

A

Mismatch sequence:

5'- GGCTCGAACAACCTCGCGCAGG-3'
 3'- CCGAGTTTGTGGAGCGCGTCC-5'

Exact match sequence:

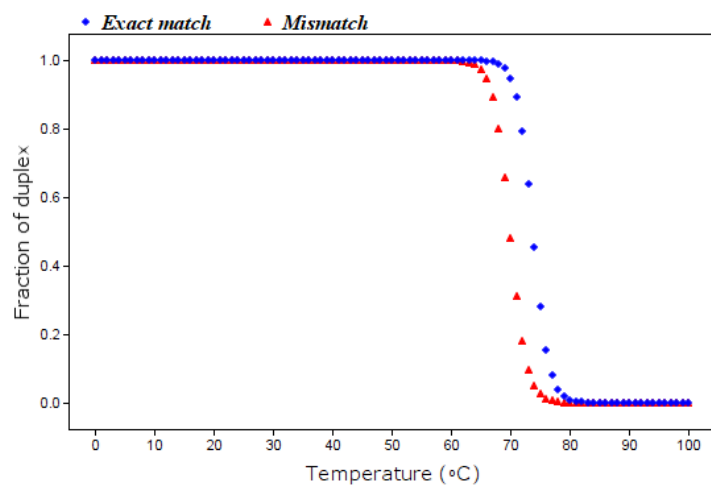
5'- GGCTCGAACAACCTCGCGCAGG-3'
 3'- CCGAGCTTGTGGAGCGCGTCC-5'

	T_m [°C]	Gibbs Energy (ΔG_{37}) [kcal/mol]	Enthalpy (ΔH) [kcal/mol]	Entropy (ΔS) [cal/(K·mol)]
Mismatch	69.89	-25.30	-169.20	-463.97
Exact match	73.75	-28.42	-182.60	-497.11
Difference	3.86	-3.12	-13.40	-33.14

Duplex Length: 22

Oligo Conc: 0.40 μ M Na⁺, K⁺ Conc: 50.00 mM dNTPs Conc: 0.20 mM
 Target Conc: 0.00 μ M Mg²⁺ Conc: 1.50 mM

Hybridization profile



B

Mismatch sequence:

5'- GGCTCGAACAACCTCGCGCAAG-3'
 3'- CCGAGTTTGTGGAGCGCGTTC-5'

Exact match sequence:

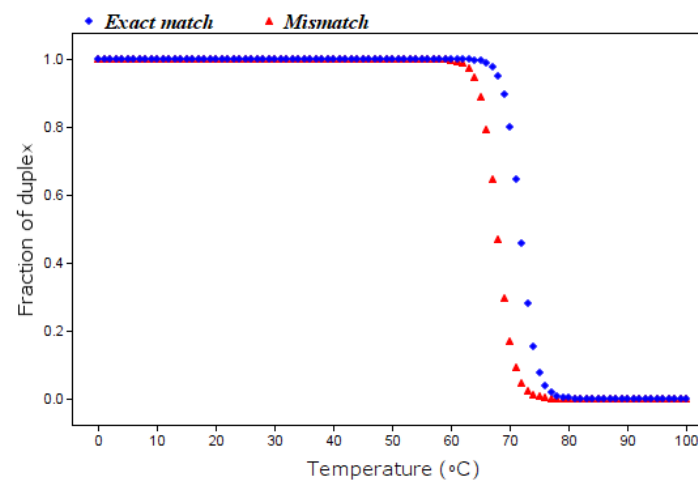
5'- GGCTCGAACAACCTCGCGCAAG-3'
 3'- CCGAGCTTGTGGAGCGCGTTC-5'

	T_m [°C]	Gibbs Energy (ΔG_{37}) [kcal/mol]	Enthalpy (ΔH) [kcal/mol]	Entropy (ΔS) [cal/(K·mol)]
Mismatch	67.83	-24.36	-169.10	-466.67
Exact match	71.77	-27.48	-182.50	-499.84
Difference	3.95	-3.11	-13.40	-33.17

