Testing rmelting

2019-01-16

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Basic usage

[1] "-S CAGTGAGACAGCAATGGTCG -H dnadna -P 2e-06 -E Na=1 -T 60"

Sequence	CAGTGAGACAGCAATGGTCG
Complementary.sequence	GTCACTCTGTCGTTACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-159000.00000
Entropycal.	-430.00000
EnthalpyJ.	-664620.00000
EntropyJ.	-1797.40000
Melting.temperatureC.	73.35168

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Approximate method

[1] "-S TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACGAGACGTTGATTGGATTTAACCATAG -H dnadna -P 2e-06 -E Na=1 -T 60"

Sequence	${ m TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACGAGACGTTGATTGGATTTAACCACACACA$
Complementary.sequence	A GATTACACGACAATCTACATAGGTCTCTATCGGCTCGTATTTGAAGTTGTGTGCTCTGCAACTAACCTAAATTGGTAAGTTGTGTGTG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	wetdna91
Nearest.neighbour.model	NA
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05

۲	4	

Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

```
Enthalpy..cal. NA
Entropy..cal. NA
Enthalpy..J. NA
Entropy..J. NA
Melting.temperature..C. 87.82455
```

[1] "-S TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCATAG -H dnadna -P 2e-06 -E Na=1 -T 60 -am wetdna91"

Sequence	${\tt TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCACACGAGACGTTGATTGGATTTAACCACACGAGACGTTGATTGGATTTAACCACACACA$
Complementary.sequence	A GATTACACGACAATCTACATAGGTCTCTATCGGCTCGTATTTGAAGTTGTGTGCTCTGCAACTAACCTAAATTGGT.
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	wetdna91
Nearest.neighbour.model	NA
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	A

```
Enthalpy..cal. NA
Entropy..cal. NA
Enthalpy..J. NA
Entropy..J. NA
Melting.temperature..C. 87.82455
```

[1] "-S TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCATAG -H dnadna -P 2e-06 -E Na=1 -T 60 -am ahs01"

Sequence	${\tt TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCATAGATGTGCTGATTGGATTTAACCATAGATGTAGATGTAGATGTAGATGTAACCATAGATGTAGATGTAACCATAGATGTAGATGTAGATGTAACCATAGATGTAGATGTAACCATAGATGTAGATGTAACCATAGATGTAGATGTAGATGTAACCATAGATGTAGATGTAACCATAGATGTAGATGTAGATGTAACCATAGATGTAGATGTAGATGTAACCATAGATGTAGATGTAGATGTAACCATAGATGTAGATGTAGATGTAACCATAGATGTAGATGTAGATGTAGATGTAGATGTAACCATAGATGTAGATGTAGATGTAGATGTAGATGTAGATGTAGATGTAGATGTAGATGTAACCATAGATGAT$
Complementary.sequence	A GATTACACGACAATCTACATAGGTCTCTATCGGCTCGTATTTGAAGTTGTGTGCTCTTGCAACTAACCTAAATTGGTAAGTTACACGACAACTAACCTAAATTGGTAAGTTGTGTGTG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	ahs01
Nearest.neighbour.model	NA
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	A

Enthalpy..cal. NA
Entropy..cal. NA
Enthalpy..J. NA
Entropy..J. NA
Melting.temperature..C. 87.325

[1] "-S TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCATAG -H dnadna -P 2e-06 -E Na=1 -T 60 -am che93"

TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACGGGGAGACGTTGATTGGATTTAACCA
A GATTACACGACAATCTACATAGGTCTCTATCGGCTCGTATTTGAAGTTGTGTGCTCTGCAACTAACCTAAATTGGTAACTAAC
2e-06
dnadna
1
0
0
0
0
0
0
FALSE
4

che93
NA
NA
allsanpey
allsanpey
bom00
sugdna02
sugdna02

J

Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	A

Enthalpycal.	NA
Entropycal.	NA
EnthalpyJ.	NA
EntropyJ.	NA
Melting.temperatureC.	77.575

[1] "-S TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACGAGACGTTGATTGGATTTAACCATAG -H dnadna -P 2e-06 -E Na=1 -T 60 -am che93corr

Sequence	${\tt TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCACCACCACCACCACCACCACCACCACCACCAC$
Complementary.sequence	A GATTACACGACAATCTACATAGGTCTCTATCGGCTCGTATTTGAAGTTGTGTGCTCTGCAACTAACCTAAATTGGTAAGTTACACGAACTAACCTAAATTGGTAAGTTACACGAACTAACCTAAATTGGTAAGTTACACGAACTAACCTAAATTGGTAAGTTACACGAACTAACCTAAATTGGTAAGTTACACGAACTAACCTAAATTGGTAAGTTACACGAACTAACCTAAATTGGTAAGTTACACGAACTAACCTAAATTGGTAAGTTACACGAACTAACCTAAATTGGTAAGTTACACGAACTAACCTAAACTAACCTAAATTGGTAAGTTACACGAACTAACCTAAATTGGTAACACACAACAACAAACA
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0

dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	che93corr
Nearest.neighbour.model	NA
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	$\sin 04$
CNG.repeats.model	NA
Inosine.bases.model	$\sin 05$
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na. equivalence. correction. method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	A

Enthalpycal.	NA
Entropycal.	NA
EnthalpyJ.	NA
EntropyJ.	NA
Melting.temperatureC.	79.0125

[1] "-S TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCATAG -H dnadna -P 2e-06 -E Na=1 -T 60 -am schdot"

Sequence	${ m TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACGAGACGTTGATTGGATTTAACCACACACA$
Complementary.sequence	AGATTACACGACAATCTACATAGGTCTCTATCGGCTCGTATTTGAAGTTGTGTGCTCTGCAACTAACCTAAATTGGTAGGTA
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	schdot
Nearest.neighbour.model	NA
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05

Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	A

Enthalpy..cal. NA
Entropy..cal. NA
Enthalpy..J. NA
Entropy..J. NA
Melting.temperature..C. 89.4625

[1] "-S TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCATAG -H dnadna -P 2e-06 -E Na=1 -T 60 -am owe69"

Sequence	${\tt TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACGAGACGTTGATTGGATTTAACCACCACGAGACGTTGATTGGATTTAACCACCACCACCACCACCACCACCACCACCACCAC$
Complementary.sequence	A GATTACACGACAATCTACATAGGTCTCTATCGGCTCGTATTTGAAGTTGTGTGCTCTGCAACTAACCTAAATTGGTATTGTATTGTGTGTG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	owe69
Nearest.neighbour.model	NA
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	A

Enthalpycal.	NA
Entropycal.	NA
EnthalpyJ.	NA
EntropyJ.	NA
Melting.temperatureC.	100.96

[1] "-S TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCATAG -H dnadna -P 2e-06 -E Na=1 -T 60 -am san98"

Sequence	${\tt TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCACCACCACCACCACCACCACCACCACCACCAC$
Complementary.sequence	$A {\sf GATTACACGACAATCTACATAGGTCTCTATCGGCTCGTATTTGAAGTTGTGTGCTCTGCAACTAACCTAAATTGGTAGGTA$
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	san98
Nearest.neighbour.model	NA
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	A

Enthalpy..cal. NA
Entropy..cal. NA
Enthalpy..J. NA
Entropy..J. NA
Melting.temperature..C. 86.9

[1] "-S UUAAUCUCCGUCAUCUUUAAGCCGUGGAGAGCUGUAGACUGAACAGGGGUAAGCGGAGGCACGUAGGAUUCACAUCAU -H dnadna -P 2e-06 -E Na=1 -T 60"

Sequence	${ m UUAAUCUCCGUCAUCUUUAAGCCGUGGAGAGACUGUAGACUUGAACAGGGGUAAGCGGAGGCACGUAGGAUUCAGGAUUCAGGAUUCAGGAUUCAGGAUUCAGGAUUCAGGAUUCAGGAUCGUAGGAUUCAGGAUUCAGGAUUCAGGAUUCAGGAUUCAGGAUUCAGGAUUCAGGAUUCAGGAUCGUAGGAUUCAGGAUUCAGGAUUCAGGAUCGAACGAUCGAAGGAGGAGGAGGAGGAGGAGAGAGA$
Complementary.sequence	AATTAGAGGCAGTAGAAATTCGGCACCTCTCTGACATCTGAACTTGTCCCCATTCGCCTCCGTGCATCCTAAGTGTAGTA
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	wetdna91
Nearest.neighbour.model	NA
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04

K.concentration..M. dNTP.concentration..M.

