



Free web  
based tool to  
analyze  
primers



## Oligo Analysis

Name	:	<input type="text"/>
Description	:	<input type="text"/>

## Sequence #1 (5' to 3')

Length	:	<input type="text" value="20"/>
<input type="text" value="ATCTCAGCCAGACGACAGGT"/>		

## Sequence #2 (5' to 3')

Length	:	<input type="text" value="20"/>
<input type="text" value="CGAGGCGAGGTGTAATATCC"/>		

## Reaction Conditions

Oligo Concentration	:	<input type="text" value="250.0"/>	pM
Monovalent Ion Concentration	:	<input type="text" value="50.0"/>	mM
Free Mg++ Ion Concentration	:	<input type="text" value="1.5"/>	mM
Total Na[+] Equivalent	:	<input type="text" value="204.92"/>	mM
Temperature for Free Energy Calculation	:	<input type="text" value="25.0"/>	°C

Default

Analyze

## Analysis Results #1: ATCTCAGCCAGACGACAGGT

Rating	:	100.0		3' end stability	:	-7.96	kcal/mol
Molecular Wt	:	6111.07		ΔH	:	-144.1	kcal/mol
Tm	:	56.58	°C	ΔS	:	-0.37	kcal/°K/mol
GC%	:	55.0		5' end ΔG	:	-6.22	kcal/mol
GC Clamp	:	2		Self Dimer ( ΔG)	:		kcal/mol
nmol/A <sub>260</sub>	:	5.07		Hairpin ( ΔG)	:		kcal/mol
ug/A <sub>260</sub>	:	30.97		Repeats (# of pairs)	:		kcal/mol
ΔG	:	-32.44	kcal/mol	Run (# of bases)	:		kcal/mol

## Analysis Results #2: CGAGGCGAGGTGTAATATCC

Rating	:	91.0		3' end stability	:	-7.08	kcal/mol
Molecular Wt	:	6182.1		ΔH	:	-157.4	kcal/mol
Tm	:	57.31	°C	ΔS	:	-0.41	kcal/°K/mol
GC%	:	55.0		5' end ΔG	:	-9.85	kcal/mol
GC Clamp	:	2		Self Dimer ( ΔG)	:	<u>-4.91</u>	kcal/mol
nmol/A <sub>260</sub>	:	5.01		Hairpin ( ΔG)	:		kcal/mol
ug/A <sub>260</sub>	:	30.96		Repeats (# of pairs)	:		kcal/mol
ΔG	:	-34.44	kcal/mol	Run (# of bases)	:		kcal/mol

Cross Dimer (ΔG)	:	<input type="text"/>	kcal/mol
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