

Additional file 2. Oligodeoxynucleotides not listed in Table 2.

name	sequence(5' to 3')	target*	purpose
P-1611	GTATGCGTAATGCAAGTCCACTGT	<i>S. shibatae</i> fw	PCR
P-1612	GGAGTACGTGTGCGTGATGCAGCT	<i>A. camini</i> fw	PCR, 2nd
P-1613	CTCAGATAAAGTCTACGTGGCTGT	<i>T. neutrophilus</i> fw	PCR, 1st
P-1616	TGTTGCATGGGTAAAGAAGCTGCT	<i>C. maquilingensis</i> fw	PCR, 1st
P-1646	CAAGACCTACGTTTGTGTGATGCAACTTC	<i>C. lagnuensis</i> fw	PCR
P-1647	GCGTACGTCTGCGTCATGCAGCTT	<i>A. aceticus</i> fw	PCR
P-1648	GCAGCTGCACAGGCCCGTGGAGGA	<i>A. camini</i> fw	PCR, 2nd
P-1649	GGTTATACAGCTCCACGGCGATGT	<i>D. mobilis</i> fw	PCR
P-1650	CGTAATGGTAATACAATTCCACGATGCCTT	<i>I. islandicus</i> fw	PCR, 2nd
P-1651	CGTGATGGTGATCCAGCTTCATACA	<i>S. marinus</i> fw	PCR, 2nd
P-1652	AAGGAGTACGTGTGCGTGATGCAG	<i>S. hygrogenophila</i> fw	PCR, 2nd
P-1653	AGAATACGTAATGGTTGTTCAACTACACGA	<i>S. zilligii</i> fw	PCR
P-1654	ATACACAGCGATAAGGAGTACGTG	<i>T. maritiimus</i> fw	PCR, 2nd
P-1655	ATGGTGATACAGTTCCACGGGGAT	<i>T. aggregans</i> fw	PCR
P-1656	TGTGTTATGCAGCTCCACCGTCCA	<i>H. butylicus</i> fw	PCR
P-1657	TGTGCGTAATGCAGCTCCACCGCC	<i>P. occultum</i> fw	PCR, 2nd
P-1658	GATGCAGCTGCACGAGCCAGTAGA	<i>P. fumarii</i> fw	PCR, 2nd
P-1659	TCTGCGTAATGGAACTCACGAGA	<i>A. infernus</i> fw	PCR
P-1660	ATCTGTCTCATGGAAGTGCATTGC	<i>M. hakonensis</i> fw	PCR, 2nd
P-1662	GGTAAGGAATATGTCTGCATTATGCAAGTG	<i>S. azoricus</i> fw	PCR, 2nd
P-1663	TTTGCTTATTGCAAATGCACTGTAATGTAG	<i>S. acidocaldarius</i> fw	PCR
P-1664	CTGGGAAAGAATATGTATGCTTAATGCAAG	<i>S. ohwakuensis</i> fw	PCR
P-1665	GTGGGTGTTATGCTCCTTCACTCT	<i>C. maquilingensis</i> fw	PCR, 2nd
P-1666	GGTCTATGTGGCTGTGGCTAAGTT	<i>P. oguniense</i> fw	PCR, 2nd
P-1667	TACATAGCCGTCATGACCCCTTAC	<i>T. moditius</i> fw	PCR
P-1668	TATGTCGCCGTCGCCAAGTTTAC	<i>T. tenax</i> fw	PCR
P-1669	GAAACTTCATGGCGATGTGCGATGA	<i>V. distributa</i> fw	PCR, 2nd
P-1676	CCGGCGTTCTACCGGTTGCGTTCA	<i>I. islandicus</i> fw	PCR, 1st
P-1677	CAAAGTGACCGGCGTATTACCTGT	<i>S. marinus</i> fw	PCR, 1st
P-1678	GCGACGAAGATCATCGGAATGTT	<i>P. fumarii</i> fw	PCR, 1st
P-1679	CCCAAAGTAACGGGAGTATTGCCA	<i>S. azoricus</i> . fw	PCR, 1st
P-1680	TGCCAATTGCAGTGGCTGAGGGAA	<i>P. oguniense</i> fw	PCR, 1st
P-1681	GGCCATGCCCGCGATTAACACACT	<i>V. distributa</i> fw	PCR, 1st