Single.bulge.loop.model	tan04
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	NA
Entropycal.	NA
EnthalpyJ.	NA
EntropyJ.	NA
Melting.temperatureC.	90.89955

0

0

[1] "-S UUAAUCUCCGUCAUCUUUAAGCCGUGGAGACUGUAGACUGAACAGGGGUAAGCGGAGGCACGUAGGAUUCACAUCAU -H dnadna -P 2e-06 -E Na=1 -T 60 -am wetrna91"

Sequence	UUAAUCUCCGUCAUCUUUAAGCCGUGGAGAGACUGUAGACUUGAACAGGGGUAAGCGGAGGCACGUAGGAUUCAC
Complementary.sequence	AATTAGAGGCAGTAGAAATTCGGCACCTCTCTGACATCTGAACTTGTCCCCATTCGCCTCCGTGCATCCTAAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTA
Nucleic.acid.concentrationM.	$2\mathrm{e} ext{-}06$
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0

DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

wetrna91
NA
NA
allsanpey
allsanpey
bom00
sugdna02
sugdna02
san04
$\tan 04$
san04
NA
san05
sug01
asa05
mct04
NA
ahs01
ahs01
bla96
A

Enthalpycal.	NA
Entropycal.	NA
EnthalpyJ.	NA
EntropyJ.	NA
Melting.temperatureC.	101.1745

[1] "-S TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACGAGACGTTGATTGGATTTAACCATAG -H dnarna -P 2e-06 -E Na=1 -T 60"

${\tt TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCACCACCACCACCACCACCACCACCACCACCAC$
AGAUUACACGACAAUCUACAUAGGUCUCUAUCGGCUCGUAUUUGAAGUUGUGUGCUCUGCAACUAACCUAAAUUG
2e-06
dnarna
1
0
0
0
0
0
0
FALSE
4

Approximative.formula	wetdnarna91
Nearest.neighbour.model	NA
GU.model	NA
Single.mismatch.model	wat11
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA

Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	NA
Entropycal.	NA
EnthalpyJ.	NA
EntropyJ.	NA
Melting.temperatureC.	88.92455

[1] "-S TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCATAG -H dnarna -P 2e-06 -E Na=1 -T 60 -am wetdnarna

Sequence	${\tt TCTAATGTGCTGTTAGATGTATCCAGAGATAGCCGAGCATAAACTTCAACACACGAGACGTTGATTGGATTTAACCACCACGAGACGTTGATTGGATTTAACCACCACCACGAGACGTTGATTGGATTTAACCACCACCACCACCACCACCACCACCACCACCAC$
Complementary.sequence	AGAUUACACGACAAUCUACAUAGGUCUCUAUCGGCUCGUAUUUGAAGUUGUGUGCUCUGCAACUAACCUAAAUUG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Nearest.neighbour.model	NA
GU.model	NA
Single.mismatch.model	wat11
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	A

Enthalpycal.	NA
Entropycal.	NA
EnthalpyJ.	NA
EntropyJ.	NA
Melting.temperatureC.	88.92455

Nearest neighbour methods

Perfectly matching sequences

No Self-Complementarity

[1] "-S CAGTGAGACAGCAATGGTCG -H dnadna -P 2e-06 -E Na=1 -T 60"

Sequence	CAGTGAGACAGCAATGGTCG
Complementary.sequence	GTCACTCTGTCGTTACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-159000.00000
Entropycal.	-430.00000
EnthalpyJ.	-664620.00000
EntropyJ.	-1797.40000

[1] "-S CAGTGAGACAGCAATGGTCG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn all97"

Sequence	CAGTGAGACAGCAATGGTCG
Complementary.sequence	GTCACTCTGTCGTTACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

D (1 1 1	150000 00000
Enthalpycal.	-159000.00000
Entropycal.	-430.00000
EnthalpyJ.	-664620.00000
EntropyJ.	-1797.40000
Melting.temperatureC.	73.35168

[1] "-S CAGTGAGACAGCAATGGTCG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn bre86"

Sequence	CAGTGAGACAGCAATGGTCG
Complementary.sequence	GTCACTCTGTCGTTACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	bre86
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpycal.	-140400.0000
Entropycal.	-365.1000
EnthalpyJ.	-586872.0000
EntropyJ.	-1526.1180
Melting.temperatureC.	83.2203

```
# Nearest neighbour method - san04 (DNA/DNA: No Self-Complimentarity)
out <- melting(sequence = "CAGTGAGACAGCAATGGTCG", nucleic.acid.conc = 2e-06,</pre>
```

```
hybridisation.type = "dnadna", Na.conc = 1, method.nn = "san04")
```

[1] "-S CAGTGAGACAGCAATGGTCG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn san04"

Sequence	CAGTGAGACAGCAATGGTCG
Complementary.sequence	GTCACTCTGTCGTTACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Nearest.neighbour.model san04
GU.model NA
Single.mismatch.model allsanpey
Tandem.mismatch.model allsanpey
Single.dangling.end.model bom00
Double.dangling.end.model sugdna02
Long.dangling.end.model sugdna02
Internal.loop.model san04
Single.bulge.loop.model tan04
Long.bulge.loop.model san04
CNG.repeats.model NA
Inosine.bases.model san05
Hydroxyadenine.bases.model sug01
Azobenzenes.model asa05
Locked.nucleic.acids.model mct04
Ion.correction.method NA
Na.equivalence.correction.method ahs01
DMSO.correction.method ahs01
Formamide.correction.method bla96
Mode NN

Enthalpycal.	-158700.00000
Entropycal.	-429.20000
EnthalpyJ.	-663366.00000
EntropyJ.	-1794.05600
Melting.temperatureC.	73.30191

[1] "-S CAGTGAGACAGCAATGGTCG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn san96"

Sequence	CAGTGAGACAGCAATGGTCG
Complementary.sequence	GTCACTCTGTCGTTACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	san96
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpycal.	-147000.0000
Entropycal.	-392.5000
EnthalpyJ.	-614460.0000
EntropyJ.	-1640.6500
Melting.temperatureC.	75.7102

[1] "-S CAGTGAGACAGCAATGGTCG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn sug96"

Sequence	CAGTGAGACAGCAATGGTCG
Complementary.sequence	GTCACTCTGTCGTTACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	sug96
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpycal.	-161600.00000
Entropycal.	-431.10000
EnthalpyJ.	-675488.00000
EntropyJ.	-1801.99800
Melting.temperatureC.	78.17556

[1] "-S CAGTGAGACAGCAATGGTCG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn tan04"

Complementary.sequence	GTCACTCTGTCGTTACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	$\tan 04$
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpycal.	-167400.00000
Entropycal.	-457.10000
EnthalpyJ.	-699732.00000
EntropyJ.	-1910.67800
Melting.temperatureC.	71.31413

[1] "-S CAGUGAGACAGCAAUGGUCG -H rnarna -P 2e-06 -E Na=1 -T 60"

