

Figure S3

Thermococcales predicted *dif* sites and conserved flanking regions

	dif															
	Conserved flanking sequence				Left Arm			Spacer		Rigth 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 T	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 T G A A C A T C C A A	T	G A A C A C A T C C A 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 T	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 G C G T C G G A	T	G A A C A C G T T G G A	A	
<i>P. abyssi</i>	A T G C A C A T A T T T G T G C G G T T A	A	T	T	G G A T A T A A T	T	C G G C C	T	T	A T A T C T A 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 G A	T	G A A C A C G T T G G A	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	G G A T A T A A T	T	G T A C C	T	T	A T A T C T A A A A A	A	C T A A T G G A A C A A A A T G C G A G C A T T A G G A	T	A G C G A G C A T T A G G A	A	
<i>T. onnurineus</i>	A T G T T C A 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 A	A	T T A T G T A C A T T G T T T G T A T A T T G G A	T	G T T T G T A T A T T G G A	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	G G A T A T A A T	T	G A T C C	T	T	A T C T A A A A A G T C C C C G T A C A G A T A T G A A C A T A C A	T	A A C T C A T G C A C A A A T A A C A T A C A	T	G A A C A C A T A C A	A	
<i>T. sibiricus</i>	T T G A T T T T A C A C T A T A C A T A A T	T	T	G T C A T A T A A T	A	T A A G C C	T	T	A T C T A A A A A C T C A T G C A C A A A T A A C A T A C A T	T	A A C T C A T G C A C A A A T A A C A T A C A T	T	G A A C A C A T A C A	A		
Consensus	A T G Y T C A T W T T T G T W C R T T A A T	T	T	A G A T A T A A T	S	W G C C	T	T	A T C T A A A A - T M A T G W A C A A W A A T G A R C R T Y G A							

Consensus