Duplex Length: 22

Oligo Conc: 0.40 μ M Na⁺, K⁺ Conc: 50.00 mM dNTPs Conc: 0.20 mM
 Target Conc: 0.00 μ M Mg²⁺ Conc: 1.50 mM

Hybridization profile



C

Mismatch sequence:

5'- GGCTCGAACAACCTCGCGCAGG -3'
 3'- CCGAGCTTGTGGACCGCGTCC -5'

Exact match sequence:

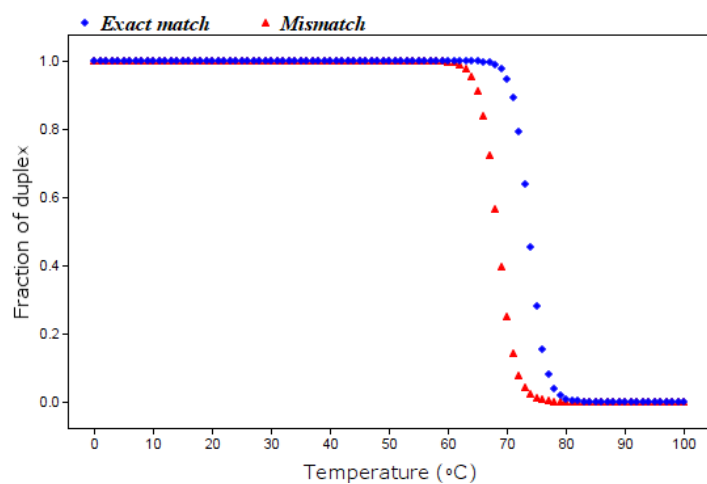
5'- GGCTCGAACAACCTCGCGCAGG -3'
 3'- CCGAGCTTGTGGAGCGCGTCC -5'

	T_m [°C]	Gibbs Energy (ΔG_{37}) [kcal/mol]	Enthalpy (ΔH) [kcal/mol]	Entropy (ΔS) [cal/(K·mol)]
Mismatch	68.38	-23.71	-159.20	-436.87
Exact match	73.75	-28.42	-182.60	-497.11
Difference	5.37	-4.72	-23.40	-60.24

Duplex Length: 22

Oligo Conc: 0.40 μ M Na⁺, K⁺ Conc: 50.00 mM dNTPs Conc: 0.20 mM
 Target Conc: 0.00 μ M Mg²⁺ Conc: 1.50 mM

Hybridization profile



D

Mismatch sequence:

5'- GGCTCGAACAACCTCGCGCAAG -3'
 3'- CCGAGCTTGTGGACCGCGTTC -5'

Exact match sequence:

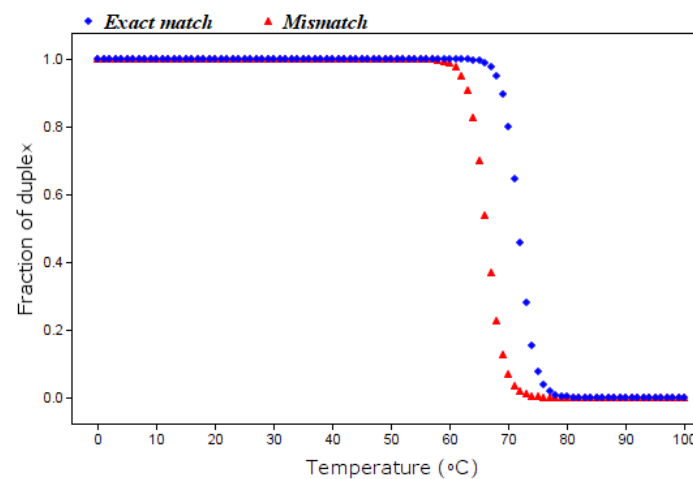
5'- GGCTCGAACAACCTCGCGCAAG -3'
 3'- CCGAGCTTGTGGAGCGCGTTC -5'