Sequence	CAGUGAGACAGCAAUGGUCG
Complementary.sequence	GUCACUCUGUCGUUACCAGC
Nucleic.acid.concentrationM.	2e-06

Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-206660.00000
Entropycal.	-545.30000
EnthalpyJ.	-863838.80000
EntropyJ.	-2279.35400
Melting.temperatureC.	86.77685

[1] "-S CAGUGAGACAGCAAUGGUCG -H rnarna -P 2e-06 -E Na=1 -T 60 -nn xia98"

Sequence Complementary.sequence	CAGUGAGACAGCAAUGGUCG GUCACUCUGUCGUUACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	1

Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpycal.	-206660.00000
Entropycal.	-545.30000
EnthalpyJ.	-863838.80000
EntropyJ.	-2279.35400
Melting.temperatureC.	86.77685

[1] "-S CAGUGAGACAGCAAUGGUCG -H rnarna -P 2e-06 -E Na=1 -T 60 -nn fre86"

Sequence	CAGUGAGACAGCAAUGGUCG
Complementary.sequence	GUCACUCUGUCGUUACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
0	0 0

K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	fre86
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpycal.	-192500.00000
Entropycal.	-510.40000
EnthalpyJ.	-804650.00000
EntropyJ.	-2133.47200
Melting.temperatureC.	83.81257

[1] "-S CAGUGAGACAGCAAUGGUCG -H mrnarna -P 2e-06 -E Na=1 -T 60"

Sequence	CAGUGAGACAGCAAUGGUCG
Complementary.sequence	GUCACUCUGUCGUUACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	mrnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0

DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	tur06
GU.model	NA
Single.mismatch.model	NA
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-180120.00000
Entropycal.	-455.10032
EnthalpyJ.	-752901.60000
EntropyJ.	-1902.31936
Melting.temperatureC.	99.01986

[1] "-S CAGUGAGACAGCAAUGGUCG -H mrnarna -P 2e-06 -E Na=1 -T 60 -nn tur06"

CAGUGAGACAGCAAUGGUCG
GUCACUCUGUCGUUACCAGC
2e-06
mrnarna
1
0
0
0
0
0
0

Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	tur06
GU.model	NA
Single.mismatch.model	NA
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpycal.	-180120.00000
Entropycal.	-455.10032
EnthalpyJ.	-752901.60000
EntropyJ.	-1902.31936
${\bf Melting. temperature C.}$	99.01986

[1] "-S CAGTGAGACAGCAATGGTCG -H dnarna -P 2e-06 -E Na=1 -T 60"

Sequence	CAGTGAGACAGCAATGGTCG
Complementary.sequence	GUCACUCUGUCGUUACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE

Correction.	C 1		
логгесьтон.	Tactor		

Approximative.formula	NA
Nearest.neighbour.model	sug95
GU.model	NA
Single.mismatch.model	wat11
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

-164000.00000
-453.60000
-685520.00000
-1896.04800
66.77049

[1] "-S CAGTGAGACAGCAATGGTCG -H dnarna -P 2e-06 -E Na=1 -T 60 -nn sug95"

Sequence	CAGTGAGACAGCAATGGTCG
Complementary.sequence	GUCACUCUGUCGUUACCAGC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	sug95
GU.model	NA
Single.mismatch.model	wat11
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpycal.	-164000.00000
Entropycal.	-453.60000
EnthalpyJ.	-685520.00000
EntropyJ.	-1896.04800
Melting.temperatureC.	66.77049

Self-Complementarity

[1] "-S CATATGGCCATATG -H dnadna -P 2e-06 -E Na=1 -T 60"

Sequence	CATATGGCCATATG
Complementary.sequence	GTATACCGGTATAC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-102800.00000
Entropycal.	-286.20000
EnthalpyJ.	-429704.00000
EntropyJ.	-1196.31600
Melting.temperatureC.	56.00644

[1] "-S CATATGGCCATATG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn all97"

Sequence	CATATGGCCATATG
Complementary.sequence	GTATACCGGTATAC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	all97

GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpy..cal. -102800.00000
Entropy..cal. -286.20000
Enthalpy..J. -429704.00000
Entropy..J. -1196.31600
Melting.temperature..C. 56.00644

[1] "-S CATATGGCCATATG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn bre86"

Sequence	CATATGGCCATATG
Complementary.sequence	GTATACCGGTATAC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula NA
Nearest.neighbour.model bre86
GU.model NA
Single.mismatch.model allsanpey

Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpy..cal. -102700.00000
Entropy..cal. -279.00000
Enthalpy..J. -429286.00000
Entropy..J. -1166.22000
Melting.temperature..C. 63.44605

[1] "-S CATATGGCCATATG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn san04"

Sequence	CATATGGCCATATG
Complementary.sequence	GTATACCGGTATAC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	san04
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00

Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

```
Enthalpy..cal. -102800.00000
Entropy..cal. -284.50000
Enthalpy..J. -429704.00000
Entropy..J. -1189.21000
Melting.temperature..C. 57.80792
```

[1] "-S CATATGGCCATATG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn san96"

Sequence	CATATGGCCATATG
Complementary.sequence	GTATACCGGTATAC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	san96
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02

Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

```
Enthalpy..cal. -92700.0000
Entropy..cal. -256.3000
Enthalpy..J. -387486.0000
Entropy..J. -1071.3340
Melting.temperature..C. 55.0921
```

[1] "-S CATATGGCCATATG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn sug96"

Sequence	CATATGGCCATATG
Complementary.sequence	GTATACCGGTATAC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	sug96
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$

Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpy..cal. -100100.00000
Entropy..cal. -275.20000
Enthalpy..J. -418418.00000
Entropy..J. -1150.33600
Melting.temperature..C. 59.06213

[1] "-S CATATGGCCATATG -H dnadna -P 2e-06 -E Na=1 -T 60 -nn tan04"

Sequence	CATATGGCCATATG
Complementary.sequence	GTATACCGGTATAC
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	$\tan 04$
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA

Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpy..cal. -106900.00000 Entropy..cal. -299.00000 Enthalpy..J. -446842.00000 Entropy..J. -1249.82000 Melting.temperature..C. 55.65824

[1] "-S AUGUACAU -H rnarna -P 2e-06 -E Na=1 -T 60"

Sequence	AUGUACAU
Complementary.sequence	UACAUGUA
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
* *	

Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpy..cal. -59080.00000
Entropy..cal. -168.60000
Enthalpy..J. -246954.40000
Entropy..J. -704.74800
Melting.temperature..C. 30.27015

[1] "-S AUGUACAU -H rnarna -P 2e-06 -E Na=1 -T 60 -nn xia98"

Sequence	AUGUACAU
Complementary.sequence	UACAUGUA
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA

Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

Enthalpy..cal. -59080.00000
Entropy..cal. -168.60000
Enthalpy..J. -246954.40000
Entropy..J. -704.74800
Melting.temperature..C. 30.27015

[1] "-S AUGUACAU -H rnarna -P 2e-06 -E Na=1 -T 60 -nn fre86"

Sequence	AUGUACAU
Complementary.sequence	UACAUGUA
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	fre86
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01

DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	NN

-60900.00000
-173.80000
-254562.00000
-726.48400
31.48175

GU wobble base pairs effect

[1] "-S CCAGCGUCCU -H rnarna -P 1e-04 -E Na=1 -T 60"

Sequence	CCAGCGUCCU
Complementary.sequence	GGUCGCAGGA
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01

DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpy..cal. -100210.00000
Entropy..cal. -263.10000
Enthalpy..J. -418877.80000
Entropy..J. -1099.75800
Melting.temperature..C. 79.46955

[1] "-S CCAGCGUCCU -H rnarna -P 1e-04 -E Na=1 -T 60 -GU ser12"

