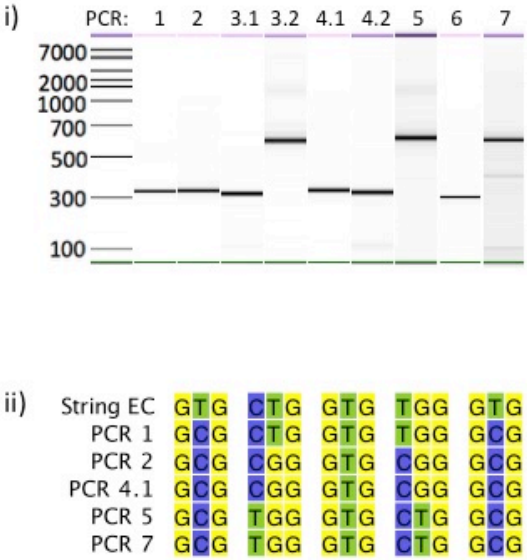
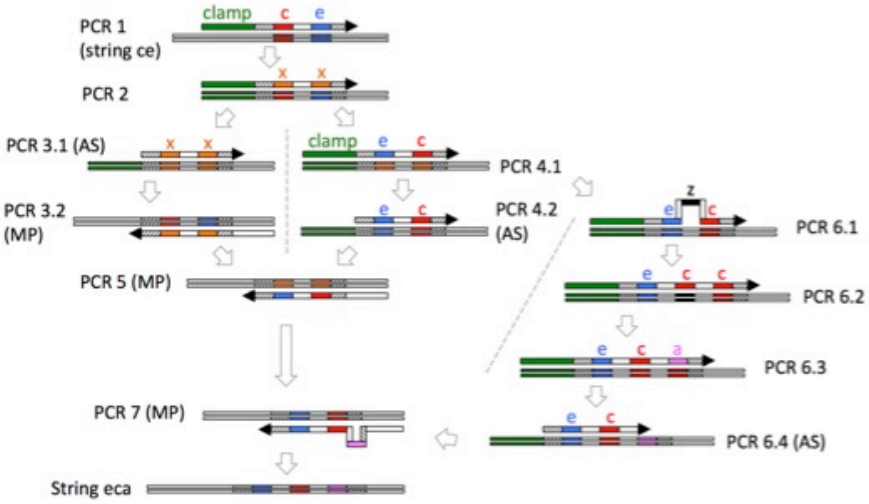
Supplementary Information

1. Thue Rule Recognition and Implementation

Supplementary Figure 1: Thue rule implementation.

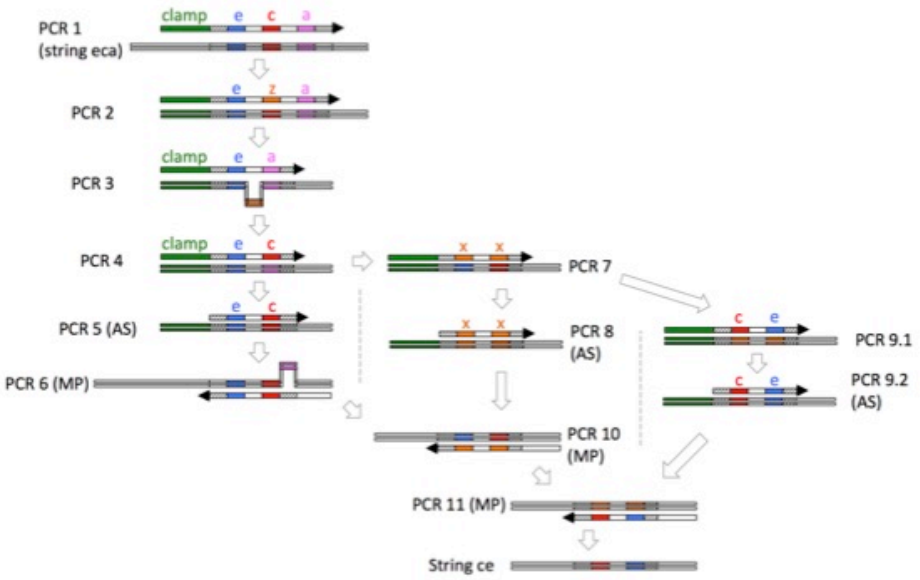


a)
Microprogram and results for swapping **ce** → **ec**. The microprogram is the same as shown in Fig. 5a, except the symbol sequences are transposed. i) Capillary electrophoresis analysis. ii) sequencing data alignment of each step.



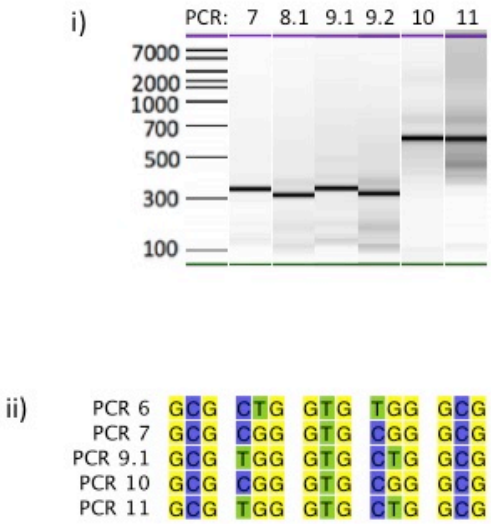
b)

The full microprogram for the Thue rule **ce → eca**. This combines the transposition **ce → ec** and the insertion **ec → eca**. To improve the overall efficiency of the PCRs *in vitro* we utilised DNA templates from earlier in the scheme (PCR 4.1) to implement the insertion rule in parallel with the transposition.



c)

The full microprogram for the Thue rule **eca → ce**. This combines the transposition **ec → ce** and the deletion **eca → ec**. The rest of the microprogram mirrors that of the inverse Thue rule **ce → eca.**



d)

Completion of Thue rule microprogram for **eca** → **ce**. Show is the additional swap microprogram **ec** ↔ **ce** that is performed following the deletion microprogram (Fig. 5c). i) Capillary electrophoresis analysis. ii) sequencing alignment of the PCR steps.

Materials and methods

The template DNA sequence, symbols, clamp and spacers were designed using GeneGenie [1] to ensure minimal erroneous hybridisations between the symbols and non-coding DNA template. Additional calculations of DNA hydridisation kinetics were performed using MFold [2], DINAMelt [3], and UNAFold [4] software with parameters matching the PCR conditions (50mM NaCl, 2mM $MgCl_2$, 500nM primers). All oligonucleotides were synthesised by Integrated DNA Technologies.

DNA templates (initial states) were synthesised by gene synthesis using the SpeedyGenes method [5]. PCR amplification was performed in both symmetric and asymmetric conditions, producing double- and single-stranded DNA products, respectively. For symmetric PCR the reaction contained 500nM of each forward and reverse primer together with 0.5ng DNA template, 0.2mM dNTP mix (New England Biolabs), ThermoPol reaction buffer and 1 unit Deep vent (exo-) DNA polymerase (New England Biolabs). The PCR had an initial denaturation at 95°C for 2 min, then 25 cycles of 95°C for 30 s, 60°C (or other Tm) for 40 s and 72°C for 1 min. PCR products were then purified using a PCR purification kit (Qiagen), following the manufacturer's protocol. These PCR products then served as the template for subsequent PCR steps in the microprogram using the same conditions.

For asymmetric PCR the concentration of primers was altered, with the 25nM forward (limiting) primer and 500nM reverse (excess) primer. All other buffer constituents and PCR conditions were the same as for symmetric PCR. Following purification, the ssDNA product was then used as a megaprimer in the subsequent PCR. This reaction contained 25-50% purified megaprimer and 250nM corresponding forward primer (all other components remained the same). The PCR contained an initial denaturation at 95°C for 2 min, followed by 25 cycles of 95°C for 30 s, 65°C (or other Tm) for 40 s and 72°C for 1 min. Samples were analysed by capillary electrophoresis using a 2100 Bioanalyzer instrument using the DNA 7500 kit (Agilent), following the manufacturer's instructions.

Purified PCR products were subject to Sanger sequencing (Eurofins) using the same primers as used in the PCR. When required, these products were also ligated into a linearised plasmid (pET16b, Novagen) using the In-Fusion cloning kit (Clontech), following the manufacturer's protocol. Samples were then transformed into *E. coli* 5α competent cells (New England Biolabs), streaked onto LB agar (100µg ml^{-1} ampicillin) and incubated overnight at 37°C, following the manufacturer's instructions. Individual colonies were then picked, incubated at 37°C at 200 rpm overnight and the plasmid extracted using a spin miniprep kit (Qiagen), following the manufacturer's protocol. Plasmids were then subject to DNA sequencing, as above.

1. Swainston N, Currin A, Day PJ, Kell DB. GeneGenie: optimized oligomer design for directed evolution. Nucleic Acids Res. 2014 Jul 1;42(W1):W395–400.
2. Zuker M. Mfold web server for nucleic acid folding and hybridization prediction. Nucleic Acids Res. 2003 Jul 1;31(13):3406–15.
3. Markham NR, Zuker M. DINAMelt web server for nucleic acid melting prediction. Nucleic Acids Res. 2005 Jul 1;33(suppl 2):W577–81.
4. Markham, N. R. & Zuker, M. UNAFold: software for nucleic acid folding and hybridization. In Keith, J. M., editor, 4 of 8 Bioinformatics, Volume II. Structure, Functions and Applications, number 453 in *Methods in Molecular Biology*, chapter 1, pages 3-31. Humana Press, Totowa, NJ. (2008).

5. Currin A, Swainston N, Day PJ, Kell DB. SpeedyGenes: an improved gene synthesis method for the efficient production of error-corrected, synthetic protein libraries for directed evolution. Protein Eng Des Sel. 2014 Sep 1;27(9):273–80.

2. Thue Rule Microprogramming Formalization.

Symbols:

H,T = Head, Tail the strings before and after a rewrite (H starts with start, T ends with end).

R = Thue rule head

s,t = {a,b,c,d,e} standard symbols, those in bold are activated (this involves changing spacer symbols).

x,y = special symbols, those in bold are primed

m = clamp
S = start
E = end

Operations:

1.

a)		m R + E	primers
		H R T	template
	→	m R T	Insertion of clamp at rule head
b)		R + E	primers
	+	m R T	template
	→	R T	Removal of clamp at rule head

2.

a)		m $\mathbf{s_1}$ $\mathbf{s_2}$ + E	primers
		m s_1 s_2 T	template
	→	m $\mathbf{s_1}$ $\mathbf{s_2}$ T	activate pair clamp
b)		S + $\mathbf{s_1}$ $\mathbf{s_2}$ T	primers
		H s_1 s_2 T	template
	→	H $\mathbf{s_1}$ $\mathbf{s_2}$ T	activate pair unification

3.

a)		m s_1 s_2 + E	primers
		m $\mathbf{s_1}$ $\mathbf{s_2}$ T	template
	→	m s_1 s_2 T	deactivate pair clamp
b)		S + s_1 s_2 T	primers
		H $\mathbf{s_1}$ $\mathbf{s_2}$ T	template
	→	H s_1 s_2 T	deactivate pair unification

4.

a)		m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ + E	primers
	+	m s_1 s_2 s_3 T	template
	→	m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T	activate triplet clamp
b)	+	S + $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T	primers
		H s_1 s_2 s_3 T	template
	→	H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T	activate triplet unification

5.

a)		m s_1 s_2 s_3 + E	primers
		m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T	template
	→	m s_1 s_2 s_3 T	deactivate triplet clamp
b)		S + s_1 s_2 s_3 T	primers
		H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T	template
	→	H s_1 s_2 s_3 T	deactivate triplet unification

6.

a)		m $\mathbf{t_1}$ $\mathbf{s_2}$ + E	primers
		m $\mathbf{s_1}$ $\mathbf{s_2}$ T	template
	→	m $\mathbf{t_1}$ $\mathbf{s_2}$ T	change symbol clamp
b)		S + $\mathbf{t_1}$ $\mathbf{s_2}$ T	primers
		H $\mathbf{s_1}$ $\mathbf{s_2}$ T	template
	→	H $\mathbf{t_1}$ $\mathbf{s_2}$ T	change symbol unification

7.

a)		m $\mathbf{s_1}$ $\mathbf{t_2}$ + E	primers
	+	m $\mathbf{s_1}$ $\mathbf{s_2}$ T	template
	→	m $\mathbf{s_1}$ $\mathbf{t_2}$ T	change symbol clamp
b)		S + $\mathbf{s_1}$ $\mathbf{t_2}$ T	primers
		H $\mathbf{s_1}$ $\mathbf{s_2}$ T	template
	→	H $\mathbf{s_1}$ $\mathbf{t_2}$ T	change symbol unification

8.

a)		m $\mathbf{x_1}$ $\mathbf{x_2}$ + E	primers
	+	m $\mathbf{s_1}$ $\mathbf{s_2}$ T	template
	→	m $\mathbf{x_1}$ $\mathbf{x_2}$ T	change pair to xx clamp
b)		S + $\mathbf{x_1}$ $\mathbf{x_2}$ T	primers
		H $\mathbf{s_1}$ $\mathbf{s_2}$ T	template
	→	H $\mathbf{x_1}$ $\mathbf{x_2}$ T	change pair to xx unification

9.

a)		m $\mathbf{s_1}$ $\mathbf{s_2}$ + E	primers
	+	m $\mathbf{x_1}$ $\mathbf{x_2}$ T	template
	→	m $\mathbf{s_1}$ $\mathbf{s_2}$ T	change pair from xx clamp

b) S + $\mathbf{s_1}$ $\mathbf{s_2}$ T primers
H $\mathbf{x_1}$ $\mathbf{x_2}$ T template
→ H $\mathbf{s_1}$ $\mathbf{s_2}$ T change pair from xx unification

10.
a) m $\mathbf{t_1}$ s_2 $\mathbf{s_3}$ + E primers
m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T template
→ m $\mathbf{t_1}$ s_2 $\mathbf{s_3}$ T change triplet symbol clamp

b) S + $\mathbf{t_1}$ s_2 $\mathbf{s_3}$ T primers
H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T template
→ H $\mathbf{t_1}$ s_2 $\mathbf{s_3}$ T change triplet symbol unification

11.
a) m $\mathbf{s_1}$ s_2 $\mathbf{t_3}$ + E primers
m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T template
→ m $\mathbf{s_1}$ s_2 $\mathbf{t_3}$ T change triplet symbol clamp

b) S + $\mathbf{s_1}$ s_2 $\mathbf{t_3}$ T
H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T
→ H $\mathbf{s_1}$ s_2 $\mathbf{t_3}$ T change triplet symbol unification

12.
a) m $\mathbf{x_1}$ x_2 $\mathbf{s_3}$ + E primers
+ m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T template
→ m $\mathbf{x_1}$ x_2 $\mathbf{s_3}$ T change triplet to xx clamp

b) S + $\mathbf{x_1}$ x_2 $\mathbf{s_3}$ T primers
H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T template
→ H $\mathbf{x_1}$ x_2 $\mathbf{s_3}$ T change triplet to xx unification

13.
a) m $\mathbf{s_1}$ x_2 $\mathbf{x_3}$ + E primers
+ m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T template
→ m $\mathbf{s_1}$ x_2 $\mathbf{x_3}$ T change triplet to xx clamp

b) S + $\mathbf{s_1}$ x_2 $\mathbf{x_3}$ T
H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T
→ H $\mathbf{s_1}$ x_2 $\mathbf{x_3}$ T change triplet to xx unification

14.
a) m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ + E primers
+ m $\mathbf{x_1}$ x_2 $\mathbf{s_3}$ T template
→ m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T change triplet from xx clamp

b) S + $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T
H $\mathbf{x_1}$ x_2 $\mathbf{s_3}$ T

→ H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T change triplet from xx unification

15.

a) m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ + E primers
m $\mathbf{s_1}$ x_2 $\mathbf{x_3}$ T template
→ m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T change triplet from xx clamp

b) S + $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T primers
H $\mathbf{s_1}$ x_2 $\mathbf{x_3}$ T template
→ H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T change triplet from xx unification

16.

a) m $\mathbf{s_1}$ y_2 $\mathbf{s_3}$ + E primers
m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T template
→ m $\mathbf{s_1}$ y_2 $\mathbf{s_3}$ T change middle to y clamp

b) S + $\mathbf{s_1}$ y_2 $\mathbf{s_3}$ T primers
H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T template
→ H $\mathbf{s_1}$ y_2 $\mathbf{s_3}$ T change middle to y unification

17.

a) m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ + E primers
m $\mathbf{s_1}$ y_2 $\mathbf{s_3}$ T template
→ m $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T change middle from y clamp

b) S + $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T primers
H $\mathbf{s_1}$ y_2 $\mathbf{s_3}$ T template
→ H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T change middle from y unification

18.

a) m $\mathbf{s_1}$ y $\mathbf{s_2}$ + E primers
m $\mathbf{s_1}$ $\mathbf{s_2}$ T template
→ m $\mathbf{s_1}$ y $\mathbf{s_2}$ T Insertion of y in middle clamp

b) S + $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T primers
H $\mathbf{s_1}$ $\mathbf{s_2}$ template
→ H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T Insertion of s in middle unification

19.

a) m $\mathbf{s_1}$ $\mathbf{s_2}$ + E primers
m $\mathbf{s_1}$ y $\mathbf{s_2}$ T template
→ m $\mathbf{s_1}$ y $\mathbf{s_2}$ T Deletion of y in middle clamp

b) S + $\mathbf{s_1}$ $\mathbf{s_2}$ T primers
H $\mathbf{s_1}$ s_2 $\mathbf{s_3}$ T template
→ H $\mathbf{s_1}$ $\mathbf{s_2}$ T Deletion of s in middle unification

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Swap ce->ec:

Step	In State1	In State2	Operation Type	Out State
1)	HceT	-	1.a	mceT
2)	mceT	-	2.a	m**ce**T
3)	m**ce**T	-	8.a	m**xx**T
4)	m**xx**T	-	9.a	m**ec**T
5)	m**ec**T	-	3.a	mecT
6)	m**ce**T	-	1.b	**ce**T
7)	m**xx**T	-	1.b	**xx**T
8)	m**ec**T	-	1.b	**ec**T
9)	mecT	-	1.b	ecT
10)	HceT	**ce**T	2.b	H**ce**T
11)	H**ce**T	**xx**T	8.b	H**xx**T
12)	H**xx**T	**ec**T	9.b	H**ec**T
13)	H**ec**T	ecT	3.b	HecT

%%%%%%%%%%%%%%%%%%%%

Insertion ec->eca:

Step	In State1	In State2	Operation Type	Out State
1)	HecT	-	1.a	mecT
2)	mecT	-	2.a	m**ec**T
3)	m**ec**T	-	18.a	me**y**c**c**T
4)	me**y**c**c**T	-	17.a	me**c**c**c**T
5)	me**c**c**c**T	-	11.a	me**c**a**a**T
6)	me**c**a**a**T	-	5.a	mecaT
7)	m**ec**T	-	1.b	**ec**T
8)	me**ca**T	-	1.b	**ec**a**a**T
9)	mecaT	-	1.b	ecaT
10)	HecT	**ec**T	2.b	H**ec**T
11)	H**ec**T	**ec**a**a**T	18.b	He**c**a**a**T
12)	He**c**a**a**T	ecaT	5.b	HecaT

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Deletion eca->ec:

Step	In State1	In State2	Operation Type	Out State
1)	HecaT	-	1.a	mecaT
2)	mecaT	-	4.a	me**c**a**a**T

3)	mecaT	-	16.a	meyaT
4)	meyaT	-	19.a	meaT
5)	meaT	-	7.a	mecT
6)	mecT	-	3.a	mecT
7)	mecaT	-	1.b	ecaT
8)	mecT	-	1.b	ecT
9)	mecT	-	1.b	ecT
10)	HecaT	ecaT	4.b	HecaT
11)	HecaT	ecT	19.b	HecT
12)	HecT	ecT	3.b	HecT

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Rule ce->eca

Step	In State1	In State2	Operation Type	Out State
1)	HceT	-	1.a	mceT
2)	mceT	-	2.a	mceT
3)	mceT	-	8.a	mxxT
4)	mxxT	-	9.a	mecT
5)	mecT	-	18.a	meycT
6)	meycT	-	17.a	meccT
7)	meccT	-	11.a	mecaT
8)	mecaT	-	5.a	mecaT
9)	mceT	-	1.b	ceT
10)	mxxT	-	1.b	xxT
11)	mecT	-	1.b	ecT
12)	mecaT	-	1.b	ecaT
13)	mecaT	-	1.b	ecaT
14)	HceT	ceT	2.b	HceT
15)	HceT	xxT	8.b	HxxT
16)	HxxT	ecT	9.b	HecT
17)	HecT	ecaT	18.b	HecaT
18)	HecaT	ecaT	5.b	HecaT

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Rule eca->ce

Step	In State1	In State2	Operation Type	Out State
1)	HecaT	-	1.a	mecaT
2)	mecaT	-	4.a	mecaT
3)	mecaT	-	16.a	meyaT
4)	meyaT	-	19.a	meaT
5)	meaT	-	7.a	mecT
6)	mecT	-	8.a	mxxT

7)	m**xx**T	-	9.a	m**ce**T
8)	m**ce**T	-	3.a	mceT
9)	m**e**c**a**T	-	1.b	**e**c**a**T
10)	m**ec**T	-	1.b	**ec**T
11)	m**xx**T	-	1.b	**xx**T
12)	m**ce**T	-	1.b	**ce**T
13)	mceT	-	1.b	ceT
14)	HecaT	**e**c**a**T	4.b	H**e**c**a**T
15)	H**e**c**a**T	**ec**T	19.b	H**ec**T
16)	H**ec**T	**xx**T	8.b	H**xx**T
17)	H**xx**T	**ce**T	9.b	H**ce**T
18)	H**ce**T	ceT	3.b	HceT

3. DNA Binding Estimates.

Rule Recognition Description

The rule recognition data set contains hybridisation data between the antecedent of each rewrite rule extended with the clamp and target sequences consisting of all relevant combinations of Thue symbols. For each rule antecedent we generated two sets of target sequences: matching and mismatching. The aim is to demonstrate that matching sequences are energetically more favourable compared to mismatching sequences.

Let us describe the data in more detail using the following example. Consider a rule ac->ca and its antecedent sequence extended with the clamp: clamp_s_a_s_c_s, where s is the spacer symbol.

The matching set consists of all sequences of the form s_X_s_Y_s_Z_s_a_s_c_s where X,Y,Z are ranging over all Thue symbols. Let us note that the number of nucleobases in s_X_s_Y_s_Z_s it greater than the number of nucliobases in the clamp and therefore s_X_s_Y_s_Z_s_a_s_c_s covers all possible matching cases.

The mismatching set consists of all sequences of the form s_X_s_Y_s_Z_s_U_s_c_s and s_X_s_Y_s_Z_s_a_s_V_s, which do not match s_a_s_c_s, where X,Y,Z,U,V are ranging over all symbols. Informally, these target sequences represent all symbol combinations which cover the clamp and all possible one symbol mismatches of the rule antecedent. These sequences represent all mismatches closest to the prefect match.

The matching data for the rule antecedent "ac" is contained in the file s_a_s_c_s_matches_dG.data and the mismatching data is contained in the file s_a_s_c_s_mismatches_dG.data. The data is sorted in increasing order with respect to dG. The data set contains dG for matching and mismatching sequences for all rule antecedents of our universal Thue rewrite system.

The data is summarised below which contains maxima and minima of matching and mismatching energies for all rule antecedents. In all cases we can observe dG of matching sequences is lower than of mismatching sequences and therefore matching sequences are energetically more favorable than mismatching sequences.

The hybridisation energies where computed using the UNAFold v3.9 system [1] with parameters:
0.002M [Mg++]
0.05M [Na+]
0.0000005M <total strand concentration>

[1] Markham, N. R. & Zuker, M. (2008) UNAFold: software for nucleic acid folding and hybridization. In Keith, J. M., editor, 4 of 8 Bioinformatics, Volume II. Structure, Functions and Applications, number 453 in Methods in Molecular Biology, chapter 1, pages 3-31. Humana Press, Totowa, NJ.

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Rule Recognition Summary

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s_a_s_c_s_matches_dG.data
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     1 >s_a_s_c_s_d_s_a_s_c_s  GTGTCTGTGTGGGTGACGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.4 (min dG)
   125 >s_d_s_e_s_d_s_a_s_c_s  GTGACGGTGCTGGTGACGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1 (max dG)

s_a_s_c_s_mismatches_dG.data
     1 >s_b_s_b_s_c_s_d_s_c_s  GTGGCTGTGGCTGTGTGGGTGACGGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -16.0 (min dG)
   896 >s_e_s_e_s_e_s_a_s_b_s  GTGCTGGTGCTGGTGCTGGTGTCTGTGGCTGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -9.9 (max dG)

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s_a_s_d_s_matches_dG.data
     1 >s_a_s_d_s_d_s_a_s_d_s  GTGTCTGTGACGGTGACGGTGTCTGTGACGGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.6 (min dG)
   125 >s_d_s_e_s_d_s_a_s_d_s  GTGACGGTGCTGGTGACGGTGTCTGTGACGGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2 (max dG)

s_a_s_d_s_mismatches_dG.data
     1 >s_a_s_a_s_b_s_d_s_d_s  GTGTCTGTGTCTGTGGCTGTGACGGTGACGGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2 (min dG)
   896 >s_e_s_e_s_e_s_a_s_a_s  GTGCTGGTGCTGGTGCTGGTGTCTGTGTCTGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4 (max dG)

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s_b_s_c_s_matches_dG.data
     1 >s_b_s_b_s_c_s_b_s_c_s  GTGGCTGTGGCTGTGTGGGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.8 (min dG)
   125 >s_d_s_e_s_d_s_b_s_c_s  GTGACGGTGCTGGTGACGGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4 (max dG)

s_b_s_c_s_mismatches_dG.data
     1 >s_b_s_a_s_c_s_d_s_c_s  GTGGCTGTGTCTGTGTGGGTGACGGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.6 (min dG)
   896 >s_e_s_e_s_e_s_d_s_c_s  GTGCTGGTGCTGGTGCTGGTGACGGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1 (max dG)

========================================
s_b_s_d_s_matches_dG.data
     1 >s_b_s_b_s_d_s_b_s_d_s  GTGGCTGTGGCTGTGACGGTGGCTGTGACGGTG;  >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -19.0 (min dG)
   125 >s_d_s_e_s_d_s_b_s_d_s  GTGACGGTGCTGGTGACGGTGGCTGTGACGGTG;  >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6 (max dG)

s_b_s_d_s_mismatches_dG.data
     1 >s_b_s_b_s_a_s_d_s_d_s  GTGGCTGTGGCTGTGTCTGTGACGGTGACGGTG;  >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.2 (min dG)
   896 >s_e_s_e_s_e_s_e_s_d_s  GTGCTGGTGCTGGTGCTGGTGCTGGTGACGGTG;  >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3 (max dG)

========================================
s_c_s_a_s_matches_dG.data
     1 >s_a_s_c_s_a_s_c_s_a_s  GTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;  >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.4 (min dG)
   125 >s_d_s_e_s_d_s_c_s_a_s  GTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG;  >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1 (max dG)

s_c_s_a_s_mismatches_dG.data
     1 >s_b_s_c_s_b_s_d_s_a_s  GTGGCTGTGTGGGTGGCTGTGACGGTGTCTGTG;  >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -16.0 (min dG)
   896 >s_e_s_e_s_e_s_b_s_a_s  GTGCTGGTGCTGGTGCTGGTGGCTGTGTCTGTG;  >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0 (max dG)

========================================
s_c_s_b_s_matches_dG.data
     1 >s_c_s_b_s_d_s_c_s_b_s  GTGTGGGTGGCTGTGACGGTGTGGGTGGCTGTG;  >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.8 (min dG)
   125 >s_d_s_e_s_d_s_c_s_b_s  GTGACGGTGCTGGTGACGGTGTGGGTGGCTGTG;  >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4 (max dG)

s_c_s_b_s_mismatches_dG.data
     1 >s_b_s_c_s_a_s_d_s_b_s  GTGGCTGTGTGGGTGTCTGTGACGGTGGCTGTG;  >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -13.6 (min dG)
```

```
   896 >s_e_s_e_s_e_s_c_s_c_s  GTGCTGGTGCTGGTGCTGGTGTGGGTGTGGGTG;  >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5 (max dG)

========================================
s_c_s_d_s_c_s_a_s_e_s_matches_dG.data
     1 >s_a_s_a_s_a_s_c_s_d_s_c_s_a_s_e_s
GTGTCTGTGTCTGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.6 (min dG)
   125 >s_d_s_e_s_d_s_c_s_d_s_c_s_a_s_e_s
GTGACGGTGCTGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5 (max dG)

s_c_s_d_s_c_s_a_s_e_s_mismatches_dG.data
     1 >s_c_s_a_s_a_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTCTGTGTCTGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6 (min dG)
  2500 >s_b_s_e_s_e_s_c_s_a_s_c_s_a_s_e_s
GTGGCTGTGCTGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.1 (max dG)

========================================
s_c_s_d_s_c_s_a_s_matches_dG.data
     1 >s_a_s_a_s_a_s_c_s_d_s_c_s_a_s          GTGTCTGTGTCTGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev  CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC;  dG  =  -34.0
(min dG)
   125 >s_d_s_e_s_d_s_c_s_d_s_c_s_a_s          GTGACGGTGCTGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev  CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC;  dG  =  -33.9
(max dG)

s_c_s_d_s_c_s_a_s_mismatches_dG.data
     1 >s_c_s_d_s_c_s_b_s_d_s_c_s_a_s          GTGTGGGTGACGGTGTGGGTGGCTGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev  CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC;  dG  =  -32.3
(min dG)
  1994 >s_a_s_b_s_a_s_c_s_a_s_c_s_a_s          GTGTCTGTGGCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev  CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC;  dG  =  -24.5
(max dG)

========================================
s_c_s_e_s_matches_dG.data
     1 >s_c_s_e_s_d_s_c_s_e_s  GTGTGGGTGCTGGTGACGGTGTGGGTGCTGGTG;  >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.8 (min dG)
   125 >s_d_s_e_s_d_s_c_s_e_s  GTGACGGTGCTGGTGACGGTGTGGGTGCTGGTG;  >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4 (max dG)

s_c_s_e_s_mismatches_dG.data
     1 >s_a_s_a_s_c_s_c_s_d_s  GTGTCTGTGTCTGTGTGGGTGTGGGTGACGGTG;  >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8 (min dG)
   896 >s_e_s_d_s_d_s_c_s_a_s  GTGCTGGTGACGGTGACGGTGTGGGTGTCTGTG;  >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.7 (max dG)

========================================
s_d_s_a_s_matches_dG.data
     1 >s_e_s_d_s_a_s_d_s_a_s  GTGCTGGTGACGGTGTCTGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -18.1 (min dG)
   125 >s_d_s_e_s_d_s_d_s_a_s  GTGACGGTGCTGGTGACGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2 (max dG)

s_d_s_a_s_mismatches_dG.data
     1 >s_a_s_d_s_b_s_d_s_e_s  GTGTCTGTGACGGTGGCTGTGACGGTGCTGGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.2 (min dG)
   896 >s_a_s_a_s_a_s_a_s_a_s  GTGTCTGTGTCTGTGTCTGTGTCTGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -8.8 (max dG)

========================================
s_d_s_b_s_matches_dG.data
     1 >s_a_s_d_s_b_s_d_s_b_s  GTGTCTGTGACGGTGGCTGTGACGGTGGCTGTG;  >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -19.5 (min dG)
   125 >s_d_s_e_s_d_s_d_s_b_s  GTGACGGTGCTGGTGACGGTGACGGTGGCTGTG;  >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6 (max dG)

s_d_s_b_s_mismatches_dG.data
     1 >s_a_s_d_s_a_s_d_s_e_s  GTGTCTGTGACGGTGTCTGTGACGGTGCTGGTG;  >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -13.8 (min dG)
```

```
   896 >s_e_s_e_s_e_s_a_s_b_s  GTGCTGGTGCTGGTGCTGGTGTCTGTGGCTGTG;  >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -9.9 (max dG)

