INTEGRATED DNA TECHNOLOGIES

OLIGONUCLEOTIDE SPECIFICATION SHEET

19-Feb-2024

Order No. **20087830**

Ref. No. **472457472**

Sequence - V2_S24Red_top — 25 nmole DNA Oligo, 60 bases

5'- CGA CAA ATT ATT GAC ATT AAT CTT AAT TAA AAA TAA GAT ATT AAA TAT AAT TTT AAT AAG -3'

Properties

Tm (50mM NaCl):* 57.3 °C
GC Content: 13.3%
Molecular Weight: 18,500.2
nmoles/OD260: 1.6
ug/OD260: 29.2
Ext. Coefficient: 634,500 L/(mole·cm)

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -4.15 at 25 °C
Strongest Folding Tm: 36.8 °C

Amount Of Oligo

100µM in 225µL IDTE Buffer pH 8.0

Shipped To

ALYSSA FLYNN
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942083
Customer No. 620858 *PO No. Credit Card*

Oligo Base Types	Quantity
DNA bases	60

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 403978846

472457472 IDT
A.FLYNN
403978846 19-Feb-2024
V2_S24Red_top
5'- CGA CAA ATT ATT GAC ATT AAT CTT AAT
Tm=57.3°C MW=18,500.2
100µM in 225µL IDTE Buffer pH 8.0

472457472 IDT
A.FLYNN
403978846 19-Feb-2024
V2_S24Red_top
5'- CGA CAA ATT ATT GAC ATT AAT CTT AAT
Tm=57.3°C MW=18,500.2
100µM in 225µL IDTE Buffer pH 8.0

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 Tm shown takes no account of Mg^{2+} and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate Tm for your reaction conditions.

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INTEGRATED DNA TECHNOLOGIES

OLIGONUCLEOTIDE SPECIFICATION SHEET

19-Feb-2024

Order No. **20087830**

Ref. No. **472457473**

Sequence - V2_S24Red_bot — 25 nmole DNA Oligo, 60 bases

5'- CCG CCT TAT TAA AAT TAT ATT TAA TAT CTT ATT TTT AAT TAA GAT TAA TGT CAA TAA TTT -3'

Properties

Tm (50mM NaCl):* 58.5 °C
GC Content: 15.0%

Molecular Weight: 18,373
nmoles/OD260: 1.7
ug/OD260: 30.8
Ext. Coefficient: 596,900 L/(mole·cm)

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -2.62 at 25 °C
Strongest Folding Tm: 34.9 °C

Amount Of Oligo

100µM in 271µL IDTE Buffer pH 8.0

Shipped To

ALYSSA FLYNN
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942083
Customer No. 620858 *PO No. Credit Card*

Oligo Base Types	Quantity
DNA bases	60

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 403978845

472457473 IDT
A.FLYNN
403978845 19-Feb-2024
V2_S24Red_bot
5'- CCG CCT TAT TAA AAT TAT ATT TAA TAT
Tm=58.5°C MW=18,373.0
100µM in 271µL IDTE Buffer pH 8.0

472457473 IDT
A.FLYNN
403978845 19-Feb-2024
V2_S24Red_bot
5'- CCG CCT TAT TAA AAT TAT ATT TAA TAT
Tm=58.5°C MW=18,373.0
100µM in 271µL IDTE Buffer pH 8.0

INSTRUCTIONS

•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 Tm shown takes no account of Mg^{2+} and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate Tm for your reaction conditions.

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INTEGRATED DNA TECHNOLOGIES

OLIGONUCLEOTIDE SPECIFICATION SHEET

19-Feb-2024

Order No. **20087830**

Ref. No. **472457474**

Sequence - V2_S24Yellow_top — 25 nmole DNA Oligo, 60 bases

5'- CGA CTG TTA AAC CTG GCT TGC GCA TGC TTG TAT AGA CAA GTA TAT GTA TCT ACG TAA ACA -3'

Properties

Tm (50mM NaCl):* 66.8 °C
GC Content: 40.0%
Molecular Weight: 18,472
nmoles/OD260: 1.7
ug/OD260: 31.4
Ext. Coefficient: 587,600 L/(mole·cm)

Amount Of Oligo

100µM in 217µL IDTE Buffer pH 8.0

Shipped To

ALYSSA FLYNN
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942083
Customer No. 620858 *PO No. Credit Card*