Sequence	CCAGCGUCCU
Complementary.sequence	GGUCGCAGGA
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96

Mode def

Enthalpycal.	-100210.00000
Entropycal.	-263.10000
EnthalpyJ.	-418877.80000
EntropyJ.	-1099.75800
Melting.temperatureC.	79.46955

[1] "-S CCAGCGUCCU -H rnarna -P 1e-04 -E Na=1 -T 60 -GU tur99"

Sequence	CCAGCGUCCU
Complementary.sequence	GGUCGCAGGA
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	tur99
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-100210.00000
Entropycal.	-263.10000
EnthalpyJ.	-418877.80000
EntropyJ.	-1099.75800
Melting.temperatureC.	79.46955

Single mismatch effect

[1] "-S CAACTTGATATTAATA -H dnadna -P 4e-04 -E Na=1 -C GTTGAACTCTAATTAT -T 60"

Sequence	CAACTTGATATTAATA
Complementary.sequence	GTTGAACTCTAATTAT
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpy..cal. -99400.00000 Entropy..cal. -287.40000 Enthalpy..J. -415492.00000 Entropy..J. -1201.33200 Melting.temperature..C. 51.97499

[1] "-S CAACTTGATATTAATA -H dnadna -P 4e-04 -E Na=1 -C GTTGAACTCTAATTAT -T 60 -sinMM allsanpey"

Sequence	CAACTTGATATTAATA
Complementary.sequence	GTTGAACTCTAATTAT
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpy..cal.

-99400.00000

Entropy..cal. -287.40000 Enthalpy..J. -415492.00000 Entropy..J. -1201.33200 Melting.temperature..C. 51.97499

[1] "-S GACAGGCUG -H rnarna -P 1e-04 -E Na=1 -C CUGUGCGAC -T 60"

Sequence	GACAGGCUG
Complementary.sequence	CUGUGCGAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-86470.00000
Entropycal.	-242.90000
EnthalpyJ.	-361444.60000

Entropy..J. -1015.32200 Melting.temperature..C. 54.40363

[1] "-S GACAGGCUG -H rnarna -P 1e-04 -E Na=1 -C CUGUGCGAC -T 60 -sinMM zno07"

Sequence	GACAGGCUG
Complementary.sequence	CUGUGCGAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-86470.00000
Entropycal.	-242.90000
EnthalpyJ.	-361444.60000
EntropyJ.	-1015.32200

```
Melting.temperature..C. 54.40363
```

[1] "-S CAGUACGUC -H rnarna -P 1e-04 -E Na=1 -C GUCGGGCAG -T 60 -sinMM zno08"

Sequence	CAGUACGUC
Complementary.sequence	GUCGGGCAG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno08
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-63680.00000
Entropycal.	-183.40000
EnthalpyJ.	-266182.40000
EntropyJ.	-766.61200

[1] "-S GACAGGCUG -H rnarna -P 1e-04 -E Na=1 -C CUGUGCGAC -T 60 -sinMM tur06"

Sequence	GACAGGCUG
Complementary.sequence	CUGUGCGAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	tur06
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-79870.00000
Entropycal.	-219.90000
EnthalpyJ.	-333856.60000
EntropyJ.	-919.18200

Melting.temperature..C. 58.27825

[1] "-S CCATAACTACC -H dnarna -P 1e-04 -E Na=1 -C GGUAAUGAUGG -T 60"

Sequence	CCATAACTACC
Complementary.sequence	GGUAAUGAUGG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	sug95
GU.model	NA
Single.mismatch.model	wat11
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-73600.00000
Entropycal.	-213.70000
EnthalpyJ.	-307648.00000
EntropyJ.	-893.26600
Melting.temperatureC.	40.32976

[1] "-S CCATAACTACC -H dnarna -P 1e-04 -E Na=1 -C GGUAAUGAUGG -T 60 -sinMM wat11"

Sequence	CCATAACTACC
Complementary.sequence	GGUAAUGAUGG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	sug95
GU.model	NA
Single.mismatch.model	wat11
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-73600.00000
Entropycal.	-213.70000
EnthalpyJ.	-307648.00000
EntropyJ.	-893.26600
Melting.temperatureC.	40.32976

Tandem mismatches effect

[1] "-S GACGTTGGAC -H dnadna -P 4e-04 -E Na=1 -C CTGCGGCCTG -T 60"

Sequence	GACGTTGGAC
Complementary.sequence	CTGCGGCCTG
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-54300.00000
Entropycal.	-149.60000
EnthalpyJ.	-226974.00000
EntropyJ.	-625.32800
Melting.temperatureC.	50.20175

[1] "-S GACGTTGGAC -H dnadna -P 4e-04 -E Na=1 -C CTGCGGCCTG -T 60"

Sequence	GACGTTGGAC
Complementary.sequence	CTGCGGCCTG
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-54300.00000
Entropycal.	-149.60000
EnthalpyJ.	-226974.00000
EntropyJ.	-625.32800
Melting.temperatureC.	50.20175

[1] "-S GAGCGGAG -H rnarna -P 1e-04 -E Na=1 -C CUCCACUC -T 60"

Sequence	GAGCGGAG
Complementary.sequence	CUCCACUC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-53530.00000
Entropycal.	-160.85000
EnthalpyJ.	-223755.40000
EntropyJ.	-672.35300

Single dangling end effect

[1] "-S -GTAGCTACA -H dnadna -P 4e-04 -E Na=1 -T 60"

Sequence	-GTAGCTACA
Complementary.sequence	ACATCGATG-
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-68200.00000
Entropycal.	-193.80000
EnthalpyJ.	-285076.00000

EntropyJ.	-810.08400
Melting.temperatureC.	52.58935

[1] "-S -GTAGCTACA -H dnadna -P 4e-04 -E Na=1 -T 60 -sinDE bom00"

Sequence	-GTAGCTACA
Complementary.sequence	ACATCGATG-
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	$\sin 05$
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-68200.00000
Entropycal.	-193.80000
EnthalpyJ.	-285076.00000
EntropyJ.	-810.08400

[1] "-S -GTAGCTACA -H dnadna -P 4e-04 -E Na=1 -T 60 -sinDE sugdna02"

Sequence	-GTAGCTACA
Complementary.sequence	ACATCGATG-
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	sugdna02
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-59400.00000
Entropycal.	-167.80000
EnthalpyJ.	-248292.00000
EntropyJ.	-701.40400

50.78548

[1] "-S -GGCGCUG -H rnarna -P 1e-04 -E Na=1 -T 60"

Sequence	GGCGCUG
Complementary.sequence	CCGCGAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-71100.0000
Entropycal.	-188.7000
EnthalpyJ.	-297198.0000
EntropyJ.	-788.7660
Melting.temperatureC.	65.7647

[1] "-S -GGCGCUG -H rnarna -P 1e-04 -E Na=1 -T 60 -sinDE ser08"

Sequence	GGCGCUG
Complementary.sequence	CCGCGAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-71100.0000
Entropycal.	-188.7000
EnthalpyJ.	-297198.0000
EntropyJ.	-788.7660
Melting.temperatureC.	65.7647

[1] "-S -GGCGCUG -H rnarna -P 1e-04 -E Na=1 -T 60 -sinDE sugrna02"

Sequence	GGCGCUG
Complementary.sequence	CCGCGAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	sugrna02
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-71100.0000
Entropycal.	-188.7000
EnthalpyJ.	-297198.0000
EntropyJ.	-788.7660
Melting.temperatureC.	65.7647

Double dangling end effect

[1] "-S --ATGCATAA -H dnadna -P 4e-04 -E Na=1 -T 60"