========================================
s_d_s_e_s_matches_dG.data
     1 >s_a_s_d_s_e_s_d_s_e_s  GTGTCTGTGACGGTGCTGGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -19.5 (min dG)
   125 >s_d_s_e_s_c_s_d_s_e_s  GTGACGGTGCTGGTGTGGGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6 (max dG)

s_d_s_e_s_mismatches_dG.data
     1 >s_a_s_d_s_c_s_d_s_d_s  GTGTCTGTGACGGTGTGGGTGACGGTGACGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9 (min dG)
   896 >s_a_s_c_s_b_s_a_s_e_s  GTGTCTGTGTGGGTGGCTGTGTCTGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -9.9 (max dG)

========================================
s_e_s_c_s_a_s_matches_dG.data
     1 >s_a_s_a_s_a_s_e_s_c_s_a_s                    GTGTCTGTGTCTGTGTCTGTGCTGGTGTGGGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -25.7 (min dG)
   125 >s_d_s_e_s_d_s_e_s_c_s_a_s                    GTGACGGTGCTGGTGACGGTGCTGGTGTGGGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -25.6 (max dG)

s_e_s_c_s_a_s_mismatches_dG.data
     1 >s_e_s_c_s_b_s_d_s_c_s_a_s                    GTGCTGGTGTGGGTGGCTGTGACGGTGTGGGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -24.0 (min dG)
  1483 >s_d_s_b_s_c_s_e_s_b_s_a_s                    GTGACGGTGGCTGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5 (max dG)

========================================
s_e_s_d_s_b_s_matches_dG.data
     1 >s_a_s_a_s_a_s_e_s_d_s_b_s                    GTGTCTGTGTCTGTGTCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2 (min dG)
   125 >s_d_s_e_s_d_s_e_s_d_s_b_s                    GTGACGGTGCTGGTGACGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2 (max dG)

s_e_s_d_s_b_s_mismatches_dG.data
     1 >s_d_s_c_s_d_s_b_s_d_s_b_s                    GTGACGGTGTGGGTGACGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.5 (min dG)
  1483 >s_d_s_a_s_e_s_e_s_a_s_b_s                    GTGACGGTGTCTGTGCTGGTGCTGGTGTCTGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -17.7 (max dG)

*******************************************************************************


AC Matches

     1 >s_a_s_c_s_d_s_a_s_c_s  GTGTCTGTGTGGGTGACGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.4
     2 >s_b_s_a_s_c_s_a_s_c_s  GTGGCTGTGTCTGTGTGGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.4
     3 >s_a_s_a_s_c_s_a_s_c_s  GTGTCTGTGTCTGTGTGGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.4
     4 >s_e_s_a_s_c_s_a_s_c_s  GTGCTGGTGTCTGTGTGGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.3
     5 >s_c_s_a_s_c_s_a_s_c_s  GTGTGGGTGTCTGTGTGGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.3
     6 >s_d_s_a_s_c_s_a_s_c_s  GTGACGGTGTCTGTGTGGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.3
     7 >s_a_s_a_s_a_s_a_s_c_s  GTGTCTGTGTCTGTGTCTGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
     8 >s_a_s_b_s_e_s_a_s_c_s  GTGTCTGTGGCTGTGCTGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
     9 >s_d_s_e_s_e_s_a_s_c_s  GTGACGGTGCTGGTGCTGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
    10 >s_e_s_a_s_a_s_a_s_c_s  GTGCTGGTGTCTGTGTCTGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
    11 >s_e_s_a_s_b_s_a_s_c_s  GTGCTGGTGTCTGTGGCTGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
    12 >s_e_s_a_s_d_s_a_s_c_s  GTGCTGGTGTCTGTGACGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
    13 >s_e_s_a_s_e_s_a_s_c_s  GTGCTGGTGTCTGTGCTGGTGTCTGTGTGGGTG;  >clamp_s_a_s_c_s:compl:rev
CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
```

14 >s_e_s_b_s_a_s_a_s_c_s GTGCTGGTGGCTGTGTCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
15 >s_e_s_b_s_b_s_a_s_c_s GTGCTGGTGGCTGTGGCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
16 >s_e_s_b_s_c_s_a_s_c_s GTGCTGGTGGCTGTGTGGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
17 >s_e_s_b_s_d_s_a_s_c_s GTGCTGGTGGCTGTGACGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
18 >s_a_s_c_s_a_s_a_s_c_s GTGTCTGTGTGGGTGTCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
19 >s_e_s_b_s_e_s_a_s_c_s GTGCTGGTGGCTGTGCTGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
20 >s_e_s_c_s_a_s_a_s_c_s GTGCTGGTGTGGGTGTCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
21 >s_e_s_c_s_b_s_a_s_c_s GTGCTGGTGTGGGTGGCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
22 >s_e_s_c_s_c_s_a_s_c_s GTGCTGGTGTGGGTGTGGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
23 >s_e_s_c_s_d_s_a_s_c_s GTGCTGGTGTGGGTGACGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
24 >s_e_s_c_s_e_s_a_s_c_s GTGCTGGTGTGGGTGCTGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
25 >s_e_s_d_s_a_s_a_s_c_s GTGCTGGTGACGGTGTCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
26 >s_e_s_d_s_b_s_a_s_c_s GTGCTGGTGACGGTGGCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
27 >s_e_s_d_s_c_s_a_s_c_s GTGCTGGTGACGGTGTGGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
28 >s_e_s_d_s_d_s_a_s_c_s GTGCTGGTGACGGTGACGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
29 >s_a_s_c_s_b_s_a_s_c_s GTGTCTGTGTGGGTGGCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
30 >s_e_s_d_s_e_s_a_s_c_s GTGCTGGTGACGGTGCTGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
31 >s_e_s_e_s_a_s_a_s_c_s GTGCTGGTGCTGGTGTCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
32 >s_e_s_e_s_b_s_a_s_c_s GTGCTGGTGCTGGTGGCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
33 >s_e_s_e_s_c_s_a_s_c_s GTGCTGGTGCTGGTGTGGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
34 >s_e_s_e_s_d_s_a_s_c_s GTGCTGGTGCTGGTGACGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
35 >s_e_s_e_s_e_s_a_s_c_s GTGCTGGTGCTGGTGCTGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
36 >s_a_s_c_s_c_s_a_s_c_s GTGTCTGTGTGGGTGTGGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
37 >s_a_s_c_s_e_s_a_s_c_s GTGTCTGTGTGGGTGCTGGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
38 >s_a_s_d_s_a_s_a_s_c_s GTGTCTGTGACGGTGTCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
39 >s_a_s_d_s_b_s_a_s_c_s GTGTCTGTGACGGTGGCTGTGTCTGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -17.1
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****

AC Mismatches

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2 >s_a_s_b_s_c_s_d_s_c_s GTGTCTGTGGCTGTGTGGGTGACGGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -16.0
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209 >s_d_s_c_s_c_s_d_s_c_s GTGACGGTGTGGGTGTGGGTGACGGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -12.3
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212 >s_a_s_d_s_c_s_d_s_c_s GTGTCTGTGACGGTGTGGGTGACGGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -12.0
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219 >s_d_s_a_s_d_s_c_s_c_s GTGACGGTGTCTGTGACGGTGTGGGTGTGGGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -11.9
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866 >s_c_s_e_s_b_s_a_s_b_s GTGTGGGTGCTGGTGGCTGTGTCTGTGGCTGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -10.0
867 >s_d_s_a_s_b_s_a_s_b_s GTGACGGTGTCTGTGGCTGTGTCTGTGGCTGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -10.0
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869 >s_d_s_d_s_b_s_a_s_b_s GTGACGGTGACGGTGGCTGTGTCTGTGGCTGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -10.0
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881 >s_c_s_e_s_d_s_a_s_b_s GTGTGGGTGCTGGTGACGGTGTCTGTGGCTGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -9.9
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884 >s_d_s_b_s_d_s_a_s_b_s GTGACGGTGGCTGTGACGGTGTCTGTGGCTGTG; >clamp_s_a_s_c_s:compl:rev CACCCACACAGACACTATCATGTTGACATTCC; dG = -9.9

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   896 >s_e_s_e_s_e_s_a_s_b_s  GTGCTGGTGCTGGTGCTGGTGTCTGTGGCTGTG;  >clamp_s_a_s_c_s:compl:rev
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AD Matches

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     2 >s_e_s_a_s_d_s_a_s_d_s  GTGCTGGTGTCTGTGACGGTGTCTGTGACGGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.5
     3 >s_b_s_a_s_d_s_a_s_d_s  GTGGCTGTGTCTGTGACGGTGTCTGTGACGGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.5
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CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.5
     5 >s_c_s_a_s_d_s_a_s_d_s  GTGTGGGTGTCTGTGACGGTGTCTGTGACGGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.5
     6 >s_d_s_a_s_d_s_a_s_d_s  GTGACGGTGTCTGTGACGGTGTCTGTGACGGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.5
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107 >s_c_s_d_s_e_s_a_s_d_s GTGTGGGTGACGGTGCTGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
108 >s_c_s_e_s_c_s_a_s_d_s GTGTGGGTGCTGGTGTGGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
109 >s_c_s_e_s_d_s_a_s_d_s GTGTGGGTGCTGGTGACGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
110 >s_c_s_e_s_e_s_a_s_d_s GTGTGGGTGCTGGTGCTGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
111 >s_d_s_a_s_c_s_a_s_d_s GTGACGGTGTCTGTGTGGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
112 >s_a_s_b_s_c_s_a_s_d_s GTGTCTGTGGCTGTGTGGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
113 >s_d_s_a_s_e_s_a_s_d_s GTGACGGTGTCTGTGCTGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
114 >s_d_s_b_s_c_s_a_s_d_s GTGACGGTGGCTGTGTGGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
115 >s_d_s_b_s_d_s_a_s_d_s GTGACGGTGGCTGTGACGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
116 >s_d_s_b_s_e_s_a_s_d_s GTGACGGTGGCTGTGCTGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
117 >s_d_s_c_s_c_s_a_s_d_s GTGACGGTGTGGGTGTGGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
118 >s_d_s_c_s_d_s_a_s_d_s GTGACGGTGTGGGTGACGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
119 >s_a_s_b_s_d_s_a_s_d_s GTGTCTGTGGCTGTGACGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
120 >s_d_s_c_s_e_s_a_s_d_s GTGACGGTGTGGGTGCTGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
121 >s_d_s_d_s_c_s_a_s_d_s GTGACGGTGACGGTGTGGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
122 >s_d_s_d_s_d_s_a_s_d_s GTGACGGTGACGGTGACGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
123 >s_d_s_d_s_e_s_a_s_d_s GTGACGGTGACGGTGCTGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
124 >s_d_s_e_s_c_s_a_s_d_s GTGACGGTGCTGGTGTGGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2
125 >s_d_s_e_s_d_s_a_s_d_s GTGACGGTGCTGGTGACGGTGTCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -17.2

****

AD Mismatches

1 >s_a_s_a_s_b_s_d_s_d_s GTGTCTGTGTCTGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
2 >s_b_s_a_s_b_s_d_s_d_s GTGGCTGTGTCTGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
3 >s_b_s_b_s_b_s_d_s_d_s GTGGCTGTGGCTGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
4 >s_b_s_b_s_d_s_d_s_d_s GTGGCTGTGGCTGTGACGGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2

5 >s_c_s_a_s_b_s_d_s_d_s GTGTGGGTGTCTGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
6 >s_c_s_b_s_b_s_d_s_d_s GTGTGGGTGGCTGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
7 >s_a_s_b_s_b_s_d_s_d_s GTGTCTGTGGCTGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
8 >s_d_s_a_s_b_s_d_s_d_s GTGACGGTGTCTGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
9 >s_d_s_b_s_b_s_d_s_d_s GTGACGGTGGCTGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
10 >s_a_s_b_s_d_s_d_s_d_s GTGTCTGTGGCTGTGACGGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
11 >s_e_s_a_s_b_s_d_s_d_s GTGCTGGTGTCTGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
12 >s_e_s_b_s_b_s_d_s_d_s GTGCTGGTGGCTGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.2
13 >s_a_s_e_s_b_s_d_s_d_s GTGTCTGTGCTGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
14 >s_b_s_c_s_b_s_d_s_d_s GTGGCTGTGTGGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
15 >s_b_s_d_s_b_s_d_s_d_s GTGGCTGTGACGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
16 >s_b_s_e_s_b_s_d_s_d_s GTGGCTGTGCTGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
17 >s_c_s_b_s_d_s_d_s_d_s GTGTGGGTGGCTGTGACGGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
18 >s_c_s_c_s_b_s_d_s_d_s GTGTGGGTGTGGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
19 >s_c_s_d_s_b_s_d_s_d_s GTGTGGGTGACGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
20 >s_c_s_e_s_b_s_d_s_d_s GTGTGGGTGCTGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
21 >s_d_s_b_s_d_s_d_s_d_s GTGACGGTGGCTGTGACGGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
22 >s_d_s_c_s_b_s_d_s_d_s GTGACGGTGTGGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
23 >s_d_s_d_s_b_s_d_s_d_s GTGACGGTGACGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
24 >s_d_s_e_s_b_s_d_s_d_s GTGACGGTGCTGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
25 >s_e_s_b_s_d_s_d_s_d_s GTGCTGGTGGCTGTGACGGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
26 >s_e_s_c_s_b_s_d_s_d_s GTGCTGGTGTGGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
27 >s_a_s_c_s_b_s_d_s_d_s GTGTCTGTGTGGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
28 >s_e_s_d_s_b_s_d_s_d_s GTGCTGGTGACGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
29 >s_e_s_e_s_b_s_d_s_d_s GTGCTGGTGCTGGTGGCTGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -16.1
30 >s_b_s_b_s_d_s_b_s_d_s GTGGCTGTGGCTGTGACGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.7
31 >s_a_s_b_s_d_s_b_s_d_s GTGTCTGTGGCTGTGACGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.7
32 >s_b_s_b_s_d_s_a_s_e_s GTGGCTGTGGCTGTGACGGTGTCTGTGCTGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
33 >s_b_s_b_s_d_s_a_s_c_s GTGGCTGTGGCTGTGACGGTGTCTGTGTGGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
34 >s_b_s_b_s_d_s_a_s_b_s GTGGCTGTGGCTGTGACGGTGTCTGTGGCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
35 >s_b_s_b_s_d_s_a_s_a_s GTGGCTGTGGCTGTGACGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
36 >s_b_s_b_s_d_s_c_s_d_s GTGGCTGTGGCTGTGACGGTGTGGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
37 >s_b_s_d_s_d_s_a_s_e_s GTGGCTGTGACGGTGACGGTGTCTGTGCTGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
38 >s_b_s_d_s_d_s_a_s_c_s GTGGCTGTGACGGTGACGGTGTCTGTGTGGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
39 >s_b_s_d_s_d_s_a_s_b_s GTGGCTGTGACGGTGACGGTGTCTGTGGCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
40 >s_b_s_d_s_d_s_a_s_a_s GTGGCTGTGACGGTGACGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
41 >s_b_s_d_s_d_s_e_s_d_s GTGGCTGTGACGGTGACGGTGCTGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6

42 >s_b_s_d_s_d_s_d_s_d_s GTGGCTGTGACGGTGACGGTGACGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
43 >s_b_s_d_s_d_s_c_s_d_s GTGGCTGTGACGGTGACGGTGTGGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
44 >s_b_s_d_s_d_s_b_s_d_s GTGGCTGTGACGGTGACGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
45 >s_c_s_b_s_d_s_b_s_d_s GTGTGGGTGGCTGTGACGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
46 >s_a_s_b_s_d_s_a_s_e_s GTGTCTGTGGCTGTGACGGTGTCTGTGCTGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
47 >s_a_s_b_s_d_s_a_s_c_s GTGTCTGTGGCTGTGACGGTGTCTGTGTGGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
48 >s_a_s_b_s_d_s_a_s_b_s GTGTCTGTGGCTGTGACGGTGTCTGTGGCTGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
49 >s_a_s_b_s_d_s_a_s_a_s GTGTCTGTGGCTGTGACGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
50 >s_d_s_b_s_d_s_b_s_d_s GTGACGGTGGCTGTGACGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
51 >s_a_s_b_s_d_s_c_s_d_s GTGTCTGTGGCTGTGACGGTGTGGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
52 >s_e_s_b_s_d_s_b_s_d_s GTGCTGGTGGCTGTGACGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.6
53 >s_b_s_b_s_d_s_e_s_d_s GTGGCTGTGGCTGTGACGGTGCTGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
54 >s_c_s_b_s_d_s_a_s_e_s GTGTGGGTGGCTGTGACGGTGTCTGTGCTGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
55 >s_c_s_b_s_d_s_a_s_c_s GTGTGGGTGGCTGTGACGGTGTCTGTGTGGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
56 >s_c_s_b_s_d_s_a_s_b_s GTGTGGGTGGCTGTGACGGTGTCTGTGGCTGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
57 >s_c_s_b_s_d_s_a_s_a_s GTGTGGGTGGCTGTGACGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
58 >s_c_s_b_s_d_s_c_s_d_s GTGTGGGTGGCTGTGACGGTGTGGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
59 >s_d_s_b_s_d_s_a_s_e_s GTGACGGTGGCTGTGACGGTGTCTGTGCTGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
60 >s_d_s_b_s_d_s_a_s_c_s GTGACGGTGGCTGTGACGGTGTCTGTGTGGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
61 >s_d_s_b_s_d_s_a_s_b_s GTGACGGTGGCTGTGACGGTGTCTGTGGCTGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
62 >s_d_s_b_s_d_s_a_s_a_s GTGACGGTGGCTGTGACGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
63 >s_d_s_b_s_d_s_c_s_d_s GTGACGGTGGCTGTGACGGTGTGGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
64 >s_a_s_b_s_d_s_e_s_d_s GTGTCTGTGGCTGTGACGGTGCTGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
65 >s_e_s_b_s_d_s_a_s_e_s GTGCTGGTGGCTGTGACGGTGTCTGTGCTGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
66 >s_e_s_b_s_d_s_a_s_c_s GTGCTGGTGGCTGTGACGGTGTCTGTGTGGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
67 >s_e_s_b_s_d_s_a_s_b_s GTGCTGGTGGCTGTGACGGTGTCTGTGGCTGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
68 >s_e_s_b_s_d_s_a_s_a_s GTGCTGGTGGCTGTGACGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
69 >s_e_s_b_s_d_s_c_s_d_s GTGCTGGTGGCTGTGACGGTGTGGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.5
70 >s_c_s_b_s_d_s_e_s_d_s GTGTGGGTGGCTGTGACGGTGCTGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.4
71 >s_d_s_b_s_d_s_e_s_d_s GTGACGGTGGCTGTGACGGTGCTGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.4
72 >s_e_s_b_s_d_s_e_s_d_s GTGCTGGTGGCTGTGACGGTGCTGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.4
73 >s_a_s_c_s_d_s_b_s_d_s GTGTCTGTGTGGGTGACGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.3
74 >s_a_s_c_s_e_s_b_s_d_s GTGTCTGTGTGGGTGCTGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.3
75 >s_a_s_e_s_a_s_b_s_d_s GTGTCTGTGCTGGTGTCTGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.3
76 >s_a_s_e_s_b_s_b_s_d_s GTGTCTGTGCTGGTGGCTGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.3
77 >s_a_s_e_s_c_s_b_s_d_s GTGTCTGTGCTGGTGTGGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.3
78 >s_a_s_e_s_d_s_b_s_d_s GTGTCTGTGCTGGTGACGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.3

79 >s_a_s_e_s_e_s_b_s_d_s GTGTCTGTGCTGGTGCTGGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.3
80 >s_a_s_a_s_b_s_b_s_d_s GTGTCTGTGTCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.3
81 >s_b_s_a_s_a_s_b_s_d_s GTGGCTGTGTCTGTGTCTGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.3
82 >s_b_s_a_s_b_s_b_s_d_s GTGGCTGTGTCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
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182 >s_b_s_d_s_b_s_a_s_e_s GTGGCTGTGACGGTGGCTGTGTCTGTGCTGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.2
183 >s_b_s_d_s_b_s_a_s_c_s GTGGCTGTGACGGTGGCTGTGTCTGTGTGGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.2
184 >s_b_s_d_s_b_s_a_s_b_s GTGGCTGTGACGGTGGCTGTGTCTGTGGCTGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.2
185 >s_b_s_d_s_b_s_a_s_a_s GTGGCTGTGACGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.2
186 >s_b_s_d_s_b_s_e_s_d_s GTGGCTGTGACGGTGGCTGTGCTGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
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187 >s_b_s_d_s_b_s_c_s_d_s GTGGCTGTGACGGTGGCTGTGTGGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.2
188 >s_b_s_d_s_a_s_a_s_e_s GTGGCTGTGACGGTGTCTGTGTCTGTGCTGGTG; >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.1
189 >s_b_s_d_s_a_s_a_s_c_s GTGGCTGTGACGGTGTCTGTGTCTGTGTGGGTG; >clamp_s_a_s_d_s:compl:rev
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191 >s_b_s_d_s_a_s_a_s_a_s GTGGCTGTGACGGTGTCTGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.1
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193 >s_b_s_d_s_a_s_c_s_d_s GTGGCTGTGACGGTGTCTGTGTGGGTGACGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.1
194 >s_b_s_d_s_c_s_a_s_e_s GTGGCTGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -15.1
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875 >s_e_s_c_s_a_s_a_s_a_s GTGCTGGTGTGGGTGTCTGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.5
876 >s_e_s_c_s_b_s_a_s_a_s GTGCTGGTGTGGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.5
877 >s_e_s_e_s_a_s_a_s_a_s GTGCTGGTGCTGGTGTCTGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.5
878 >s_e_s_e_s_b_s_a_s_a_s GTGCTGGTGCTGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.5
879 >s_b_s_b_s_c_s_a_s_a_s GTGGCTGTGGCTGTGTGGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
880 >s_b_s_b_s_e_s_a_s_a_s GTGGCTGTGGCTGTGCTGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
881 >s_b_s_c_s_c_s_a_s_a_s GTGGCTGTGTGGGTGTGGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
882 >s_b_s_c_s_e_s_a_s_a_s GTGGCTGTGTGGGTGCTGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
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885 >s_c_s_b_s_c_s_a_s_a_s GTGTGGGTGGCTGTGTGGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
886 >s_c_s_b_s_e_s_a_s_a_s GTGTGGGTGGCTGTGCTGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
887 >s_c_s_c_s_c_s_a_s_a_s GTGTGGGTGTGGGTGTGGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
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889 >s_c_s_e_s_c_s_a_s_a_s GTGTGGGTGCTGGTGTGGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
890 >s_c_s_e_s_e_s_a_s_a_s GTGTGGGTGCTGGTGCTGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
891 >s_e_s_b_s_c_s_a_s_a_s GTGCTGGTGGCTGTGTGGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
892 >s_e_s_b_s_e_s_a_s_a_s GTGCTGGTGGCTGTGCTGGTGTCTGTGTCTGTG; >clamp_s_a_s_d_s:compl:rev CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4

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   893 >s_e_s_c_s_c_s_a_s_a_s  GTGCTGGTGTGGGTGTGGGTGTCTGTGTCTGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
   894 >s_e_s_c_s_e_s_a_s_a_s  GTGCTGGTGTGGGTGCTGGTGTCTGTGTCTGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
   895 >s_e_s_e_s_c_s_a_s_a_s  GTGCTGGTGCTGGTGTGGGTGTCTGTGTCTGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4
   896 >s_e_s_e_s_e_s_a_s_a_s  GTGCTGGTGCTGGTGCTGGTGTCTGTGTCTGTG;  >clamp_s_a_s_d_s:compl:rev
CACCGTCACAGACACTATCATGTTGACATTCC; dG = -9.4

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BC Matches

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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.8
     2 >s_b_s_c_s_d_s_b_s_c_s  GTGGCTGTGTGGGTGACGGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.8
     3 >s_a_s_b_s_c_s_b_s_c_s  GTGTCTGTGGCTGTGTGGGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.8
     4 >s_e_s_b_s_c_s_b_s_c_s  GTGCTGGTGGCTGTGTGGGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.7
     5 >s_c_s_b_s_c_s_b_s_c_s  GTGTGGGTGGCTGTGTGGGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.7
     6 >s_d_s_b_s_c_s_b_s_c_s  GTGACGGTGGCTGTGTGGGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.7
     7 >s_a_s_a_s_a_s_b_s_c_s  GTGTCTGTGTCTGTGTCTGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
     8 >s_a_s_b_s_e_s_b_s_c_s  GTGTCTGTGGCTGTGCTGGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
     9 >s_d_s_e_s_e_s_b_s_c_s  GTGACGGTGCTGGTGCTGGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
    10 >s_e_s_a_s_a_s_b_s_c_s  GTGCTGGTGTCTGTGTCTGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
    11 >s_e_s_a_s_b_s_b_s_c_s  GTGCTGGTGTCTGTGGCTGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
    12 >s_e_s_a_s_c_s_b_s_c_s  GTGCTGGTGTCTGTGTGGGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
    15 >s_e_s_b_s_a_s_b_s_c_s  GTGCTGGTGGCTGTGTCTGTGGCTGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
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31 >s_e_s_e_s_a_s_b_s_c_s GTGCTGGTGCTGGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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37 >s_a_s_c_s_d_s_b_s_c_s GTGTCTGTGTGGGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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62 >s_b_s_c_s_c_s_b_s_c_s GTGGCTGTGTGGGTGTGGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
63 >s_a_s_a_s_d_s_b_s_c_s GTGTCTGTGTCTGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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64 >s_b_s_c_s_e_s_b_s_c_s GTGGCTGTGTGGGTGCTGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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65 >s_b_s_d_s_a_s_b_s_c_s GTGGCTGTGACGGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
66 >s_b_s_d_s_b_s_b_s_c_s GTGGCTGTGACGGTGGCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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67 >s_b_s_d_s_c_s_b_s_c_s GTGGCTGTGACGGTGTGGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
68 >s_b_s_d_s_d_s_b_s_c_s GTGGCTGTGACGGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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69 >s_b_s_d_s_e_s_b_s_c_s GTGGCTGTGACGGTGCTGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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70 >s_b_s_e_s_a_s_b_s_c_s GTGGCTGTGCTGGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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71 >s_b_s_e_s_b_s_b_s_c_s GTGGCTGTGCTGGTGGCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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72 >s_b_s_e_s_c_s_b_s_c_s GTGGCTGTGCTGGTGTGGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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73 >s_b_s_e_s_d_s_b_s_c_s GTGGCTGTGCTGGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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74 >s_a_s_a_s_e_s_b_s_c_s GTGTCTGTGTCTGTGCTGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
75 >s_b_s_e_s_e_s_b_s_c_s GTGGCTGTGCTGGTGCTGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
76 >s_c_s_a_s_a_s_b_s_c_s GTGTGGGTGTCTGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
77 >s_c_s_a_s_b_s_b_s_c_s GTGTGGGTGTCTGTGGCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
78 >s_c_s_a_s_c_s_b_s_c_s GTGTGGGTGTCTGTGTGGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
79 >s_c_s_a_s_d_s_b_s_c_s GTGTGGGTGTCTGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
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81 >s_c_s_b_s_a_s_b_s_c_s GTGTGGGTGGCTGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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82 >s_c_s_b_s_b_s_b_s_c_s GTGTGGGTGGCTGTGGCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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83 >s_c_s_b_s_d_s_b_s_c_s GTGTGGGTGGCTGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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84 >s_a_s_b_s_a_s_b_s_c_s GTGTCTGTGGCTGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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86 >s_c_s_c_s_a_s_b_s_c_s GTGTGGGTGTGGGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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87 >s_c_s_c_s_b_s_b_s_c_s GTGTGGGTGTGGGTGGCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
102 >s_d_s_a_s_a_s_b_s_c_s GTGACGGTGTCTGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
103 >s_d_s_a_s_b_s_b_s_c_s GTGACGGTGTCTGTGGCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4

104 >s_d_s_a_s_c_s_b_s_c_s GTGACGGTGTCTGTGTGGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
105 >s_d_s_a_s_d_s_b_s_c_s GTGACGGTGTCTGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
106 >s_d_s_a_s_e_s_b_s_c_s GTGACGGTGTCTGTGCTGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
107 >s_d_s_b_s_a_s_b_s_c_s GTGACGGTGGCTGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
108 >s_d_s_b_s_b_s_b_s_c_s GTGACGGTGGCTGTGGCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
109 >s_d_s_b_s_d_s_b_s_c_s GTGACGGTGGCTGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
110 >s_d_s_b_s_e_s_b_s_c_s GTGACGGTGGCTGTGCTGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
111 >s_d_s_c_s_a_s_b_s_c_s GTGACGGTGTGGGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
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113 >s_d_s_c_s_c_s_b_s_c_s GTGACGGTGTGGGTGTGGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
114 >s_d_s_c_s_d_s_b_s_c_s GTGACGGTGTGGGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
115 >s_a_s_b_s_d_s_b_s_c_s GTGTCTGTGGCTGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
116 >s_d_s_c_s_e_s_b_s_c_s GTGACGGTGTGGGTGCTGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
117 >s_d_s_d_s_a_s_b_s_c_s GTGACGGTGACGGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
118 >s_d_s_d_s_b_s_b_s_c_s GTGACGGTGACGGTGGCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
119 >s_d_s_d_s_c_s_b_s_c_s GTGACGGTGACGGTGTGGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
120 >s_d_s_d_s_d_s_b_s_c_s GTGACGGTGACGGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
121 >s_d_s_d_s_e_s_b_s_c_s GTGACGGTGACGGTGCTGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
122 >s_d_s_e_s_a_s_b_s_c_s GTGACGGTGCTGGTGTCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
123 >s_d_s_e_s_b_s_b_s_c_s GTGACGGTGCTGGTGGCTGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
124 >s_d_s_e_s_c_s_b_s_c_s GTGACGGTGCTGGTGTGGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4
125 >s_d_s_e_s_d_s_b_s_c_s GTGACGGTGCTGGTGACGGTGGCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -18.4

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BC Mismatches

1 >s_b_s_a_s_c_s_d_s_c_s GTGGCTGTGTCTGTGTGGGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.6
2 >s_a_s_a_s_c_s_d_s_c_s GTGTCTGTGTCTGTGTGGGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.6
3 >s_c_s_a_s_c_s_d_s_c_s GTGTGGGTGTCTGTGTGGGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.6
4 >s_d_s_a_s_c_s_d_s_c_s GTGACGGTGTCTGTGTGGGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.5
5 >s_e_s_a_s_c_s_d_s_c_s GTGCTGGTGTCTGTGTGGGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.5
6 >s_b_s_b_s_a_s_c_s_c_s GTGGCTGTGGCTGTGTCTGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.4
7 >s_c_s_b_s_a_s_c_s_c_s GTGTGGGTGGCTGTGTCTGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.4
8 >s_a_s_b_s_a_s_c_s_c_s GTGTCTGTGGCTGTGTCTGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.4
9 >s_d_s_b_s_a_s_c_s_c_s GTGACGGTGGCTGTGTCTGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.4
10 >s_e_s_b_s_a_s_c_s_c_s GTGCTGGTGGCTGTGTCTGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.4
11 >s_b_s_b_s_d_s_c_s_c_s GTGGCTGTGGCTGTGACGGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.3
12 >s_b_s_b_s_e_s_c_s_c_s GTGGCTGTGGCTGTGCTGGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.3

13 >s_b_s_d_s_c_s_d_s_c_s GTGGCTGTGACGGTGTGGGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.3
14 >s_b_s_e_s_c_s_d_s_c_s GTGGCTGTGCTGGTGTGGGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.3
15 >s_a_s_b_s_d_s_c_s_c_s GTGTCTGTGGCTGTGACGGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.3
16 >s_a_s_b_s_e_s_c_s_c_s GTGTCTGTGGCTGTGCTGGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.3
17 >s_a_s_a_s_b_s_a_s_c_s GTGTCTGTGTCTGTGGCTGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
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19 >s_b_s_b_s_b_s_a_s_c_s GTGGCTGTGGCTGTGGCTGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
20 >s_c_s_a_s_b_s_a_s_c_s GTGTGGGTGTCTGTGGCTGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
21 >s_c_s_b_s_b_s_a_s_c_s GTGTGGGTGGCTGTGGCTGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
22 >s_c_s_b_s_d_s_c_s_c_s GTGTGGGTGGCTGTGACGGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
23 >s_c_s_b_s_e_s_c_s_c_s GTGTGGGTGGCTGTGCTGGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
24 >s_d_s_a_s_b_s_a_s_c_s GTGACGGTGTCTGTGGCTGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
25 >s_a_s_b_s_b_s_a_s_c_s GTGTCTGTGGCTGTGGCTGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
26 >s_d_s_b_s_b_s_a_s_c_s GTGACGGTGGCTGTGGCTGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
27 >s_d_s_b_s_d_s_c_s_c_s GTGACGGTGGCTGTGACGGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
28 >s_d_s_b_s_e_s_c_s_c_s GTGACGGTGGCTGTGCTGGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
29 >s_e_s_a_s_b_s_a_s_c_s GTGCTGGTGTCTGTGGCTGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
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31 >s_e_s_b_s_d_s_c_s_c_s GTGCTGGTGGCTGTGACGGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
32 >s_e_s_b_s_e_s_c_s_c_s GTGCTGGTGGCTGTGCTGGTGTGGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.2
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34 >s_a_s_c_s_d_s_a_s_c_s GTGTCTGTGTGGGTGACGGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.1
35 >s_a_s_d_s_b_s_a_s_c_s GTGTCTGTGACGGTGGCTGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.1
36 >s_a_s_a_s_c_s_b_s_e_s GTGTCTGTGTCTGTGTGGGTGGCTGTGCTGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.1
37 >s_a_s_e_s_b_s_a_s_c_s GTGTCTGTGCTGGTGGCTGTGTCTGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.1
38 >s_a_s_a_s_c_s_b_s_d_s GTGTCTGTGTCTGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.1
39 >s_a_s_a_s_c_s_b_s_b_s GTGTCTGTGTCTGTGTGGGTGGCTGTGGCTGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.1
40 >s_a_s_a_s_c_s_b_s_a_s GTGTCTGTGTCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.1
41 >s_b_s_a_s_c_s_b_s_e_s GTGGCTGTGTCTGTGTGGGTGGCTGTGCTGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -13.1
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -11.3
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -11.3
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844 >s_a_s_a_s_d_s_d_s_c_s GTGTCTGTGTCTGTGACGGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1
845 >s_c_s_a_s_a_s_e_s_c_s GTGTGGGTGTCTGTGTCTGTGCTGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1
846 >s_c_s_a_s_a_s_d_s_c_s GTGTGGGTGTCTGTGTCTGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1
847 >s_a_s_a_s_e_s_e_s_c_s GTGTCTGTGTCTGTGCTGGTGCTGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1
848 >s_c_s_a_s_d_s_e_s_c_s GTGTGGGTGTCTGTGACGGTGCTGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1
849 >s_c_s_a_s_d_s_d_s_c_s GTGTGGGTGTCTGTGACGGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1
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863 >s_d_s_a_s_d_s_d_s_c_s GTGACGGTGTCTGTGACGGTGACGGTGTGGGTG; >clamp_s_b_s_c_s:compl:rev CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1

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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1
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   873 >s_d_s_e_s_a_s_e_s_c_s  GTGACGGTGCTGGTGTCTGTGCTGGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1
   889 >s_e_s_d_s_e_s_e_s_c_s  GTGCTGGTGACGGTGCTGGTGCTGGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
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   891 >s_e_s_e_s_a_s_e_s_c_s  GTGCTGGTGCTGGTGTCTGTGCTGGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1
   892 >s_e_s_e_s_a_s_d_s_c_s  GTGCTGGTGCTGGTGTCTGTGACGGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
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CACCCACACAGCCACTATCATGTTGACATTCC; dG = -10.1
   896 >s_e_s_e_s_e_s_d_s_c_s  GTGCTGGTGCTGGTGCTGGTGACGGTGTGGGTG;  >clamp_s_b_s_c_s:compl:rev
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*******************************************************************************************


BD Matches
```