P-1684	CATAGGTTTAGGGAAGGCCACCAA	<i>M. sedura</i> fw	PCR
P-1696	AGCCCTGCAGAGGATGACAAGGAT	<i>T. maritimus</i> fw	PCR, 1st
P-1710	TGCCCCGTGGCGCTCCACCGCATGA	<i>S. hygrogenophila</i> fw	PCR, 1st
P-1711	AGGTCTAGGTAAGGCCACAAGAGT	<i>M. hakonensis</i> fw	PCR, 1st
P-1719	CTTCTAACAATAGAATCTGAAGCAGGTACT	<i>C. lagnuensis</i>	sequencing
P-1720	TAAATAATAGTCTTCATTAAAAGGTCCTGT	<i>C. lagnuensis</i>	sequencing
P-1721	TGCCGTCATAAGGTGGCGGGAGGA	<i>A. camini</i>	sequencing
P-1722	TCAGGGAGGAGGGTAAGGATGACT	<i>A. aceticus</i>	sequencing
P-1723	CGACATCGGGCTATTGCTCGGAGT	<i>D. mobilis</i>	sequencing
P-1724	TTGGGCTTGCTAATGGGCATTGGA	<i>I. islandicus</i>	sequencing
P-1725	AGGGACCGCTTCTAGTTCTCCTCA	<i>I. islandicus</i>	sequencing
P-1726	GGGCCACATGAGGGAGCTGAGGA	<i>T. maritiimus</i>	sequencing
P-1727	CGACGTCCCAGCAGATCTTCCTCA	<i>T. maritiimus</i>	sequencing
P-1728	TCATACTCGGCGTTGGAGCACACA	<i>S. zilligii</i>	sequencing
P-1729	CAGGGTGGACGGGAAGGACGACCT	<i>S. hygrogenophila</i>	sequencing
P-1730	GAATTGAGGAGAACAAGGTCAGGA	<i>M. sedura</i>	sequencing
P-1737	CGATGTCGTGGGCCAGCTTCCTCA	<i>D. mobilis</i>	sequencing
P-1738	TTAGAAGAACACGTACGGGACCTT	<i>S. marinus</i>	sequencing
P-1739	GTACCTGCTTCACATCCTACACGA	<i>S. marinus</i>	sequencing
P-1740	GTAAGTCCCCGCCTCGCAGGCGAT	<i>S. hygrogenophila</i>	sequencing
P-1741	AGTATGAGGCCAATATCGTGTGCT	<i>S. zilligii</i>	sequencing
P-1742	TATACACTGGCGTGGGGGCTCACA	<i>T. aggregans</i>	sequencing

P-1743	CCCAATAGAGTATGCAGTTAGCCA	H. butylicus	sequencing
P-1744	GAGAAAAATATGCCACGATATGGGAA	A. infernus	sequencing
P-1745	TGTAGGGAGGAGGATGAACTGAGA	M. hakonensis	sequencing
P-1746	TGCAAAGATGAGAGTGACCTAAGA	S. azoricus	sequencing
P-1747	TAATATGGTTACACTCCAAGAAGTTTCAGA	S. acidocaldarius	sequencing
P-1748	GAGATTTTCAGAAGCTCTTTATATGTGGA	S. ohwakuensis	sequencing
P-1749	GCTTAGGAGGTTAATTAGGCCTGT	C. maquilingensis	sequencing
P-1750	ATCTAAGGAGCGTCTTGTTGCCTA	P. oguniense	sequencing
P-1751	TATCTCTGGAAGCAGTACGGCGAT	T. modiscus	sequencing
P-1752	TATGGAGGAAGTACGGCGACGACA	T. neurotrophilus	sequencing
P-1753	TGGAGGAACACTACGGCGATGACACT	T. tenax	sequencing
P-1754	ATTATGGAGTTGAGGACCTGCTCA	V. distributa	sequencing
P-1757	CTGGAGGAAGCAACCAAGGTCATA	P. occultum fw	PCR, 1st