Sequence	-ATGCATAA
Complementary.sequence	AATACGTA-
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-38600.00000
Entropycal.	-105.80000
EnthalpyJ.	-161348.00000
EntropyJ.	-442.24400
Melting.temperatureC.	44.88615

[1] "-S --ATGCATAA -H dnadna -P 4e-04 -E Na=1 -T 60 -secDE sugdna02"

Sequence	-ATGCATAA
Complementary.sequence	AATACGTA-
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	$\sin 04$
CNG.repeats.model	NA
Inosine.bases.model	$\sin 05$
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-38600.00000
Entropycal.	-105.80000
EnthalpyJ.	-161348.00000
EntropyJ.	-442.24400
Melting.temperatureC.	44.88615

[1] "-S --AUGCAUAA -H rnarna -P 1e-04 -E Na=1 -T 60 -secDE ser06"

Sequence	-AUGCAUAA
Complementary.sequence	AAUACGUA-
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-58870.00000
Entropycal.	-168.00000
EnthalpyJ.	-246076.60000

Entropy..J. -702.24000 Melting.temperature..C. 42.79724

[1] "-S --AUGCAUAA -H rnarna -P 1e-04 -E Na=1 -T 60 -secDE sugrna02"

Sequence	-AUGCAUAA
Complementary.sequence	AAUACGUA-
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	sugrna02
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-49870.00000
Entropycal.	-140.00000
EnthalpyJ.	-208456.60000
EntropyJ.	-585.20000

[1] "-S --AUGCAUAA -H rnarna -P 1e-04 -E Na=1 -T 60 -secDE ser05"

Sequence	-AUGCAUAA
Complementary.sequence	AAUACGUA-
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser05
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-62470.00000
Entropycal.	-179.40000
EnthalpyJ.	-261124.60000
EntropyJ.	-749.89200

```
Melting.temperature..C.
```

42.78815

Long dangling end effect

[1] "-S ----GCATATGCAAAA -H dnadna -P 4e-04 -E Na=1 -T 60"

Sequence	—-GCATATGCAAAA
Complementary.sequence	AAAACGTATACG—-
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-67700.00000
Entropycal.	-190.30000
EnthalpyJ.	-282986.00000

Entropy..J. -795.45400 Melting.temperature..C. 55.69854

[1] "-S ----GCATATGCAAAA -H dnadna -P 4e-04 -E Na=1 -T 60 -lonDE sugdna02"

Sequence	—-GCATATGCAAAA
Complementary.sequence	AAAACGTATACG—-
Nucleic.acid.concentrationM.	4e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-67700.00000
Entropycal.	-190.30000
EnthalpyJ.	-282986.00000
EntropyJ.	-795.45400

[1] "-S AAAAGCAUAUGC---- -H rnarna -P 1e-04 -E Na=1 -T 60"

Sequence	AAAAGCAUAUGC—-
Complementary.sequence	—-CGUAUACGAAAA
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-99680.00000
Entropycal.	-283.40000
EnthalpyJ.	-416662.40000
EntropyJ.	-1184.61200
Melting.temperatureC.	57.21314

[1] "-S AAAAGCAUAUGC---- -H rnarna -P 1e-04 -E Na=1 -T 60 -lonDE sugrna02"

Sequence	AAAAGCAUAUGC—-
Complementary.sequence	—-CGUAUACGAAAA
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	TRUE
Correction.factor	1

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-99680.00000
Entropycal.	-283.40000
EnthalpyJ.	-416662.40000
EntropyJ.	-1184.61200
Melting.temperatureC.	57.21314

Internal loop effect

[1] "-S GCGATTGGCACTTTGGTGAAC -H dnadna -P 1e-04 -E Na=1 -C CGCTACATATGAAACCACTTG -T 60"

Sequence	GCGATTGGCACTTTGGTGAAC
Complementary.sequence	CGCTACATATGAAACCACTTG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

NA dll97 NA dllsanpey dllsanpey
NA allsanpey allsanpey
llsanpey llsanpey
allsanpey
- 0
000
ugdna02
ugdna02
an04
an04
an04
NA
an05
ug01
sa05
nct04
NA
hs01
hs01
ola96
lef

Enthalpycal.	-121100.00000
Entropycal.	-333.40000
EnthalpyJ.	-506198.00000
EntropyJ.	-1393.61200
Melting.temperatureC.	84.09052

[1] "-S GCGATTGGCACTTTGGTGAAC -H dnadna -P 1e-04 -E Na=1 -C CGCTACATATGAAACCACTTG -T 60 -intLP san04

Sequence	GCGATTGGCACTTTGGTGAAC
Complementary.sequence	CGCTACATATGAAACCACTTG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4
-	

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-121100.00000
Entropycal.	-333.40000
EnthalpyJ.	-506198.00000
EntropyJ.	-1393.61200
Melting.temperatureC.	84.09052

[1] "-S GACAC-GCUG -H rnarna -P 1e-04 -E Na=1 -C CUGUAUCGAC -T 60"

Sequence	GACAC-GCUG
Complementary.sequence	CUGUAUCGAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-68770.00000
Entropycal.	-194.40000
EnthalpyJ.	-287458.60000
EntropyJ.	-812.59200
Melting.temperatureC.	45.98713

[1] "-S GACAC-GCUG -H rnarna -P 1e-04 -E Na=1 -C CUGUAUCGAC -T 60 -intLP zno07"

Sequence	GACAC-GCUG
Complementary.sequence	CUGUAUCGAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	zno07
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-66770.00000
Entropycal.	-191.80000
EnthalpyJ.	-279098.60000
EntropyJ.	-801.72400
Melting.temperatureC.	40.49012

[1] "-S GACAC-GCUG -H rnarna -P 1e-04 -E Na=1 -C CUGUAUCGAC -T 60 -intLP tur06"

Sequence	GACAC-GCUG
Complementary.sequence	CUGUAUCGAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na. equivalence. correction. method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-68770.00000
Entropycal.	-194.40000
EnthalpyJ.	-287458.60000
EntropyJ.	-812.59200
Melting.temperatureC.	45.98713

Single bulge loop effect

[1] "-S TCGATTAGCGACACAGG -H dnadna -P 1e-04 -E Na=1 -C AGCTAATC-CTGTGTCC -T 60"

Sequence	TCGATTAGCGACACAGG
Complementary.sequence	AGCTAATC-CTGTGTCC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

NA
all97
NA
allsanpey
allsanpey
bom00
sugdna02
sugdna02
san04
$\tan 04$
san04
NA
san05
sug01
asa05
mct04
NA
ahs01
ahs01
bla96
def

Enthalpycal.	-98700.00000
Entropycal.	-265.60000
EnthalpyJ.	-412566.00000
EntropyJ.	-1110.20800
Melting.temperatureC.	71.12754

[1] "-S TCGATTAGCGACACAGG -H dnadna -P 1e-04 -E Na=1 -C AGCTAATC-CTGTGTCC -T 60 -sinBU tan04"

Sequence	TCGATTAGCGACACAGG
Complementary.sequence	AGCTAATC-CTGTGTCC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-98700.00000
Entropycal.	-265.60000
EnthalpyJ.	-412566.00000
EntropyJ.	-1110.20800
Melting.temperatureC.	71.12754

[1] "-S TCGATTAGCGACACAGG -H dnadna -P 1e-04 -E Na=1 -C AGCTAATC-CTGTGTCC -T 60 -sinBU san04"

Sequence	TCGATTAGCGACACAGG
Complementary.sequence	AGCTAATC-CTGTGTCC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\sin 04$
Long.bulge.loop.model	$\sin 04$
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-120500.0000
Entropycal.	-338.4000
EnthalpyJ.	-503690.0000
EntropyJ.	-1414.5120
Melting.temperatureC.	62.0496

[1] "-S GACUCUGUC -H rnarna -P 1e-04 -E Na=1 -C CUGA-ACAG -T 60"