Secondary Structure Calculations

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

Oligo Base Types	Quantity
DNA bases	60

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 403978844

472457474 IDT
A.FLYNN
403978844 19-Feb-2024
V2_S24Yellow_top
5'- CGA CTG TTA AAC CTG GCT TGC GCA TGC
Tm=66.8°C MW=18,472.0
100µM in 217µL IDTE Buffer pH 8.0

472457474 IDT
A.FLYNN
403978844 19-Feb-2024
V2_S24Yellow_top
5'- CGA CTG TTA AAC CTG GCT TGC GCA TGC
Tm=66.8°C MW=18,472.0
100µM in 217µL IDTE Buffer pH 8.0

INSTRUCTIONS

•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 Tm shown takes no account of Mg^{2+} and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate Tm for your reaction conditions.

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INTEGRATED DNA TECHNOLOGIES

OLIGONUCLEOTIDE SPECIFICATION SHEET

19-Feb-2024

Order No. **20087830**

Ref. No. **472457475**

Sequence - V2_S24Yellow_bot — 25 nmole DNA Oligo, 60 bases

5'- CCG CTG TTT ACG TAG ATA CAT ATA CTT GTC TAT ACA AGC ATG CGC AAG CCA GGT TTA ACA -3'

Properties

Tm (50mM NaCl):* 67.6 °C
GC Content: 41.7%

Molecular Weight: 18,417
nmoles/OD260: 1.7
ug/OD260: 31.5
Ext. Coefficient: 585,000 L/(mole·cm)

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -5.65 at 25 °C
Strongest Folding Tm: 53.0 °C

Amount Of Oligo

100µM in 203µL IDTE Buffer pH 8.0

Shipped To

ALYSSA FLYNN
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942083
Customer No. 620858 *PO No. Credit Card*

Oligo Base Types	Quantity
DNA bases	60

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 403978843

472457475 IDT
A.FLYNN
403978843 19-Feb-2024
V2_S24Yellow_bot
5'-CCG CTG TTT ACG TAG ATA CAT ATA CTT
Tm=67.6°C MW=18,417.0
100µM in 203µL IDTE Buffer pH 8.0

472457475 IDT
A.FLYNN
403978843 19-Feb-2024
V2_S24Yellow_bot
5'-CCG CTG TTT ACG TAG ATA CAT ATA CTT
Tm=67.6°C MW=18,417.0
100µM in 203µL IDTE Buffer pH 8.0

INSTRUCTIONS

•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 Tm shown takes no account of Mg^{2+} and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate Tm for your reaction conditions.

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INTEGRATED DNA TECHNOLOGIES

OLIGONUCLEOTIDE SPECIFICATION SHEET

19-Feb-2024

Order No. **20087830**

Ref. No. **472457468**

Sequence - V2_S24Blue_top — 25 nmole DNA Oligo, 60 bases

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

Properties

Tm (50mM NaCl):* 59.2 °C
GC Content: 16.7%

Molecular Weight: 18,460.1
nmoles/OD260: 1.7
ug/OD260: 31.0
Ext. Coefficient: 595,700 L/(mole·cm)

Amount Of Oligo

100µM in 208µL IDTE Buffer pH 8.0

Shipped To

ALYSSA FLYNN
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942083
Customer No. 620858 *PO No. Credit Card*

Secondary Structure Calculations

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

Oligo Base Types	Quantity
DNA bases	60
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 403978850

472457468 IDT
A.FLYNN
403978850 19-Feb-2024
V2_S24Blue_top
5'- CGA CTT CTT TTA ATG TTT TTT TAA TTG A
Tm=59.2°C MW=18,460.1
100µM in 208µL IDTE Buffer pH 8.0

472457468 IDT
A.FLYNN
403978850 19-Feb-2024
V2_S24Blue_top
5'- CGA CTT CTT TTA ATG TTT TTT TAA TTG A
Tm=59.2°C MW=18,460.1
100µM in 208µL IDTE Buffer pH 8.0

INSTRUCTIONS

•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 Tm shown takes no account of Mg^{2+} and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate Tm for your reaction conditions.

