INTEGRATED DNA TECHNOLOGIES

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FOR THE GENOMICS AGE

SPECIFICATION SHEET www.idtdna.com

07-Jul-2020

Order No. **16909171**

Ref. No. **275947730**

Sequence - Plac_T 25 nmole DNA Oligo, 60 bases

5'- CGA CCG TTG ACA CCA TCG AAT GTA TAC CAA CCT TTC GCG GTA TGG ACG TCG AGC GCC CGG -3'

Properties

Tm (50mM NaCl):* 72.8 °C
GC Content: 58.3%
Molecular Weight: 18,421.9
nmoles/OD260: 1.8
ug/OD260: 32.5
Ext. Coefficient: 566,100 L/(mole·cm)

Amount Of Oligo

100µM in 181µL IDTE Buffer pH 8.0

Shipped To

MALCOLM CAMPBELL
DAVIDSON COLLEGE
209 RIDGE ROAD
DAVIDSON, NC 28035
USA
7048942692
Customer No. 256840 *PO No. Pgel*

Secondary Structure Calculations

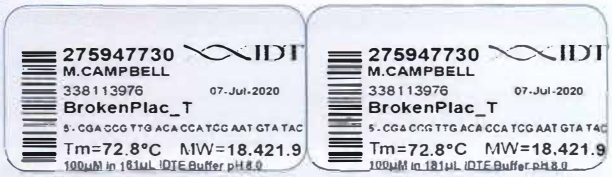
Lowest folding free energy (kcal/mole): -4.04 at 25 °C
Strongest Folding Tm: 38.2 °C

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 338113976 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 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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SPECIFICATION SHEET www.idtdna.com

07-Jul-2020

Order No. **16909171**

Ref. No. **275947731**

Sequence - Plac_B

25 nmole DNA Oligo, 60 bases

5'- CCG CCC GGG CGC TCG ACG TCC ATA CCG CGA AAG GTT GGT ATA CAT TCG ATG GTG TCA ACG -3'

Properties

Tm (50mM NaCl):* 73.6 °C
GC Content: 60.0%
Molecular Weight: 18,478
nmoles/OD260: 1.8
ug/OD260: 32.6
Ext. Coefficient: 566,100 L/(mole·cm)

Amount Of Oligo

100µM in 216µL IDTE Buffer pH 8.0

Shipped To

MALCOLM CAMPBELL
DAVIDSON COLLEGE
209 RIDGE ROAD
DAVIDSON, NC 28035
USA
7048942692
Customer No. 256840 *PO No. Pgel*

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -5.70 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

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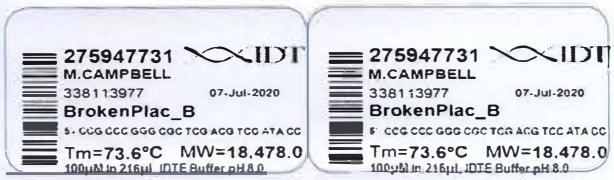
Mfg. ID 338113977 Labels - Peel here



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.

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07-Jul-2020

Order No. **16909171**

Ref. No. **275947732**

Sequence - OmpC_T

250 nmole DNA Oligo, 99 bases

5'- CGA CCA TTT TGA AAC ATC TAT AGC GAT AAA GTC CCA CGA GGC CAA GGG CGC TGA TCA TAT TCG TGG GTT CGT ATT CTG CAT TTT TGA GTC TCC GGG ACT -3'

Properties

Tm (50mM NaCl):* 71.8 °C
GC Content: 47.5%
Molecular Weight: 30,515.8
nmoles/OD260: 1.1
ug/OD260: 32.4
Ext. Coefficient: 942,800 L/(mole·cm)

Amount Of Oligo

100µM in 848µL IDTE Buffer pH 8.0

Shipped To

MALCOLM CAMPBELL
DAVIDSON COLLEGE
209 RIDGE ROAD
DAVIDSON, NC 28035
USA
7048942692
Customer No. 256840 *PO No. Pgel*

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -8.25 at 25 °C
Strongest Folding Tm: 54.3 °C

Oligo Base Types	Quantity
DNA Bases	99

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

Disclaimer

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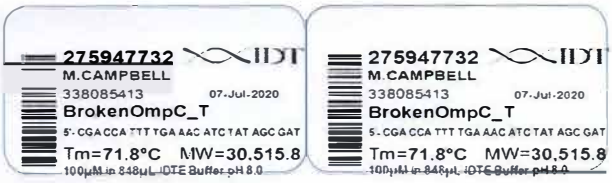
Mfg. ID 338085413 Labels - Peel here



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 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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07-Jul-2020

Order No. **16909171**

Ref. No. **275947733**

Sequence - OmpC_B 250 nmole DNA Oligo, 99 bases

5'- CCG CAG TCC CGG AGA CTC AAA AAT GCA GAA TAC GAA CCC ACG AAT ATG ATC AGC GCC CTT GGC CTC GTG GGA CTT TAT CGC TAT AGA TGT TTC AAA ATG -3'

Properties

Tm (50mM NaCl):* 71.8 °C
GC Content: 48.5%
Molecular Weight: 30,474.8
nmoles/OD260: 1.0
ug/OD260: 31.8
Ext. Coefficient: 957,500 L/(mole·cm)