Sequence	GACUCUGUC
Complementary.sequence	CUGA-ACAG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-64710.00000
Entropycal.	-185.90000
EnthalpyJ.	-270487.80000
EntropyJ.	-777.06200
Melting.temperatureC.	39.47787

[1] "-S GACUCUGUC -H rnarna -P 1e-04 -E Na=1 -C CUGA-ACAG -T 60 -sinBU tur06"

Sequence	GACUCUGUC
Complementary.sequence	CUGA-ACAG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-64710.00000
Entropycal.	-185.90000
EnthalpyJ.	-270487.80000
EntropyJ.	-777.06200
Melting.temperatureC.	39.47787

[1] "-S GACUCUGUC -H rnarna -P 1e-04 -E Na=1 -C CUGA-ACAG -T 60 -sinBU ser07"

Sequence	GACUCUGUC
Complementary.sequence	CUGA-ACAG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	ser07
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-60790.00000
Entropycal.	-178.50000
EnthalpyJ.	-254102.20000
EntropyJ.	-746.13000
Melting.temperatureC.	31.42849

Long bulge loop effect

[1] "-S ATATGACGCCACAGCG -H dnadna -P 1e-04 -E Na=1 -C TATAC---GGTGTCGC -T 60"

Sequence	ATATGACGCCACAGCG
Complementary.sequence	TATAC—GGTGTCGC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-89300.0000
Entropycal.	-253.8000
EnthalpyJ.	-373274.0000
EntropyJ.	-1060.8840
Melting.temperatureC.	51.7104

[1] "-S ATATGACGCCACAGCG -H dnadna -P 1e-04 -E Na=1 -C TATAC---GGTGTCGC -T 60 -lonBU san04"

Sequence	ATATGACGCCACAGCG
Complementary.sequence	TATAC—GGTGTCGC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-89300.0000
Entropycal.	-253.8000
EnthalpyJ.	-373274.0000
EntropyJ.	-1060.8840
Melting.temperatureC.	51.7104

[1] "-S AUAUGACGCCACAGCG -H rnarna -P 1e-04 -E Na=1 -C UAUAC---GGUGUCGC -T 60"

Sequence	AUAUGACGCCACAGCG
Complementary.sequence	UAUAC—GGUGUCGC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-104130.0000
Entropycal.	-285.9000
EnthalpyJ.	-435263.4000
EntropyJ.	-1195.0620
Melting.temperatureC.	66.0497

[1] "-S AUAUGACGCCACAGCG -H rnarna -P 1e-04 -E Na=1 -C UAUAC---GGUGUCGC -T 60 -lonBU tur06"

Sequence	AUAUGACGCCACAGCG
Complementary.sequence	UAUAC—GGUGUCGC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-104130.0000
Entropycal.	-285.9000
EnthalpyJ.	-435263.4000
EntropyJ.	-1195.0620
Melting.temperatureC.	66.0497

CNG repeats effect

[1] "-S GCGGCGGCGC -H rnarna -P 1e-04 -E Na=1 -T 60"

Sequence	GCGGCGGCGC
Complementary.sequence	CGCCGCCGCCG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-128000.00000
Entropycal.	-327.30000
EnthalpyJ.	-535040.00000
EntropyJ.	-1368.11400
Melting.temperatureC.	94.25719

[1] "-S GCGGCGGCGC -H rnarna -P 1e-04 -E Na=1 -T 60 -CNG bro05"

Sequence	GCGGCGGCGC
Complementary.sequence	CGCCGCCGCCG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-128000.00000
Entropycal.	-327.30000
EnthalpyJ.	-535040.00000
EntropyJ.	-1368.11400
Melting.temperatureC.	94.25719

Inosine bases effect

[1] "-S CCGICTGTIGCG -H dnadna -P 1e-04 -E Na=1 -C GGCCGACACCGC -T 60"

Sequence	CCGICTGTIGCG
Complementary.sequence	GGCCGACACCGC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-89500.00000
Entropycal.	-243.30000
EnthalpyJ.	-374110.00000
EntropyJ.	-1016.99400
Melting.temperatureC.	65.36853

[1] "-S CCGICTGTIGCG -H dnadna -P 1e-04 -E Na=1 -C GGCCGACACCGC -T 60 -ino san05"

Cognopos	CCGICTGTIGCG
Sequence	
Complementary.sequence	GGCCGACACCGC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-89500.00000
Entropycal.	-243.30000
EnthalpyJ.	-374110.00000
EntropyJ.	-1016.99400
Melting.temperatureC.	65.36853

[1] "-S GCAICGC -H rnarna -P 1e-04 -E Na=1 -C CGUUGCG -T 60"

Sequence	GCAICGC
Complementary.sequence	CGUUGCG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-70470.00000
Entropycal.	-199.20000
EnthalpyJ.	-294564.60000
EntropyJ.	-832.65600
Melting.temperatureC.	46.75042

[1] "-S GCAICGC -H rnarna -P 1e-04 -E Na=1 -C CGUUGCG -T 60 -ino zno07"

Sequence	GCAICGC
Complementary.sequence	CGUUGCG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	rnarna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-70470.00000
Entropycal.	-199.20000
EnthalpyJ.	-294564.60000
EntropyJ.	-832.65600
Melting.temperatureC.	46.75042

Hydroxyadenine bases effect

[1] "-S AGAAATGA*CACGGTG -H dnadna -P 1e-04 -E Na=1 -C TCTTTACCGTGCCAC -T 60"

Sequence	AGAAATGA*CACGGTG
Complementary.sequence	TCTTTACC GTGCCAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

NA
all97
NA
allsanpey
allsanpey
bom00
sugdna02
sugdna02
san04
$\tan 04$
san04
NA
san05
sug01
asa05
mct04
NA
ahs01
ahs01
bla96
def

Enthalpycal.	-95100.00000
Entropycal.	-257.30000
EnthalpyJ.	-397518.00000
EntropyJ.	-1075.51400
Melting.temperatureC.	68.46041

[1] "-S AGAAATGA*CACGGTG -H dnadna -P 1e-04 -E Na=1 -C TCTTTACCGTGCCAC -T 60 -ha sug01"

Sequence	AGAAATGA*CACGGTG
Complementary.sequence	TCTTTACC GTGCCAC
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-95100.00000
Entropycal.	-257.30000
EnthalpyJ.	-397518.00000
EntropyJ.	-1075.51400
Melting.temperatureC.	68.46041

Azobenzenes effect

[1] "-S CTX_CTTAAX_CGAAGX_CGAGAX_CTATAX_CCC -H dnadna -P 1e-04 -E Na=1 -T 60"

Sequence	CTX_CTTAAX_CGAAGX_CGAGAX_CTATAX_CCC
Complementary.sequence	GA AATT CTTC CTCT ATAT GG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-56300.00000
Entropycal.	-154.30000
EnthalpyJ.	-235334.00000
EntropyJ.	-644.97400
Melting.temperatureC.	47.85385

[1] "-S CTX_CTTAAX_CGAAGX_CGAGAX_CTATAX_CCC -H dnadna -P 1e-04 -E Na=1 -T 60 -azo asa05"

Sequence	CTX_CTTAAX_CGAAGX_CGAGAX_CTATAX_CCC
Complementary.sequence	GA AATT CTTC CTCT ATAT GG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-56300.00000
Entropycal.	-154.30000
EnthalpyJ.	-235334.00000
EntropyJ.	-644.97400
Melting.temperatureC.	47.85385

Locked nucleic acids effect

[1] "-S CCATTLGCTACC -H dnadna -P 1e-04 -E Na=1 -T 60"