1 >s_b_s_b_s_d_s_b_s_d_s GTGGCTGTGGCTGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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2 >s_a_s_b_s_d_s_b_s_d_s GTGTCTGTGGCTGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -19.0
3 >s_e_s_b_s_d_s_b_s_d_s GTGCTGGTGGCTGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.9
4 >s_b_s_d_s_d_s_b_s_d_s GTGGCTGTGACGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.9
5 >s_c_s_b_s_d_s_b_s_d_s GTGTGGGTGGCTGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.9
6 >s_d_s_b_s_d_s_b_s_d_s GTGACGGTGGCTGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.9
7 >s_a_s_a_s_a_s_b_s_d_s GTGTCTGTGTCTGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
8 >s_a_s_b_s_e_s_b_s_d_s GTGTCTGTGGCTGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
9 >s_d_s_e_s_e_s_b_s_d_s GTGACGGTGCTGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
10 >s_e_s_a_s_a_s_b_s_d_s GTGCTGGTGTCTGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
11 >s_e_s_a_s_b_s_b_s_d_s GTGCTGGTGTCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
12 >s_e_s_a_s_c_s_b_s_d_s GTGCTGGTGTCTGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
13 >s_e_s_a_s_d_s_b_s_d_s GTGCTGGTGTCTGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
14 >s_e_s_a_s_e_s_b_s_d_s GTGCTGGTGTCTGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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15 >s_e_s_b_s_a_s_b_s_d_s GTGCTGGTGGCTGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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16 >s_e_s_b_s_b_s_b_s_d_s GTGCTGGTGGCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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17 >s_e_s_b_s_c_s_b_s_d_s GTGCTGGTGGCTGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
18 >s_a_s_c_s_a_s_b_s_d_s GTGTCTGTGTGGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
19 >s_e_s_b_s_e_s_b_s_d_s GTGCTGGTGGCTGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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20 >s_e_s_c_s_a_s_b_s_d_s GTGCTGGTGTGGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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21 >s_e_s_c_s_b_s_b_s_d_s GTGCTGGTGTGGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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22 >s_e_s_c_s_c_s_b_s_d_s GTGCTGGTGTGGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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23 >s_e_s_c_s_d_s_b_s_d_s GTGCTGGTGTGGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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24 >s_e_s_c_s_e_s_b_s_d_s GTGCTGGTGTGGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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25 >s_e_s_d_s_a_s_b_s_d_s GTGCTGGTGACGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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26 >s_e_s_d_s_b_s_b_s_d_s GTGCTGGTGACGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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27 >s_e_s_d_s_c_s_b_s_d_s GTGCTGGTGACGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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28 >s_e_s_d_s_d_s_b_s_d_s GTGCTGGTGACGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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29 >s_a_s_c_s_b_s_b_s_d_s GTGTCTGTGTGGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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31 >s_e_s_e_s_a_s_b_s_d_s GTGCTGGTGCTGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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32 >s_e_s_e_s_b_s_b_s_d_s GTGCTGGTGCTGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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36 >s_a_s_c_s_c_s_b_s_d_s GTGTCTGTGTGGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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37 >s_a_s_c_s_d_s_b_s_d_s GTGTCTGTGTGGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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38 >s_a_s_c_s_e_s_b_s_d_s GTGTCTGTGTGGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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39 >s_a_s_d_s_a_s_b_s_d_s GTGTCTGTGACGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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41 >s_a_s_d_s_c_s_b_s_d_s GTGTCTGTGACGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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42 >s_a_s_d_s_d_s_b_s_d_s GTGTCTGTGACGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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43 >s_a_s_a_s_b_s_b_s_d_s GTGTCTGTGTCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
44 >s_a_s_d_s_e_s_b_s_d_s GTGTCTGTGACGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
45 >s_a_s_e_s_a_s_b_s_d_s GTGTCTGTGCTGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
46 >s_a_s_e_s_b_s_b_s_d_s GTGTCTGTGCTGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
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CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
48 >s_a_s_e_s_d_s_b_s_d_s GTGTCTGTGCTGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
49 >s_a_s_e_s_e_s_b_s_d_s GTGTCTGTGCTGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
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CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
51 >s_b_s_a_s_b_s_b_s_d_s GTGGCTGTGTCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
52 >s_b_s_a_s_c_s_b_s_d_s GTGGCTGTGTCTGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
53 >s_b_s_a_s_d_s_b_s_d_s GTGGCTGTGTCTGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
54 >s_a_s_a_s_c_s_b_s_d_s GTGTCTGTGTCTGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
55 >s_b_s_a_s_e_s_b_s_d_s GTGGCTGTGTCTGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
56 >s_b_s_b_s_a_s_b_s_d_s GTGGCTGTGGCTGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
57 >s_b_s_b_s_b_s_b_s_d_s GTGGCTGTGGCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
58 >s_b_s_b_s_c_s_b_s_d_s GTGGCTGTGGCTGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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59 >s_b_s_b_s_e_s_b_s_d_s GTGGCTGTGGCTGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
60 >s_b_s_c_s_a_s_b_s_d_s GTGGCTGTGTGGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
61 >s_b_s_c_s_b_s_b_s_d_s GTGGCTGTGTGGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
62 >s_b_s_c_s_c_s_b_s_d_s GTGGCTGTGTGGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
63 >s_b_s_c_s_d_s_b_s_d_s GTGGCTGTGTGGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
64 >s_a_s_a_s_d_s_b_s_d_s GTGTCTGTGTCTGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
65 >s_b_s_c_s_e_s_b_s_d_s GTGGCTGTGTGGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
66 >s_b_s_d_s_a_s_b_s_d_s GTGGCTGTGACGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
67 >s_b_s_d_s_b_s_b_s_d_s GTGGCTGTGACGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
68 >s_b_s_d_s_c_s_b_s_d_s GTGGCTGTGACGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
69 >s_b_s_d_s_e_s_b_s_d_s GTGGCTGTGACGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
70 >s_b_s_e_s_a_s_b_s_d_s GTGGCTGTGCTGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
71 >s_b_s_e_s_b_s_b_s_d_s GTGGCTGTGCTGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
72 >s_b_s_e_s_c_s_b_s_d_s GTGGCTGTGCTGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
73 >s_b_s_e_s_d_s_b_s_d_s GTGGCTGTGCTGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
74 >s_a_s_a_s_e_s_b_s_d_s GTGTCTGTGTCTGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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75 >s_b_s_e_s_e_s_b_s_d_s GTGGCTGTGCTGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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76 >s_c_s_a_s_a_s_b_s_d_s GTGTGGGTGTCTGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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77 >s_c_s_a_s_b_s_b_s_d_s GTGTGGGTGTCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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78 >s_c_s_a_s_c_s_b_s_d_s GTGTGGGTGTCTGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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82 >s_c_s_b_s_b_s_b_s_d_s GTGTGGGTGGCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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87 >s_c_s_c_s_b_s_b_s_d_s GTGTGGGTGTGGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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89 >s_c_s_c_s_d_s_b_s_d_s GTGTGGGTGTGGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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90 >s_c_s_c_s_e_s_b_s_d_s GTGTGGGTGTGGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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94 >s_c_s_d_s_d_s_b_s_d_s GTGTGGGTGACGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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99 >s_c_s_e_s_c_s_b_s_d_s GTGTGGGTGCTGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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100 >s_c_s_e_s_d_s_b_s_d_s GTGTGGGTGCTGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
101 >s_c_s_e_s_e_s_b_s_d_s GTGTGGGTGCTGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
102 >s_d_s_a_s_a_s_b_s_d_s GTGACGGTGTCTGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
103 >s_d_s_a_s_b_s_b_s_d_s GTGACGGTGTCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
104 >s_d_s_a_s_c_s_b_s_d_s GTGACGGTGTCTGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
105 >s_d_s_a_s_d_s_b_s_d_s GTGACGGTGTCTGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
106 >s_a_s_b_s_c_s_b_s_d_s GTGTCTGTGGCTGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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107 >s_d_s_a_s_e_s_b_s_d_s GTGACGGTGTCTGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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108 >s_d_s_b_s_a_s_b_s_d_s GTGACGGTGGCTGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
109 >s_d_s_b_s_b_s_b_s_d_s GTGACGGTGGCTGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
110 >s_d_s_b_s_c_s_b_s_d_s GTGACGGTGGCTGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
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CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
113 >s_d_s_c_s_b_s_b_s_d_s GTGACGGTGTGGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
114 >s_d_s_c_s_c_s_b_s_d_s GTGACGGTGTGGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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115 >s_d_s_c_s_d_s_b_s_d_s GTGACGGTGTGGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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116 >s_d_s_c_s_e_s_b_s_d_s GTGACGGTGTGGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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117 >s_d_s_d_s_a_s_b_s_d_s GTGACGGTGACGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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118 >s_d_s_d_s_b_s_b_s_d_s GTGACGGTGACGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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119 >s_d_s_d_s_c_s_b_s_d_s GTGACGGTGACGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
120 >s_d_s_d_s_d_s_b_s_d_s GTGACGGTGACGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
121 >s_d_s_d_s_e_s_b_s_d_s GTGACGGTGACGGTGCTGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
122 >s_d_s_e_s_a_s_b_s_d_s GTGACGGTGCTGGTGTCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
123 >s_d_s_e_s_b_s_b_s_d_s GTGACGGTGCTGGTGGCTGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
124 >s_d_s_e_s_c_s_b_s_d_s GTGACGGTGCTGGTGTGGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6
125 >s_d_s_e_s_d_s_b_s_d_s GTGACGGTGCTGGTGACGGTGGCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -18.6

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BD Mismatches

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CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.2
2 >s_a_s_b_s_a_s_d_s_d_s GTGTCTGTGGCTGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.2
3 >s_b_s_b_s_c_s_d_s_d_s GTGGCTGTGGCTGTGTGGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
4 >s_b_s_b_s_e_s_d_s_d_s GTGGCTGTGGCTGTGCTGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
5 >s_c_s_b_s_a_s_d_s_d_s GTGTGGGTGGCTGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
6 >s_c_s_b_s_c_s_d_s_d_s GTGTGGGTGGCTGTGTGGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
7 >s_c_s_b_s_e_s_d_s_d_s GTGTGGGTGGCTGTGCTGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
8 >s_d_s_b_s_a_s_d_s_d_s GTGACGGTGGCTGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
9 >s_d_s_b_s_c_s_d_s_d_s GTGACGGTGGCTGTGTGGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
10 >s_d_s_b_s_e_s_d_s_d_s GTGACGGTGGCTGTGCTGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
11 >s_a_s_b_s_c_s_d_s_d_s GTGTCTGTGGCTGTGTGGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
12 >s_a_s_b_s_e_s_d_s_d_s GTGTCTGTGGCTGTGCTGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
13 >s_e_s_b_s_a_s_d_s_d_s GTGCTGGTGGCTGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
14 >s_e_s_b_s_c_s_d_s_d_s GTGCTGGTGGCTGTGTGGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
15 >s_e_s_b_s_e_s_d_s_d_s GTGCTGGTGGCTGTGCTGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -14.1
16 >s_b_s_a_s_a_s_d_s_d_s GTGGCTGTGTCTGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.8
17 >s_b_s_a_s_d_s_d_s_d_s GTGGCTGTGTCTGTGACGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.8
18 >s_a_s_a_s_d_s_d_s_d_s GTGTCTGTGTCTGTGACGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.8
19 >s_c_s_a_s_a_s_d_s_d_s GTGTGGGTGTCTGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.8

20 >s_d_s_a_s_a_s_d_s_d_s GTGACGGTGTCTGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.8
21 >s_a_s_a_s_a_s_d_s_d_s GTGTCTGTGTCTGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.8
22 >s_e_s_a_s_a_s_d_s_d_s GTGCTGGTGTCTGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.8
23 >s_a_s_d_s_a_s_d_s_d_s GTGTCTGTGACGGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.7
24 >s_a_s_e_s_a_s_d_s_d_s GTGTCTGTGCTGGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.7
25 >s_b_s_c_s_a_s_d_s_d_s GTGGCTGTGTGGGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.7
26 >s_b_s_e_s_a_s_d_s_d_s GTGGCTGTGCTGGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.7
27 >s_c_s_a_s_d_s_d_s_d_s GTGTGGGTGTCTGTGACGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.7
28 >s_c_s_c_s_a_s_d_s_d_s GTGTGGGTGTGGGTGTCTGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.7
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118 >s_e_s_a_s_b_s_a_s_d_s GTGCTGGTGTCTGTGGCTGTGTCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.3
119 >s_e_s_b_s_b_s_e_s_d_s GTGCTGGTGGCTGTGGCTGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.3
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167 >s_d_s_a_s_d_s_e_s_d_s GTGACGGTGTCTGTGACGGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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168 >s_e_s_a_s_d_s_e_s_d_s GTGCTGGTGTCTGTGACGGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -13.0
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170 >s_a_s_c_s_e_s_a_s_d_s GTGTCTGTGTGGGTGCTGGTGTCTGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -12.9
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415 >s_e_s_c_s_c_s_d_s_d_s GTGCTGGTGTGGGTGTGGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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416 >s_a_s_c_s_c_s_d_s_d_s GTGTCTGTGTGGGTGTGGGTGACGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
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CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -11.0
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CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -11.0
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CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -11.0
813 >s_e_s_e_s_e_s_c_s_d_s GTGCTGGTGCTGGTGCTGGTGTGGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -11.0
814 >s_a_s_c_s_e_s_b_s_a_s GTGTCTGTGTGGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
815 >s_a_s_e_s_a_s_b_s_a_s GTGTCTGTGCTGGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
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816 >s_a_s_e_s_c_s_b_s_a_s GTGTCTGTGCTGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
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CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
820 >s_b_s_a_s_a_s_b_s_a_s GTGGCTGTGTCTGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
821 >s_b_s_a_s_c_s_b_s_a_s GTGGCTGTGTCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
822 >s_b_s_a_s_e_s_b_s_a_s GTGGCTGTGTCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
823 >s_c_s_a_s_a_s_b_s_a_s GTGTGGGTGTCTGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
824 >s_a_s_a_s_e_s_b_s_a_s GTGTCTGTGTCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
825 >s_c_s_a_s_c_s_b_s_a_s GTGTGGGTGTCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
826 >s_c_s_a_s_e_s_b_s_a_s GTGTGGGTGTCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
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827 >s_c_s_b_s_a_s_b_s_a_s GTGTGGGTGGCTGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
828 >s_a_s_a_s_a_s_b_s_a_s GTGTCTGTGTCTGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
829 >s_c_s_c_s_a_s_b_s_a_s GTGTGGGTGTGGGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
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CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
831 >s_a_s_b_s_a_s_b_s_a_s GTGTCTGTGGCTGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
832 >s_c_s_c_s_e_s_b_s_a_s GTGTGGGTGTGGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
833 >s_c_s_e_s_a_s_b_s_a_s GTGTGGGTGCTGGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev
CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8

834 >s_c_s_e_s_c_s_b_s_a_s GTGTGGGTGCTGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
835 >s_c_s_e_s_e_s_b_s_a_s GTGTGGGTGCTGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
836 >s_d_s_a_s_a_s_b_s_a_s GTGACGGTGTCTGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
837 >s_d_s_a_s_c_s_b_s_a_s GTGACGGTGTCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
838 >s_d_s_a_s_e_s_b_s_a_s GTGACGGTGTCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
839 >s_d_s_b_s_a_s_b_s_a_s GTGACGGTGGCTGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
840 >s_d_s_c_s_a_s_b_s_a_s GTGACGGTGTGGGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
841 >s_d_s_c_s_c_s_b_s_a_s GTGACGGTGTGGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
842 >s_d_s_c_s_e_s_b_s_a_s GTGACGGTGTGGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
843 >s_d_s_d_s_a_s_b_s_a_s GTGACGGTGACGGTGTCTGTGGCTGTGTCTGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.8
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872 >s_e_s_e_s_d_s_e_s_d_s GTGCTGGTGCTGGTGACGGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.4
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874 >s_a_s_e_s_a_s_e_s_d_s GTGTCTGTGCTGGTGTCTGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3
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876 >s_c_s_a_s_a_s_e_s_d_s GTGTGGGTGTCTGTGTCTGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3
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882 >s_a_s_a_s_a_s_e_s_d_s GTGTCTGTGTCTGTGTCTGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3
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889 >s_d_s_e_s_e_s_e_s_d_s GTGACGGTGCTGGTGCTGGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3
890 >s_e_s_a_s_a_s_e_s_d_s GTGCTGGTGTCTGTGTCTGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3
891 >s_e_s_a_s_e_s_e_s_d_s GTGCTGGTGTCTGTGCTGGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3
892 >s_a_s_c_s_a_s_e_s_d_s GTGTCTGTGTGGGTGTCTGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3
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894 >s_e_s_c_s_e_s_e_s_d_s GTGCTGGTGTGGGTGCTGGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3
895 >s_e_s_e_s_a_s_e_s_d_s GTGCTGGTGCTGGTGTCTGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3
896 >s_e_s_e_s_e_s_e_s_d_s GTGCTGGTGCTGGTGCTGGTGCTGGTGACGGTG; >clamp_s_b_s_d_s:compl:rev CACCGTCACAGCCACTATCATGTTGACATTCC; dG = -10.3

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CA Matches

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2 >s_b_s_c_s_a_s_c_s_a_s GTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.4
3 >s_c_s_a_s_d_s_c_s_a_s GTGTGGGTGTCTGTGACGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.4
4 >s_e_s_c_s_a_s_c_s_a_s GTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.3
5 >s_c_s_c_s_a_s_c_s_a_s GTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.3
6 >s_d_s_c_s_a_s_c_s_a_s GTGACGGTGTGGGTGTCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.3
7 >s_a_s_a_s_a_s_c_s_a_s GTGTCTGTGTCTGTGTCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1

8 >s_a_s_b_s_e_s_c_s_a_s GTGTCTGTGGCTGTGCTGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
9 >s_d_s_e_s_e_s_c_s_a_s GTGACGGTGCTGGTGCTGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
10 >s_e_s_a_s_a_s_c_s_a_s GTGCTGGTGTCTGTGTCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
11 >s_e_s_a_s_b_s_c_s_a_s GTGCTGGTGTCTGTGGCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
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111 >s_d_s_b_s_e_s_c_s_a_s GTGACGGTGGCTGTGCTGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
112 >s_d_s_c_s_b_s_c_s_a_s GTGACGGTGTGGGTGGCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
113 >s_d_s_c_s_c_s_c_s_a_s GTGACGGTGTGGGTGTGGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
114 >s_d_s_c_s_d_s_c_s_a_s GTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
115 >s_a_s_b_s_d_s_c_s_a_s GTGTCTGTGGCTGTGACGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
116 >s_d_s_c_s_e_s_c_s_a_s GTGACGGTGTGGGTGCTGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
117 >s_d_s_d_s_a_s_c_s_a_s GTGACGGTGACGGTGTCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
118 >s_d_s_d_s_b_s_c_s_a_s GTGACGGTGACGGTGGCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1

119 >s_d_s_d_s_c_s_c_s_a_s GTGACGGTGACGGTGTGGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
120 >s_d_s_d_s_d_s_c_s_a_s GTGACGGTGACGGTGACGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
121 >s_d_s_d_s_e_s_c_s_a_s GTGACGGTGACGGTGCTGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
122 >s_d_s_e_s_a_s_c_s_a_s GTGACGGTGCTGGTGTCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
123 >s_d_s_e_s_b_s_c_s_a_s GTGACGGTGCTGGTGGCTGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
124 >s_d_s_e_s_c_s_c_s_a_s GTGACGGTGCTGGTGTGGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1
125 >s_d_s_e_s_d_s_c_s_a_s GTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -17.1

****

CA Mismatches

1 >s_b_s_c_s_b_s_d_s_a_s GTGGCTGTGTGGGTGGCTGTGACGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -16.0
2 >s_a_s_c_s_b_s_d_s_a_s GTGTCTGTGTGGGTGGCTGTGACGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -16.0
3 >s_c_s_c_s_b_s_d_s_a_s GTGTGGGTGTGGGTGGCTGTGACGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.9
4 >s_d_s_c_s_b_s_d_s_a_s GTGACGGTGTGGGTGGCTGTGACGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.9
5 >s_e_s_c_s_b_s_d_s_a_s GTGCTGGTGTGGGTGGCTGTGACGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.9
6 >s_b_s_c_s_b_s_b_s_a_s GTGGCTGTGTGGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.5
7 >s_c_s_b_s_d_s_c_s_e_s GTGTGGGTGGCTGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.5
8 >s_c_s_b_s_d_s_c_s_d_s GTGTGGGTGGCTGTGACGGTGTGGGTGACGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.5
9 >s_c_s_b_s_d_s_c_s_c_s GTGTGGGTGGCTGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.5
10 >s_c_s_b_s_d_s_c_s_b_s GTGTGGGTGGCTGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.5
11 >s_c_s_b_s_d_s_e_s_a_s GTGTGGGTGGCTGTGACGGTGCTGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.5
12 >s_c_s_b_s_d_s_d_s_a_s GTGTGGGTGGCTGTGACGGTGACGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.5
13 >s_c_s_b_s_d_s_b_s_a_s GTGTGGGTGGCTGTGACGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.5
14 >s_c_s_b_s_d_s_a_s_a_s GTGTGGGTGGCTGTGACGGTGTCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.5
15 >s_a_s_c_s_b_s_b_s_a_s GTGTCTGTGTGGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.5
16 >s_a_s_d_s_c_s_b_s_a_s GTGTCTGTGACGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
17 >s_a_s_e_s_c_s_b_s_a_s GTGTCTGTGCTGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
18 >s_b_s_a_s_c_s_b_s_a_s GTGGCTGTGTCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
19 >s_a_s_a_s_c_s_b_s_a_s GTGTCTGTGTCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
20 >s_b_s_b_s_c_s_b_s_a_s GTGGCTGTGGCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
21 >s_b_s_c_s_b_s_c_s_e_s GTGGCTGTGTGGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
22 >s_b_s_c_s_b_s_c_s_d_s GTGGCTGTGTGGGTGGCTGTGTGGGTGACGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
23 >s_b_s_c_s_b_s_c_s_c_s GTGGCTGTGTGGGTGGCTGTGTGGGTGTGGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
24 >s_b_s_c_s_b_s_c_s_b_s GTGGCTGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
25 >s_b_s_c_s_b_s_a_s_a_s GTGGCTGTGTGGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
26 >s_b_s_c_s_c_s_b_s_a_s GTGGCTGTGTGGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4

27 >s_b_s_d_s_c_s_b_s_a_s GTGGCTGTGACGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
28 >s_b_s_e_s_c_s_b_s_a_s GTGGCTGTGCTGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
29 >s_c_s_b_s_c_s_b_s_a_s GTGTGGGTGGCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
30 >s_c_s_c_s_b_s_c_s_e_s GTGTGGGTGTGGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
31 >s_c_s_c_s_b_s_c_s_d_s GTGTGGGTGTGGGTGGCTGTGTGGGTGACGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
32 >s_c_s_c_s_b_s_c_s_c_s GTGTGGGTGTGGGTGGCTGTGTGGGTGTGGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
33 >s_c_s_c_s_b_s_c_s_b_s GTGTGGGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
34 >s_c_s_c_s_b_s_b_s_a_s GTGTGGGTGTGGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
35 >s_c_s_c_s_b_s_a_s_a_s GTGTGGGTGTGGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
36 >s_c_s_c_s_c_s_b_s_a_s GTGTGGGTGTGGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
37 >s_c_s_d_s_c_s_b_s_a_s GTGTGGGTGACGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
38 >s_c_s_e_s_c_s_b_s_a_s GTGTGGGTGCTGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
39 >s_d_s_a_s_c_s_b_s_a_s GTGACGGTGTCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
40 >s_d_s_b_s_c_s_b_s_a_s GTGACGGTGGCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
41 >s_d_s_c_s_b_s_c_s_e_s GTGACGGTGTGGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
42 >s_d_s_c_s_b_s_c_s_d_s GTGACGGTGTGGGTGGCTGTGTGGGTGACGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
43 >s_d_s_c_s_b_s_c_s_c_s GTGACGGTGTGGGTGGCTGTGTGGGTGTGGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
44 >s_d_s_c_s_b_s_c_s_b_s GTGACGGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
45 >s_d_s_c_s_b_s_b_s_a_s GTGACGGTGTGGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
46 >s_d_s_c_s_b_s_a_s_a_s GTGACGGTGTGGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
47 >s_d_s_c_s_c_s_b_s_a_s GTGACGGTGTGGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
48 >s_a_s_b_s_c_s_b_s_a_s GTGTCTGTGGCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
49 >s_d_s_d_s_c_s_b_s_a_s GTGACGGTGACGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
50 >s_d_s_e_s_c_s_b_s_a_s GTGACGGTGCTGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
51 >s_e_s_a_s_c_s_b_s_a_s GTGCTGGTGTCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
52 >s_e_s_b_s_c_s_b_s_a_s GTGCTGGTGGCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
53 >s_e_s_c_s_b_s_c_s_e_s GTGCTGGTGTGGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
54 >s_e_s_c_s_b_s_c_s_d_s GTGCTGGTGTGGGTGGCTGTGTGGGTGACGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
55 >s_a_s_c_s_b_s_c_s_e_s GTGTCTGTGTGGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
56 >s_e_s_c_s_b_s_c_s_c_s GTGCTGGTGTGGGTGGCTGTGTGGGTGTGGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
57 >s_e_s_c_s_b_s_c_s_b_s GTGCTGGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
58 >s_e_s_c_s_b_s_b_s_a_s GTGCTGGTGTGGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
59 >s_e_s_c_s_b_s_a_s_a_s GTGCTGGTGTGGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
60 >s_a_s_c_s_b_s_c_s_d_s GTGTCTGTGTGGGTGGCTGTGTGGGTGACGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
61 >s_e_s_c_s_c_s_b_s_a_s GTGCTGGTGTGGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
62 >s_a_s_c_s_b_s_c_s_c_s GTGTCTGTGTGGGTGGCTGTGTGGGTGTGGGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
63 >s_a_s_c_s_b_s_c_s_b_s GTGTCTGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4

64 >s_e_s_d_s_c_s_b_s_a_s GTGCTGGTGACGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
65 >s_a_s_c_s_b_s_a_s_a_s GTGTCTGTGTGGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
66 >s_e_s_e_s_c_s_b_s_a_s GTGCTGGTGCTGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
67 >s_a_s_c_s_c_s_b_s_a_s GTGTCTGTGTGGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.4
68 >s_b_s_c_s_b_s_e_s_a_s GTGGCTGTGTGGGTGGCTGTGCTGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.3
69 >s_a_s_c_s_b_s_e_s_a_s GTGTCTGTGTGGGTGGCTGTGCTGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.3
70 >s_c_s_c_s_b_s_e_s_a_s GTGTGGGTGTGGGTGGCTGTGCTGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.2
71 >s_d_s_c_s_b_s_e_s_a_s GTGACGGTGTGGGTGGCTGTGCTGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.2
72 >s_e_s_c_s_b_s_e_s_a_s GTGCTGGTGTGGGTGGCTGTGCTGGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.2
73 >s_a_s_c_s_e_s_c_s_b_s GTGTCTGTGTGGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
74 >s_a_s_d_s_a_s_c_s_b_s GTGTCTGTGACGGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
75 >s_a_s_a_s_b_s_c_s_b_s GTGTCTGTGTCTGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
76 >s_a_s_d_s_b_s_c_s_b_s GTGTCTGTGACGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
77 >s_a_s_d_s_c_s_c_s_b_s GTGTCTGTGACGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
78 >s_a_s_d_s_d_s_c_s_b_s GTGTCTGTGACGGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
79 >s_a_s_d_s_e_s_c_s_b_s GTGTCTGTGACGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
80 >s_a_s_e_s_a_s_c_s_b_s GTGTCTGTGCTGGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
81 >s_a_s_e_s_b_s_c_s_b_s GTGTCTGTGCTGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
82 >s_a_s_e_s_c_s_c_s_b_s GTGTCTGTGCTGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
83 >s_a_s_e_s_d_s_c_s_b_s GTGTCTGTGCTGGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_a_s:compl:rev CACAGACACCCACACTATCATGTTGACATTCC; dG = -15.1
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881 >s_b_s_e_s_e_s_b_s_a_s GTGGCTGTGCTGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
882 >s_a_s_a_s_e_s_b_s_a_s GTGTCTGTGTCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
883 >s_d_s_b_s_d_s_b_s_a_s GTGACGGTGGCTGTGACGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
884 >s_d_s_b_s_e_s_b_s_a_s GTGACGGTGGCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
885 >s_d_s_d_s_d_s_b_s_a_s GTGACGGTGACGGTGACGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
886 >s_d_s_d_s_e_s_b_s_a_s GTGACGGTGACGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
887 >s_a_s_b_s_d_s_b_s_a_s GTGTCTGTGGCTGTGACGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
888 >s_d_s_e_s_d_s_b_s_a_s GTGACGGTGCTGGTGACGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
889 >s_d_s_e_s_e_s_b_s_a_s GTGACGGTGCTGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
890 >s_a_s_b_s_e_s_b_s_a_s GTGTCTGTGGCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
891 >s_e_s_b_s_d_s_b_s_a_s GTGCTGGTGGCTGTGACGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
892 >s_e_s_b_s_e_s_b_s_a_s GTGCTGGTGGCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
893 >s_e_s_d_s_d_s_b_s_a_s GTGCTGGTGACGGTGACGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
894 >s_e_s_d_s_e_s_b_s_a_s GTGCTGGTGACGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
895 >s_e_s_e_s_d_s_b_s_a_s GTGCTGGTGCTGGTGACGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0
896 >s_e_s_e_s_e_s_b_s_a_s GTGCTGGTGCTGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_c_s_a_s:compl:rev
CACAGACACCCACACTATCATGTTGACATTCC; dG = -10.0