	T_m [°C]	Gibbs Energy (ΔG_{37}) [kcal/mol]	Enthalpy (ΔH) [kcal/mol]	Entropy (ΔS) [cal/(K·mol)]
Mismatch	66.22	-22.78	-159.10	-439.54
Exact match	71.77	-27.48	-182.50	-499.84
Difference	5.55	-4.70	-23.40	-60.30

Duplex Length: 22

Oligo Conc: 0.40 μ M Na⁺, K⁺ Conc: 50.00 mM dNTPs Conc: 0.20 mM
 Target Conc: 0.00 μ M Mg²⁺ Conc: 1.50 mM

Hybridization profile



E

Mismatch sequence:

5'-ACGGTCAACAACCTGCAGGCCAA-3'
 3'-TGCCAC^TTTGTTGGACGTCCGTT-5'

Exact match sequence:

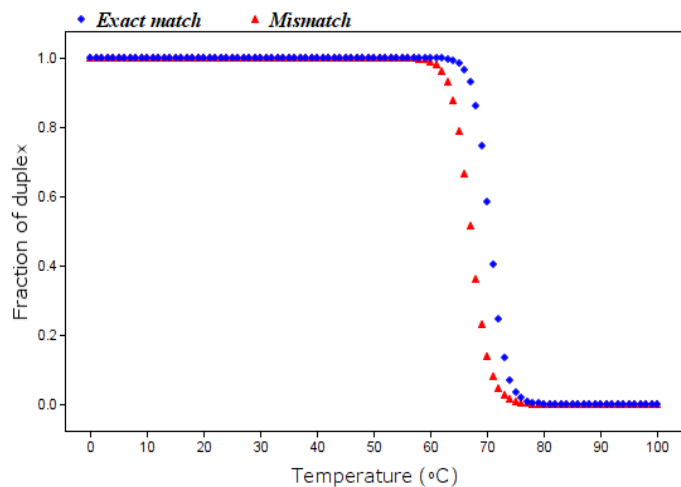
5'-ACGGTCAACAACCTGCAGGCCAA-3'
 3'-TGCCAGTTGTTGGACGTCCGTT-5'

	T_m [°C]	Gibbs Energy (ΔG_{37}) [kcal/mol]	Enthalpy (ΔH) [kcal/mol]	Entropy (ΔS) [cal/(K·mol)]
Mismatch	67.09	-21.84	-144.30	-394.85
Exact match	70.47	-25.95	-173.20	-474.79
Difference	3.38	-4.11	-28.90	-79.93

Duplex Length: 22

Oligo Conc: 0.40 μ M Na⁺, K⁺ Conc: 50.00 mM dNTPs Conc: 0.20 mM
 Target Conc: 0.00 μ M Mg²⁺ Conc: 1.50 mM

Hybridization profile



F

Mismatch sequence:

5'-ACGGTCAACAATCTGCAGGCCAA-3'
 3'-TGCCAC^TTTGTTAGACGTCCGTT-5'

Exact match sequence:

5'-ACGGTCAACAATCTGCAGGCCAA-3'
 3'-TGCCAGTTGTTAGACGTCCGTT-5'

	T_m [°C]	Gibbs Energy (ΔG_{37}) [kcal/mol]	Enthalpy (ΔH) [kcal/mol]	Entropy (ΔS) [cal/(K·mol)]
Mismatch	64.28	-20.66	-143.30	-395.42
Exact match	68.05	-24.75	-172.20	-475.42
Difference	3.77	-4.09	-28.90	-80.00

Duplex Length: 22

Oligo Conc: 0.40 μ M Na⁺, K⁺ Conc: 50.00 mM dNTPs Conc: 0.20 mM
 Target Conc: 0.00 μ M Mg²⁺ Conc: 1.50 mM

Hybridization profile

