TAT AAC ATA TAT TTA AAG TG -3'

Properties

T_m (50mM NaCl)*: 58.6 °C
 GC Content: 16.9%
 Molecular Weight: 18,155.9
 nmoles/OD260: 1.7
 ug/OD260: 30.9
 Ext. Coefficient: 587,200 L/(mole·cm)

Amount Of Oligo

100µM in 342µL IDTE Buffer pH 8.0

Shipped To

PEGGY MAIORANO
 DAVIDSON COLLEGE
 209 RIDGE RD
 DAVIDSON, NC 28035-0407
 USA
 7048942509
 Customer No. 396673 PO No. Credit Card

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): 0.08 at 25 °C
 Strongest Folding T_m: 24.3 °C

Oligo Base Types

Oligo Base Types	Quantity
DNA Bases	59

Modifications and Services

Modifications and Services	Quantity
LabReady (Normalized to 100µM in IDTE pH 8.0)	1
Standard Desalting	1

Disclaimer

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

Mfg. ID 400260960

 <p>420446747 P.MAIORANO 400260960 06-Oct-2022 Thurs_BlueTop 5'- CGA CTT CTT TTA ATG TTT TTT TAA TTG A T_m=58.6°C MW=18,155.9 100µM in 342µL IDTE Buffer pH 8.0</p>	 <p>420446747 P.MAIORANO 400260960 06-Oct-2022 Thurs_BlueTop 5'- CGA CTT CTT TTA ATG TTT TTT TAA TTG A T_m=58.6°C MW=18,155.9 100µM in 342µL IDTE Buffer pH 8.0</p>
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I N S T R U C T I O N S

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

*The T_m shown takes no account of Mg²⁺ and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate T_m for your reaction conditions.

06-Oct-2022

Order No. **18897733**

Ref. No. **420446750**

Sequence - Thurs_GreenBot

25 nmole DNA Oligo, 59 bases

5'- CCG CTT ATC TAT TAT ACC ACA AAA GGG AAA TTT TCA ATA AAA TAG CCA CTT TCT TCC CT -3'

Properties

T_m (50mM NaCl)*: 65.0 °C
GC Content: 33.9%

Molecular Weight: 17,965.7
nmoles/OD260: 1.8
ug/OD260: 31.7

Ext. Coefficient: 566,300 L/(mole·cm)

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -2.01 at 25 °C
Strongest Folding *T_m*: 41.4 °C

Amount Of Oligo

100µM in 273µL IDTE Buffer pH 8.0

Shipped To

PEGGY MAIORANO
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942509

Customer No. 396673 PO No. Credit Card

Oligo Base Types

DNA Bases Quantity

Modifications and Services

LabReady (Normalized to 100µM in IDTE pH 8.0) Quantity
Standard Desalting 1

Disclaimer

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

Mfg. ID 400260957

 <p>420446750 P.MAIORANO 400260957 06-Oct-2022 Thurs_GreenBot 5'- CCG CTT ATC TAT TAT ACC ACA AAA GGG T_m=65.0°C MW=17,965.7 100µM in 273µL IDTE Buffer pH 8.0</p>	 <p>420446750 P.MAIORANO 400260957 06-Oct-2022 Thurs_GreenBot 5'- CCG CTT ATC TAT TAT ACC ACA AAA GGG T_m=65.0°C MW=17,965.7 100µM in 273µL IDTE Buffer pH 8.0</p>
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I N S T R U C T I O N S

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06-Oct-2022

Order No. **18897733**

Ref. No. **420446749**

Sequence - Thurs_GreenTop

25 nmole DNA Oligo, 59 bases

5'- CGA CAG GGA AGA AAG TGG CTA TTT TAT TGA AAA TTT CCC TTT TGT GGT ATA ATA GAT AA -3'