****

CB Matches

1 >s_c_s_b_s_d_s_c_s_b_s GTGTGGGTGGCTGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.8
2 >s_e_s_c_s_b_s_c_s_b_s GTGCTGGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.7
3 >s_a_s_c_s_b_s_c_s_b_s GTGTCTGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.7
4 >s_b_s_c_s_b_s_c_s_b_s GTGGCTGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.7
5 >s_c_s_c_s_b_s_c_s_b_s GTGTGGGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.7
6 >s_d_s_c_s_b_s_c_s_b_s GTGACGGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.7
7 >s_a_s_a_s_a_s_c_s_b_s GTGTCTGTGTCTGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
8 >s_a_s_b_s_e_s_c_s_b_s GTGTCTGTGGCTGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
9 >s_d_s_e_s_e_s_c_s_b_s GTGACGGTGCTGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
10 >s_e_s_a_s_a_s_c_s_b_s GTGCTGGTGTCTGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
11 >s_e_s_a_s_b_s_c_s_b_s GTGCTGGTGTCTGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
12 >s_e_s_a_s_c_s_c_s_b_s GTGCTGGTGTCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
13 >s_e_s_a_s_d_s_c_s_b_s GTGCTGGTGTCTGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
14 >s_e_s_a_s_e_s_c_s_b_s GTGCTGGTGTCTGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4

15 >s_e_s_b_s_a_s_c_s_b_s GTGCTGGTGGCTGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
16 >s_e_s_b_s_b_s_c_s_b_s GTGCTGGTGGCTGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
17 >s_e_s_b_s_c_s_c_s_b_s GTGCTGGTGGCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
18 >s_e_s_b_s_d_s_c_s_b_s GTGCTGGTGGCTGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
19 >s_a_s_c_s_a_s_c_s_b_s GTGTCTGTGTGGGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
20 >s_e_s_b_s_e_s_c_s_b_s GTGCTGGTGGCTGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
21 >s_e_s_c_s_a_s_c_s_b_s GTGCTGGTGTGGGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
22 >s_e_s_c_s_c_s_c_s_b_s GTGCTGGTGTGGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
23 >s_e_s_c_s_d_s_c_s_b_s GTGCTGGTGTGGGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
24 >s_e_s_c_s_e_s_c_s_b_s GTGCTGGTGTGGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
25 >s_e_s_d_s_a_s_c_s_b_s GTGCTGGTGACGGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
26 >s_e_s_d_s_b_s_c_s_b_s GTGCTGGTGACGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
27 >s_e_s_d_s_c_s_c_s_b_s GTGCTGGTGACGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
28 >s_e_s_d_s_d_s_c_s_b_s GTGCTGGTGACGGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
29 >s_e_s_d_s_e_s_c_s_b_s GTGCTGGTGACGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
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31 >s_e_s_e_s_b_s_c_s_b_s GTGCTGGTGCTGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
32 >s_e_s_e_s_c_s_c_s_b_s GTGCTGGTGCTGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
33 >s_e_s_e_s_d_s_c_s_b_s GTGCTGGTGCTGGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
34 >s_e_s_e_s_e_s_c_s_b_s GTGCTGGTGCTGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
35 >s_a_s_c_s_c_s_c_s_b_s GTGTCTGTGTGGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
36 >s_a_s_c_s_d_s_c_s_b_s GTGTCTGTGTGGGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
37 >s_a_s_c_s_e_s_c_s_b_s GTGTCTGTGTGGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
38 >s_a_s_d_s_a_s_c_s_b_s GTGTCTGTGACGGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
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41 >s_a_s_d_s_d_s_c_s_b_s GTGTCTGTGACGGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
42 >s_a_s_a_s_b_s_c_s_b_s GTGTCTGTGTCTGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
43 >s_a_s_d_s_e_s_c_s_b_s GTGTCTGTGACGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
44 >s_a_s_e_s_a_s_c_s_b_s GTGTCTGTGCTGGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
45 >s_a_s_e_s_b_s_c_s_b_s GTGTCTGTGCTGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
46 >s_a_s_e_s_c_s_c_s_b_s GTGTCTGTGCTGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
47 >s_a_s_e_s_d_s_c_s_b_s GTGTCTGTGCTGGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
48 >s_a_s_e_s_e_s_c_s_b_s GTGTCTGTGCTGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
49 >s_b_s_a_s_a_s_c_s_b_s GTGGCTGTGTCTGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
50 >s_b_s_a_s_b_s_c_s_b_s GTGGCTGTGTCTGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
51 >s_b_s_a_s_c_s_c_s_b_s GTGGCTGTGTCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4

52 >s_b_s_a_s_d_s_c_s_b_s GTGGCTGTGTCTGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
53 >s_a_s_a_s_c_s_c_s_b_s GTGTCTGTGTCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
54 >s_b_s_a_s_e_s_c_s_b_s GTGGCTGTGTCTGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
55 >s_b_s_b_s_a_s_c_s_b_s GTGGCTGTGGCTGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
56 >s_b_s_b_s_b_s_c_s_b_s GTGGCTGTGGCTGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
57 >s_b_s_b_s_c_s_c_s_b_s GTGGCTGTGGCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
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59 >s_b_s_b_s_e_s_c_s_b_s GTGGCTGTGGCTGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
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CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
61 >s_b_s_c_s_c_s_c_s_b_s GTGGCTGTGTGGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
62 >s_b_s_c_s_d_s_c_s_b_s GTGGCTGTGTGGGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
63 >s_a_s_a_s_d_s_c_s_b_s GTGTCTGTGTCTGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
64 >s_b_s_c_s_e_s_c_s_b_s GTGGCTGTGTGGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
65 >s_b_s_d_s_a_s_c_s_b_s GTGGCTGTGACGGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
66 >s_b_s_d_s_b_s_c_s_b_s GTGGCTGTGACGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
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CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
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CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
69 >s_b_s_d_s_e_s_c_s_b_s GTGGCTGTGACGGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
70 >s_b_s_e_s_a_s_c_s_b_s GTGGCTGTGCTGGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
71 >s_b_s_e_s_b_s_c_s_b_s GTGGCTGTGCTGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
72 >s_b_s_e_s_c_s_c_s_b_s GTGGCTGTGCTGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
73 >s_b_s_e_s_d_s_c_s_b_s GTGGCTGTGCTGGTGACGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
74 >s_a_s_a_s_e_s_c_s_b_s GTGTCTGTGTCTGTGCTGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
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CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
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CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
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CACAGCCACCCACACTATCATGTTGACATTCC; dG = -18.4
83 >s_c_s_b_s_c_s_c_s_b_s GTGTGGGTGGCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
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84 >s_a_s_b_s_a_s_c_s_b_s GTGTCTGTGGCTGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev
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CB Mismatches

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5 >s_e_s_c_s_a_s_d_s_b_s GTGCTGGTGTGGGTGTCTGTGACGGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -13.5
6 >s_a_s_c_s_d_s_b_s_b_s GTGTCTGTGTGGGTGACGGTGGCTGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -13.3
7 >s_a_s_c_s_e_s_b_s_b_s GTGTCTGTGTGGGTGCTGGTGGCTGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -13.3
8 >s_b_s_c_s_a_s_b_s_b_s GTGGCTGTGTGGGTGTCTGTGGCTGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -13.3
9 >s_b_s_c_s_d_s_b_s_b_s GTGGCTGTGTGGGTGACGGTGGCTGTGGCTGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -13.3
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850 >s_e_s_e_s_d_s_c_s_d_s GTGCTGGTGCTGGTGACGGTGTGGGTGACGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -11.1
851 >s_e_s_e_s_e_s_c_s_d_s GTGCTGGTGCTGGTGCTGGTGTGGGTGACGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -11.1
852 >s_a_s_c_s_d_s_c_s_d_s GTGTCTGTGTGGGTGACGGTGTGGGTGACGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -11.1
853 >s_a_s_c_s_d_s_c_s_c_s GTGTCTGTGTGGGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -11.1
854 >s_b_s_b_s_e_s_c_s_c_s GTGGCTGTGGCTGTGCTGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -11.0
855 >s_a_s_b_s_a_s_c_s_c_s GTGTCTGTGGCTGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -11.0
856 >s_c_s_e_s_a_s_c_s_c_s GTGTGGGTGCTGGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.8
857 >s_c_s_e_s_d_s_c_s_c_s GTGTGGGTGCTGGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.8
858 >s_a_s_b_s_e_s_c_s_c_s GTGTCTGTGGCTGTGCTGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.8
859 >s_c_s_d_s_a_s_c_s_c_s GTGTGGGTGACGGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.6
860 >s_c_s_d_s_d_s_c_s_c_s GTGTGGGTGACGGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.6
861 >s_a_s_d_s_a_s_c_s_c_s GTGTCTGTGACGGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
862 >s_a_s_d_s_d_s_c_s_c_s GTGTCTGTGACGGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
863 >s_a_s_d_s_e_s_c_s_c_s GTGTCTGTGACGGTGCTGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
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867 >s_b_s_a_s_a_s_c_s_c_s GTGGCTGTGTCTGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
868 >s_b_s_a_s_d_s_c_s_c_s GTGGCTGTGTCTGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
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875 >s_b_s_e_s_a_s_c_s_c_s GTGGCTGTGCTGGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
876 >s_a_s_a_s_e_s_c_s_c_s GTGTCTGTGTCTGTGCTGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
877 >s_b_s_e_s_d_s_c_s_c_s GTGGCTGTGCTGGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
878 >s_b_s_e_s_e_s_c_s_c_s GTGGCTGTGCTGGTGCTGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
879 >s_d_s_a_s_a_s_c_s_c_s GTGACGGTGTCTGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
880 >s_d_s_a_s_d_s_c_s_c_s GTGACGGTGTCTGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
881 >s_d_s_a_s_e_s_c_s_c_s GTGACGGTGTCTGTGCTGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
882 >s_d_s_d_s_a_s_c_s_c_s GTGACGGTGACGGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
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885 >s_d_s_e_s_a_s_c_s_c_s GTGACGGTGCTGGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
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886 >s_d_s_e_s_d_s_c_s_c_s GTGACGGTGCTGGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
887 >s_d_s_e_s_e_s_c_s_c_s GTGACGGTGCTGGTGCTGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
888 >s_e_s_a_s_a_s_c_s_c_s GTGCTGGTGTCTGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
889 >s_e_s_a_s_d_s_c_s_c_s GTGCTGGTGTCTGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
890 >s_e_s_a_s_e_s_c_s_c_s GTGCTGGTGTCTGTGCTGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
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891 >s_e_s_d_s_a_s_c_s_c_s GTGCTGGTGACGGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
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892 >s_e_s_d_s_d_s_c_s_c_s GTGCTGGTGACGGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
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893 >s_e_s_d_s_e_s_c_s_c_s GTGCTGGTGACGGTGCTGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
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894 >s_e_s_e_s_a_s_c_s_c_s GTGCTGGTGCTGGTGTCTGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
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895 >s_e_s_e_s_d_s_c_s_c_s GTGCTGGTGCTGGTGACGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5
896 >s_e_s_e_s_e_s_c_s_c_s GTGCTGGTGCTGGTGCTGGTGTGGGTGTGGGTG; >clamp_s_c_s_b_s:compl:rev
CACAGCCACCCACACTATCATGTTGACATTCC; dG = -10.5

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CDCAE Matches

1 >s_a_s_a_s_a_s_c_s_d_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.6
2 >s_e_s_a_s_a_s_c_s_d_s_c_s_a_s_e_s
GTGCTGGTGTCTGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.6
3 >s_e_s_a_s_b_s_c_s_d_s_c_s_a_s_e_s
GTGCTGGTGTCTGTGGCTGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.6
4 >s_e_s_b_s_a_s_c_s_d_s_c_s_a_s_e_s
GTGCTGGTGGCTGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.6
5 >s_e_s_b_s_b_s_c_s_d_s_c_s_a_s_e_s
GTGCTGGTGGCTGTGGCTGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.6
6 >s_a_s_c_s_a_s_c_s_d_s_c_s_a_s_e_s
GTGTCTGTGTGGGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.6
7 >s_e_s_c_s_a_s_c_s_d_s_c_s_a_s_e_s
GTGCTGGTGTGGGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.6
8 >s_e_s_c_s_b_s_c_s_d_s_c_s_a_s_e_s
GTGCTGGTGTGGGTGGCTGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.6
9 >s_e_s_d_s_a_s_c_s_d_s_c_s_a_s_e_s
GTGCTGGTGACGGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.6
10 >s_e_s_d_s_b_s_c_s_d_s_c_s_a_s_e_s
GTGCTGGTGACGGTGGCTGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
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11 >s_a_s_c_s_b_s_c_s_d_s_c_s_a_s_e_s
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12 >s_e_s_e_s_a_s_c_s_d_s_c_s_a_s_e_s
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14 >s_a_s_d_s_a_s_c_s_d_s_c_s_a_s_e_s
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16 >s_a_s_a_s_b_s_c_s_d_s_c_s_a_s_e_s
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100 >s_c_s_b_s_e_s_c_s_d_s_c_s_a_s_e_s
GTGTGGGTGGCTGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
101 >s_c_s_c_s_c_s_c_s_d_s_c_s_a_s_e_s
GTGTGGGTGTGGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
102 >s_c_s_c_s_d_s_c_s_d_s_c_s_a_s_e_s
GTGTGGGTGTGGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
103 >s_c_s_c_s_e_s_c_s_d_s_c_s_a_s_e_s
GTGTGGGTGTGGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
104 >s_c_s_d_s_c_s_c_s_d_s_c_s_a_s_e_s
GTGTGGGTGACGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
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GTGTGGGTGACGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
107 >s_c_s_e_s_c_s_c_s_d_s_c_s_a_s_e_s
GTGTGGGTGCTGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
108 >s_c_s_e_s_d_s_c_s_d_s_c_s_a_s_e_s
GTGTGGGTGCTGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
110 >s_d_s_a_s_c_s_c_s_d_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5

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   111  >s_d_s_a_s_d_s_c_s_d_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   112  >s_a_s_b_s_c_s_c_s_d_s_c_s_a_s_e_s
GTGTCTGTGGCTGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   113  >s_d_s_a_s_e_s_c_s_d_s_c_s_a_s_e_s
GTGACGGTGTCTGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   114  >s_d_s_b_s_c_s_c_s_d_s_c_s_a_s_e_s
GTGACGGTGGCTGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   115  >s_d_s_b_s_d_s_c_s_d_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   116  >s_d_s_b_s_e_s_c_s_d_s_c_s_a_s_e_s
GTGACGGTGGCTGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   117  >s_d_s_c_s_c_s_c_s_d_s_c_s_a_s_e_s
GTGACGGTGTGGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   118  >s_d_s_c_s_d_s_c_s_d_s_c_s_a_s_e_s
GTGACGGTGTGGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   119  >s_a_s_b_s_d_s_c_s_d_s_c_s_a_s_e_s
GTGTCTGTGGCTGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   120  >s_d_s_c_s_e_s_c_s_d_s_c_s_a_s_e_s
GTGACGGTGTGGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   121  >s_d_s_d_s_c_s_c_s_d_s_c_s_a_s_e_s
GTGACGGTGACGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   122  >s_d_s_d_s_d_s_c_s_d_s_c_s_a_s_e_s
GTGACGGTGACGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
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GTGACGGTGACGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
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GTGACGGTGCTGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5
   125  >s_d_s_e_s_d_s_c_s_d_s_c_s_a_s_e_s
GTGACGGTGCTGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -42.5

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CDCAE Mismatches

```
     1  >s_c_s_a_s_a_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTCTGTGTCTGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
     2  >s_c_s_a_s_b_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTCTGTGGCTGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
     3  >s_c_s_a_s_c_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTCTGTGTGGGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
     4  >s_c_s_a_s_d_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTCTGTGACGGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
     5  >s_a_s_b_s_a_s_c_s_d_s_c_s_b_s_e_s
GTGTCTGTGGCTGTGTCTGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
     6  >s_c_s_a_s_e_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTCTGTGCTGGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
     7  >s_c_s_b_s_a_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGGCTGTGTCTGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG;    >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
```

8 >s_c_s_b_s_b_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGGCTGTGGCTGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
9 >s_c_s_b_s_c_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGGCTGTGTGGGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
10 >s_c_s_b_s_d_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGGCTGTGACGGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
11 >s_c_s_b_s_e_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGGCTGTGCTGGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
12 >s_c_s_c_s_a_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTGGGTGTCTGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
13 >s_c_s_c_s_b_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTGGGTGGCTGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
14 >s_c_s_c_s_c_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTGGGTGTGGGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
15 >s_c_s_c_s_d_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTGGGTGACGGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
16 >s_a_s_b_s_b_s_c_s_d_s_c_s_b_s_e_s
GTGTCTGTGGCTGTGGCTGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
17 >s_c_s_c_s_e_s_c_s_d_s_c_s_b_s_e_s
GTGTGGGTGTGGGTGCTGGTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
18 >s_c_s_d_s_a_s_c_s_d_s_c_s_b_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
19 >s_c_s_d_s_b_s_c_s_d_s_c_s_b_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -40.6
21 >s_c_s_d_s_d_s_c_s_d_s_c_s_b_s_e_s
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22 >s_c_s_d_s_e_s_c_s_d_s_c_s_b_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -36.1

1208 >s_a_s_c_s_b_s_b_s_d_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -36.1
1209 >s_a_s_c_s_b_s_a_s_d_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -36.1
1210 >s_a_s_c_s_d_s_b_s_d_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -36.1
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.5
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.5
1338 >s_e_s_a_s_d_s_b_s_d_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.5
1339 >s_e_s_a_s_e_s_c_s_e_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.5
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3

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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
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GTGGCTGTGTGGGTGTCTGTGTGGGTGGCTGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
1725 >s_a_s_a_s_d_s_c_s_d_s_a_s_a_s_e_s
GTGTCTGTGTCTGTGACGGTGTGGGTGACGGTGTCTGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
1726 >s_b_s_c_s_b_s_c_s_d_s_a_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
1727 >s_b_s_c_s_b_s_c_s_b_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
1728 >s_a_s_a_s_d_s_c_s_b_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
1729 >s_b_s_c_s_c_s_c_s_d_s_a_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
1730 >s_b_s_c_s_c_s_c_s_b_s_c_s_a_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -35.3
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.7
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.7
2112 >s_b_s_d_s_b_s_c_s_d_s_c_s_d_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.7
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.6
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2177 >s_d_s_e_s_c_s_c_s_d_s_c_s_e_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.6
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2239 >s_b_s_b_s_c_s_c_s_d_s_c_s_e_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.6

2240 >s_b_s_b_s_c_s_c_s_d_s_c_s_d_s_e_s
GTGGCTGTGGCTGTGTGGGTGTGGGTGACGGTGTGGGTGACGGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.6
2241 >s_a_s_a_s_d_s_c_s_d_s_c_s_e_s_e_s
GTGTCTGTGTCTGTGACGGTGTGGGTGACGGTGTGGGTGCTGGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.6
2242 >s_a_s_a_s_d_s_c_s_d_s_c_s_d_s_e_s
GTGTCTGTGTCTGTGACGGTGTGGGTGACGGTGTGGGTGACGGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.6
2243 >s_b_s_b_s_d_s_c_s_d_s_c_s_e_s_e_s
GTGGCTGTGGCTGTGACGGTGTGGGTGACGGTGTGGGTGCTGGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.6
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.6
2245 >s_b_s_b_s_e_s_c_s_d_s_c_s_e_s_e_s
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CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.6
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2498 >s_a_s_a_s_e_s_c_s_a_s_c_s_a_s_e_s
GTGTCTGTGTCTGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.1
2499 >s_b_s_e_s_d_s_c_s_a_s_c_s_a_s_e_s
GTGGCTGTGCTGGTGACGGTGTGGGTGTCTGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.1
2500 >s_b_s_e_s_e_s_c_s_a_s_c_s_a_s_e_s
GTGGCTGTGCTGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_d_s_c_s_a_s_e_s:compl:rev
CACCAGCACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.1