Amount Of Oligo

100µM in 963µL IDTE Buffer pH 8.0

Shipped To

MALCOLM CAMPBELL
DAVIDSON COLLEGE
209 RIDGE ROAD
DAVIDSON, NC 28035
USA
7048942692
Customer No. 256840 *PO No. Pgel*

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -8.79 at 25 °C
Strongest Folding Tm: 50.4 °C

Oligo Base Types	Quantity
DNA Bases	99

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

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Mfg. ID33808541 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 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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07-Jul-2020

Order No. **16909171**

Ref. No. **275947738**

Sequence - Tet_T

25 nmole DNA Oligo, 58 bases

5'- CGA CTC CCT ATC AGT GAT AGA GAG GAG TCT CCC TAT CAG TGA TAG ATC GCA GGA GCA C -3'

Properties

Tm (50mM NaCl):* 68.8 °C
GC Content: 51.7%
Molecular Weight: 17,875.6
nmoles/OD260: 1.8
ug/OD260: 31.3
Ext. Coefficient: 570,700 L/(mole·cm)

Amount Of Oligo

100µM in 211µL IDTE Buffer pH 8.0

Shipped To

MALCOLM CAMPBELL
DAVIDSON COLLEGE
209 RIDGE ROAD
DAVIDSON, NC 28035
USA
7048942692
Customer No. 256840 *PO No. Pgel*

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -10.09 at 25 °
Strongest Folding Tm: *50.7* °C

Oligo Base Types	Quantity
DNA Bases	58

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

Disclaimer

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Mfg. ID 338113053 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 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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07-Jul-2020

Order No. **16909171**

Ref. No. **275947739**

Sequence - Tet_B 25 nmole DNA Oligo, 58 bases

5'- CCG CGT GCT CCT GCG ATC TAT CAC TGA TAG GGA GAC TCC TCT CTA TCA CTG ATA GGG A -3'

Properties

Tm (50mM NaCl):* 70.2 °C
GC Content: 53.4%
Molecular Weight: 17,784.5
nmoles/OD260: 1.8
ug/OD260: 32.7
Ext. Coefficient: 543,700 L/(mole·cm)

Amount Of Oligo

100µM in 234µL IDTE Buffer pH 8.0

Shipped To

MALCOLM CAMPBELL
DAVIDSON COLLEGE
209 RIDGE ROAD
DAVIDSON, NC 28035
USA
7048942692
Customer No. 256840 *PO No. Pgel*

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -10.11 at 25 °
Strongest Folding Tm: 49.1 °C

Oligo Base Types	Quantity
DNA Bases	58

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

Disclaimer

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Mfg. ID33811305 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 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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07-Jul-2020

Order No. **16909171**

Ref. No. **275947740**

Sequence - OspA_T 1 00 nmole DNA Oligo, 64 bases

5'- CGA CTT TTA TTT TTT TTC AAT TTT CTA TGG TCC GTT TGT TAA TCT TAT AAG TGC CAT ATA CTT G -3'

Properties

Tm (50mM NaCl):* 63.6 °C
GC Content: 28.1%
Molecular Weight: 19,573.7
nmoles/OD260: 1.7
ug/OD260: 32.9
Ext. Coefficient: 594,600 L/(mole·cm)

Amount Of Oligo

100µM in 656µL IDTE Buffer pH 8.0

Shipped To

MALCOLM CAMPBELL
DAVIDSON COLLEGE
209 RIDGE ROAD
DAVIDSON, NC 28035
USA
7048942692
Customer No. 256840 *PO No. Pgel*

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -0.99 at 25 °C
Strongest Folding Tm: 34.3 °C

Oligo Base Types	Quantity
DNA Bases	64

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

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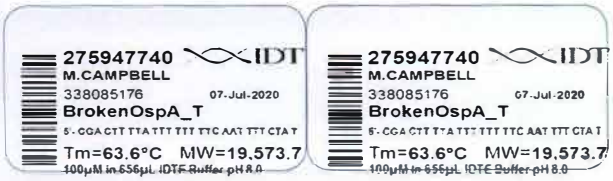
Mfg. ID 338085176 Labels - Peel here



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.

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07-Jul-2020

Order No. **16909171**

Ref. No. **275947741**

Sequence - OspA_B 100 nmole DNA Oligo, 64 bases

5'- CCG CCA AGT ATA TGG CAC TTA TAA GAT TAA CAA ACG GAC CAT AGA AAA TTG AAA AAA AAT AAA A -3'

Properties

Tm (50mM NaCl):* 64.8 °C
GC Content: 29.7%
Molecular Weight: 19,779
nmoles/OD260: 1.5
ug/OD260: 29.2
Ext. Coefficient: 676,500 L/(mole·cm)

Amount Of Oligo

100µM in 687µL IDTE Buffer pH 8.0

Shipped To

MALCOLM CAMPBELL
DAVIDSON COLLEGE
209 RIDGE ROAD
DAVIDSON, NC 28035
USA
7048942692
Customer No. 256840 *PO No. Pgel*

Secondary Structure Calculations

Lowest folding free energy (kcal/mole): -3.89 at 25 °C
Strongest Folding Tm: 43.2 °C

Oligo Base Types	Quantity
DNA Bases	64

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

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Mfg. ID338085177 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 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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