

Supporting Information

Molecular Piracy in Deep-Sea Hydrothermal Vent: Phage-Plasmid Interactions revealed by Phage-FISH in *Marinitoga piezophila*

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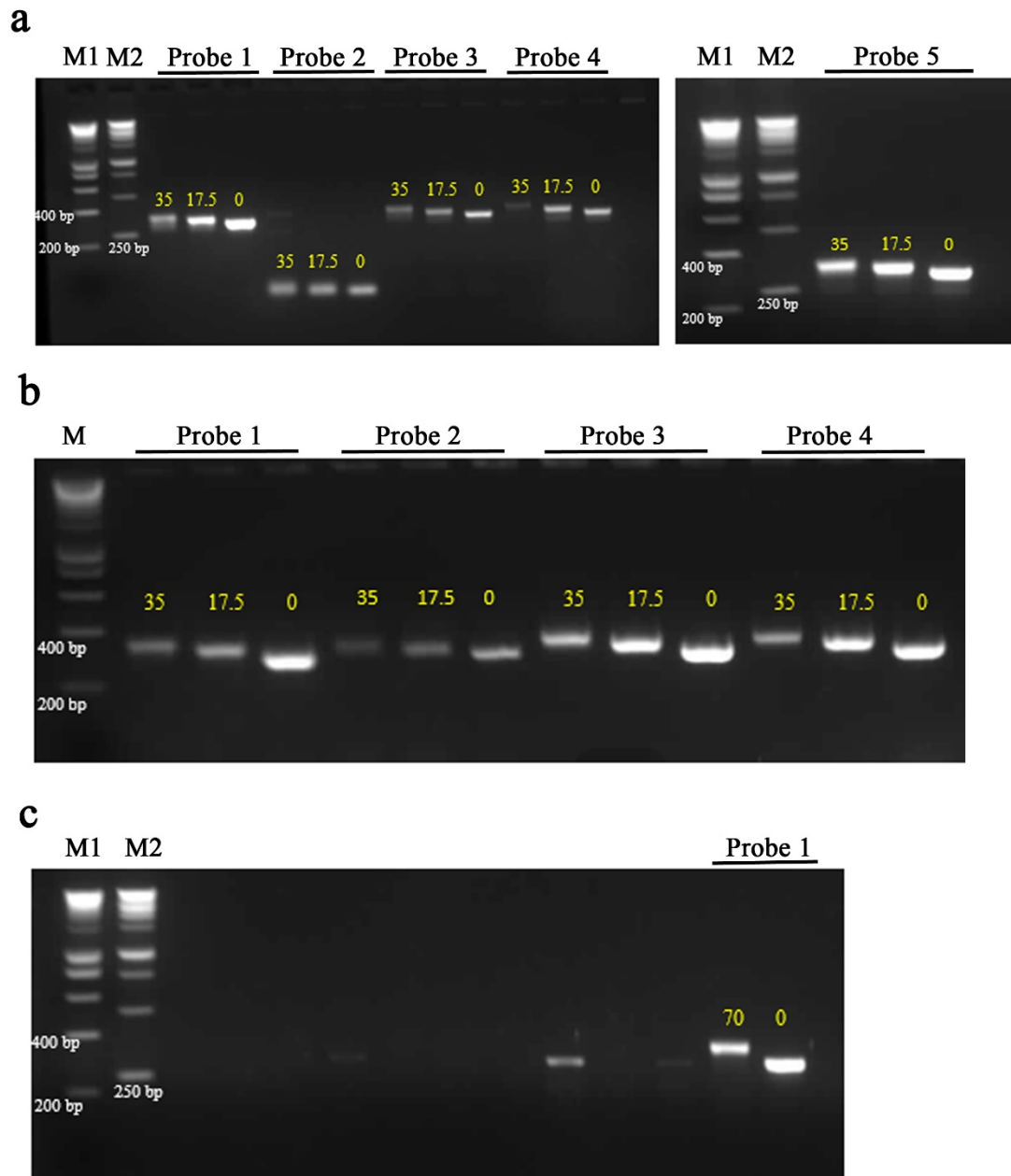


Fig. S1 The PCR synthesis of DIG-phage probes (a), DIG-plasmid probes (b), and DIG-Negative probes (c). The yellow text above the band indicates the final concentration of DIG (μM) used for PCR. The white text indicates the length of DNA marker. M, M1, and M2 indicate DNA markers. The primers used for PCR are shown in Table 1.

Table S1 dsDNA Polynucleotide probes (300 bp each) used in this study

Probes	Template	Probe number	Targeted Region	%GC	Forward Primer	Reverse Primer
Phage Probe	Phage genome DNA	Probe 1	34141-34440 bp	29.7	GAATTTATAAGCCCAGATGATATTG	AAATGGAGAGAAAAAATTCAAGCGT
		Probe 2	34441-34740 bp	24.7	TTTCTTTAATCTTTCAGGTGTTTCC	AGGTTATTGGAATTTGATTTTGACG
		Probe 3	34741-35040 bp	32.3	ATGCTTAACGTGTAAAAATACTTCA	AGGAAAAGATCATCAGAATTGA
		Probe 4	35041-35340 bp	32	ACTTCTCTTATTACCTTTTCCA	TCAAAAAAATACTGGATGGGT
		Probe 5	35341-35640 bp	33	GGCAATATCTTTCATTCTCAT	GACTCTGGAAAGAAAATGAAA
Plasmid Probe	Plasmid DNA	Probe 1	7981-8280 bp	27.3	GATGTGATCATAGATTTTATTAATC	ATTAGCCTTCTTAACTTTTTAG
		Probe 2	8281-8580 bp	30	CCGTCGTTTCAACGGGAGAGCT	CAAAATTTATGTAATATTGTATATC
		Probe 3	9181-9480 bp	27	TATTCATTAAAGGGGTTTAAG	AACATAACTTTCATCATCCA
		Probe 4	9781-10080 bp	33.7	TTTATAATGTAGGTATAAACTACACTG	TAGTTAGGCCATCTTTACCAAG
Negative probe	<i>Thermococcus thio-reducens</i> genome DNA	Probe 1	1745340-1745639 bp	59.4	CCGGAATACTCCTCGGTTTCCT	TGAATTTACCCGCGTAGATTCTC