****

CDCA Matches

1 >s_a_s_a_s_a_s_c_s_d_s_c_s_a_s GTGTCTGTGTCTGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.0

```
     2 >s_e_s_a_s_a_s_c_s_d_s_c_s_a_s          GTGCTGGTGTCTGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.0
     3 >s_e_s_a_s_b_s_c_s_d_s_c_s_a_s          GTGCTGGTGTCTGTGGCTGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.0
     4 >s_e_s_b_s_a_s_c_s_d_s_c_s_a_s          GTGCTGGTGGCTGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.0
     5 >s_e_s_b_s_b_s_c_s_d_s_c_s_a_s          GTGCTGGTGGCTGTGGCTGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.0
     6 >s_a_s_c_s_a_s_c_s_d_s_c_s_a_s          GTGTCTGTGTGGGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.0
     7 >s_e_s_c_s_a_s_c_s_d_s_c_s_a_s          GTGCTGGTGTGGGTGTCTGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.0
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>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.0
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>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -34.0
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70 >s_a_s_c_s_e_s_c_s_d_s_c_s_a_s GTGTCTGTGTGGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
71 >s_a_s_d_s_c_s_c_s_d_s_c_s_a_s GTGTCTGTGACGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
72 >s_a_s_d_s_d_s_c_s_d_s_c_s_a_s GTGTCTGTGACGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
73 >s_a_s_d_s_e_s_c_s_d_s_c_s_a_s GTGTCTGTGACGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
74 >s_a_s_e_s_c_s_c_s_d_s_c_s_a_s GTGTCTGTGCTGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
75 >s_a_s_e_s_d_s_c_s_d_s_c_s_a_s GTGTCTGTGCTGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9

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    76 >s_a_s_e_s_e_s_c_s_d_s_c_s_a_s          GTGTCTGTGCTGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
    77 >s_b_s_a_s_c_s_c_s_d_s_c_s_a_s          GTGGCTGTGTCTGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
    78 >s_b_s_a_s_d_s_c_s_d_s_c_s_a_s          GTGGCTGTGTCTGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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    79 >s_a_s_a_s_c_s_c_s_d_s_c_s_a_s          GTGTCTGTGTCTGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
    80 >s_b_s_a_s_e_s_c_s_d_s_c_s_a_s          GTGGCTGTGTCTGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
    81 >s_b_s_b_s_c_s_c_s_d_s_c_s_a_s          GTGGCTGTGGCTGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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    83 >s_b_s_b_s_e_s_c_s_d_s_c_s_a_s          GTGGCTGTGGCTGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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    99 >s_c_s_b_s_d_s_c_s_d_s_c_s_a_s          GTGTGGGTGGCTGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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   101 >s_c_s_c_s_c_s_c_s_d_s_c_s_a_s          GTGTGGGTGTGGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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   102 >s_c_s_c_s_d_s_c_s_d_s_c_s_a_s          GTGTGGGTGTGGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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   104 >s_c_s_d_s_c_s_c_s_d_s_c_s_a_s          GTGTGGGTGACGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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   105 >s_c_s_d_s_d_s_c_s_d_s_c_s_a_s          GTGTGGGTGACGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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   106 >s_c_s_d_s_e_s_c_s_d_s_c_s_a_s          GTGTGGGTGACGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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   107 >s_c_s_e_s_c_s_c_s_d_s_c_s_a_s          GTGTGGGTGCTGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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   109 >s_c_s_e_s_e_s_c_s_d_s_c_s_a_s          GTGTGGGTGCTGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   110 >s_d_s_a_s_c_s_c_s_d_s_c_s_a_s          GTGACGGTGTCTGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   111 >s_d_s_a_s_d_s_c_s_d_s_c_s_a_s          GTGACGGTGTCTGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   112 >s_a_s_b_s_c_s_c_s_d_s_c_s_a_s          GTGTCTGTGGCTGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
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   113 >s_d_s_a_s_e_s_c_s_d_s_c_s_a_s          GTGACGGTGTCTGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   114 >s_d_s_b_s_c_s_c_s_d_s_c_s_a_s          GTGACGGTGGCTGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   115 >s_d_s_b_s_d_s_c_s_d_s_c_s_a_s          GTGACGGTGGCTGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   116 >s_d_s_b_s_e_s_c_s_d_s_c_s_a_s          GTGACGGTGGCTGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   117 >s_d_s_c_s_c_s_c_s_d_s_c_s_a_s          GTGACGGTGTGGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   118 >s_d_s_c_s_d_s_c_s_d_s_c_s_a_s          GTGACGGTGTGGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   119 >s_a_s_b_s_d_s_c_s_d_s_c_s_a_s          GTGTCTGTGGCTGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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   120 >s_d_s_c_s_e_s_c_s_d_s_c_s_a_s          GTGACGGTGTGGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   121 >s_d_s_d_s_c_s_c_s_d_s_c_s_a_s          GTGACGGTGACGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   122 >s_d_s_d_s_d_s_c_s_d_s_c_s_a_s          GTGACGGTGACGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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   123 >s_d_s_d_s_e_s_c_s_d_s_c_s_a_s          GTGACGGTGACGGTGCTGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
   124 >s_d_s_e_s_c_s_c_s_d_s_c_s_a_s          GTGACGGTGCTGGTGTGGGTGTGGGTGACGGTGTGGGTGTCTGTG;
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   125 >s_d_s_e_s_d_s_c_s_d_s_c_s_a_s          GTGACGGTGCTGGTGACGGTGTGGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -33.9
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CDCA Mismatches

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     1 >s_c_s_d_s_c_s_b_s_d_s_c_s_a_s          GTGTGGGTGACGGTGTGGGTGGCTGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -32.3
     2 >s_a_s_c_s_d_s_c_s_b_s_c_s_a_s          GTGTCTGTGTGGGTGACGGTGTGGGTGGCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -32.3
     3 >s_b_s_c_s_d_s_c_s_b_s_c_s_a_s          GTGGCTGTGTGGGTGACGGTGTGGGTGGCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -32.3
     4 >s_c_s_c_s_d_s_c_s_b_s_c_s_a_s          GTGTGGGTGTGGGTGACGGTGTGGGTGGCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -32.2
     5 >s_d_s_c_s_d_s_c_s_b_s_c_s_a_s          GTGACGGTGTGGGTGACGGTGTGGGTGGCTGTGTGGGTGTCTGTG;
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     6 >s_e_s_c_s_d_s_c_s_b_s_c_s_a_s          GTGCTGGTGTGGGTGACGGTGTGGGTGGCTGTGTGGGTGTCTGTG;
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     7 >s_a_s_b_s_b_s_c_s_d_s_c_s_b_s          GTGTCTGTGGCTGTGGCTGTGTGGGTGACGGTGTGGGTGGCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -32.0
     8 >s_c_s_c_s_d_s_c_s_d_s_c_s_b_s          GTGTGGGTGTGGGTGACGGTGTGGGTGACGGTGTGGGTGGCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -32.0
     9 >s_c_s_c_s_e_s_c_s_d_s_c_s_b_s          GTGTGGGTGTGGGTGCTGGTGTGGGTGACGGTGTGGGTGGCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -32.0
    10 >s_c_s_d_s_a_s_c_s_d_s_c_s_b_s          GTGTGGGTGACGGTGTCTGTGTGGGTGACGGTGTGGGTGGCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -32.0
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    12 >s_c_s_d_s_c_s_c_s_d_s_c_s_b_s          GTGTGGGTGACGGTGTGGGTGTGGGTGACGGTGTGGGTGGCTGTG;
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    15 >s_c_s_e_s_a_s_c_s_d_s_c_s_b_s          GTGTGGGTGCTGGTGTCTGTGTGGGTGACGGTGTGGGTGGCTGTG;
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    16 >s_c_s_e_s_b_s_c_s_d_s_c_s_b_s          GTGTGGGTGCTGGTGGCTGTGTGGGTGACGGTGTGGGTGGCTGTG;
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1118 >s_d_s_a_s_d_s_e_s_d_s_c_s_a_s GTGACGGTGTCTGTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -27.6
1119 >s_d_s_a_s_e_s_c_s_d_s_e_s_a_s GTGACGGTGTCTGTGCTGGTGTGGGTGACGGTGCTGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -27.6
1120 >s_d_s_a_s_e_s_e_s_d_s_c_s_a_s GTGACGGTGTCTGTGCTGGTGCTGGTGACGGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -27.6
1121 >s_d_s_b_s_c_s_c_s_d_s_e_s_a_s GTGACGGTGGCTGTGTGGGTGTGGGTGACGGTGCTGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -27.6
1122 >s_d_s_b_s_d_s_c_s_d_s_e_s_a_s GTGACGGTGGCTGTGACGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1123 >s_a_s_b_s_d_s_c_s_d_s_e_s_a_s GTGTCTGTGGCTGTGACGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1124 >s_d_s_b_s_d_s_e_s_d_s_c_s_a_s GTGACGGTGGCTGTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1125 >s_d_s_b_s_e_s_c_s_d_s_e_s_a_s GTGACGGTGGCTGTGCTGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1126 >s_d_s_b_s_e_s_e_s_d_s_c_s_a_s GTGACGGTGGCTGTGCTGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1127 >s_d_s_c_s_c_s_c_s_d_s_e_s_a_s GTGACGGTGTGGGTGTGGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1128 >s_a_s_b_s_d_s_e_s_d_s_c_s_a_s GTGTCTGTGGCTGTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1129 >s_d_s_c_s_d_s_e_s_d_s_c_s_a_s GTGACGGTGTGGGTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1130 >s_d_s_c_s_e_s_c_s_d_s_e_s_a_s GTGACGGTGTGGGTGCTGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1131 >s_d_s_c_s_e_s_e_s_d_s_c_s_a_s GTGACGGTGTGGGTGCTGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1132 >s_d_s_d_s_c_s_c_s_d_s_e_s_a_s GTGACGGTGACGGTGTGGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1133 >s_d_s_d_s_d_s_c_s_d_s_e_s_a_s GTGACGGTGACGGTGACGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1134 >s_a_s_b_s_e_s_c_s_d_s_e_s_a_s GTGTCTGTGGCTGTGCTGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1135 >s_d_s_d_s_d_s_e_s_d_s_c_s_a_s GTGACGGTGACGGTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1140 >s_a_s_b_s_e_s_e_s_d_s_c_s_a_s GTGTCTGTGGCTGTGCTGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1144 >s_e_s_a_s_c_s_c_s_d_s_e_s_a_s GTGCTGGTGTCTGTGTGGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1145 >s_e_s_a_s_d_s_c_s_d_s_e_s_a_s GTGCTGGTGTCTGTGACGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1147 >s_e_s_a_s_e_s_c_s_d_s_e_s_a_s GTGCTGGTGTCTGTGCTGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1148 >s_e_s_a_s_e_s_e_s_d_s_c_s_a_s GTGCTGGTGTCTGTGCTGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1149 >s_e_s_b_s_c_s_c_s_d_s_e_s_a_s GTGCTGGTGGCTGTGTGGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1150 >s_e_s_b_s_d_s_c_s_d_s_e_s_a_s GTGCTGGTGGCTGTGACGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1155 >s_e_s_c_s_d_s_e_s_d_s_c_s_a_s GTGCTGGTGTGGGTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1156 >s_e_s_c_s_e_s_c_s_d_s_e_s_a_s GTGCTGGTGTGGGTGCTGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1159 >s_e_s_d_s_d_s_c_s_d_s_e_s_a_s GTGCTGGTGACGGTGACGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1160 >s_e_s_d_s_d_s_e_s_d_s_c_s_a_s GTGCTGGTGACGGTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1161 >s_e_s_d_s_e_s_c_s_d_s_e_s_a_s GTGCTGGTGACGGTGCTGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1162 >s_e_s_d_s_e_s_e_s_d_s_c_s_a_s GTGCTGGTGACGGTGCTGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1163 >s_e_s_e_s_c_s_c_s_d_s_e_s_a_s GTGCTGGTGCTGGTGTGGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1164 >s_e_s_e_s_d_s_c_s_d_s_e_s_a_s GTGCTGGTGCTGGTGACGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1165 >s_a_s_c_s_c_s_c_s_d_s_e_s_a_s GTGTCTGTGTGGGTGTGGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1167 >s_e_s_e_s_e_s_c_s_d_s_e_s_a_s GTGCTGGTGCTGGTGCTGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1169 >s_a_s_c_s_d_s_e_s_d_s_c_s_a_s GTGTCTGTGTGGGTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1170 >s_a_s_c_s_e_s_c_s_d_s_e_s_a_s GTGTCTGTGTGGGTGCTGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1177 >s_a_s_e_s_c_s_c_s_d_s_e_s_a_s GTGTCTGTGCTGGTGTGGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1179 >s_a_s_e_s_d_s_c_s_d_s_e_s_a_s GTGTCTGTGCTGGTGACGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1180 >s_a_s_e_s_d_s_e_s_d_s_c_s_a_s GTGTCTGTGCTGGTGACGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1181 >s_a_s_e_s_e_s_c_s_d_s_e_s_a_s GTGTCTGTGCTGGTGCTGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1182 >s_a_s_e_s_e_s_e_s_d_s_c_s_a_s GTGTCTGTGCTGGTGCTGGTGCTGGTGACGGTGTGGGTGTCTGTG;
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1183 >s_b_s_a_s_c_s_c_s_d_s_e_s_a_s GTGGCTGTGTCTGTGTGGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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1184 >s_b_s_a_s_d_s_c_s_d_s_e_s_a_s GTGGCTGTGTCTGTGACGGTGTGGGTGACGGTGCTGGTGTCTGTG;
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>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -27.2
1264 >s_d_s_c_s_e_s_c_s_a_s_c_s_a_s GTGACGGTGTGGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1265 >s_e_s_c_s_e_s_c_s_a_s_c_s_a_s GTGCTGGTGTGGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1266 >s_a_s_c_s_e_s_c_s_a_s_c_s_a_s GTGTCTGTGTGGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1267 >s_b_s_b_s_d_s_c_s_a_s_c_s_a_s GTGGCTGTGGCTGTGACGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1268 >s_b_s_c_s_e_s_c_s_a_s_c_s_a_s GTGGCTGTGTGGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1269 >s_c_s_d_s_a_s_a_s_d_s_c_s_a_s GTGTGGGTGACGGTGTCTGTGTCTGTGACGGTGTGGGTGTCTGTG;
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1277 >s_a_s_a_s_d_s_c_s_a_s_c_s_a_s GTGTCTGTGTCTGTGACGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1278 >s_c_s_c_s_e_s_c_s_e_s_c_s_a_s GTGTGGGTGTGGGTGCTGGTGTGGGTGCTGGTGTGGGTGTCTGTG;
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1279 >s_c_s_d_s_a_s_c_s_e_s_c_s_a_s GTGTGGGTGACGGTGTCTGTGTGGGTGCTGGTGTGGGTGTCTGTG;
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1287 >s_a_s_b_s_b_s_b_s_d_s_c_s_a_s GTGTCTGTGGCTGTGGCTGTGGCTGTGACGGTGTGGGTGTCTGTG;
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1312 >s_d_s_b_s_c_s_c_s_e_s_c_s_a_s GTGACGGTGGCTGTGTGGGTGTGGGTGCTGGTGTGGGTGTCTGTG;
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1313 >s_d_s_b_s_d_s_c_s_e_s_c_s_a_s GTGACGGTGGCTGTGACGGTGTGGGTGCTGGTGTGGGTGTCTGTG;
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1315 >s_d_s_b_s_e_s_c_s_e_s_c_s_a_s GTGACGGTGGCTGTGCTGGTGTGGGTGCTGGTGTGGGTGTCTGTG;
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1337 >s_d_s_e_s_b_s_c_s_e_s_c_s_a_s GTGACGGTGCTGGTGGCTGTGTGGGTGCTGGTGTGGGTGTCTGTG;
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>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.8
1917 >s_c_s_c_s_b_s_c_s_d_s_b_s_a_s GTGTGGGTGTGGGTGGCTGTGTGGGTGACGGTGGCTGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.8
1918 >s_c_s_c_s_c_s_c_s_d_s_b_s_a_s GTGTGGGTGTGGGTGTGGGTGTGGGTGACGGTGGCTGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.8
1919 >s_e_s_c_s_a_s_c_s_a_s_c_s_a_s GTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.7
1920 >s_c_s_c_s_a_s_c_s_a_s_c_s_a_s GTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.7
1921 >s_a_s_b_s_b_s_c_s_a_s_c_s_a_s GTGTCTGTGGCTGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1922 >s_c_s_e_s_a_s_c_s_a_s_c_s_a_s GTGTGGGTGCTGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1923 >s_c_s_e_s_b_s_c_s_a_s_c_s_a_s GTGTGGGTGCTGGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1924 >s_c_s_e_s_c_s_c_s_a_s_c_s_a_s GTGTGGGTGCTGGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1925 >s_c_s_e_s_e_s_c_s_a_s_c_s_a_s GTGTGGGTGCTGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1926 >s_a_s_a_s_a_s_c_s_a_s_c_s_a_s GTGTCTGTGTCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1927 >s_d_s_a_s_a_s_c_s_a_s_c_s_a_s GTGACGGTGTCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1928 >s_d_s_a_s_b_s_c_s_a_s_c_s_a_s GTGACGGTGTCTGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1929 >s_a_s_b_s_c_s_c_s_a_s_c_s_a_s GTGTCTGTGGCTGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1930 >s_d_s_a_s_c_s_c_s_a_s_c_s_a_s GTGACGGTGTCTGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1931 >s_d_s_a_s_e_s_c_s_a_s_c_s_a_s GTGACGGTGTCTGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1932 >s_d_s_b_s_a_s_c_s_a_s_c_s_a_s GTGACGGTGGCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1933 >s_d_s_b_s_b_s_c_s_a_s_c_s_a_s GTGACGGTGGCTGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1934 >s_d_s_b_s_c_s_c_s_a_s_c_s_a_s GTGACGGTGGCTGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1935 >s_d_s_b_s_e_s_c_s_a_s_c_s_a_s GTGACGGTGGCTGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1936 >s_d_s_d_s_a_s_c_s_a_s_c_s_a_s GTGACGGTGACGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1937 >s_d_s_d_s_b_s_c_s_a_s_c_s_a_s GTGACGGTGACGGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1938 >s_d_s_d_s_c_s_c_s_a_s_c_s_a_s GTGACGGTGACGGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1939 >s_d_s_d_s_e_s_c_s_a_s_c_s_a_s GTGACGGTGACGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1940 >s_d_s_e_s_a_s_c_s_a_s_c_s_a_s GTGACGGTGCTGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1941 >s_d_s_e_s_b_s_c_s_a_s_c_s_a_s GTGACGGTGCTGGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1942 >s_d_s_e_s_c_s_c_s_a_s_c_s_a_s GTGACGGTGCTGGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1943 >s_a_s_b_s_e_s_c_s_a_s_c_s_a_s GTGTCTGTGGCTGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1944 >s_d_s_e_s_e_s_c_s_a_s_c_s_a_s GTGACGGTGCTGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1945 >s_e_s_a_s_a_s_c_s_a_s_c_s_a_s GTGCTGGTGTCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1946 >s_e_s_a_s_b_s_c_s_a_s_c_s_a_s GTGCTGGTGTCTGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1947 >s_e_s_a_s_c_s_c_s_a_s_c_s_a_s GTGCTGGTGTCTGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1948 >s_e_s_a_s_e_s_c_s_a_s_c_s_a_s GTGCTGGTGTCTGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1949 >s_e_s_b_s_a_s_c_s_a_s_c_s_a_s GTGCTGGTGGCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1950 >s_e_s_b_s_b_s_c_s_a_s_c_s_a_s GTGCTGGTGGCTGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1951 >s_e_s_b_s_c_s_c_s_a_s_c_s_a_s GTGCTGGTGGCTGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1952 >s_e_s_b_s_e_s_c_s_a_s_c_s_a_s GTGCTGGTGGCTGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1953 >s_e_s_d_s_a_s_c_s_a_s_c_s_a_s GTGCTGGTGACGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1954 >s_e_s_d_s_b_s_c_s_a_s_c_s_a_s GTGCTGGTGACGGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1955 >s_e_s_d_s_c_s_c_s_a_s_c_s_a_s GTGCTGGTGACGGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1956 >s_e_s_d_s_e_s_c_s_a_s_c_s_a_s GTGCTGGTGACGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1957 >s_e_s_e_s_a_s_c_s_a_s_c_s_a_s GTGCTGGTGCTGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1958 >s_e_s_e_s_b_s_c_s_a_s_c_s_a_s GTGCTGGTGCTGGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1959 >s_e_s_e_s_c_s_c_s_a_s_c_s_a_s GTGCTGGTGCTGGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1960 >s_e_s_e_s_e_s_c_s_a_s_c_s_a_s GTGCTGGTGCTGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1961 >s_a_s_d_s_a_s_c_s_a_s_c_s_a_s GTGTCTGTGACGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1962 >s_a_s_d_s_b_s_c_s_a_s_c_s_a_s GTGTCTGTGACGGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1963 >s_a_s_a_s_b_s_c_s_a_s_c_s_a_s GTGTCTGTGTCTGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1964 >s_a_s_d_s_c_s_c_s_a_s_c_s_a_s GTGTCTGTGACGGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1965 >s_a_s_d_s_e_s_c_s_a_s_c_s_a_s GTGTCTGTGACGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1966 >s_a_s_e_s_a_s_c_s_a_s_c_s_a_s GTGTCTGTGCTGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1967 >s_a_s_e_s_b_s_c_s_a_s_c_s_a_s GTGTCTGTGCTGGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1968 >s_a_s_e_s_c_s_c_s_a_s_c_s_a_s GTGTCTGTGCTGGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1969 >s_a_s_e_s_e_s_c_s_a_s_c_s_a_s GTGTCTGTGCTGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1970 >s_b_s_a_s_a_s_c_s_a_s_c_s_a_s GTGGCTGTGTCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1971 >s_b_s_a_s_b_s_c_s_a_s_c_s_a_s GTGGCTGTGTCTGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1972 >s_a_s_a_s_c_s_c_s_a_s_c_s_a_s GTGTCTGTGTCTGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1973 >s_b_s_a_s_c_s_c_s_a_s_c_s_a_s GTGGCTGTGTCTGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1974 >s_b_s_a_s_e_s_c_s_a_s_c_s_a_s GTGGCTGTGTCTGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1975 >s_b_s_b_s_a_s_c_s_a_s_c_s_a_s GTGGCTGTGGCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1976 >s_b_s_b_s_b_s_c_s_a_s_c_s_a_s GTGGCTGTGGCTGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1977 >s_b_s_b_s_c_s_c_s_a_s_c_s_a_s GTGGCTGTGGCTGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1978 >s_b_s_b_s_e_s_c_s_a_s_c_s_a_s GTGGCTGTGGCTGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1979 >s_b_s_d_s_a_s_c_s_a_s_c_s_a_s GTGGCTGTGACGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1980 >s_b_s_d_s_b_s_c_s_a_s_c_s_a_s GTGGCTGTGACGGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1981 >s_b_s_d_s_c_s_c_s_a_s_c_s_a_s GTGGCTGTGACGGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5

1982 >s_b_s_d_s_e_s_c_s_a_s_c_s_a_s GTGGCTGTGACGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1983 >s_b_s_e_s_a_s_c_s_a_s_c_s_a_s GTGGCTGTGCTGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1984 >s_b_s_e_s_b_s_c_s_a_s_c_s_a_s GTGGCTGTGCTGGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1985 >s_a_s_a_s_e_s_c_s_a_s_c_s_a_s GTGTCTGTGTCTGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1986 >s_b_s_e_s_c_s_c_s_a_s_c_s_a_s GTGGCTGTGCTGGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1987 >s_b_s_e_s_e_s_c_s_a_s_c_s_a_s GTGGCTGTGCTGGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1988 >s_c_s_a_s_a_s_c_s_a_s_c_s_a_s GTGTGGGTGTCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1989 >s_c_s_a_s_b_s_c_s_a_s_c_s_a_s GTGTGGGTGTCTGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1990 >s_c_s_a_s_c_s_c_s_a_s_c_s_a_s GTGTGGGTGTCTGTGTGGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1991 >s_c_s_a_s_e_s_c_s_a_s_c_s_a_s GTGTGGGTGTCTGTGCTGGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1992 >s_c_s_b_s_a_s_c_s_a_s_c_s_a_s GTGTGGGTGGCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1993 >s_c_s_b_s_b_s_c_s_a_s_c_s_a_s GTGTGGGTGGCTGTGGCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5
1994 >s_a_s_b_s_a_s_c_s_a_s_c_s_a_s GTGTCTGTGGCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
>clamp_s_c_s_d_s_c_s_a_s:compl:rev CACAGACACCCACACCGTCACCCACACTATCATGTTGACATTCC; dG = -24.5

****

CE Matches

1 >s_c_s_e_s_d_s_c_s_e_s GTGTGGGTGCTGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.8
2 >s_e_s_c_s_e_s_c_s_e_s GTGCTGGTGTGGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.7
3 >s_a_s_c_s_e_s_c_s_e_s GTGTCTGTGTGGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.7
4 >s_b_s_c_s_e_s_c_s_e_s GTGGCTGTGTGGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.7
5 >s_c_s_c_s_e_s_c_s_e_s GTGTGGGTGTGGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.7
6 >s_d_s_c_s_e_s_c_s_e_s GTGACGGTGTGGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.7
7 >s_a_s_a_s_a_s_c_s_e_s GTGTCTGTGTCTGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
8 >s_a_s_b_s_e_s_c_s_e_s GTGTCTGTGGCTGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
9 >s_d_s_e_s_e_s_c_s_e_s GTGACGGTGCTGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
10 >s_e_s_a_s_a_s_c_s_e_s GTGCTGGTGTCTGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
11 >s_e_s_a_s_b_s_c_s_e_s GTGCTGGTGTCTGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
12 >s_e_s_a_s_c_s_c_s_e_s GTGCTGGTGTCTGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
13 >s_e_s_a_s_d_s_c_s_e_s GTGCTGGTGTCTGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
14 >s_e_s_a_s_e_s_c_s_e_s GTGCTGGTGTCTGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
15 >s_e_s_b_s_a_s_c_s_e_s GTGCTGGTGGCTGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
16 >s_e_s_b_s_b_s_c_s_e_s GTGCTGGTGGCTGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
17 >s_e_s_b_s_c_s_c_s_e_s GTGCTGGTGGCTGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
18 >s_e_s_b_s_d_s_c_s_e_s GTGCTGGTGGCTGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
19 >s_a_s_c_s_a_s_c_s_e_s GTGTCTGTGTGGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
20 >s_e_s_b_s_e_s_c_s_e_s GTGCTGGTGGCTGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4

21 >s_e_s_c_s_a_s_c_s_e_s GTGCTGGTGTGGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
22 >s_e_s_c_s_b_s_c_s_e_s GTGCTGGTGTGGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
23 >s_e_s_c_s_c_s_c_s_e_s GTGCTGGTGTGGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
24 >s_e_s_c_s_d_s_c_s_e_s GTGCTGGTGTGGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
25 >s_e_s_d_s_a_s_c_s_e_s GTGCTGGTGACGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
26 >s_e_s_d_s_b_s_c_s_e_s GTGCTGGTGACGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
27 >s_e_s_d_s_c_s_c_s_e_s GTGCTGGTGACGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
28 >s_e_s_d_s_d_s_c_s_e_s GTGCTGGTGACGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
29 >s_a_s_c_s_b_s_c_s_e_s GTGTCTGTGTGGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
30 >s_e_s_d_s_e_s_c_s_e_s GTGCTGGTGACGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
31 >s_e_s_e_s_a_s_c_s_e_s GTGCTGGTGCTGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
32 >s_e_s_e_s_b_s_c_s_e_s GTGCTGGTGCTGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
33 >s_e_s_e_s_c_s_c_s_e_s GTGCTGGTGCTGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
34 >s_e_s_e_s_d_s_c_s_e_s GTGCTGGTGCTGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
35 >s_e_s_e_s_e_s_c_s_e_s GTGCTGGTGCTGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
36 >s_a_s_c_s_c_s_c_s_e_s GTGTCTGTGTGGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
37 >s_a_s_c_s_d_s_c_s_e_s GTGTCTGTGTGGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
38 >s_a_s_d_s_a_s_c_s_e_s GTGTCTGTGACGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
39 >s_a_s_d_s_b_s_c_s_e_s GTGTCTGTGACGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
40 >s_a_s_d_s_c_s_c_s_e_s GTGTCTGTGACGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
41 >s_a_s_d_s_d_s_c_s_e_s GTGTCTGTGACGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
42 >s_a_s_a_s_b_s_c_s_e_s GTGTCTGTGTCTGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
43 >s_a_s_d_s_e_s_c_s_e_s GTGTCTGTGACGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
44 >s_a_s_e_s_a_s_c_s_e_s GTGTCTGTGCTGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
45 >s_a_s_e_s_b_s_c_s_e_s GTGTCTGTGCTGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
46 >s_a_s_e_s_c_s_c_s_e_s GTGTCTGTGCTGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
47 >s_a_s_e_s_d_s_c_s_e_s GTGTCTGTGCTGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
48 >s_a_s_e_s_e_s_c_s_e_s GTGTCTGTGCTGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
49 >s_b_s_a_s_a_s_c_s_e_s GTGGCTGTGTCTGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
50 >s_b_s_a_s_b_s_c_s_e_s GTGGCTGTGTCTGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
51 >s_b_s_a_s_c_s_c_s_e_s GTGGCTGTGTCTGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
52 >s_b_s_a_s_d_s_c_s_e_s GTGGCTGTGTCTGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
53 >s_a_s_a_s_c_s_c_s_e_s GTGTCTGTGTCTGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
54 >s_b_s_a_s_e_s_c_s_e_s GTGGCTGTGTCTGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
55 >s_b_s_b_s_a_s_c_s_e_s GTGGCTGTGGCTGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
56 >s_b_s_b_s_b_s_c_s_e_s GTGGCTGTGGCTGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
57 >s_b_s_b_s_c_s_c_s_e_s GTGGCTGTGGCTGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4

58 >s_b_s_b_s_d_s_c_s_e_s GTGGCTGTGGCTGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
59 >s_b_s_b_s_e_s_c_s_e_s GTGGCTGTGGCTGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
60 >s_b_s_c_s_a_s_c_s_e_s GTGGCTGTGTGGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
61 >s_b_s_c_s_b_s_c_s_e_s GTGGCTGTGTGGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
62 >s_b_s_c_s_c_s_c_s_e_s GTGGCTGTGTGGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
63 >s_b_s_c_s_d_s_c_s_e_s GTGGCTGTGTGGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
64 >s_a_s_a_s_d_s_c_s_e_s GTGTCTGTGTCTGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
65 >s_b_s_d_s_a_s_c_s_e_s GTGGCTGTGACGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
66 >s_b_s_d_s_b_s_c_s_e_s GTGGCTGTGACGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
67 >s_b_s_d_s_c_s_c_s_e_s GTGGCTGTGACGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
68 >s_b_s_d_s_d_s_c_s_e_s GTGGCTGTGACGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
69 >s_b_s_d_s_e_s_c_s_e_s GTGGCTGTGACGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
70 >s_b_s_e_s_a_s_c_s_e_s GTGGCTGTGCTGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
71 >s_b_s_e_s_b_s_c_s_e_s GTGGCTGTGCTGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
72 >s_b_s_e_s_c_s_c_s_e_s GTGGCTGTGCTGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
73 >s_b_s_e_s_d_s_c_s_e_s GTGGCTGTGCTGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
74 >s_a_s_a_s_e_s_c_s_e_s GTGTCTGTGTCTGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
75 >s_b_s_e_s_e_s_c_s_e_s GTGGCTGTGCTGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
76 >s_c_s_a_s_a_s_c_s_e_s GTGTGGGTGTCTGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
77 >s_c_s_a_s_b_s_c_s_e_s GTGTGGGTGTCTGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
78 >s_c_s_a_s_c_s_c_s_e_s GTGTGGGTGTCTGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
79 >s_c_s_a_s_d_s_c_s_e_s GTGTGGGTGTCTGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
80 >s_c_s_a_s_e_s_c_s_e_s GTGTGGGTGTCTGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
81 >s_c_s_b_s_a_s_c_s_e_s GTGTGGGTGGCTGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
82 >s_c_s_b_s_b_s_c_s_e_s GTGTGGGTGGCTGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
83 >s_c_s_b_s_c_s_c_s_e_s GTGTGGGTGGCTGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
84 >s_c_s_b_s_d_s_c_s_e_s GTGTGGGTGGCTGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
85 >s_a_s_b_s_a_s_c_s_e_s GTGTCTGTGGCTGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
86 >s_c_s_b_s_e_s_c_s_e_s GTGTGGGTGGCTGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
87 >s_c_s_c_s_a_s_c_s_e_s GTGTGGGTGTGGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
88 >s_c_s_c_s_b_s_c_s_e_s GTGTGGGTGTGGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
89 >s_c_s_c_s_c_s_c_s_e_s GTGTGGGTGTGGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
90 >s_c_s_c_s_d_s_c_s_e_s GTGTGGGTGTGGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
91 >s_c_s_d_s_a_s_c_s_e_s GTGTGGGTGACGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
92 >s_c_s_d_s_b_s_c_s_e_s GTGTGGGTGACGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
93 >s_c_s_d_s_c_s_c_s_e_s GTGTGGGTGACGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
94 >s_c_s_d_s_d_s_c_s_e_s GTGTGGGTGACGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4

95 >s_a_s_b_s_b_s_c_s_e_s GTGTCTGTGGCTGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
96 >s_c_s_d_s_e_s_c_s_e_s GTGTGGGTGACGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
97 >s_c_s_e_s_a_s_c_s_e_s GTGTGGGTGCTGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
98 >s_c_s_e_s_b_s_c_s_e_s GTGTGGGTGCTGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
99 >s_c_s_e_s_c_s_c_s_e_s GTGTGGGTGCTGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
100 >s_c_s_e_s_e_s_c_s_e_s GTGTGGGTGCTGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
101 >s_d_s_a_s_a_s_c_s_e_s GTGACGGTGTCTGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
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109 >s_d_s_b_s_c_s_c_s_e_s GTGACGGTGGCTGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
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114 >s_d_s_c_s_c_s_c_s_e_s GTGACGGTGTGGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
115 >s_d_s_c_s_d_s_c_s_e_s GTGACGGTGTGGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
116 >s_a_s_b_s_d_s_c_s_e_s GTGTCTGTGGCTGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
117 >s_d_s_d_s_a_s_c_s_e_s GTGACGGTGACGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
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119 >s_d_s_d_s_c_s_c_s_e_s GTGACGGTGACGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
120 >s_d_s_d_s_d_s_c_s_e_s GTGACGGTGACGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
121 >s_d_s_d_s_e_s_c_s_e_s GTGACGGTGACGGTGCTGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
122 >s_d_s_e_s_a_s_c_s_e_s GTGACGGTGCTGGTGTCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
123 >s_d_s_e_s_b_s_c_s_e_s GTGACGGTGCTGGTGGCTGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
124 >s_d_s_e_s_c_s_c_s_e_s GTGACGGTGCTGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4
125 >s_d_s_e_s_d_s_c_s_e_s GTGACGGTGCTGGTGACGGTGTGGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -18.4

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CE Mismatches

1 >s_a_s_a_s_c_s_c_s_d_s GTGTCTGTGTCTGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
2 >s_b_s_a_s_c_s_c_s_d_s GTGGCTGTGTCTGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8

3 >s_b_s_b_s_c_s_c_s_d_s GTGGCTGTGGCTGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
4 >s_b_s_c_s_c_s_d_s_e_s GTGGCTGTGTGGGTGTGGGTGACGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
5 >s_c_s_a_s_c_s_c_s_d_s GTGTGGGTGTCTGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
6 >s_c_s_b_s_c_s_c_s_d_s GTGTGGGTGGCTGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
7 >s_d_s_a_s_c_s_c_s_d_s GTGACGGTGTCTGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
8 >s_a_s_b_s_c_s_c_s_d_s GTGTCTGTGGCTGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
9 >s_d_s_b_s_c_s_c_s_d_s GTGACGGTGGCTGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
10 >s_e_s_a_s_c_s_c_s_d_s GTGCTGGTGTCTGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
11 >s_e_s_b_s_c_s_c_s_d_s GTGCTGGTGGCTGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
12 >s_a_s_c_s_c_s_d_s_e_s GTGTCTGTGTGGGTGTGGGTGACGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.8
13 >s_a_s_d_s_c_s_c_s_d_s GTGTCTGTGACGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
14 >s_a_s_e_s_c_s_c_s_d_s GTGTCTGTGCTGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
15 >s_b_s_c_s_c_s_c_s_d_s GTGGCTGTGTGGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
16 >s_b_s_d_s_c_s_c_s_d_s GTGGCTGTGACGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
17 >s_b_s_e_s_c_s_c_s_d_s GTGGCTGTGCTGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
18 >s_c_s_c_s_c_s_c_s_d_s GTGTGGGTGTGGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
19 >s_c_s_c_s_c_s_d_s_e_s GTGTGGGTGTGGGTGTGGGTGACGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
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21 >s_d_s_c_s_c_s_c_s_d_s GTGACGGTGTGGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
22 >s_d_s_c_s_c_s_d_s_e_s GTGACGGTGTGGGTGTGGGTGACGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
23 >s_d_s_d_s_c_s_c_s_d_s GTGACGGTGACGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
24 >s_d_s_e_s_c_s_c_s_d_s GTGACGGTGCTGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
25 >s_e_s_c_s_c_s_c_s_d_s GTGCTGGTGTGGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
26 >s_e_s_c_s_c_s_d_s_e_s GTGCTGGTGTGGGTGTGGGTGACGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
27 >s_e_s_d_s_c_s_c_s_d_s GTGCTGGTGACGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
28 >s_e_s_e_s_c_s_c_s_d_s GTGCTGGTGCTGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
29 >s_a_s_c_s_c_s_c_s_d_s GTGTCTGTGTGGGTGTGGGTGTGGGTGACGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.7
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31 >s_a_s_a_s_c_s_c_s_b_s GTGTCTGTGTCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.3
32 >s_b_s_a_s_c_s_c_s_b_s GTGGCTGTGTCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.3
33 >s_b_s_b_s_c_s_c_s_b_s GTGGCTGTGGCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.3
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35 >s_c_s_a_s_c_s_c_s_b_s GTGTGGGTGTCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.3
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39 >s_c_s_d_s_e_s_d_s_e_s GTGTGGGTGACGGTGCTGGTGACGGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.3

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41 >s_a_s_b_s_c_s_c_s_b_s GTGTCTGTGGCTGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.3
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46 >s_a_s_d_s_c_s_c_s_b_s GTGTCTGTGACGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.2
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52 >s_b_s_b_s_c_s_c_s_c_s GTGGCTGTGGCTGTGTGGGTGTGGGTGTGGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.2
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55 >s_b_s_c_s_c_s_c_s_b_s GTGGCTGTGTGGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.2
56 >s_b_s_c_s_c_s_c_s_a_s GTGGCTGTGTGGGTGTGGGTGTGGGTGTCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.2
57 >s_b_s_c_s_c_s_a_s_e_s GTGGCTGTGTGGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.2
58 >s_b_s_d_s_c_s_c_s_b_s GTGGCTGTGACGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.2
59 >s_b_s_e_s_c_s_c_s_b_s GTGGCTGTGCTGGTGTGGGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.2
60 >s_c_s_a_s_c_s_c_s_c_s GTGTGGGTGTCTGTGTGGGTGTGGGTGTGGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.2
61 >s_c_s_a_s_c_s_c_s_a_s GTGTGGGTGTCTGTGTGGGTGTGGGTGTCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.2
62 >s_c_s_b_s_c_s_c_s_c_s GTGTGGGTGGCTGTGTGGGTGTGGGTGTGGGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -13.2
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861 >s_e_s_a_s_a_s_c_s_a_s GTGCTGGTGTCTGTGTCTGTGTGGGTGTCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.8
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867 >s_e_s_b_s_b_s_c_s_b_s GTGCTGGTGGCTGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.8
868 >s_e_s_b_s_b_s_c_s_a_s GTGCTGGTGGCTGTGGCTGTGTGGGTGTCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.8
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872 >s_e_s_c_s_b_s_c_s_b_s GTGCTGGTGTGGGTGGCTGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.8
873 >s_e_s_c_s_b_s_c_s_a_s GTGCTGGTGTGGGTGGCTGTGTGGGTGTCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.8
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876 >s_e_s_d_s_a_s_c_s_b_s GTGCTGGTGACGGTGTCTGTGTGGGTGGCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.8
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889 >s_c_s_b_s_d_s_c_s_a_s GTGTGGGTGGCTGTGACGGTGTGGGTGTCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.7
890 >s_d_s_a_s_d_s_c_s_a_s GTGACGGTGTCTGTGACGGTGTGGGTGTCTGTG; >clamp_s_c_s_e_s:compl:rev CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.7

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   891 >s_d_s_b_s_d_s_c_s_a_s  GTGACGGTGGCTGTGACGGTGTGGGTGTCTGTG;  >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.7
   892 >s_d_s_d_s_d_s_c_s_a_s  GTGACGGTGACGGTGACGGTGTGGGTGTCTGTG;  >clamp_s_c_s_e_s:compl:rev
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CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.7
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CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.7
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CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.7
   896 >s_e_s_d_s_d_s_c_s_a_s  GTGCTGGTGACGGTGACGGTGTGGGTGTCTGTG;  >clamp_s_c_s_e_s:compl:rev
CACCAGCACCCACACTATCATGTTGACATTCC; dG = -10.7

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DA Matches

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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -18.1
     3 >s_b_s_d_s_a_s_d_s_a_s  GTGGCTGTGACGGTGTCTGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -18.1
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -18.1
     5 >s_d_s_d_s_a_s_d_s_a_s  GTGACGGTGACGGTGTCTGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -18.1
     6 >s_d_s_a_s_d_s_d_s_a_s  GTGACGGTGTCTGTGACGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.3
     8 >s_e_s_a_s_a_s_d_s_a_s  GTGCTGGTGTCTGTGTCTGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.3
     9 >s_e_s_a_s_b_s_d_s_a_s  GTGCTGGTGTCTGTGGCTGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.3
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.3
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.3
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.3
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.3
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.3
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32 >s_c_s_a_s_a_s_d_s_a_s GTGTGGGTGTCTGTGTCTGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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36 >s_a_s_b_s_a_s_d_s_a_s GTGTCTGTGGCTGTGTCTGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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61 >s_e_s_c_s_d_s_d_s_a_s GTGCTGGTGTGGGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
62 >s_e_s_c_s_e_s_d_s_a_s GTGCTGGTGTGGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
63 >s_e_s_d_s_c_s_d_s_a_s GTGCTGGTGACGGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
64 >s_e_s_d_s_d_s_d_s_a_s GTGCTGGTGACGGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2

65 >s_e_s_d_s_e_s_d_s_a_s GTGCTGGTGACGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
66 >s_e_s_e_s_c_s_d_s_a_s GTGCTGGTGCTGGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
67 >s_e_s_e_s_d_s_d_s_a_s GTGCTGGTGCTGGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
68 >s_e_s_e_s_e_s_d_s_a_s GTGCTGGTGCTGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
69 >s_a_s_c_s_c_s_d_s_a_s GTGTCTGTGTGGGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
70 >s_a_s_c_s_d_s_d_s_a_s GTGTCTGTGTGGGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
71 >s_a_s_c_s_e_s_d_s_a_s GTGTCTGTGTGGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
72 >s_a_s_d_s_c_s_d_s_a_s GTGTCTGTGACGGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
73 >s_a_s_d_s_d_s_d_s_a_s GTGTCTGTGACGGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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74 >s_a_s_d_s_e_s_d_s_a_s GTGTCTGTGACGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
75 >s_a_s_e_s_c_s_d_s_a_s GTGTCTGTGCTGGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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76 >s_a_s_e_s_d_s_d_s_a_s GTGTCTGTGCTGGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
77 >s_a_s_e_s_e_s_d_s_a_s GTGTCTGTGCTGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
78 >s_b_s_a_s_c_s_d_s_a_s GTGGCTGTGTCTGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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79 >s_b_s_a_s_d_s_d_s_a_s GTGGCTGTGTCTGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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80 >s_a_s_a_s_c_s_d_s_a_s GTGTCTGTGTCTGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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81 >s_b_s_a_s_e_s_d_s_a_s GTGGCTGTGTCTGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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82 >s_b_s_b_s_c_s_d_s_a_s GTGGCTGTGGCTGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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83 >s_b_s_b_s_d_s_d_s_a_s GTGGCTGTGGCTGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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84 >s_b_s_b_s_e_s_d_s_a_s GTGGCTGTGGCTGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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85 >s_b_s_c_s_c_s_d_s_a_s GTGGCTGTGTGGGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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86 >s_b_s_c_s_d_s_d_s_a_s GTGGCTGTGTGGGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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87 >s_a_s_a_s_d_s_d_s_a_s GTGTCTGTGTCTGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
88 >s_b_s_c_s_e_s_d_s_a_s GTGGCTGTGTGGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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89 >s_b_s_d_s_c_s_d_s_a_s GTGGCTGTGACGGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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90 >s_b_s_d_s_d_s_d_s_a_s GTGGCTGTGACGGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
91 >s_b_s_d_s_e_s_d_s_a_s GTGGCTGTGACGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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92 >s_b_s_e_s_c_s_d_s_a_s GTGGCTGTGCTGGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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93 >s_b_s_e_s_d_s_d_s_a_s GTGGCTGTGCTGGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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94 >s_a_s_a_s_e_s_d_s_a_s GTGTCTGTGTCTGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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95 >s_b_s_e_s_e_s_d_s_a_s GTGGCTGTGCTGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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96 >s_c_s_a_s_c_s_d_s_a_s GTGTGGGTGTCTGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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97 >s_c_s_a_s_d_s_d_s_a_s GTGTGGGTGTCTGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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98 >s_c_s_a_s_e_s_d_s_a_s GTGTGGGTGTCTGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
99 >s_c_s_b_s_c_s_d_s_a_s GTGTGGGTGGCTGTGTGGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
100 >s_c_s_b_s_d_s_d_s_a_s GTGTGGGTGGCTGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
101 >s_c_s_b_s_e_s_d_s_a_s GTGTGGGTGGCTGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2

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   102 >s_c_s_c_s_c_s_d_s_a_s  GTGTGGGTGTGGGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   103 >s_c_s_c_s_d_s_d_s_a_s  GTGTGGGTGTGGGTGACGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   104 >s_c_s_c_s_e_s_d_s_a_s  GTGTGGGTGTGGGTGCTGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   105 >s_c_s_d_s_c_s_d_s_a_s  GTGTGGGTGACGGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
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   107 >s_c_s_d_s_e_s_d_s_a_s  GTGTGGGTGACGGTGCTGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   108 >s_c_s_e_s_c_s_d_s_a_s  GTGTGGGTGCTGGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   113 >s_d_s_a_s_e_s_d_s_a_s  GTGACGGTGTCTGTGCTGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   114 >s_d_s_b_s_c_s_d_s_a_s  GTGACGGTGGCTGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   115 >s_d_s_b_s_d_s_d_s_a_s  GTGACGGTGGCTGTGACGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   116 >s_d_s_b_s_e_s_d_s_a_s  GTGACGGTGGCTGTGCTGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   117 >s_d_s_c_s_c_s_d_s_a_s  GTGACGGTGTGGGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   118 >s_d_s_c_s_d_s_d_s_a_s  GTGACGGTGTGGGTGACGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   119 >s_a_s_b_s_d_s_d_s_a_s  GTGTCTGTGGCTGTGACGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   120 >s_d_s_c_s_e_s_d_s_a_s  GTGACGGTGTGGGTGCTGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   123 >s_d_s_d_s_e_s_d_s_a_s  GTGACGGTGACGGTGCTGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   124 >s_d_s_e_s_c_s_d_s_a_s  GTGACGGTGCTGGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2
   125 >s_d_s_e_s_d_s_d_s_a_s  GTGACGGTGCTGGTGACGGTGACGGTGTCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -17.2

*******************************************************************************
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DA Mismatches