Sequence	CCATTLGCTACC
Complementary.sequence	GGTAA CGATGG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san 04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na. equivalence. correction. method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-80314.00000
Entropycal.	-217.40000
EnthalpyJ.	-335712.52000
EntropyJ.	-908.73200
Melting.temperatureC.	63.61426

[1] "-S CCATTLGCTACC -H dnadna -P 1e-04 -E Na=1 -T 60 -lck mct04"

Sequence	CCATTLGCTACC
Complementary.sequence	GGTAA CGATGG
Nucleic.acid.concentrationM.	1e-04
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
~	NA
GU.model	
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	$\sin 05$
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-80314.00000
Entropycal.	-217.40000
EnthalpyJ.	-335712.52000
EntropyJ.	-908.73200
Melting.temperatureC.	63.61426

Corrections

Ion corrections

Sodium corrections

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-308.10000
EnthalpyJ.	-479864.00000

 $\begin{array}{ll} \text{Entropy..J.} & -1287.85800 \\ \text{Melting.temperature..C.} & 56.70492 \end{array}$

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion owc2204"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	owc2204
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-308.10000
EnthalpyJ.	-479864.00000
EntropyJ.	-1287.85800

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion ahs01" $\,$

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	ahs01
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.0000
Entropycal.	-321.8689
EnthalpyJ.	-479864.0000
EntropyJ.	-1345.4121
Melting.temperatureC.	54.1569

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion kam71"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
- v -	
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	kam71
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-308.10000
EnthalpyJ.	-479864.00000
EntropyJ.	-1287.85800
Melting.temperatureC.	51.72963

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion marschdot"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	$\sin 04$
CNG.repeats.model	NA
Inosine.bases.model	$\sin 05$
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	\max
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-308.10000
EnthalpyJ.	-479864.00000
EntropyJ.	-1287.85800
${\bf Melting. temperature C.}$	49.18075

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion owc1904"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	owc1904
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-308.10000
EnthalpyJ.	-479864.00000
EntropyJ.	-1287.85800
${\bf Melting. temperature C.}$	56.18571

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion owc2004"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	owc2004
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-308.10000
EnthalpyJ.	-479864.00000
EntropyJ.	-1287.85800
Melting.temperatureC.	56.67553

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion owc2104"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	owc2104
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-308.10000
EnthalpyJ.	-479864.00000
EntropyJ.	-1287.85800
${\bf Melting. temperature C.}$	56.63967

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion san96"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	$\sin 04$
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	san96
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-308.10000
EnthalpyJ.	-479864.00000
EntropyJ.	-1287.85800
${\bf Melting. temperature C.}$	53.01651

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion san04"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	san04
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-321.87464
EnthalpyJ.	-479864.00000
EntropyJ.	-1345.43599
Melting.temperatureC.	54.15157

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion schlif"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	schlif
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-308.10000
EnthalpyJ.	-479864.00000
EntropyJ.	-1287.85800
${\bf Melting. temperature C.}$	48.25579

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion tanna06"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	tanna06
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-320.68325
EnthalpyJ.	-479864.00000
EntropyJ.	-1340.45597
Melting.temperatureC.	55.26711

[1] "-S CCAGCCAGTCTCTCC -H dnadna -P 2e-06 -E Na=0.069 -T 60 -ion wet91"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGTCGGTCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	wet91
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-114800.00000
Entropycal.	-308.10000
EnthalpyJ.	-479864.00000
EntropyJ.	-1287.85800
Melting.temperatureC.	51.74573

[1] "-S CCAGCCAGUCUCUCC -H rnarna -P 2e-06 -E Na=0.069 -T 60"

Sequence	CCAGCCAGUCUCUCC
Complementary.sequence	GGUCGGUCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

NA
xia98
ser12
zno07
tur06
ser08
ser06
sugrna02
tur06
tur06
tur06
NA
zno07
NA
NA
NA
NA
ahs01
ahs01
bla96
def

Enthalpycal.	-162960.0000
Entropycal.	-438.9933
EnthalpyJ.	-681172.8000
EntropyJ.	-1834.9920
Melting.temperatureC.	75.1552

[1] "-S CCAGCCAGUCUCUCC -H rnarna -P 2e-06 -E Na=0.069 -T 60 -ion tanna07"

Sequence	CCAGCCAGUCUCUCC
Complementary.sequence	GGUCGGUCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	tanna07
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-162960.0000
Entropycal.	-438.9933
EnthalpyJ.	-681172.8000
EntropyJ.	-1834.9920
Melting.temperatureC.	75.1552

[1] "-S CCAGCCAGUCUCUCC -H rnarna -P 2e-06 -E Na=0.069 -T 60 -ion wet91"

Sequence	CCAGCCAGUCUCUCC
Complementary.sequence	GGUCGGUCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	wet91
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-162960.00000
Entropycal.	-425.70000
EnthalpyJ.	-681172.80000
EntropyJ.	-1779.42600
Melting.temperatureC.	69.55572

[1] "-S UACGCGUCAAUAACGCUA -H mrnarna -P 2e-06 -E Na=0.069 -T 60"

Sequence	UACGCGUCAAUAACGCUA
Complementary.sequence	AUGCGCAGUUAUUGCGAU
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	mrnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	tur06
GU.model	NA
Single.mismatch.model	NA
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-143140.00000
Entropycal.	-374.64864
EnthalpyJ.	-598325.20000
EntropyJ.	-1566.03130
Melting.temperatureC.	81.57763

[1] "-S UACGCGUCAAUAACGCUA -H mrnarna -P 2e-06 -E Na=0.069 -T 60 -ion tanna07"

Sequence	UACGCGUCAAUAACGCUA
Complementary.sequence	AUGCGCAGUUAUUGCGAU
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	mrnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	tur06
GU.model	NA
Single.mismatch.model	NA
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	tanna07
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-143140.00000
Entropycal.	-374.64864
EnthalpyJ.	-598325.20000
EntropyJ.	-1566.03130
Melting.temperatureC.	81.57763

[1] "-S CCAGCCAGTCTCTCC -H dnarna -P 2e-06 -E Na=0.069 -T 60"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGUCGGUCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	sug95
GU.model	NA
Single.mismatch.model	wat11
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-119900.00000
Entropycal.	-312.70000
EnthalpyJ.	-501182.00000
EntropyJ.	-1307.08600
Melting.temperatureC.	62.08869

[1] "-S CCAGCCAGTCTCTCC -H dnarna -P 2e-06 -E Na=0.069 -T 60 -ion wet91"

Sequence	CCAGCCAGTCTCTCC
Complementary.sequence	GGUCGGUCAGAGAGG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	sug95
GU.model	NA
Single.mismatch.model	wat11
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	wet91
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-119900.00000
Entropycal.	-312.70000
EnthalpyJ.	-501182.00000
EntropyJ.	-1307.08600
Melting.temperatureC.	62.08869

Magnesium corrections

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Mg=0.0015 -T 60"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	65.52043

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Mg=0.0015 -T 60 -ion owcmg08"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	owcmg08
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	65.52043

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Mg=0.0015 -T 60 -ion tanmg06"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	tanmg06
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-336.77490
EnthalpyJ.	-516648.00000
EntropyJ.	-1407.71908
Melting.temperatureC.	64.88082

[1] "-S CAGCCUCGUCGCAGC -H rnarna -P 2e-06 -E Mg=0.0015 -T 60"

Sequence	CAGCCUCGUCGCAGC
Complementary.sequence	GUCGGAGCAGCGUCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	0
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-164300.0000
Entropycal.	-433.6455
EnthalpyJ.	-686774.0000
EntropyJ.	-1812.6383
Melting.temperatureC.	82.0796

[1] "-S CAGCCUCGUCGCAGC -H rnarna -P 2e-06 -E Mg=0.0015 -T 60 -ion tanmg07"

