A
cas9-tracrRNA distance
Frequency
0
10
20
30
40
>500
500-999
1000-1499
1500-1999
2000-2499
3000+
B
Start of CRISPR-array repeat
Bits
0.0
0.5
1.0
1.5
2.0
1
2
3
4
5
6
7
8
9
10
position
C
Start of tracrRNA tail
Bits
0.0
0.5
1.0
1
2
3
4
5
6
7
8
9
10
position
D
Hybrid free-energy
Frequency
0
5
10
15
-60
-40
-20
Free energy