```
     1 >s_a_s_d_s_b_s_d_s_e_s  GTGTCTGTGACGGTGGCTGTGACGGTGCTGGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.2
     2 >s_a_s_d_s_b_s_d_s_d_s  GTGTCTGTGACGGTGGCTGTGACGGTGACGGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.2
     3 >s_a_s_d_s_b_s_d_s_c_s  GTGTCTGTGACGGTGGCTGTGACGGTGTGGGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.2
     4 >s_a_s_d_s_b_s_d_s_b_s  GTGTCTGTGACGGTGGCTGTGACGGTGGCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.2
     5 >s_b_s_d_s_b_s_d_s_e_s  GTGGCTGTGACGGTGGCTGTGACGGTGCTGGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.2
     6 >s_b_s_d_s_b_s_d_s_d_s  GTGGCTGTGACGGTGGCTGTGACGGTGACGGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.2
     7 >s_b_s_d_s_b_s_d_s_c_s  GTGGCTGTGACGGTGGCTGTGACGGTGTGGGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.2
     8 >s_b_s_d_s_b_s_d_s_b_s  GTGGCTGTGACGGTGGCTGTGACGGTGGCTGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.2
     9 >s_c_s_d_s_b_s_d_s_e_s  GTGTGGGTGACGGTGGCTGTGACGGTGCTGGTG;  >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
```

10 >s_c_s_d_s_b_s_d_s_d_s GTGTGGGTGACGGTGGCTGTGACGGTGACGGTG; >clamp_s_d_s_a_s:compl:rev
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11 >s_c_s_d_s_b_s_d_s_c_s GTGTGGGTGACGGTGGCTGTGACGGTGTGGGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
12 >s_c_s_d_s_b_s_d_s_b_s GTGTGGGTGACGGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
13 >s_d_s_d_s_b_s_d_s_e_s GTGACGGTGACGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
14 >s_d_s_d_s_b_s_d_s_d_s GTGACGGTGACGGTGGCTGTGACGGTGACGGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
15 >s_d_s_d_s_b_s_d_s_c_s GTGACGGTGACGGTGGCTGTGACGGTGTGGGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
16 >s_d_s_d_s_b_s_d_s_b_s GTGACGGTGACGGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
17 >s_e_s_d_s_b_s_d_s_e_s GTGCTGGTGACGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
18 >s_e_s_d_s_b_s_d_s_d_s GTGCTGGTGACGGTGGCTGTGACGGTGACGGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
19 >s_e_s_d_s_b_s_d_s_c_s GTGCTGGTGACGGTGGCTGTGACGGTGTGGGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
20 >s_e_s_d_s_b_s_d_s_b_s GTGCTGGTGACGGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -16.1
21 >s_a_s_d_s_b_s_b_s_a_s GTGTCTGTGACGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.7
22 >s_b_s_d_s_b_s_b_s_a_s GTGGCTGTGACGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.7
23 >s_a_s_d_s_b_s_c_s_a_s GTGTCTGTGACGGTGGCTGTGTGGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.6
24 >s_a_s_d_s_b_s_a_s_a_s GTGTCTGTGACGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.6
25 >s_b_s_a_s_d_s_b_s_a_s GTGGCTGTGTCTGTGACGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.6
26 >s_b_s_b_s_d_s_b_s_a_s GTGGCTGTGGCTGTGACGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.6
27 >s_a_s_a_s_d_s_b_s_a_s GTGTCTGTGTCTGTGACGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.6
28 >s_b_s_d_s_b_s_c_s_a_s GTGGCTGTGACGGTGGCTGTGTGGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.6
29 >s_b_s_d_s_b_s_a_s_a_s GTGGCTGTGACGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.6
30 >s_c_s_a_s_d_s_b_s_a_s GTGTGGGTGTCTGTGACGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.6
31 >s_c_s_b_s_d_s_b_s_a_s GTGTGGGTGGCTGTGACGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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32 >s_c_s_d_s_b_s_b_s_a_s GTGTGGGTGACGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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33 >s_d_s_b_s_d_s_d_s_e_s GTGACGGTGGCTGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_a_s:compl:rev
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35 >s_d_s_b_s_d_s_d_s_c_s GTGACGGTGGCTGTGACGGTGACGGTGTGGGTG; >clamp_s_d_s_a_s:compl:rev
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36 >s_d_s_b_s_d_s_d_s_b_s GTGACGGTGGCTGTGACGGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
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37 >s_d_s_b_s_d_s_e_s_a_s GTGACGGTGGCTGTGACGGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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46 >s_a_s_d_s_b_s_e_s_a_s GTGTCTGTGACGGTGGCTGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
134 >s_d_s_b_s_a_s_d_s_b_s GTGACGGTGGCTGTGTCTGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
135 >s_d_s_b_s_b_s_d_s_b_s GTGACGGTGGCTGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
136 >s_d_s_b_s_c_s_d_s_b_s GTGACGGTGGCTGTGTGGGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
137 >s_a_s_b_s_c_s_d_s_b_s GTGTCTGTGGCTGTGTGGGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
138 >s_d_s_b_s_e_s_d_s_b_s GTGACGGTGGCTGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
139 >s_d_s_c_s_a_s_d_s_b_s GTGACGGTGTGGGTGTCTGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
140 >s_d_s_c_s_b_s_d_s_b_s GTGACGGTGTGGGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
141 >s_d_s_c_s_c_s_d_s_b_s GTGACGGTGTGGGTGTGGGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
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CACAGACACCGTCACTATCATGTTGACATTCC; dG = -15.3
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164 >s_e_s_c_s_a_s_d_s_b_s GTGCTGGTGTGGGTGTCTGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
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176 >s_e_s_e_s_d_s_d_s_b_s GTGCTGGTGCTGGTGACGGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
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177 >s_e_s_e_s_e_s_d_s_b_s GTGCTGGTGCTGGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_a_s:compl:rev
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183 >s_d_s_b_s_b_s_e_s_a_s GTGACGGTGGCTGTGGCTGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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184 >s_d_s_b_s_b_s_c_s_a_s GTGACGGTGGCTGTGGCTGTGTGGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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827 >s_e_s_a_s_a_s_e_s_a_s GTGCTGGTGTCTGTGTCTGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
828 >s_e_s_a_s_a_s_b_s_a_s GTGCTGGTGTCTGTGTCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
829 >s_e_s_a_s_a_s_a_s_a_s GTGCTGGTGTCTGTGTCTGTGTCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
830 >s_e_s_a_s_c_s_e_s_a_s GTGCTGGTGTCTGTGTGGGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
831 >s_e_s_a_s_c_s_b_s_a_s GTGCTGGTGTCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
832 >s_e_s_a_s_e_s_e_s_a_s GTGCTGGTGTCTGTGCTGGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
833 >s_a_s_b_s_e_s_e_s_a_s GTGTCTGTGGCTGTGCTGGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
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836 >s_e_s_b_s_b_s_e_s_a_s GTGCTGGTGGCTGTGGCTGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
837 >s_e_s_b_s_c_s_e_s_a_s GTGCTGGTGGCTGTGTGGGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
838 >s_e_s_b_s_e_s_e_s_a_s GTGCTGGTGGCTGTGCTGGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
839 >s_e_s_c_s_b_s_e_s_a_s GTGCTGGTGTGGGTGGCTGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
840 >s_e_s_c_s_b_s_a_s_a_s GTGCTGGTGTGGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
841 >s_e_s_c_s_c_s_e_s_a_s GTGCTGGTGTGGGTGTGGGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
842 >s_e_s_c_s_e_s_e_s_a_s GTGCTGGTGTGGGTGCTGGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
843 >s_e_s_e_s_b_s_e_s_a_s GTGCTGGTGCTGGTGGCTGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
844 >s_e_s_e_s_b_s_a_s_a_s GTGCTGGTGCTGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
845 >s_e_s_e_s_c_s_e_s_a_s GTGCTGGTGCTGGTGTGGGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
846 >s_e_s_e_s_e_s_e_s_a_s GTGCTGGTGCTGGTGCTGGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
847 >s_a_s_c_s_b_s_e_s_a_s GTGTCTGTGTGGGTGGCTGTGCTGGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
848 >s_a_s_c_s_b_s_a_s_a_s GTGTCTGTGTGGGTGGCTGTGTCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.2
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852 >s_a_s_c_s_e_s_b_s_a_s GTGTCTGTGTGGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.0
853 >s_a_s_a_s_b_s_b_s_a_s GTGTCTGTGTCTGTGGCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.0
854 >s_a_s_e_s_b_s_b_s_a_s GTGTCTGTGCTGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.0
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856 >s_a_s_e_s_e_s_b_s_a_s GTGTCTGTGCTGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.0
857 >s_b_s_a_s_a_s_b_s_a_s GTGGCTGTGTCTGTGTCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.0
858 >s_b_s_a_s_b_s_b_s_a_s GTGGCTGTGTCTGTGGCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.0
859 >s_b_s_a_s_c_s_b_s_a_s GTGGCTGTGTCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.0
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864 >s_b_s_b_s_e_s_b_s_a_s GTGGCTGTGGCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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867 >s_b_s_c_s_e_s_b_s_a_s GTGGCTGTGTGGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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869 >s_b_s_e_s_c_s_b_s_a_s GTGGCTGTGCTGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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875 >s_c_s_c_s_b_s_b_s_a_s GTGTGGGTGTGGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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883 >s_a_s_a_s_a_s_b_s_a_s GTGTCTGTGTCTGTGTCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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884 >s_e_s_b_s_b_s_b_s_a_s GTGCTGGTGGCTGTGGCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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885 >s_a_s_b_s_e_s_b_s_a_s GTGTCTGTGGCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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886 >s_e_s_b_s_c_s_b_s_a_s GTGCTGGTGGCTGTGTGGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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887 >s_e_s_b_s_e_s_b_s_a_s GTGCTGGTGGCTGTGCTGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.0
888 >s_e_s_c_s_b_s_b_s_a_s GTGCTGGTGTGGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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889 >s_e_s_c_s_c_s_b_s_a_s GTGCTGGTGTGGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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890 >s_e_s_c_s_e_s_b_s_a_s GTGCTGGTGTGGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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892 >s_e_s_e_s_c_s_b_s_a_s GTGCTGGTGCTGGTGTGGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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893 >s_e_s_e_s_e_s_b_s_a_s GTGCTGGTGCTGGTGCTGGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
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894 >s_a_s_c_s_b_s_b_s_a_s GTGTCTGTGTGGGTGGCTGTGGCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -10.0
895 >s_b_s_a_s_a_s_a_s_a_s GTGGCTGTGTCTGTGTCTGTGTCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -9.8
896 >s_a_s_a_s_a_s_a_s_a_s GTGTCTGTGTCTGTGTCTGTGTCTGTGTCTGTG; >clamp_s_d_s_a_s:compl:rev
CACAGACACCGTCACTATCATGTTGACATTCC; dG = -8.8

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DB Matches

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CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -19.5
2 >s_b_s_d_s_b_s_d_s_b_s GTGGCTGTGACGGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -19.5
3 >s_e_s_d_s_b_s_d_s_b_s GTGCTGGTGACGGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -19.4
4 >s_c_s_d_s_b_s_d_s_b_s GTGTGGGTGACGGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -19.4
5 >s_d_s_d_s_b_s_d_s_b_s GTGACGGTGACGGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -19.4
6 >s_d_s_b_s_d_s_d_s_b_s GTGACGGTGGCTGTGACGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.9
7 >s_a_s_a_s_a_s_d_s_b_s GTGTCTGTGTCTGTGTCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
8 >s_a_s_b_s_e_s_d_s_b_s GTGTCTGTGGCTGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
9 >s_d_s_e_s_e_s_d_s_b_s GTGACGGTGCTGGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
10 >s_e_s_a_s_a_s_d_s_b_s GTGCTGGTGTCTGTGTCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
11 >s_e_s_a_s_b_s_d_s_b_s GTGCTGGTGTCTGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
12 >s_e_s_a_s_c_s_d_s_b_s GTGCTGGTGTCTGTGTGGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
13 >s_e_s_a_s_d_s_d_s_b_s GTGCTGGTGTCTGTGACGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
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14 >s_e_s_a_s_e_s_d_s_b_s GTGCTGGTGTCTGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
15 >s_e_s_b_s_a_s_d_s_b_s GTGCTGGTGGCTGTGTCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
16 >s_e_s_b_s_b_s_d_s_b_s GTGCTGGTGGCTGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
17 >s_e_s_b_s_c_s_d_s_b_s GTGCTGGTGGCTGTGTGGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
18 >s_e_s_b_s_d_s_d_s_b_s GTGCTGGTGGCTGTGACGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
19 >s_a_s_c_s_a_s_d_s_b_s GTGTCTGTGTGGGTGTCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
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20 >s_e_s_b_s_e_s_d_s_b_s GTGCTGGTGGCTGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
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21 >s_e_s_c_s_a_s_d_s_b_s GTGCTGGTGTGGGTGTCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
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22 >s_e_s_c_s_b_s_d_s_b_s GTGCTGGTGTGGGTGGCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
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23 >s_e_s_c_s_c_s_d_s_b_s GTGCTGGTGTGGGTGTGGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
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24 >s_e_s_c_s_d_s_d_s_b_s GTGCTGGTGTGGGTGACGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
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25 >s_e_s_c_s_e_s_d_s_b_s GTGCTGGTGTGGGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
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26 >s_e_s_d_s_a_s_d_s_b_s GTGCTGGTGACGGTGTCTGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
27 >s_e_s_d_s_c_s_d_s_b_s GTGCTGGTGACGGTGTGGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -18.6
28 >s_e_s_d_s_d_s_d_s_b_s GTGCTGGTGACGGTGACGGTGACGGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
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DB Mismatches

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     2 >s_a_s_d_s_a_s_d_s_d_s  GTGTCTGTGACGGTGTCTGTGACGGTGACGGTG;  >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -13.8
     3 >s_a_s_d_s_a_s_d_s_c_s  GTGTCTGTGACGGTGTCTGTGACGGTGTGGGTG;  >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -13.8
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CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -13.8
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CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -13.8
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     8 >s_b_s_d_s_a_s_d_s_a_s  GTGGCTGTGACGGTGTCTGTGACGGTGTCTGTG;  >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -13.8
     9 >s_c_s_d_s_a_s_d_s_e_s  GTGTGGGTGACGGTGTCTGTGACGGTGCTGGTG;  >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -13.7
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890 >s_a_s_a_s_a_s_a_s_b_s GTGTCTGTGTCTGTGTCTGTGTCTGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -9.9
891 >s_e_s_c_s_c_s_a_s_b_s GTGCTGGTGTGGGTGTGGGTGTCTGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -9.9
892 >s_e_s_c_s_e_s_a_s_b_s GTGCTGGTGTGGGTGCTGGTGTCTGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -9.9
893 >s_a_s_c_s_a_s_a_s_b_s GTGTCTGTGTGGGTGTCTGTGTCTGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -9.9
894 >s_e_s_e_s_a_s_a_s_b_s GTGCTGGTGCTGGTGTCTGTGTCTGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -9.9
895 >s_e_s_e_s_c_s_a_s_b_s GTGCTGGTGCTGGTGTGGGTGTCTGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -9.9
896 >s_e_s_e_s_e_s_a_s_b_s GTGCTGGTGCTGGTGCTGGTGTCTGTGGCTGTG; >clamp_s_d_s_b_s:compl:rev
CACAGCCACCGTCACTATCATGTTGACATTCC; dG = -9.9

****

DE Matches

1 >s_a_s_d_s_e_s_d_s_e_s GTGTCTGTGACGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -19.5
2 >s_b_s_d_s_e_s_d_s_e_s GTGGCTGTGACGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -19.5
3 >s_e_s_d_s_e_s_d_s_e_s GTGCTGGTGACGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -19.4
4 >s_c_s_d_s_e_s_d_s_e_s GTGTGGGTGACGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -19.4

5 >s_d_s_d_s_e_s_d_s_e_s GTGACGGTGACGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -19.4
6 >s_d_s_e_s_d_s_d_s_e_s GTGACGGTGCTGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.9
7 >s_a_s_a_s_a_s_d_s_e_s GTGTCTGTGTCTGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
8 >s_a_s_b_s_e_s_d_s_e_s GTGTCTGTGGCTGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
9 >s_d_s_e_s_e_s_d_s_e_s GTGACGGTGCTGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
10 >s_e_s_a_s_a_s_d_s_e_s GTGCTGGTGTCTGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
11 >s_e_s_a_s_b_s_d_s_e_s GTGCTGGTGTCTGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
12 >s_e_s_a_s_c_s_d_s_e_s GTGCTGGTGTCTGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
13 >s_e_s_a_s_d_s_d_s_e_s GTGCTGGTGTCTGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
14 >s_e_s_a_s_e_s_d_s_e_s GTGCTGGTGTCTGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
15 >s_e_s_b_s_a_s_d_s_e_s GTGCTGGTGGCTGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
16 >s_e_s_b_s_b_s_d_s_e_s GTGCTGGTGGCTGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
17 >s_e_s_b_s_c_s_d_s_e_s GTGCTGGTGGCTGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
18 >s_e_s_b_s_d_s_d_s_e_s GTGCTGGTGGCTGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
19 >s_a_s_c_s_a_s_d_s_e_s GTGTCTGTGTGGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
20 >s_e_s_b_s_e_s_d_s_e_s GTGCTGGTGGCTGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
21 >s_e_s_c_s_a_s_d_s_e_s GTGCTGGTGTGGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
22 >s_e_s_c_s_b_s_d_s_e_s GTGCTGGTGTGGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
23 >s_e_s_c_s_c_s_d_s_e_s GTGCTGGTGTGGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
24 >s_e_s_c_s_d_s_d_s_e_s GTGCTGGTGTGGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
25 >s_e_s_c_s_e_s_d_s_e_s GTGCTGGTGTGGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
26 >s_e_s_d_s_a_s_d_s_e_s GTGCTGGTGACGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
27 >s_e_s_d_s_b_s_d_s_e_s GTGCTGGTGACGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
28 >s_e_s_d_s_c_s_d_s_e_s GTGCTGGTGACGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
29 >s_e_s_d_s_d_s_d_s_e_s GTGCTGGTGACGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
30 >s_a_s_c_s_b_s_d_s_e_s GTGTCTGTGTGGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
31 >s_e_s_e_s_a_s_d_s_e_s GTGCTGGTGCTGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
32 >s_e_s_e_s_b_s_d_s_e_s GTGCTGGTGCTGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
33 >s_e_s_e_s_c_s_d_s_e_s GTGCTGGTGCTGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
34 >s_e_s_e_s_d_s_d_s_e_s GTGCTGGTGCTGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
35 >s_e_s_e_s_e_s_d_s_e_s GTGCTGGTGCTGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
36 >s_a_s_c_s_c_s_d_s_e_s GTGTCTGTGTGGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
37 >s_a_s_c_s_d_s_d_s_e_s GTGTCTGTGTGGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
38 >s_a_s_c_s_e_s_d_s_e_s GTGTCTGTGTGGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
39 >s_a_s_d_s_a_s_d_s_e_s GTGTCTGTGACGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
40 >s_a_s_d_s_b_s_d_s_e_s GTGTCTGTGACGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
41 >s_a_s_d_s_c_s_d_s_e_s GTGTCTGTGACGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6

42 >s_a_s_d_s_d_s_d_s_e_s GTGTCTGTGACGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
43 >s_a_s_a_s_b_s_d_s_e_s GTGTCTGTGTCTGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
44 >s_a_s_e_s_a_s_d_s_e_s GTGTCTGTGCTGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
45 >s_a_s_e_s_b_s_d_s_e_s GTGTCTGTGCTGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
46 >s_a_s_e_s_c_s_d_s_e_s GTGTCTGTGCTGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
47 >s_a_s_e_s_d_s_d_s_e_s GTGTCTGTGCTGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
48 >s_a_s_e_s_e_s_d_s_e_s GTGTCTGTGCTGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
49 >s_b_s_a_s_a_s_d_s_e_s GTGGCTGTGTCTGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
50 >s_b_s_a_s_b_s_d_s_e_s GTGGCTGTGTCTGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
51 >s_b_s_a_s_c_s_d_s_e_s GTGGCTGTGTCTGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
52 >s_b_s_a_s_d_s_d_s_e_s GTGGCTGTGTCTGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
53 >s_a_s_a_s_c_s_d_s_e_s GTGTCTGTGTCTGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
54 >s_b_s_a_s_e_s_d_s_e_s GTGGCTGTGTCTGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
55 >s_b_s_b_s_a_s_d_s_e_s GTGGCTGTGGCTGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
56 >s_b_s_b_s_b_s_d_s_e_s GTGGCTGTGGCTGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
57 >s_b_s_b_s_c_s_d_s_e_s GTGGCTGTGGCTGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
58 >s_b_s_b_s_d_s_d_s_e_s GTGGCTGTGGCTGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
59 >s_b_s_b_s_e_s_d_s_e_s GTGGCTGTGGCTGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
60 >s_b_s_c_s_a_s_d_s_e_s GTGGCTGTGTGGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
61 >s_b_s_c_s_b_s_d_s_e_s GTGGCTGTGTGGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
62 >s_b_s_c_s_c_s_d_s_e_s GTGGCTGTGTGGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
63 >s_b_s_c_s_d_s_d_s_e_s GTGGCTGTGTGGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
64 >s_a_s_a_s_d_s_d_s_e_s GTGTCTGTGTCTGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
65 >s_b_s_c_s_e_s_d_s_e_s GTGGCTGTGTGGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
66 >s_b_s_d_s_a_s_d_s_e_s GTGGCTGTGACGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
67 >s_b_s_d_s_b_s_d_s_e_s GTGGCTGTGACGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
68 >s_b_s_d_s_c_s_d_s_e_s GTGGCTGTGACGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
69 >s_b_s_d_s_d_s_d_s_e_s GTGGCTGTGACGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
70 >s_b_s_e_s_a_s_d_s_e_s GTGGCTGTGCTGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
71 >s_b_s_e_s_b_s_d_s_e_s GTGGCTGTGCTGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
72 >s_b_s_e_s_c_s_d_s_e_s GTGGCTGTGCTGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
73 >s_b_s_e_s_d_s_d_s_e_s GTGGCTGTGCTGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
74 >s_a_s_a_s_e_s_d_s_e_s GTGTCTGTGTCTGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
75 >s_b_s_e_s_e_s_d_s_e_s GTGGCTGTGCTGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
76 >s_c_s_a_s_a_s_d_s_e_s GTGTGGGTGTCTGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
77 >s_c_s_a_s_b_s_d_s_e_s GTGTGGGTGTCTGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
78 >s_c_s_a_s_c_s_d_s_e_s GTGTGGGTGTCTGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6

79 >s_c_s_a_s_d_s_d_s_e_s GTGTGGGTGTCTGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
80 >s_c_s_a_s_e_s_d_s_e_s GTGTGGGTGTCTGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
81 >s_c_s_b_s_a_s_d_s_e_s GTGTGGGTGGCTGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
82 >s_c_s_b_s_b_s_d_s_e_s GTGTGGGTGGCTGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
83 >s_c_s_b_s_c_s_d_s_e_s GTGTGGGTGGCTGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
84 >s_c_s_b_s_d_s_d_s_e_s GTGTGGGTGGCTGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
85 >s_a_s_b_s_a_s_d_s_e_s GTGTCTGTGGCTGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
86 >s_c_s_b_s_e_s_d_s_e_s GTGTGGGTGGCTGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
87 >s_c_s_c_s_a_s_d_s_e_s GTGTGGGTGTGGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
88 >s_c_s_c_s_b_s_d_s_e_s GTGTGGGTGTGGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
89 >s_c_s_c_s_c_s_d_s_e_s GTGTGGGTGTGGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
90 >s_c_s_c_s_d_s_d_s_e_s GTGTGGGTGTGGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
91 >s_c_s_c_s_e_s_d_s_e_s GTGTGGGTGTGGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
92 >s_c_s_d_s_a_s_d_s_e_s GTGTGGGTGACGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
93 >s_c_s_d_s_b_s_d_s_e_s GTGTGGGTGACGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
94 >s_c_s_d_s_c_s_d_s_e_s GTGTGGGTGACGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
95 >s_c_s_d_s_d_s_d_s_e_s GTGTGGGTGACGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
96 >s_a_s_b_s_b_s_d_s_e_s GTGTCTGTGGCTGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
97 >s_c_s_e_s_a_s_d_s_e_s GTGTGGGTGCTGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
98 >s_c_s_e_s_b_s_d_s_e_s GTGTGGGTGCTGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
99 >s_c_s_e_s_c_s_d_s_e_s GTGTGGGTGCTGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
100 >s_c_s_e_s_d_s_d_s_e_s GTGTGGGTGCTGGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
101 >s_c_s_e_s_e_s_d_s_e_s GTGTGGGTGCTGGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
102 >s_d_s_a_s_a_s_d_s_e_s GTGACGGTGTCTGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
103 >s_d_s_a_s_b_s_d_s_e_s GTGACGGTGTCTGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
104 >s_d_s_a_s_c_s_d_s_e_s GTGACGGTGTCTGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
105 >s_d_s_a_s_d_s_d_s_e_s GTGACGGTGTCTGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
106 >s_a_s_b_s_c_s_d_s_e_s GTGTCTGTGGCTGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
107 >s_d_s_a_s_e_s_d_s_e_s GTGACGGTGTCTGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
108 >s_d_s_b_s_a_s_d_s_e_s GTGACGGTGGCTGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
109 >s_d_s_b_s_b_s_d_s_e_s GTGACGGTGGCTGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
110 >s_d_s_b_s_c_s_d_s_e_s GTGACGGTGGCTGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
111 >s_d_s_b_s_d_s_d_s_e_s GTGACGGTGGCTGTGACGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
112 >s_d_s_b_s_e_s_d_s_e_s GTGACGGTGGCTGTGCTGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
113 >s_d_s_c_s_a_s_d_s_e_s GTGACGGTGTGGGTGTCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
114 >s_d_s_c_s_b_s_d_s_e_s GTGACGGTGTGGGTGGCTGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
115 >s_d_s_c_s_c_s_d_s_e_s GTGACGGTGTGGGTGTGGGTGACGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6

```
   116 >s_d_s_c_s_d_s_d_s_e_s  GTGACGGTGTGGGTGACGGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
   117 >s_a_s_b_s_d_s_d_s_e_s  GTGTCTGTGGCTGTGACGGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
   118 >s_d_s_c_s_e_s_d_s_e_s  GTGACGGTGTGGGTGCTGGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
   119 >s_d_s_d_s_a_s_d_s_e_s  GTGACGGTGACGGTGTCTGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
   120 >s_d_s_d_s_b_s_d_s_e_s  GTGACGGTGACGGTGGCTGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
   121 >s_d_s_d_s_c_s_d_s_e_s  GTGACGGTGACGGTGTGGGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
   122 >s_d_s_d_s_d_s_d_s_e_s  GTGACGGTGACGGTGACGGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
   123 >s_d_s_e_s_a_s_d_s_e_s  GTGACGGTGCTGGTGTCTGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
   124 >s_d_s_e_s_b_s_d_s_e_s  GTGACGGTGCTGGTGGCTGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6
   125 >s_d_s_e_s_c_s_d_s_e_s  GTGACGGTGCTGGTGTGGGTGACGGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -18.6