Properties

T_m (50mM NaCl)*: 64.3 °C
GC Content: 32.2%
Molecular Weight: 18,300.9
nmoles/OD260: 1.7
ug/OD260: 30.7
Ext. Coefficient: 596,700 L/(mole·cm)

Amount Of Oligo

100µM in 258µL IDTE Buffer pH 8.0

Shipped To

PEGGY MAIORANO
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942509
Customer No. 396673 PO No. Credit Card

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -2.18 at 25 °C
Strongest Folding *T_m*: 43.6 °C

Oligo Base Types

Oligo Base Types	Quantity
DNA Bases	59

Modifications and Services

Modifications and Services	Quantity
LabReady (Normalized to 100µM in IDTE pH 8.0)	1
Standard Desalting	1

Disclaimer

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Mfg. ID 400260958

 <p>420446749  P.MAIORANO 400260958 06-Oct-2022 Thurs_GreenTop 5'- CGA CAG GGA AGA AAG TGG CTA TTT TAT T_m=64.3°C MW=18,300.9 100µM in 258µL IDTE Buffer pH 8.0</p>	 <p>420446749  P.MAIORANO 400260958 06-Oct-2022 Thurs_GreenTop 5'- CGA CAG GGA AGA AAG TGG CTA TTT TAT T_m=64.3°C MW=18,300.9 100µM in 258µL IDTE Buffer pH 8.0</p>
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I N S T R U C T I O N S

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*The *T_m* shown takes no account of Mg²⁺ and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate *T_m* for your reaction conditions.

06-Oct-2022

Order No. **18897733**

Ref. No. **420446746**

Sequence - Thurs_RedBot

25 nmole DNA Oligo, 47 bases

5'- CCG CTA TTT AAT ATC TTA TTT TTA ATT AAG ATT AAT GTC AAT AAT TT -3'

Properties

T_m (50mM NaCl)*: 55.9 °C
 GC Content: 17.0%
 Molecular Weight: 14,379.4
 nmoles/OD260: 2.2
 ug/OD260: 31.1
 Ext. Coefficient: 463,100 L/(mole·cm)

Amount Of Oligo

100µM in 261µL IDTE Buffer pH 8.0

Shipped To

PEGGY MAIORANO
 DAVIDSON COLLEGE
 209 RIDGE RD
 DAVIDSON, NC 28035-0407
 USA
 7048942509
 Customer No. 396673 PO No. Credit Card

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -1.68 at 25 °C
 Strongest Folding T_m: 37.3 °C

Oligo Base Types

Oligo Base Types	Quantity
DNA Bases	47

Modifications and Services

Modifications and Services	Quantity
LabReady (Normalized to 100µM in IDTE pH 8.0)	1
Standard Desalting	1

Disclaimer

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Mfg. ID 400260961

 <p>420446746 P.MAIORANO 400260961 06-Oct-2022 Thurs_RedBot 5'-CCG CTA TTT AAT ATC TTA TTT TTA ATT A T_m=55.9°C MW=14,379.4 100µM in 261µL IDTE Buffer pH 8.0</p>	 <p>420446746 P.MAIORANO 400260961 06-Oct-2022 Thurs_RedBot 5'-CCG CTA TTT AAT ATC TTA TTT TTA ATT A T_m=55.9°C MW=14,379.4 100µM in 261µL IDTE Buffer pH 8.0</p>
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I N S T R U C T I O N S

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*The T_m shown takes no account of Mg²⁺ and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate T_m for your reaction conditions.

