



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="AAGATCACCAGTGCGCTCAA"/>		

Sequence #2 (5' to 3')

Length	:	<input type="text" value="21"/>
<input type="text" value="GAGCTGGTTGATGAAGATCGC"/>		

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: AAGATCACCAGTGCGCTCAA

Rating	:	82.0		3' end stability	:	-7.07	kcal/mol
Molecular Wt	:	6095.07		ΔH	:	-148.3	kcal/mol
Tm	:	58.87	°C	ΔS	:	-0.38	kcal/°K/mol
GC%	:	50.0		5' end ΔG	:	-6.59	kcal/mol
GC Clamp	:	1		Self Dimer (ΔG)	:	-9.89	kcal/mol
nmol/A ₂₆₀	:	5.04		Hairpin (ΔG)	:		kcal/mol
ug/A ₂₆₀	:	30.71		Repeats (# of pairs)	:		kcal/mol
ΔG	:	-33.84	kcal/mol	Run (# of bases)	:		kcal/mol

Analysis Results #2: GAGCTGGTTGATGAAGATCGC

Rating	:	88.0		3' end stability	:	-9.8	kcal/mol
Molecular Wt	:	6526.32		ΔH	:	-155.8	kcal/mol
Tm	:	59.69	°C	ΔS	:	-0.4	kcal/°K/mol
GC%	:	52.38		5' end ΔG	:	-7.91	kcal/mol
GC Clamp	:	3		Self Dimer (ΔG)	:	-6.34	kcal/mol
nmol/A ₂₆₀	:	4.81		Hairpin (ΔG)	:		kcal/mol
ug/A ₂₆₀	:	31.38		Repeats (# of pairs)	:		kcal/mol
ΔG	:	-35.17	kcal/mol	Run (# of bases)	:		kcal/mol

Cross Dimer (ΔG)	:	-7.96	kcal/mol
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