P-1794	CCCGTAGGATTAGATAATGCCACT	S. metallicus fw	PCR, 1st
P-1795	TTGCGTGATGCAGGTTCACTCTGA	S. metallicus fw	PCR, 2nd
P-1796	ATAGCTTATGGTGCAAAGTTAACAGC	S. metallicus	sequencing
P-1797	AAGTTGCTATCTCCATGGGCATGA	S. metallicus	sequencing
P-1816	TCCCTGTTGCCTTAGCGGAAGCTA	I. pacificus fw	PCR, 1st
P-1817	TACGTCATGCTTTCCGGAAAGGAA	I. pacificus fw	PCR, 2nd
P-1861	GGACAGGAACCTGCTCTACGATGCA	Thermofilum	sequencing
P-1951	GGGCTATCCCAAAGTAACCGGAGT	A. brierlegi fw	PCR, 1st
P-1952	CATATGTGTAATGCAAGTTCATTGTGA	A. brierlegi fw	PCR, 2nd
P-1953	GCTCGCCAACAGCACCAAGGTCAT	D. mucosus fw	PCR, 1st
P-1954	ATGGTTATACAGCTCCACGGCGAT	D. mucosus fw	PCR, 2nd
P-1955	GTACGAAGGTCATTGGGAACGTGA	D. amylolyticus fw	PCR, 1st
P-1956	ACAGTTACATGGGGATGCCAGGGA	D. amylolyticus fw	PCR, 2nd
P-1957	AGGCCCTGCTTGCTTTATCGCGTT	P. islandicum fw	PCR, 1st
P-1958	CGGCGATGTAGATGAGGAGAAGCT	P. islandicum fw	PCR, 2nd
P-1959	AGGCCCTGCTTGCTTTATCGCGTT	P. organotrophum fw	PCR, 1st
P-1960	TCCACGGCGATGTAGATGAGGAGA	P. organotrophum fw	PCR, 2nd
P-1961	GGTAACCCCCAAAGTATCTGGAGTA	A. ambivalens fw	PCR, 1st
P-1962	TCTGCGTAATGGAACTCACGAGA	A. ambivalens fw	PCR, 2nd
P-1963	AGACCCGAAGGTGACTGGCGTACT	P. abyssi fw	PCR, 1st
P-1964	ACGTGTGTAATGCAGCTCCATCAT	P. abyssi fw	PCR, 2nd
P-1965	TTAAACCCCCAAAGTGACCGGCGTA	S. hellenicus fw	PCR, 1st
P-1966	GATCCAGCTTCACGCACCAAGTAGA	S. hellenicus fw	PCR, 2nd
P-1967	CGATAGCGCTTGAGAAATCAACGA	V. souniana fw	PCR, 1st
P-1968	CACGGTGATGTAGATGATGGCAAG	V. souniana fw	PCR, 2nd
P-1969	CCAATTGCAGTGGCTGAGGGGACT	P. arsenaticum fw	PCR, 1st
P-1970	GGCTAAGTTCCACGGAGATGTGGA	P. arsenaticum fw	PCR, 2nd
P-1971	GTAACGGGTGTCCTGCCCATAGCA	C. noboribetus fw	PCR, 1st
P-1972	CGTCATGCAGCTTCACGGCGATGT	C. noboribetus fw	PCR, 2nd
P-1973	AGCCCTGGAGGAAGCAACCAAGGT	P. brockii fw	PCR, 1st
P-1974	TGGTGGTGACACGAGCAAGGAGT	P. brockii fw	PCR, 2nd
P-1975	GTAAGTGGAGTATTGCCTGTAGCA	I. aggreganse fw	PCR, 1st
P-1976	GGAGTATGTAGGGGTTATGGAGCT	I. aggreganse fw	PCR, 2nd
P-1985	GTTACGCTTCAAGAGGTCTCGGAA	A. brierlegi	sequencing
P-1986	AACATCTATCGCCACCTCCCGAA	D. mucosus	sequencing
P-1987	GGAAGAAATACGGCGACGACACGT	P. arsenaticum	sequencing
p-1988	GGCCGTGTACCGCTTCAGGGAGGA	C. noboribetus	sequencing
P-1997	ATTGAGGAGGATAGGTGTGGCACA	I. aggregans	sequencing

*, fw, forward