06-Oct-2022

Order No. **18897733**

Ref. No. **420446745**

Sequence - Thurs_RedTop

25 nmole DNA Oligo, 47 bases

5'- CGA CAA ATT ATT GAC ATT AAT CTT AAT TAA AAA TAA GAT ATT AAA TA -3'

Properties

T_m (50mM NaCl)*: 55.0 °C
 GC Content: 14.9%
 Molecular Weight: 14,466.5
 nmoles/OD260: 2.0
 ug/OD260: 29.0
 Ext. Coefficient: 498,300 L/(mole·cm)

Amount Of Oligo

100µM in 261µL IDTE Buffer pH 8.0

Shipped To

PEGGY MAIORANO
 DAVIDSON COLLEGE
 209 RIDGE RD
 DAVIDSON, NC 28035-0407
 USA
 7048942509
 Customer No. 396673 PO No. Credit Card

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -3.43 at 25 °C
 Strongest Folding T_m: 40.9 °C

Oligo Base Types

Oligo Base Types	Quantity
DNA Bases	47

Modifications and Services

Modifications and Services	Quantity
LabReady (Normalized to 100µM in IDTE pH 8.0)	1
Standard Desalting	1

Disclaimer

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Mfg. ID 400260962

 <p>420446745  P.MAIORANO 400260962 06-Oct-2022 Thurs_RedTop 5'- CGA CAA ATT ATT GAC ATT AAT CTT AAT T_m=55.0°C MW=14,466.5 100µM in 261µL IDTE Buffer pH 8.0</p>	 <p>420446745  P.MAIORANO 400260962 06-Oct-2022 Thurs_RedTop 5'- CGA CAA ATT ATT GAC ATT AAT CTT AAT T_m=55.0°C MW=14,466.5 100µM in 261µL IDTE Buffer pH 8.0</p>
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I N S T R U C T I O N S

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*The T_m shown takes no account of Mg²⁺ and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate T_m for your reaction conditions.

06-Oct-2022

Order No. **18897733**

Ref. No. **420446752**

Sequence - Thurs_YellowBot

25 nmole DNA Oligo, 58 bases

5'- CCG CTT ACG TAG ATA CAT ATA CTT GTC TAT ACA AGC ATG CGC AAG CCA GGA TTT AAC A -3'

Properties

T_m (50mM NaCl)*: 67.0 °C
GC Content: 41.4%
Molecular Weight: 17,792.6
nmoles/OD260: 1.8
ug/OD260: 31.2
Ext. Coefficient: 570,700 L/(mole·cm)

Amount Of Oligo

100µM in 299µL IDTE Buffer pH 8.0

Shipped To

PEGGY MAIORANO
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942509
Customer No. 396673 PO No. Credit Card

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -6.37 at 25 °C
Strongest Folding T_m: 48.3 °C

Oligo Base Types

Oligo Base Types	Quantity
DNA Bases	58

Modifications and Services

Modifications and Services	Quantity
LabReady (Normalized to 100µM in IDTE pH 8.0)	1
Standard Desalting	1

Disclaimer

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Mfg. ID 400260955



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

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*The T_m shown takes no account of Mg²⁺ and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate T_m for your reaction conditions.

06-Oct-2022

Order No. **18897733**

Ref. No. **420446751**

Sequence - Thurs_YellowTop

25 nmole DNA Oligo, 58 bases

5'- CGA CTG TTA AAT CCT GGC TTG CGC ATG CTT GTA TAG ACA AGT ATA TGT ATC TAC GTA A -3'

Properties

T_m (50mM NaCl)*: 66.2 °C
GC Content: 39.7%

Molecular Weight: 17,860.6
nmoles/OD260: 1.8
ug/OD260: 31.6

Ext. Coefficient: 565,100 L/(mole·cm)

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -4.11 at 25 °C
Strongest Folding *T_m*: 44.4 °C

Amount Of Oligo

100µM in 293µL IDTE Buffer pH 8.0

Shipped To

PEGGY MAIORANO
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942509

Customer No. 396673 PO No. Credit Card

Oligo Base Types

DNA Bases Quantity
58

Modifications and Services

LabReady (Normalized to 100µM in IDTE pH 8.0) Quantity
1
Standard Desalting 1

Disclaimer

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Mfg. ID 400260956



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

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*The *T_m* shown takes no account of Mg²⁺ and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate *T_m* for your reaction conditions.