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INTEGRATED DNA TECHNOLOGIES

OLIGONUCLEOTIDE SPECIFICATION SHEET

19-Feb-2024

Order No. **20087830**

Ref. No. **472457469**

Sequence - V2_S24Blue_bot — 25 nmole DNA Oligo, 60 bases

5'- CCG CAC ACT TTA AAT ATA TGT TAT AAT CTT AAA TAT TCA ATT AAA AAA ACA TTA AAA GAA -3'

Properties

Tm (50mM NaCl):* 60.1 °C
GC Content: 18.3%

Molecular Weight: 18,415.1
nmoles/OD260: 1.6
ug/OD260: 29.5
Ext. Coefficient: 624,200 L/(mole·cm)

Secondary Structure Calculations

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

Amount Of Oligo

100µM in 218µL IDTE Buffer pH 8.0

Shipped To

ALYSSA FLYNN
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942083
Customer No. 620858 *PO No. Credit Card*

Oligo Base Types	Quantity
DNA bases	60

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 403978849

472457469 IDT
A.FLYNN
403978849 19-Feb-2024
V2_S24Blue_bot
5'- CCG CAC ACT TTA AAT ATA TGT TAT AAT
Tm=60.1°C MW=18,415.1
100µM in 218µL IDTE Buffer pH 8.0

472457469 IDT
A.FLYNN
403978849 19-Feb-2024
V2_S24Blue_bot
5'- CCG CAC ACT TTA AAT ATA TGT TAT AAT
Tm=60.1°C MW=18,415.1
100µM in 218µL IDTE Buffer pH 8.0

INSTRUCTIONS

•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 Tm shown takes no account of Mg^{2+} and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate Tm for your reaction conditions.

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INTEGRATED DNA TECHNOLOGIES

OLIGONUCLEOTIDE SPECIFICATION SHEET

19-Feb-2024

Order No. **20087830**

Ref. No. **472457470**

Sequence - V2_S24Green_top — 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

Tm (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 203µL IDTE Buffer pH 8.0

Shipped To

ALYSSA FLYNN
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942083
Customer No. 620858 *PO No. Credit Card*

Secondary Structure Calculations

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

Oligo Base Types	Quantity
DNA bases	59

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 403978848

472457470 IDT
A.FLYNN
403978848 19-Feb-2024
V2_S24Green_top
5'- CGA CAG GGA AGA AAG TGG CTA TTT TAT
Tm=64.3°C MW=18,300.9
100µM in 203µL IDTE Buffer pH 8.0

472457470 IDT
A.FLYNN
403978848 19-Feb-2024
V2_S24Green_top
5'- CGA CAG GGA AGA AAG TGG CTA TTT TAT
Tm=64.3°C MW=18,300.9
100µM in 203µL IDTE Buffer pH 8.0

INSTRUCTIONS

•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 Tm shown takes no account of Mg^{2+} and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate Tm for your reaction conditions.

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INTEGRATED DNA TECHNOLOGIES

OLIGONUCLEOTIDE SPECIFICATION SHEET

19-Feb-2024

Order No. **20087830**

Ref. No. **472457471**

Sequence - V2_S24Green_bot — 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

Tm (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 Tm: 41.4 °C

Amount Of Oligo

100µM in 203µL IDTE Buffer pH 8.0

Shipped To

ALYSSA FLYNN
DAVIDSON COLLEGE
209 RIDGE RD
DAVIDSON, NC 28035-0407
USA
7048942083
Customer No. 620858 *PO No. Credit Card*

Oligo Base Types	Quantity
DNA bases	59

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

Disclaimer

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Mfg. ID 403978847

472457471 IDT
A.FLYNN
403978847 19-Feb-2024
V2_S24Green_bot
5'- CCG CTT ATC TAT TAT ACC ACA AAA GGG
Tm=65.0°C MW=17,965.7
100µM in 203µL IDTE Buffer pH 8.0

472457471 IDT
A.FLYNN
403978847 19-Feb-2024
V2_S24Green_bot
5'- CCG CTT ATC TAT TAT ACC ACA AAA GGG
Tm=65.0°C MW=17,965.7
100µM in 203µL IDTE Buffer pH 8.0

INSTRUCTIONS

•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 Tm shown takes no account of Mg^{2+} and dNTP concentrations. Use the OligoAnalyzer® Program at www.idtdna.com/scitools to calculate accurate Tm for your reaction conditions.

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