*******************************************************************************************
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DE Mismatches

```
     1 >s_a_s_d_s_c_s_d_s_d_s  GTGTCTGTGACGGTGTGGGTGACGGTGACGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
     2 >s_a_s_d_s_c_s_d_s_c_s  GTGTCTGTGACGGTGTGGGTGACGGTGTGGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
     3 >s_a_s_d_s_c_s_d_s_b_s  GTGTCTGTGACGGTGTGGGTGACGGTGGCTGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
     4 >s_a_s_d_s_c_s_d_s_a_s  GTGTCTGTGACGGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
     5 >s_b_s_d_s_c_s_d_s_d_s  GTGGCTGTGACGGTGTGGGTGACGGTGACGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
     6 >s_b_s_d_s_c_s_d_s_c_s  GTGGCTGTGACGGTGTGGGTGACGGTGTGGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
     7 >s_b_s_d_s_c_s_d_s_b_s  GTGGCTGTGACGGTGTGGGTGACGGTGGCTGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
     8 >s_b_s_d_s_c_s_d_s_a_s  GTGGCTGTGACGGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
     9 >s_c_s_d_s_c_s_d_s_d_s  GTGTGGGTGACGGTGTGGGTGACGGTGACGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    10 >s_c_s_d_s_c_s_d_s_c_s  GTGTGGGTGACGGTGTGGGTGACGGTGTGGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    11 >s_c_s_d_s_c_s_d_s_b_s  GTGTGGGTGACGGTGTGGGTGACGGTGGCTGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    12 >s_c_s_d_s_c_s_d_s_a_s  GTGTGGGTGACGGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    13 >s_d_s_d_s_c_s_d_s_d_s  GTGACGGTGACGGTGTGGGTGACGGTGACGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    14 >s_d_s_d_s_c_s_d_s_c_s  GTGACGGTGACGGTGTGGGTGACGGTGTGGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    15 >s_d_s_d_s_c_s_d_s_b_s  GTGACGGTGACGGTGTGGGTGACGGTGGCTGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    16 >s_d_s_d_s_c_s_d_s_a_s  GTGACGGTGACGGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    17 >s_e_s_d_s_c_s_d_s_d_s  GTGCTGGTGACGGTGTGGGTGACGGTGACGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    18 >s_e_s_d_s_c_s_d_s_c_s  GTGCTGGTGACGGTGTGGGTGACGGTGTGGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    19 >s_e_s_d_s_c_s_d_s_b_s  GTGCTGGTGACGGTGTGGGTGACGGTGGCTGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    20 >s_e_s_d_s_c_s_d_s_a_s  GTGCTGGTGACGGTGTGGGTGACGGTGTCTGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.9
    21 >s_a_s_d_s_c_s_b_s_e_s  GTGTCTGTGACGGTGTGGGTGGCTGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
    22 >s_b_s_d_s_c_s_b_s_e_s  GTGGCTGTGACGGTGTGGGTGGCTGTGCTGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
    23 >s_d_s_a_s_e_s_d_s_d_s  GTGACGGTGTCTGTGCTGGTGACGGTGACGGTG;  >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
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24 >s_d_s_a_s_e_s_d_s_c_s GTGACGGTGTCTGTGCTGGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
25 >s_d_s_a_s_e_s_d_s_b_s GTGACGGTGTCTGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
26 >s_d_s_a_s_e_s_d_s_a_s GTGACGGTGTCTGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
27 >s_d_s_b_s_e_s_d_s_d_s GTGACGGTGGCTGTGCTGGTGACGGTGACGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
28 >s_d_s_b_s_e_s_d_s_c_s GTGACGGTGGCTGTGCTGGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
29 >s_d_s_b_s_e_s_d_s_b_s GTGACGGTGGCTGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
30 >s_d_s_b_s_e_s_d_s_a_s GTGACGGTGGCTGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
31 >s_d_s_c_s_e_s_d_s_d_s GTGACGGTGTGGGTGCTGGTGACGGTGACGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
32 >s_d_s_c_s_e_s_d_s_c_s GTGACGGTGTGGGTGCTGGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
33 >s_d_s_c_s_e_s_d_s_b_s GTGACGGTGTGGGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
34 >s_d_s_c_s_e_s_d_s_a_s GTGACGGTGTGGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.5
35 >s_a_s_d_s_c_s_c_s_e_s GTGTCTGTGACGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
36 >s_a_s_d_s_c_s_a_s_e_s GTGTCTGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
37 >s_b_s_d_s_c_s_c_s_e_s GTGGCTGTGACGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
38 >s_b_s_d_s_c_s_a_s_e_s GTGGCTGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
39 >s_c_s_d_s_c_s_b_s_e_s GTGTGGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
40 >s_d_s_c_s_d_s_d_s_d_s GTGACGGTGTGGGTGACGGTGACGGTGACGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
41 >s_d_s_c_s_d_s_d_s_c_s GTGACGGTGTGGGTGACGGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
42 >s_d_s_c_s_d_s_d_s_b_s GTGACGGTGTGGGTGACGGTGACGGTGGCTGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
43 >s_d_s_c_s_d_s_d_s_a_s GTGACGGTGTGGGTGACGGTGACGGTGTCTGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
44 >s_d_s_c_s_d_s_c_s_e_s GTGACGGTGTGGGTGACGGTGTGGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
45 >s_d_s_c_s_d_s_b_s_e_s GTGACGGTGTGGGTGACGGTGGCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
46 >s_d_s_c_s_d_s_a_s_e_s GTGACGGTGTGGGTGACGGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
47 >s_d_s_d_s_c_s_b_s_e_s GTGACGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
48 >s_e_s_d_s_c_s_b_s_e_s GTGCTGGTGACGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.4
49 >s_a_s_d_s_a_s_e_s_e_s GTGTCTGTGACGGTGTCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
50 >s_a_s_d_s_b_s_e_s_e_s GTGTCTGTGACGGTGGCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
51 >s_a_s_d_s_c_s_e_s_e_s GTGTCTGTGACGGTGTGGGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
52 >s_b_s_d_s_a_s_e_s_e_s GTGGCTGTGACGGTGTCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
53 >s_b_s_d_s_b_s_e_s_e_s GTGGCTGTGACGGTGGCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
54 >s_b_s_d_s_c_s_e_s_e_s GTGGCTGTGACGGTGTGGGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
55 >s_c_s_d_s_a_s_e_s_e_s GTGTGGGTGACGGTGTCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
56 >s_c_s_d_s_b_s_e_s_e_s GTGTGGGTGACGGTGGCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
57 >s_c_s_d_s_c_s_e_s_e_s GTGTGGGTGACGGTGTGGGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
58 >s_c_s_d_s_c_s_c_s_e_s GTGTGGGTGACGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
59 >s_c_s_d_s_c_s_a_s_e_s GTGTGGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
60 >s_d_s_d_s_a_s_e_s_e_s GTGACGGTGACGGTGTCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3

61 >s_d_s_d_s_b_s_e_s_e_s GTGACGGTGACGGTGGCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
62 >s_d_s_d_s_c_s_e_s_e_s GTGACGGTGACGGTGTGGGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
63 >s_d_s_d_s_c_s_c_s_e_s GTGACGGTGACGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
64 >s_d_s_d_s_c_s_a_s_e_s GTGACGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
65 >s_e_s_d_s_a_s_e_s_e_s GTGCTGGTGACGGTGTCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
66 >s_e_s_d_s_b_s_e_s_e_s GTGCTGGTGACGGTGGCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
67 >s_e_s_d_s_c_s_e_s_e_s GTGCTGGTGACGGTGTGGGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
68 >s_e_s_d_s_c_s_c_s_e_s GTGCTGGTGACGGTGTGGGTGTGGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.3
69 >s_e_s_d_s_c_s_a_s_e_s GTGCTGGTGACGGTGTGGGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
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70 >s_a_s_c_s_d_s_c_s_e_s GTGTCTGTGTGGGTGACGGTGTGGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.2
71 >s_a_s_c_s_e_s_d_s_d_s GTGTCTGTGTGGGTGCTGGTGACGGTGACGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.2
72 >s_a_s_c_s_e_s_d_s_c_s GTGTCTGTGTGGGTGCTGGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.2
73 >s_a_s_c_s_e_s_d_s_b_s GTGTCTGTGTGGGTGCTGGTGACGGTGGCTGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.2
74 >s_a_s_c_s_e_s_d_s_a_s GTGTCTGTGTGGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.2
75 >s_a_s_d_s_d_s_c_s_e_s GTGTCTGTGACGGTGACGGTGTGGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.2
76 >s_a_s_e_s_d_s_c_s_e_s GTGTCTGTGCTGGTGACGGTGTGGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.2
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CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.2
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94 >s_c_s_a_s_d_s_b_s_e_s GTGTGGGTGTCTGTGACGGTGGCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
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104 >s_c_s_d_s_d_s_c_s_e_s GTGTGGGTGACGGTGACGGTGTGGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
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107 >s_d_s_a_s_d_s_b_s_e_s GTGACGGTGTCTGTGACGGTGGCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev
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124 >s_e_s_c_s_e_s_d_s_c_s GTGCTGGTGTGGGTGCTGGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev
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126 >s_e_s_c_s_e_s_d_s_a_s GTGCTGGTGTGGGTGCTGGTGACGGTGTCTGTG; >clamp_s_d_s_e_s:compl:rev
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163 >s_a_s_a_s_d_s_d_s_c_s GTGTCTGTGTCTGTGACGGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev
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261 >s_e_s_d_s_d_s_d_s_c_s GTGCTGGTGACGGTGACGGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.1
262 >s_e_s_d_s_d_s_b_s_e_s GTGCTGGTGACGGTGACGGTGGCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.1
263 >s_e_s_d_s_d_s_a_s_e_s GTGCTGGTGACGGTGACGGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.1
264 >s_e_s_e_s_a_s_d_s_c_s GTGCTGGTGCTGGTGTCTGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.1
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266 >s_e_s_e_s_c_s_d_s_c_s GTGCTGGTGCTGGTGTGGGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.1
267 >s_a_s_c_s_b_s_d_s_c_s GTGTCTGTGTGGGTGGCTGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.1
268 >s_e_s_e_s_d_s_d_s_c_s GTGCTGGTGCTGGTGACGGTGACGGTGTGGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.1
269 >s_e_s_e_s_d_s_b_s_e_s GTGCTGGTGCTGGTGACGGTGGCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.1
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274 >s_a_s_e_s_d_s_d_s_d_s GTGTCTGTGCTGGTGACGGTGACGGTGACGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.0
275 >s_b_s_c_s_d_s_d_s_d_s GTGGCTGTGTGGGTGACGGTGACGGTGACGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.0
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277 >s_c_s_c_s_d_s_d_s_d_s GTGTGGGTGTGGGTGACGGTGACGGTGACGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.0
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279 >s_c_s_d_s_d_s_d_s_b_s GTGTGGGTGACGGTGACGGTGACGGTGGCTGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -13.0
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318 >s_d_s_c_s_c_s_d_s_b_s GTGACGGTGTGGGTGTGGGTGACGGTGGCTGTG; >clamp_s_d_s_e_s:compl:rev
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322 >s_d_s_c_s_c_s_b_s_e_s GTGACGGTGTGGGTGTGGGTGGCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -12.8
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653 >s_d_s_b_s_b_s_e_s_e_s GTGACGGTGGCTGTGGCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -11.6
654 >s_e_s_a_s_a_s_e_s_e_s GTGCTGGTGTCTGTGTCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -11.6
655 >s_e_s_a_s_b_s_e_s_e_s GTGCTGGTGTCTGTGGCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -11.6
656 >s_e_s_b_s_a_s_e_s_e_s GTGCTGGTGGCTGTGTCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -11.6
657 >s_e_s_b_s_b_s_e_s_e_s GTGCTGGTGGCTGTGGCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -11.6
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660 >s_e_s_c_s_a_s_e_s_e_s GTGCTGGTGTGGGTGTCTGTGCTGGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -11.6
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881 >s_a_s_b_s_a_s_a_s_e_s GTGTCTGTGGCTGTGTCTGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -9.9
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888 >s_e_s_b_s_a_s_a_s_e_s GTGCTGGTGGCTGTGTCTGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -9.9
889 >s_e_s_b_s_b_s_a_s_e_s GTGCTGGTGGCTGTGGCTGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -9.9
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891 >s_e_s_c_s_a_s_a_s_e_s GTGCTGGTGTGGGTGTCTGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -9.9
892 >s_a_s_a_s_a_s_a_s_e_s GTGTCTGTGTCTGTGTCTGTGTCTGTGCTGGTG; >clamp_s_d_s_e_s:compl:rev CACCAGCACCGTCACTATCATGTTGACATTCC; dG = -9.9
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ECA Matches

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2 >s_e_s_a_s_a_s_e_s_c_s_a_s GTGCTGGTGTCTGTGTCTGTGCTGGTGTGGGTGTCTGTG; >clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -25.7
3 >s_e_s_a_s_b_s_e_s_c_s_a_s GTGCTGGTGTCTGTGGCTGTGCTGGTGTGGGTGTCTGTG; >clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -25.7
4 >s_e_s_b_s_a_s_e_s_c_s_a_s GTGCTGGTGGCTGTGTCTGTGCTGGTGTGGGTGTCTGTG; >clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -25.7
5 >s_e_s_b_s_b_s_e_s_c_s_a_s GTGCTGGTGGCTGTGGCTGTGCTGGTGTGGGTGTCTGTG; >clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -25.7
6 >s_a_s_c_s_a_s_e_s_c_s_a_s GTGTCTGTGTGGGTGTCTGTGCTGGTGTGGGTGTCTGTG; >clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -25.7
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9 >s_e_s_d_s_a_s_e_s_c_s_a_s GTGCTGGTGACGGTGTCTGTGCTGGTGTGGGTGTCTGTG; >clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -25.7
10 >s_e_s_d_s_b_s_e_s_c_s_a_s GTGCTGGTGACGGTGGCTGTGCTGGTGTGGGTGTCTGTG; >clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -25.7
11 >s_a_s_c_s_b_s_e_s_c_s_a_s GTGTCTGTGTGGGTGGCTGTGCTGGTGTGGGTGTCTGTG; >clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -25.7

12 >s_e_s_e_s_a_s_e_s_c_s_a_s GTGCTGGTGCTGGTGTCTGTGCTGGTGTGGGTGTCTGTG;
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120 >s_d_s_c_s_e_s_e_s_c_s_a_s GTGACGGTGTGGGTGCTGGTGCTGGTGTGGGTGTCTGTG;
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122 >s_d_s_d_s_d_s_e_s_c_s_a_s GTGACGGTGACGGTGACGGTGCTGGTGTGGGTGTCTGTG;
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   124 >s_d_s_e_s_c_s_e_s_c_s_a_s                    GTGACGGTGCTGGTGTGGGTGCTGGTGTGGGTGTCTGTG;
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ECA Mismatches

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1016 >s_a_s_c_s_e_s_e_s_e_s_a_s GTGTCTGTGTGGGTGCTGGTGCTGGTGCTGGTGTCTGTG;
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1102 >s_c_s_e_s_e_s_e_s_e_s_a_s GTGTGGGTGCTGGTGCTGGTGCTGGTGCTGGTGTCTGTG;
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1103 >s_a_s_a_s_a_s_d_s_c_s_a_s GTGTCTGTGTCTGTGTCTGTGACGGTGTGGGTGTCTGTG;
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1135 >s_d_s_e_s_a_s_a_s_c_s_a_s GTGACGGTGCTGGTGTCTGTGTCTGTGTGGGTGTCTGTG;
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1170 >s_b_s_a_s_a_s_e_s_a_s_a_s GTGGCTGTGTCTGTGTCTGTGCTGGTGTCTGTGTCTGTG;
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1179 >s_b_s_e_s_a_s_e_s_a_s_a_s GTGGCTGTGCTGGTGTCTGTGCTGGTGTCTGTGTCTGTG;
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1180 >s_b_s_e_s_b_s_e_s_a_s_a_s GTGGCTGTGCTGGTGGCTGTGCTGGTGTCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -18.5
1181 >s_c_s_a_s_a_s_e_s_a_s_a_s GTGTGGGTGTCTGTGTCTGTGCTGGTGTCTGTGTCTGTG;
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1182 >s_c_s_a_s_b_s_e_s_a_s_a_s GTGTGGGTGTCTGTGGCTGTGCTGGTGTCTGTGTCTGTG;
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1183 >s_c_s_b_s_a_s_e_s_a_s_a_s GTGTGGGTGGCTGTGTCTGTGCTGGTGTCTGTGTCTGTG;
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1184 >s_c_s_b_s_b_s_e_s_a_s_a_s GTGTGGGTGGCTGTGGCTGTGCTGGTGTCTGTGTCTGTG;
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1185 >s_a_s_b_s_a_s_e_s_a_s_a_s GTGTCTGTGGCTGTGTCTGTGCTGGTGTCTGTGTCTGTG;
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1186 >s_c_s_c_s_b_s_e_s_a_s_a_s GTGTGGGTGTGGGTGGCTGTGCTGGTGTCTGTGTCTGTG;
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1187 >s_c_s_d_s_a_s_e_s_a_s_a_s GTGTGGGTGACGGTGTCTGTGCTGGTGTCTGTGTCTGTG;
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1188 >s_c_s_d_s_b_s_e_s_a_s_a_s GTGTGGGTGACGGTGGCTGTGCTGGTGTCTGTGTCTGTG;
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1191 >s_c_s_e_s_a_s_e_s_a_s_a_s GTGTGGGTGCTGGTGTCTGTGCTGGTGTCTGTGTCTGTG;
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1203 >s_d_s_d_s_d_s_e_s_a_s_a_s GTGACGGTGACGGTGACGGTGCTGGTGTCTGTGTCTGTG;
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1204 >s_d_s_e_s_d_s_e_s_a_s_a_s GTGACGGTGCTGGTGACGGTGCTGGTGTCTGTGTCTGTG;
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1205 >s_e_s_a_s_c_s_e_s_a_s_a_s GTGCTGGTGTCTGTGTGGGTGCTGGTGTCTGTGTCTGTG;
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1212 >s_a_s_c_s_c_s_e_s_a_s_a_s GTGTCTGTGTGGGTGTGGGTGCTGGTGTCTGTGTCTGTG;
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1213 >s_a_s_c_s_d_s_e_s_a_s_a_s GTGTCTGTGTGGGTGACGGTGCTGGTGTCTGTGTCTGTG;
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1214 >s_a_s_d_s_c_s_e_s_a_s_a_s GTGTCTGTGACGGTGTGGGTGCTGGTGTCTGTGTCTGTG;
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1216 >s_a_s_e_s_d_s_e_s_a_s_a_s GTGTCTGTGCTGGTGACGGTGCTGGTGTCTGTGTCTGTG;
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1218 >s_b_s_a_s_c_s_e_s_a_s_a_s GTGGCTGTGTCTGTGTGGGTGCTGGTGTCTGTGTCTGTG;
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1228 >s_c_s_a_s_c_s_e_s_a_s_a_s GTGTGGGTGTCTGTGTGGGTGCTGGTGTCTGTGTCTGTG;
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1229 >s_c_s_a_s_d_s_e_s_a_s_a_s GTGTGGGTGTCTGTGACGGTGCTGGTGTCTGTGTCTGTG;
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1230 >s_c_s_b_s_c_s_e_s_a_s_a_s GTGTGGGTGGCTGTGTGGGTGCTGGTGTCTGTGTCTGTG;
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1231 >s_c_s_b_s_d_s_e_s_a_s_a_s GTGTGGGTGGCTGTGACGGTGCTGGTGTCTGTGTCTGTG;
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1232 >s_c_s_c_s_c_s_e_s_a_s_a_s GTGTGGGTGTGGGTGTGGGTGCTGGTGTCTGTGTCTGTG;
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1233 >s_c_s_c_s_c_s_b_s_c_s_a_s GTGTGGGTGTGGGTGTGGGTGGCTGTGTGGGTGTCTGTG;
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1234 >s_c_s_c_s_d_s_e_s_a_s_a_s GTGTGGGTGTGGGTGACGGTGCTGGTGTCTGTGTCTGTG;
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1235 >s_c_s_d_s_c_s_e_s_a_s_a_s GTGTGGGTGACGGTGTGGGTGCTGGTGTCTGTGTCTGTG;
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1236 >s_c_s_d_s_d_s_e_s_a_s_a_s GTGTGGGTGACGGTGACGGTGCTGGTGTCTGTGTCTGTG;
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1237 >s_c_s_e_s_d_s_e_s_a_s_a_s GTGTGGGTGCTGGTGACGGTGCTGGTGTCTGTGTCTGTG;
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1238 >s_a_s_b_s_c_s_e_s_a_s_a_s GTGTCTGTGGCTGTGTGGGTGCTGGTGTCTGTGTCTGTG;
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1253 >s_e_s_b_s_c_s_b_s_c_s_a_s GTGCTGGTGGCTGTGTGGGTGGCTGTGTGGGTGTCTGTG;
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1263 >s_e_s_a_s_a_s_e_s_b_s_a_s GTGCTGGTGTCTGTGTCTGTGCTGGTGGCTGTGTCTGTG;
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1264 >s_c_s_c_s_b_s_b_s_c_s_a_s GTGTGGGTGTGGGTGGCTGTGGCTGTGTGGGTGTCTGTG;
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1265 >s_c_s_c_s_b_s_a_s_c_s_a_s GTGTGGGTGTGGGTGGCTGTGTCTGTGTGGGTGTCTGTG;
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1266 >s_d_s_c_s_b_s_b_s_c_s_a_s GTGACGGTGTGGGTGGCTGTGGCTGTGTGGGTGTCTGTG;
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1267 >s_d_s_c_s_b_s_a_s_c_s_a_s GTGACGGTGTGGGTGGCTGTGTCTGTGTGGGTGTCTGTG;
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1268 >s_d_s_d_s_b_s_b_s_c_s_a_s GTGACGGTGACGGTGGCTGTGGCTGTGTGGGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -17.9
1269 >s_d_s_d_s_b_s_a_s_c_s_a_s GTGACGGTGACGGTGGCTGTGTCTGTGTGGGTGTCTGTG;
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1270 >s_a_s_c_s_b_s_b_s_c_s_a_s GTGTCTGTGTGGGTGGCTGTGGCTGTGTGGGTGTCTGTG;
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1271 >s_a_s_c_s_b_s_a_s_c_s_a_s GTGTCTGTGTGGGTGGCTGTGTCTGTGTGGGTGTCTGTG;
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1274 >s_a_s_a_s_b_s_b_s_c_s_a_s GTGTCTGTGTCTGTGGCTGTGGCTGTGTGGGTGTCTGTG;
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1283 >s_b_s_d_s_b_s_b_s_c_s_a_s GTGGCTGTGACGGTGGCTGTGGCTGTGTGGGTGTCTGTG;
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1288 >s_c_s_b_s_b_s_a_s_c_s_a_s GTGTGGGTGGCTGTGGCTGTGTCTGTGTGGGTGTCTGTG;
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1312 >s_d_s_a_s_e_s_e_s_b_s_a_s GTGACGGTGTCTGTGCTGGTGCTGGTGGCTGTGTCTGTG;
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1334 >s_b_s_a_s_c_s_b_s_c_s_a_s GTGGCTGTGTCTGTGTGGGTGGCTGTGTGGGTGTCTGTG;
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1345 >s_b_s_d_s_d_s_b_s_c_s_a_s GTGGCTGTGACGGTGACGGTGGCTGTGTGGGTGTCTGTG;
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1348 >s_c_s_a_s_a_s_b_s_c_s_a_s GTGTGGGTGTCTGTGTCTGTGGCTGTGTGGGTGTCTGTG;
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1349 >s_c_s_a_s_c_s_b_s_c_s_a_s GTGTGGGTGTCTGTGTGGGTGGCTGTGTGGGTGTCTGTG;
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1351 >s_c_s_b_s_a_s_b_s_c_s_a_s GTGTGGGTGGCTGTGTCTGTGGCTGTGTGGGTGTCTGTG;
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1361 >s_c_s_e_s_e_s_e_s_b_s_a_s GTGTGGGTGCTGGTGCTGGTGCTGGTGGCTGTGTCTGTG;
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1362 >s_d_s_a_s_a_s_b_s_c_s_a_s GTGACGGTGTCTGTGTCTGTGGCTGTGTGGGTGTCTGTG;
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1368 >s_a_s_a_s_c_s_a_s_c_s_a_s GTGTCTGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1369 >s_c_s_a_s_c_s_a_s_c_s_a_s GTGTGGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1370 >s_d_s_a_s_c_s_a_s_c_s_a_s GTGACGGTGTCTGTGTGGGTGTCTGTGTGGGTGTCTGTG;
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1371 >s_d_s_d_s_a_s_a_s_c_s_a_s GTGACGGTGACGGTGTCTGTGTCTGTGTGGGTGTCTGTG;
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1395 >s_c_s_a_s_d_s_e_s_b_s_a_s GTGTGGGTGTCTGTGACGGTGCTGGTGGCTGTGTCTGTG;
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1398 >s_c_s_c_s_d_s_a_s_c_s_a_s GTGTGGGTGTGGGTGACGGTGTCTGTGTGGGTGTCTGTG;
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1427 >s_e_s_d_s_c_s_e_s_b_s_a_s GTGCTGGTGACGGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1428 >s_e_s_d_s_d_s_e_s_b_s_a_s GTGCTGGTGACGGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1429 >s_e_s_e_s_d_s_e_s_b_s_a_s GTGCTGGTGCTGGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1430 >s_a_s_c_s_c_s_e_s_b_s_a_s GTGTCTGTGTGGGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1431 >s_a_s_c_s_d_s_e_s_b_s_a_s GTGTCTGTGTGGGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1432 >s_a_s_d_s_a_s_e_s_b_s_a_s GTGTCTGTGACGGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1433 >s_a_s_a_s_b_s_e_s_b_s_a_s GTGTCTGTGTCTGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1434 >s_a_s_d_s_b_s_e_s_b_s_a_s GTGTCTGTGACGGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1435 >s_a_s_d_s_c_s_e_s_b_s_a_s GTGTCTGTGACGGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1436 >s_a_s_d_s_d_s_e_s_b_s_a_s GTGTCTGTGACGGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5

1437 >s_a_s_e_s_a_s_e_s_b_s_a_s GTGTCTGTGCTGGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1438 >s_a_s_e_s_b_s_e_s_b_s_a_s GTGTCTGTGCTGGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1439 >s_a_s_e_s_d_s_e_s_b_s_a_s GTGTCTGTGCTGGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1440 >s_b_s_a_s_a_s_e_s_b_s_a_s GTGGCTGTGTCTGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1441 >s_a_s_a_s_c_s_e_s_b_s_a_s GTGTCTGTGTCTGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1442 >s_b_s_a_s_b_s_e_s_b_s_a_s GTGGCTGTGTCTGTGGCTGTGCTGGTGGCTGTGTCTGTG;
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1443 >s_b_s_a_s_c_s_e_s_b_s_a_s GTGGCTGTGTCTGTGTGGGTGCTGGTGGCTGTGTCTGTG;
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1444 >s_b_s_a_s_d_s_e_s_b_s_a_s GTGGCTGTGTCTGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1445 >s_b_s_b_s_a_s_e_s_b_s_a_s GTGGCTGTGGCTGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1446 >s_b_s_b_s_b_s_e_s_b_s_a_s GTGGCTGTGGCTGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1447 >s_b_s_b_s_c_s_e_s_b_s_a_s GTGGCTGTGGCTGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1448 >s_b_s_b_s_d_s_e_s_b_s_a_s GTGGCTGTGGCTGTGACGGTGCTGGTGGCTGTGTCTGTG;
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1449 >s_a_s_a_s_d_s_e_s_b_s_a_s GTGTCTGTGTCTGTGACGGTGCTGGTGGCTGTGTCTGTG;
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1450 >s_b_s_c_s_b_s_e_s_b_s_a_s GTGGCTGTGTGGGTGGCTGTGCTGGTGGCTGTGTCTGTG;
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1451 >s_b_s_c_s_c_s_e_s_b_s_a_s GTGGCTGTGTGGGTGTGGGTGCTGGTGGCTGTGTCTGTG;
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1452 >s_b_s_c_s_d_s_e_s_b_s_a_s GTGGCTGTGTGGGTGACGGTGCTGGTGGCTGTGTCTGTG;
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1453 >s_b_s_d_s_a_s_e_s_b_s_a_s GTGGCTGTGACGGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1454 >s_b_s_d_s_b_s_e_s_b_s_a_s GTGGCTGTGACGGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1455 >s_b_s_d_s_c_s_e_s_b_s_a_s GTGGCTGTGACGGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1456 >s_b_s_d_s_d_s_e_s_b_s_a_s GTGGCTGTGACGGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1457 >s_b_s_e_s_a_s_e_s_b_s_a_s GTGGCTGTGCTGGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1458 >s_b_s_e_s_b_s_e_s_b_s_a_s GTGGCTGTGCTGGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1459 >s_b_s_e_s_d_s_e_s_b_s_a_s GTGGCTGTGCTGGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1460 >s_c_s_b_s_a_s_e_s_b_s_a_s GTGTGGGTGGCTGTGTCTGTGCTGGTGGCTGTGTCTGTG;
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1461 >s_a_s_b_s_a_s_e_s_b_s_a_s GTGTCTGTGGCTGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1462 >s_c_s_b_s_b_s_e_s_b_s_a_s GTGTGGGTGGCTGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1463 >s_c_s_b_s_c_s_e_s_b_s_a_s GTGTGGGTGGCTGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1464 >s_a_s_a_s_a_s_e_s_b_s_a_s GTGTCTGTGTCTGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1465 >s_c_s_b_s_d_s_e_s_b_s_a_s GTGTGGGTGGCTGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1466 >s_c_s_c_s_c_s_e_s_b_s_a_s GTGTGGGTGTGGGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1467 >s_c_s_c_s_d_s_e_s_b_s_a_s GTGTGGGTGTGGGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1468 >s_c_s_d_s_a_s_e_s_b_s_a_s GTGTGGGTGACGGTGTCTGTGCTGGTGGCTGTGTCTGTG;
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1469 >s_a_s_b_s_b_s_e_s_b_s_a_s GTGTCTGTGGCTGTGGCTGTGCTGGTGGCTGTGTCTGTG;
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1470 >s_c_s_d_s_b_s_e_s_b_s_a_s GTGTGGGTGACGGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1471 >s_c_s_d_s_c_s_e_s_b_s_a_s GTGTGGGTGACGGTGTGGGTGCTGGTGGCTGTGTCTGTG;
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1472 >s_c_s_d_s_d_s_e_s_b_s_a_s GTGTGGGTGACGGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
1473 >s_c_s_e_s_a_s_e_s_b_s_a_s GTGTGGGTGCTGGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5

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  1474 >s_c_s_e_s_b_s_e_s_b_s_a_s                    GTGTGGGTGCTGGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
  1475 >s_c_s_e_s_d_s_e_s_b_s_a_s                    GTGTGGGTGCTGGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
  1476 >s_d_s_a_s_a_s_e_s_b_s_a_s                    GTGACGGTGTCTGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
  1477 >s_a_s_b_s_c_s_e_s_b_s_a_s                    GTGTCTGTGGCTGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
  1478 >s_d_s_a_s_b_s_e_s_b_s_a_s                    GTGACGGTGTCTGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
  1479 >s_d_s_a_s_c_s_e_s_b_s_a_s                    GTGACGGTGTCTGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
  1480 >s_d_s_a_s_d_s_e_s_b_s_a_s                    GTGACGGTGTCTGTGACGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
  1481 >s_d_s_b_s_a_s_e_s_b_s_a_s                    GTGACGGTGGCTGTGTCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
  1482 >s_d_s_b_s_b_s_e_s_b_s_a_s                    GTGACGGTGGCTGTGGCTGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5
  1483 >s_d_s_b_s_c_s_e_s_b_s_a_s                    GTGACGGTGGCTGTGTGGGTGCTGGTGGCTGTGTCTGTG;
>clamp_s_e_s_c_s_a_s:compl:rev CACAGACACCCACACCAGCACTATCATGTTGACATTCC; dG = -16.5

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EDB Matches

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     1 >s_a_s_a_s_a_s_e_s_d_s_b_s                    GTGTCTGTGTCTGTGTCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
     2 >s_a_s_b_s_e_s_e_s_d_s_b_s                    GTGTCTGTGGCTGTGCTGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
     3 >s_d_s_e_s_e_s_e_s_d_s_b_s                    GTGACGGTGCTGGTGCTGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
     4 >s_e_s_a_s_a_s_e_s_d_s_b_s                    GTGCTGGTGTCTGTGTCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
     5 >s_e_s_a_s_b_s_e_s_d_s_b_s                    GTGCTGGTGTCTGTGGCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
     6 >s_e_s_a_s_c_s_e_s_d_s_b_s                    GTGCTGGTGTCTGTGTGGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
     7 >s_e_s_a_s_d_s_e_s_d_s_b_s                    GTGCTGGTGTCTGTGACGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
     8 >s_e_s_a_s_e_s_e_s_d_s_b_s                    GTGCTGGTGTCTGTGCTGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
     9 >s_e_s_b_s_a_s_e_s_d_s_b_s                    GTGCTGGTGGCTGTGTCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    10 >s_e_s_b_s_b_s_e_s_d_s_b_s                    GTGCTGGTGGCTGTGGCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    11 >s_e_s_b_s_c_s_e_s_d_s_b_s                    GTGCTGGTGGCTGTGTGGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    12 >s_e_s_b_s_d_s_e_s_d_s_b_s                    GTGCTGGTGGCTGTGACGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    13 >s_a_s_c_s_a_s_e_s_d_s_b_s                    GTGTCTGTGTGGGTGTCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    14 >s_e_s_b_s_e_s_e_s_d_s_b_s                    GTGCTGGTGGCTGTGCTGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    15 >s_e_s_c_s_a_s_e_s_d_s_b_s                    GTGCTGGTGTGGGTGTCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    16 >s_e_s_c_s_b_s_e_s_d_s_b_s                    GTGCTGGTGTGGGTGGCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    17 >s_e_s_c_s_c_s_e_s_d_s_b_s                    GTGCTGGTGTGGGTGTGGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    18 >s_e_s_c_s_d_s_e_s_d_s_b_s                    GTGCTGGTGTGGGTGACGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    19 >s_e_s_c_s_e_s_e_s_d_s_b_s                    GTGCTGGTGTGGGTGCTGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    20 >s_e_s_d_s_a_s_e_s_d_s_b_s                    GTGCTGGTGACGGTGTCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    21 >s_e_s_d_s_b_s_e_s_d_s_b_s                    GTGCTGGTGACGGTGGCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    22 >s_e_s_d_s_c_s_e_s_d_s_b_s                    GTGCTGGTGACGGTGTGGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
    23 >s_e_s_d_s_d_s_e_s_d_s_b_s                    GTGCTGGTGACGGTGACGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
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24 >s_a_s_c_s_b_s_e_s_d_s_b_s GTGTCTGTGTGGGTGGCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
25 >s_e_s_d_s_e_s_e_s_d_s_b_s GTGCTGGTGACGGTGCTGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
26 >s_e_s_e_s_a_s_e_s_d_s_b_s GTGCTGGTGCTGGTGTCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
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   112 >s_d_s_c_s_b_s_e_s_d_s_b_s                    GTGACGGTGTGGGTGGCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   113 >s_d_s_c_s_c_s_e_s_d_s_b_s                    GTGACGGTGTGGGTGTGGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   114 >s_d_s_c_s_d_s_e_s_d_s_b_s                    GTGACGGTGTGGGTGACGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   115 >s_a_s_b_s_d_s_e_s_d_s_b_s                    GTGTCTGTGGCTGTGACGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   116 >s_d_s_c_s_e_s_e_s_d_s_b_s                    GTGACGGTGTGGGTGCTGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   117 >s_d_s_d_s_a_s_e_s_d_s_b_s                    GTGACGGTGACGGTGTCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   118 >s_d_s_d_s_b_s_e_s_d_s_b_s                    GTGACGGTGACGGTGGCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   119 >s_d_s_d_s_c_s_e_s_d_s_b_s                    GTGACGGTGACGGTGTGGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   120 >s_d_s_d_s_d_s_e_s_d_s_b_s                    GTGACGGTGACGGTGACGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   121 >s_d_s_d_s_e_s_e_s_d_s_b_s                    GTGACGGTGACGGTGCTGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   122 >s_d_s_e_s_a_s_e_s_d_s_b_s                    GTGACGGTGCTGGTGTCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   123 >s_d_s_e_s_b_s_e_s_d_s_b_s                    GTGACGGTGCTGGTGGCTGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   124 >s_d_s_e_s_c_s_e_s_d_s_b_s                    GTGACGGTGCTGGTGTGGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2
   125 >s_d_s_e_s_d_s_e_s_d_s_b_s                    GTGACGGTGCTGGTGACGGTGCTGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -27.2

*******************************************************************************************
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EDB Mismatches