Sequence	CAGCCUCGUCGCAGC
Complementary.sequence	GUCGGAGCAGCGUCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	0
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	xia98
GU.model	ser12
Single.mismatch.model	zno07
Tandem.mismatch.model	tur06
Single.dangling.end.model	ser08
Double.dangling.end.model	ser06
Long.dangling.end.model	sugrna02
Internal.loop.model	tur06
Single.bulge.loop.model	tur06
Long.bulge.loop.model	tur06
CNG.repeats.model	NA
Inosine.bases.model	zno07
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	tanmg07
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-164300.0000
Entropycal.	-433.6455
EnthalpyJ.	-686774.0000
EntropyJ.	-1812.6383
Melting.temperatureC.	82.0796

[1] "-S UACGCGUCAAUAACGCUA -H mrnarna -P 2e-06 -E Mg=0.0015 -T 60"

Sequence	UACGCGUCAAUAACGCUA
Complementary.sequence	AUGCGCAGUUAUUGCGAU
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	mrnarna
Na.concentrationM.	0
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	tur06
GU.model	NA
Single.mismatch.model	NA
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-143140.00000
Entropycal.	-365.21571
EnthalpyJ.	-598325.20000
EntropyJ.	-1526.60167
Melting.temperatureC.	90.06842

[1] "-S UACGCGUCAAUAACGCUA -H mrnarna -P 2e-06 -E Mg=0.0015 -T 60 -ion tanmg07"

Sequence	UACGCGUCAAUAACGCUA
Complementary.sequence	AUGCGCAGUUAUUGCGAU
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	mrnarna
Na.concentrationM.	0
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	tur06
GU.model	NA
Single.mismatch.model	NA
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	tanmg07
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-143140.00000
Entropycal.	-365.21571
EnthalpyJ.	-598325.20000
EntropyJ.	-1526.60167
Melting.temperatureC.	90.06842

Mixed Sodium and Magnesium corrections

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60"

-	
Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	65.83371

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60 -ion owcmix08"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	owcmix08
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	65.83371

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60 -ion tanmix07"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	tanmix07
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-338.58330
EnthalpyJ.	-516648.00000
EntropyJ.	-1415.27819
Melting.temperatureC.	63.21723

[1] "-S CAGCCUCGUCGCAGC -H rnarna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60"

Sequence	CAGCCUCGUCGCAGC
Complementary.sequence	GUCGGAGCAGCGUCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

NA
xia98
ser12
zno07
tur06
ser08
ser06
sugrna02
tur06
tur06
tur06
NA
zno07
NA
NA
NA
NA
ahs01
ahs01
bla96
def

Enthalpycal.	-164300.00000
Entropycal.	-437.15938
EnthalpyJ.	-686774.00000
EntropyJ.	-1827.32622
Melting.temperatureC.	79.40119

[1] "-S CAGCCUCGUCGCAGC -H rnarna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60 -ion tanmix07"

Sequence	CAGCCUCGUCGCAGC
Complementary.sequence	GUCGGAGCAGCGUCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	rnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

NA
xia98
ser12
zno07
tur06
ser08
ser06
sugrna02
tur06
tur06
tur06
NA
zno07
NA
NA
NA
tanmix07
ahs01
ahs01
bla96
def

Enthalpycal.	-164300.00000
Entropycal.	-437.15938
EnthalpyJ.	-686774.00000
EntropyJ.	-1827.32622
Melting.temperatureC.	79.40119

[1] "-S UACGCGUCAAUAACGCUA -H mrnarna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60"

Sequence	UACGCGUCAAUAACGCUA
Complementary.sequence	AUGCGCAGUUAUUGCGAU
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	mrnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	tur06
GU.model	NA
Single.mismatch.model	NA
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-143140.00000
Entropycal.	-358.39889
EnthalpyJ.	-598325.20000
EntropyJ.	-1498.10736
Melting.temperatureC.	96.46186

[1] "-S UACGCGUCAAUAACGCUA -H mrnarna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60 -ion tanmix07"

Sequence	UACGCGUCAAUAACGCUA
Complementary.sequence	AUGCGCAGUUAUUGCGAU
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	mrnarna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	tur06
GU.model	NA
Single.mismatch.model	NA
Tandem.mismatch.model	NA
Single.dangling.end.model	NA
Double.dangling.end.model	NA
Long.dangling.end.model	NA
Internal.loop.model	NA
Single.bulge.loop.model	NA
Long.bulge.loop.model	NA
CNG.repeats.model	NA
Inosine.bases.model	NA
Hydroxyadenine.bases.model	NA
Azobenzenes.model	NA
Locked.nucleic.acids.model	NA
Ion.correction.method	tanmix07
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-143140.00000
Entropycal.	-358.39889
EnthalpyJ.	-598325.20000
EntropyJ.	-1498.10736
Melting.temperatureC.	96.46186

Sodium equivalent concentration methods

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60"

-	
Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	65.83371

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60 -naeq ahs01"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	65.83371

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60 -naeq mit96"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	mit96
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	65.83371

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=0.069:Mg=0.0015 -T 60 -naeq pey00"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	0.069
Mg.concentrationM.	0.0015
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	pey00
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	65.83371

Denaturing agent corrections

DMSO corrections

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=1:DMSO=10 -T 60"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	10
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	65.40154

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=1:DMSO=10 -T 60 -DMSO ahs01"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	10
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san 04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san 04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	65.40154

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=1:DMSO=10 -T 60 -DMSO cul76"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	10
Formamide.concentrationM.or	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	cul76
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	67.90154

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=1:DMSO=10 -T 60 -DMSO esc80"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	10
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	esc80
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	66.15154

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=1:DMSO=10 -T 60 -DMSO mus81"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	10
$For mamide. concentration M. or. \dots$	0
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san 04
CNG.repeats.model	NA
Inosine.bases.model	san 05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	mus81
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	66.90154

Formamide corrections

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=1:formamide=0.06 -T 60"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	0.06
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	$\sin 04$
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	72.74867

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=1:formamide=0.06 -T 60 -for bla96"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
Formamide.concentrationM.or	0.06
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	bla96
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	72.74867

[1] "-S CAGCCTCGTCGCAGC -H dnadna -P 2e-06 -E Na=1:formamide=10 -T 60 -for lincorr"

Sequence	CAGCCTCGTCGCAGC
Complementary.sequence	GTCGGAGCAGCGTCG
Nucleic.acid.concentrationM.	2e-06
Hybridization.type	dnadna
Na.concentrationM.	1
Mg.concentrationM.	0
Tris.concentrationM.	0
K.concentrationM.	0
dNTP.concentrationM.	0
DMSO.concentration	0
$For mamide. concentration M. or. \dots$	10
Self.complementarity	FALSE
Correction.factor	4

Approximative.formula	NA
Nearest.neighbour.model	all97
GU.model	NA
Single.mismatch.model	allsanpey
Tandem.mismatch.model	allsanpey
Single.dangling.end.model	bom00
Double.dangling.end.model	sugdna02
Long.dangling.end.model	sugdna02
Internal.loop.model	san04
Single.bulge.loop.model	$\tan 04$
Long.bulge.loop.model	san04
CNG.repeats.model	NA
Inosine.bases.model	san05
Hydroxyadenine.bases.model	sug01
Azobenzenes.model	asa05
Locked.nucleic.acids.model	mct04
Ion.correction.method	NA
Na.equivalence.correction.method	ahs01
DMSO.correction.method	ahs01
Formamide.correction.method	lincorr
Mode	def

Enthalpycal.	-123600.00000
Entropycal.	-328.30000
EnthalpyJ.	-516648.00000
EntropyJ.	-1372.29400
Melting.temperatureC.	66.40154