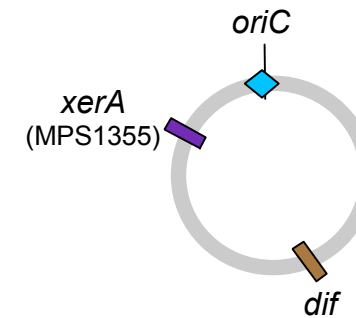
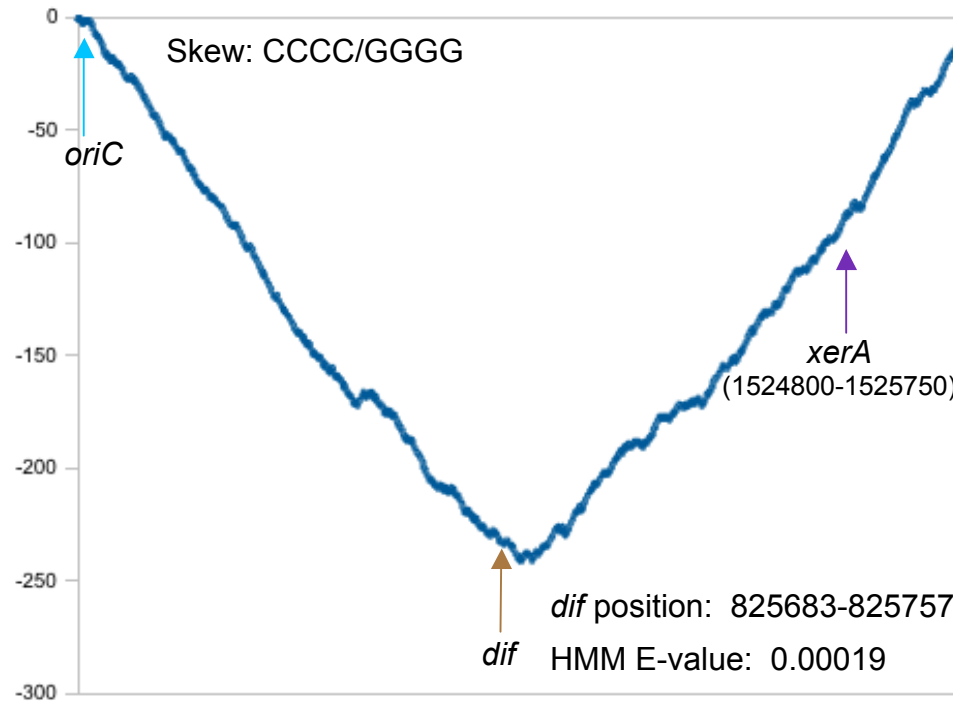


Figure S6

*M. stadtmanae* (*dif* candidate found within an intergenic region)



Sequences

*Thermococcales dif* sites

	Conserved flanking sequence	Left Arm	Spacer	Righth Arm	Conserved flanking sequence
<i>P. horikoshii</i>	A T G T T C A T T T T T A T A C A T T A C	T T T A G A T A T A A A	T C A G C C	T T A T A T C T A A A A G	T A A T G T A T A A A A A T G A A C A T C A A
<i>P. furiosus</i>	A T G C T C A T C T A T G T T C A T T A T	T T T A G A T A T A A A	T C A G C C	T T A T A T C T A A A A A	T C A T G C A C A A A A A T G A G C G T C G A
<i>P. abyssi</i>	A T G C A C A T A T T T G T G C G T T T A	A T T G G A T A T A A T	C G G C C	T T A T A T C T A A A A A	T C A T G A A C A A A A A T G A A C G T T G A
<i>T. kodakaraensis</i>	G T G C C C A T T T T T G T A C T G C A G T	T T T T G A T A T A A T	G T A C C	T T A T A T G A C A A A A C T	A A T G A A C A A T A G C G A G C A T A G A
<i>T. onnurineus</i>	A T G T T C A A A C A T G T T C G T G A A T	T T T A G A T A T A A T	T G T G T C	T T A T A T C T A A A A T	T T T A T G T A C A T T G T T G T A T A T T G A
<i>T. gammatolerans</i>	A T G C T C G G A C T T G A T C A C T A G T	T T T T G G A T A T A A T	G A T C C	T T A T A T C T A A A A G T	C C C G T A C A G A T A T G A A C A T A C A
<i>T. sibiricus</i>	T T G A T T T T A C C A C T A T A C A T A A	T T G T C A T A T A A T	T A A G C C	T T A T A T C T A A A A A	C T C A T G C A C A A T A A C A T A C A T C A T
<i>M. stadtmanae</i>	A T C C T A T T A C T T G T A A A T T T T A	T T A G T T A T A T	T A T A C	A A A A T A T C G A C A A A T A T T	T A A T A A T T A A T A A A C A T A T A