```
     1 >s_d_s_c_s_d_s_b_s_d_s_b_s                    GTGACGGTGTGGGTGACGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.5
     2 >s_e_s_c_s_d_s_b_s_d_s_b_s                    GTGCTGGTGTGGGTGACGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.5
     3 >s_a_s_c_s_d_s_b_s_d_s_b_s                    GTGTCTGTGTGGGTGACGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.5
     4 >s_b_s_c_s_d_s_b_s_d_s_b_s                    GTGGCTGTGTGGGTGACGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.5
     5 >s_c_s_c_s_d_s_b_s_d_s_b_s                    GTGTGGGTGTGGGTGACGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.5
```

```
     6 >s_a_s_e_s_d_s_a_s_d_s_b_s                    GTGTCTGTGCTGGTGACGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.4
     7 >s_b_s_e_s_d_s_a_s_d_s_b_s                    GTGGCTGTGCTGGTGACGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.4
     8 >s_d_s_e_s_d_s_a_s_d_s_b_s                    GTGACGGTGCTGGTGACGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.3
     9 >s_e_s_e_s_d_s_a_s_d_s_b_s                    GTGCTGGTGCTGGTGACGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.3
    10 >s_c_s_e_s_d_s_a_s_d_s_b_s                    GTGTGGGTGCTGGTGACGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.3
    11 >s_e_s_a_s_d_s_b_s_d_s_b_s                    GTGCTGGTGTCTGTGACGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.2
    12 >s_e_s_b_s_d_s_b_s_d_s_b_s                    GTGCTGGTGGCTGTGACGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.2
    13 >s_e_s_d_s_d_s_b_s_d_s_b_s                    GTGCTGGTGACGGTGACGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.2
    14 >s_d_s_e_s_d_s_e_s_b_s_b_s                    GTGACGGTGCTGGTGACGGTGCTGGTGGCTGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.1
    15 >s_e_s_d_s_a_s_b_s_d_s_b_s                    GTGCTGGTGACGGTGTCTGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.1
    16 >s_e_s_d_s_c_s_b_s_d_s_b_s                    GTGCTGGTGACGGTGTGGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.1
    17 >s_e_s_d_s_e_s_b_s_d_s_b_s                    GTGCTGGTGACGGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.1
    18 >s_e_s_e_s_d_s_e_s_b_s_b_s                    GTGCTGGTGCTGGTGACGGTGCTGGTGGCTGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.1
    19 >s_a_s_e_s_d_s_e_s_b_s_b_s                    GTGTCTGTGCTGGTGACGGTGCTGGTGGCTGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.1
    20 >s_b_s_e_s_d_s_e_s_b_s_b_s                    GTGGCTGTGCTGGTGACGGTGCTGGTGGCTGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.1
    21 >s_c_s_e_s_d_s_e_s_b_s_b_s                    GTGTGGGTGCTGGTGACGGTGCTGGTGGCTGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.1
    22 >s_c_s_d_s_b_s_d_s_d_s_b_s                    GTGTGGGTGACGGTGGCTGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -22.0
    23 >s_d_s_b_s_e_s_d_s_d_s_b_s                    GTGACGGTGGCTGTGCTGGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    24 >s_d_s_b_s_e_s_c_s_d_s_b_s                    GTGACGGTGGCTGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    25 >s_d_s_b_s_e_s_b_s_d_s_b_s                    GTGACGGTGGCTGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    26 >s_d_s_b_s_e_s_a_s_d_s_b_s                    GTGACGGTGGCTGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    27 >s_d_s_c_s_e_s_d_s_d_s_b_s                    GTGACGGTGTGGGTGCTGGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    28 >s_d_s_c_s_e_s_c_s_d_s_b_s                    GTGACGGTGTGGGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    29 >s_d_s_c_s_e_s_b_s_d_s_b_s                    GTGACGGTGTGGGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    30 >s_d_s_c_s_e_s_a_s_d_s_b_s                    GTGACGGTGTGGGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    31 >s_d_s_d_s_e_s_d_s_d_s_b_s                    GTGACGGTGACGGTGCTGGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    32 >s_d_s_d_s_e_s_c_s_d_s_b_s                    GTGACGGTGACGGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    33 >s_d_s_d_s_e_s_b_s_d_s_b_s                    GTGACGGTGACGGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    34 >s_d_s_d_s_e_s_a_s_d_s_b_s                    GTGACGGTGACGGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    35 >s_a_s_b_s_e_s_d_s_d_s_b_s                    GTGTCTGTGGCTGTGCTGGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    36 >s_a_s_b_s_e_s_c_s_d_s_b_s                    GTGTCTGTGGCTGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    37 >s_a_s_b_s_e_s_b_s_d_s_b_s                    GTGTCTGTGGCTGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    38 >s_d_s_e_s_e_s_d_s_d_s_b_s                    GTGACGGTGCTGGTGCTGGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    39 >s_d_s_e_s_e_s_c_s_d_s_b_s                    GTGACGGTGCTGGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    40 >s_d_s_e_s_e_s_b_s_d_s_b_s                    GTGACGGTGCTGGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    41 >s_d_s_e_s_e_s_a_s_d_s_b_s                    GTGACGGTGCTGGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
    42 >s_a_s_b_s_e_s_a_s_d_s_b_s                    GTGTCTGTGGCTGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
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43 >s_e_s_a_s_e_s_d_s_d_s_b_s GTGCTGGTGTCTGTGCTGGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
44 >s_e_s_a_s_e_s_c_s_d_s_b_s GTGCTGGTGTCTGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
45 >s_e_s_a_s_e_s_b_s_d_s_b_s GTGCTGGTGTCTGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
46 >s_e_s_a_s_e_s_a_s_d_s_b_s GTGCTGGTGTCTGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
47 >s_e_s_b_s_e_s_d_s_d_s_b_s GTGCTGGTGGCTGTGCTGGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
48 >s_e_s_b_s_e_s_c_s_d_s_b_s GTGCTGGTGGCTGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
49 >s_e_s_b_s_e_s_b_s_d_s_b_s GTGCTGGTGGCTGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
50 >s_e_s_b_s_e_s_a_s_d_s_b_s GTGCTGGTGGCTGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
51 >s_e_s_c_s_e_s_d_s_d_s_b_s GTGCTGGTGTGGGTGCTGGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
52 >s_e_s_c_s_e_s_c_s_d_s_b_s GTGCTGGTGTGGGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
53 >s_e_s_c_s_e_s_b_s_d_s_b_s GTGCTGGTGTGGGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
54 >s_e_s_c_s_e_s_a_s_d_s_b_s GTGCTGGTGTGGGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
55 >s_e_s_d_s_e_s_d_s_d_s_b_s GTGCTGGTGACGGTGCTGGTGACGGTGACGGTGGCTGTG;
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56 >s_e_s_d_s_e_s_c_s_d_s_b_s GTGCTGGTGACGGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
57 >s_e_s_d_s_e_s_a_s_d_s_b_s GTGCTGGTGACGGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
58 >s_e_s_e_s_e_s_d_s_d_s_b_s GTGCTGGTGCTGGTGCTGGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
59 >s_e_s_e_s_e_s_c_s_d_s_b_s GTGCTGGTGCTGGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
60 >s_e_s_e_s_e_s_b_s_d_s_b_s GTGCTGGTGCTGGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
61 >s_e_s_e_s_e_s_a_s_d_s_b_s GTGCTGGTGCTGGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
62 >s_a_s_c_s_e_s_d_s_d_s_b_s GTGTCTGTGTGGGTGCTGGTGACGGTGACGGTGGCTGTG;
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63 >s_a_s_c_s_e_s_c_s_d_s_b_s GTGTCTGTGTGGGTGCTGGTGTGGGTGACGGTGGCTGTG;
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64 >s_a_s_c_s_e_s_b_s_d_s_b_s GTGTCTGTGTGGGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
65 >s_a_s_c_s_e_s_a_s_d_s_b_s GTGTCTGTGTGGGTGCTGGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
66 >s_a_s_d_s_e_s_d_s_d_s_b_s GTGTCTGTGACGGTGCTGGTGACGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
67 >s_a_s_d_s_e_s_c_s_d_s_b_s GTGTCTGTGACGGTGCTGGTGTGGGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
68 >s_a_s_d_s_e_s_b_s_d_s_b_s GTGTCTGTGACGGTGCTGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -21.9
69 >s_a_s_d_s_e_s_a_s_d_s_b_s GTGTCTGTGACGGTGCTGGTGTCTGTGACGGTGGCTGTG;
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323 >s_c_s_a_s_e_s_e_s_d_s_a_s GTGTGGGTGTCTGTGCTGGTGCTGGTGACGGTGTCTGTG;
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1077 >s_d_s_a_s_c_s_e_s_b_s_b_s GTGACGGTGTCTGTGTGGGTGCTGGTGGCTGTGGCTGTG;
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1079 >s_d_s_b_s_a_s_e_s_d_s_d_s GTGACGGTGGCTGTGTCTGTGCTGGTGACGGTGACGGTG;
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1082 >s_d_s_b_s_e_s_e_s_d_s_d_s GTGACGGTGGCTGTGCTGGTGCTGGTGACGGTGACGGTG;
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1083 >s_d_s_c_s_c_s_e_s_d_s_d_s GTGACGGTGTGGGTGTGGGTGCTGGTGACGGTGACGGTG;
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1114 >s_b_s_a_s_c_s_e_s_d_s_d_s GTGGCTGTGTCTGTGTGGGTGCTGGTGACGGTGACGGTG;
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1115 >s_b_s_a_s_d_s_e_s_d_s_d_s GTGGCTGTGTCTGTGACGGTGCTGGTGACGGTGACGGTG;
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1124 >s_a_s_a_s_e_s_e_s_d_s_d_s GTGTCTGTGTCTGTGCTGGTGCTGGTGACGGTGACGGTG;
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1125 >s_b_s_d_s_c_s_e_s_d_s_d_s GTGGCTGTGACGGTGTGGGTGCTGGTGACGGTGACGGTG;
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1126 >s_b_s_d_s_d_s_e_s_d_s_d_s GTGGCTGTGACGGTGACGGTGCTGGTGACGGTGACGGTG;
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1127 >s_b_s_d_s_e_s_e_s_d_s_d_s GTGGCTGTGACGGTGCTGGTGCTGGTGACGGTGACGGTG;
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1128 >s_b_s_e_s_c_s_e_s_d_s_d_s GTGGCTGTGCTGGTGTGGGTGCTGGTGACGGTGACGGTG;
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1129 >s_b_s_e_s_e_s_e_s_d_s_d_s GTGGCTGTGCTGGTGCTGGTGCTGGTGACGGTGACGGTG;
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1131 >s_c_s_a_s_d_s_e_s_d_s_d_s GTGTGGGTGTCTGTGACGGTGCTGGTGACGGTGACGGTG;
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1132 >s_c_s_a_s_e_s_e_s_d_s_d_s GTGTGGGTGTCTGTGCTGGTGCTGGTGACGGTGACGGTG;
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1133 >s_c_s_b_s_c_s_e_s_d_s_d_s GTGTGGGTGGCTGTGTGGGTGCTGGTGACGGTGACGGTG;
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1134 >s_c_s_b_s_d_s_e_s_d_s_d_s GTGTGGGTGGCTGTGACGGTGCTGGTGACGGTGACGGTG;
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1135 >s_c_s_b_s_e_s_e_s_d_s_d_s GTGTGGGTGGCTGTGCTGGTGCTGGTGACGGTGACGGTG;
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1136 >s_c_s_c_s_c_s_e_s_d_s_d_s GTGTGGGTGTGGGTGTGGGTGCTGGTGACGGTGACGGTG;
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1137 >s_c_s_c_s_d_s_e_s_d_s_d_s GTGTGGGTGTGGGTGACGGTGCTGGTGACGGTGACGGTG;
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1242 >s_b_s_b_s_e_s_e_s_d_s_c_s GTGGCTGTGGCTGTGCTGGTGCTGGTGACGGTGTGGGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -19.3
1243 >s_b_s_c_s_a_s_e_s_d_s_c_s GTGGCTGTGTGGGTGTCTGTGCTGGTGACGGTGTGGGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -19.3
1244 >s_b_s_c_s_b_s_e_s_d_s_c_s GTGGCTGTGTGGGTGGCTGTGCTGGTGACGGTGTGGGTG;
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1245 >s_b_s_c_s_c_s_e_s_d_s_c_s GTGGCTGTGTGGGTGTGGGTGCTGGTGACGGTGTGGGTG;
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1246 >s_b_s_c_s_d_s_e_s_d_s_c_s GTGGCTGTGTGGGTGACGGTGCTGGTGACGGTGTGGGTG;
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1247 >s_b_s_c_s_e_s_e_s_d_s_c_s GTGGCTGTGTGGGTGCTGGTGCTGGTGACGGTGTGGGTG;
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1248 >s_b_s_d_s_a_s_e_s_d_s_c_s GTGGCTGTGACGGTGTCTGTGCTGGTGACGGTGTGGGTG;
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1249 >s_b_s_d_s_b_s_e_s_d_s_c_s GTGGCTGTGACGGTGGCTGTGCTGGTGACGGTGTGGGTG;
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1250 >s_b_s_d_s_c_s_e_s_d_s_c_s GTGGCTGTGACGGTGTGGGTGCTGGTGACGGTGTGGGTG;
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1251 >s_a_s_a_s_e_s_e_s_d_s_c_s GTGTCTGTGTCTGTGCTGGTGCTGGTGACGGTGTGGGTG;
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1252 >s_b_s_d_s_d_s_e_s_d_s_c_s GTGGCTGTGACGGTGACGGTGCTGGTGACGGTGTGGGTG;
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1253 >s_b_s_d_s_e_s_e_s_d_s_c_s GTGGCTGTGACGGTGCTGGTGCTGGTGACGGTGTGGGTG;
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1254 >s_b_s_e_s_a_s_e_s_d_s_c_s GTGGCTGTGCTGGTGTCTGTGCTGGTGACGGTGTGGGTG;
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1255 >s_b_s_e_s_b_s_e_s_d_s_c_s GTGGCTGTGCTGGTGGCTGTGCTGGTGACGGTGTGGGTG;
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1256 >s_b_s_e_s_c_s_e_s_d_s_c_s GTGGCTGTGCTGGTGTGGGTGCTGGTGACGGTGTGGGTG;
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1257 >s_b_s_e_s_e_s_e_s_d_s_c_s GTGGCTGTGCTGGTGCTGGTGCTGGTGACGGTGTGGGTG;
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1258 >s_c_s_a_s_a_s_e_s_d_s_c_s GTGTGGGTGTCTGTGTCTGTGCTGGTGACGGTGTGGGTG;
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1259 >s_c_s_a_s_b_s_e_s_d_s_c_s GTGTGGGTGTCTGTGGCTGTGCTGGTGACGGTGTGGGTG;
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1260 >s_c_s_a_s_c_s_e_s_d_s_c_s GTGTGGGTGTCTGTGTGGGTGCTGGTGACGGTGTGGGTG;
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1261 >s_a_s_b_s_a_s_e_s_d_s_c_s GTGTCTGTGGCTGTGTCTGTGCTGGTGACGGTGTGGGTG;
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1262 >s_c_s_a_s_d_s_e_s_d_s_c_s GTGTGGGTGTCTGTGACGGTGCTGGTGACGGTGTGGGTG;
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1263 >s_c_s_a_s_e_s_e_s_d_s_c_s GTGTGGGTGTCTGTGCTGGTGCTGGTGACGGTGTGGGTG;
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1264 >s_c_s_b_s_a_s_e_s_d_s_c_s GTGTGGGTGGCTGTGTCTGTGCTGGTGACGGTGTGGGTG;
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1265 >s_c_s_b_s_b_s_e_s_d_s_c_s GTGTGGGTGGCTGTGGCTGTGCTGGTGACGGTGTGGGTG;
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1266 >s_c_s_b_s_c_s_e_s_d_s_c_s GTGTGGGTGGCTGTGTGGGTGCTGGTGACGGTGTGGGTG;
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1267 >s_c_s_b_s_d_s_e_s_d_s_c_s GTGTGGGTGGCTGTGACGGTGCTGGTGACGGTGTGGGTG;
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1268 >s_c_s_b_s_e_s_e_s_d_s_c_s GTGTGGGTGGCTGTGCTGGTGCTGGTGACGGTGTGGGTG;
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1269 >s_c_s_c_s_a_s_e_s_d_s_c_s GTGTGGGTGTGGGTGTCTGTGCTGGTGACGGTGTGGGTG;
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1270 >s_c_s_c_s_b_s_e_s_d_s_c_s GTGTGGGTGTGGGTGGCTGTGCTGGTGACGGTGTGGGTG;
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1271 >s_c_s_c_s_c_s_e_s_d_s_c_s GTGTGGGTGTGGGTGTGGGTGCTGGTGACGGTGTGGGTG;
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1275 >s_c_s_d_s_a_s_e_s_d_s_c_s GTGTGGGTGACGGTGTCTGTGCTGGTGACGGTGTGGGTG;
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1276 >s_c_s_d_s_c_s_e_s_d_s_c_s GTGTGGGTGACGGTGTGGGTGCTGGTGACGGTGTGGGTG;
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1277 >s_c_s_d_s_d_s_e_s_d_s_c_s GTGTGGGTGACGGTGACGGTGCTGGTGACGGTGTGGGTG;
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1278 >s_c_s_d_s_e_s_e_s_d_s_c_s GTGTGGGTGACGGTGCTGGTGCTGGTGACGGTGTGGGTG;
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1279 >s_c_s_e_s_a_s_e_s_d_s_c_s GTGTGGGTGCTGGTGTCTGTGCTGGTGACGGTGTGGGTG;
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1294 >s_b_s_d_s_b_s_e_s_a_s_b_s GTGGCTGTGACGGTGGCTGTGCTGGTGTCTGTGGCTGTG;
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1296 >s_d_s_c_s_c_s_b_s_d_s_b_s GTGACGGTGTGGGTGTGGGTGGCTGTGACGGTGGCTGTG;
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1300 >s_a_s_c_s_a_s_b_s_d_s_b_s GTGTCTGTGTGGGTGTCTGTGGCTGTGACGGTGGCTGTG;
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1302 >s_a_s_d_s_a_s_b_s_d_s_b_s GTGTCTGTGACGGTGTCTGTGGCTGTGACGGTGGCTGTG;
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1316 >s_c_s_b_s_c_s_b_s_d_s_b_s GTGTGGGTGGCTGTGTGGGTGGCTGTGACGGTGGCTGTG;
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1317 >s_a_s_b_s_a_s_b_s_d_s_b_s GTGTCTGTGGCTGTGTCTGTGGCTGTGACGGTGGCTGTG;
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1325 >s_d_s_b_s_a_s_b_s_d_s_b_s GTGACGGTGGCTGTGTCTGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -19.1
1326 >s_d_s_b_s_c_s_b_s_d_s_b_s GTGACGGTGGCTGTGTGGGTGGCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -19.1
1327 >s_d_s_c_s_a_s_a_s_d_s_b_s GTGACGGTGTGGGTGTCTGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -18.8
1328 >s_d_s_d_s_a_s_a_s_d_s_b_s GTGACGGTGACGGTGTCTGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -18.8
1329 >s_a_s_a_s_a_s_a_s_d_s_b_s GTGTCTGTGTCTGTGTCTGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -18.8
1330 >s_a_s_c_s_a_s_a_s_d_s_b_s GTGTCTGTGTGGGTGTCTGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -18.8
1331 >s_a_s_d_s_a_s_a_s_d_s_b_s GTGTCTGTGACGGTGTCTGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -18.8
1332 >s_b_s_a_s_a_s_a_s_d_s_b_s GTGGCTGTGTCTGTGTCTGTGTCTGTGACGGTGGCTGTG;
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1333 >s_b_s_b_s_a_s_a_s_d_s_b_s GTGGCTGTGGCTGTGTCTGTGTCTGTGACGGTGGCTGTG;
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1334 >s_b_s_c_s_a_s_a_s_d_s_b_s GTGGCTGTGTGGGTGTCTGTGTCTGTGACGGTGGCTGTG;
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1335 >s_b_s_d_s_a_s_a_s_d_s_b_s GTGGCTGTGACGGTGTCTGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -18.8
1336 >s_c_s_a_s_a_s_a_s_d_s_b_s GTGTGGGTGTCTGTGTCTGTGTCTGTGACGGTGGCTGTG;
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1337 >s_c_s_b_s_a_s_a_s_d_s_b_s GTGTGGGTGGCTGTGTCTGTGTCTGTGACGGTGGCTGTG;
>clamp_s_e_s_d_s_b_s:compl:rev CACAGCCACCGTCACCAGCACTATCATGTTGACATTCC; dG = -18.8

1338 >s_a_s_b_s_a_s_a_s_d_s_b_s GTGTCTGTGGCTGTGTCTGTGTCTGTGACGGTGGCTGTG;
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1339 >s_c_s_c_s_a_s_a_s_d_s_b_s GTGTGGGTGTGGGTGTCTGTGTCTGTGACGGTGGCTGTG;
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1340 >s_c_s_d_s_a_s_a_s_d_s_b_s GTGTGGGTGACGGTGTCTGTGTCTGTGACGGTGGCTGTG;
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1341 >s_d_s_a_s_a_s_a_s_d_s_b_s GTGACGGTGTCTGTGTCTGTGTCTGTGACGGTGGCTGTG;
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1342 >s_d_s_b_s_a_s_a_s_d_s_b_s GTGACGGTGGCTGTGTCTGTGTCTGTGACGGTGGCTGTG;
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1343 >s_d_s_b_s_d_s_e_s_a_s_b_s GTGACGGTGGCTGTGACGGTGCTGGTGTCTGTGGCTGTG;
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1344 >s_d_s_b_s_d_s_a_s_d_s_b_s GTGACGGTGGCTGTGACGGTGTCTGTGACGGTGGCTGTG;
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1345 >s_d_s_c_s_c_s_a_s_d_s_b_s GTGACGGTGTGGGTGTGGGTGTCTGTGACGGTGGCTGTG;
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1348 >s_d_s_d_s_c_s_a_s_d_s_b_s GTGACGGTGACGGTGTGGGTGTCTGTGACGGTGGCTGTG;
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1349 >s_d_s_d_s_d_s_a_s_d_s_b_s GTGACGGTGACGGTGACGGTGTCTGTGACGGTGGCTGTG;
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1350 >s_a_s_c_s_c_s_a_s_d_s_b_s GTGTCTGTGTGGGTGTGGGTGTCTGTGACGGTGGCTGTG;
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1351 >s_a_s_c_s_d_s_a_s_d_s_b_s GTGTCTGTGTGGGTGACGGTGTCTGTGACGGTGGCTGTG;
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1352 >s_a_s_d_s_c_s_a_s_d_s_b_s GTGTCTGTGACGGTGTGGGTGTCTGTGACGGTGGCTGTG;
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1353 >s_a_s_d_s_d_s_a_s_d_s_b_s GTGTCTGTGACGGTGACGGTGTCTGTGACGGTGGCTGTG;
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1359 >s_b_s_c_s_c_s_a_s_d_s_b_s GTGGCTGTGTGGGTGTGGGTGTCTGTGACGGTGGCTGTG;
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1360 >s_b_s_c_s_d_s_a_s_d_s_b_s GTGGCTGTGTGGGTGACGGTGTCTGTGACGGTGGCTGTG;
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1361 >s_a_s_a_s_d_s_a_s_d_s_b_s GTGTCTGTGTCTGTGACGGTGTCTGTGACGGTGGCTGTG;
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1362 >s_b_s_d_s_c_s_a_s_d_s_b_s GTGGCTGTGACGGTGTGGGTGTCTGTGACGGTGGCTGTG;
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1363 >s_b_s_d_s_d_s_a_s_d_s_b_s GTGGCTGTGACGGTGACGGTGTCTGTGACGGTGGCTGTG;
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1365 >s_c_s_a_s_d_s_a_s_d_s_b_s GTGTGGGTGTCTGTGACGGTGTCTGTGACGGTGGCTGTG;
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1367 >s_c_s_b_s_d_s_a_s_d_s_b_s GTGTGGGTGGCTGTGACGGTGTCTGTGACGGTGGCTGTG;
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1368 >s_c_s_c_s_c_s_a_s_d_s_b_s GTGTGGGTGTGGGTGTGGGTGTCTGTGACGGTGGCTGTG;
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1371 >s_c_s_d_s_d_s_a_s_d_s_b_s GTGTGGGTGACGGTGACGGTGTCTGTGACGGTGGCTGTG;
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1372 >s_d_s_a_s_c_s_a_s_d_s_b_s GTGACGGTGTCTGTGTGGGTGTCTGTGACGGTGGCTGTG;
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1373 >s_d_s_a_s_d_s_a_s_d_s_b_s GTGACGGTGTCTGTGACGGTGTCTGTGACGGTGGCTGTG;
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1374 >s_a_s_b_s_c_s_a_s_d_s_b_s GTGTCTGTGGCTGTGTGGGTGTCTGTGACGGTGGCTGTG;
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1375 >s_d_s_b_s_c_s_a_s_d_s_b_s GTGACGGTGGCTGTGTGGGTGTCTGTGACGGTGGCTGTG;
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1376 >s_a_s_d_s_b_s_e_s_a_s_b_s GTGTCTGTGACGGTGGCTGTGCTGGTGTCTGTGGCTGTG;
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1377 >s_d_s_b_s_a_s_e_s_a_s_b_s GTGACGGTGGCTGTGTCTGTGCTGGTGTCTGTGGCTGTG;
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1378 >s_d_s_b_s_b_s_e_s_a_s_b_s GTGACGGTGGCTGTGGCTGTGCTGGTGTCTGTGGCTGTG;
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1379 >s_d_s_b_s_c_s_e_s_a_s_b_s GTGACGGTGGCTGTGTGGGTGCTGGTGTCTGTGGCTGTG;
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1380 >s_d_s_b_s_e_s_e_s_a_s_b_s GTGACGGTGGCTGTGCTGGTGCTGGTGTCTGTGGCTGTG;
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1381 >s_d_s_c_s_a_s_e_s_a_s_b_s GTGACGGTGTGGGTGTCTGTGCTGGTGTCTGTGGCTGTG;
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1382 >s_d_s_c_s_b_s_e_s_a_s_b_s GTGACGGTGTGGGTGGCTGTGCTGGTGTCTGTGGCTGTG;
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1383 >s_d_s_d_s_a_s_e_s_a_s_b_s GTGACGGTGACGGTGTCTGTGCTGGTGTCTGTGGCTGTG;
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1384 >s_d_s_e_s_a_s_e_s_a_s_b_s GTGACGGTGCTGGTGTCTGTGCTGGTGTCTGTGGCTGTG;
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1385 >s_d_s_e_s_b_s_e_s_a_s_b_s GTGACGGTGCTGGTGGCTGTGCTGGTGTCTGTGGCTGTG;
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1386 >s_e_s_a_s_a_s_e_s_a_s_b_s GTGCTGGTGTCTGTGTCTGTGCTGGTGTCTGTGGCTGTG;
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1387 >s_e_s_a_s_b_s_e_s_a_s_b_s GTGCTGGTGTCTGTGGCTGTGCTGGTGTCTGTGGCTGTG;
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1391 >s_a_s_c_s_b_s_e_s_a_s_b_s GTGTCTGTGTGGGTGGCTGTGCTGGTGTCTGTGGCTGTG;
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1394 >s_a_s_a_s_b_s_e_s_a_s_b_s GTGTCTGTGTCTGTGGCTGTGCTGGTGTCTGTGGCTGTG;
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1395 >s_a_s_e_s_a_s_e_s_a_s_b_s GTGTCTGTGCTGGTGTCTGTGCTGGTGTCTGTGGCTGTG;
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1399 >s_b_s_b_s_a_s_e_s_a_s_b_s GTGGCTGTGGCTGTGTCTGTGCTGGTGTCTGTGGCTGTG;
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