

1 TABLE 1: FliA-dependent promoters used to generate a weight matrix.

2	Specie	Gene/Promoter	Sequence	References <sup>#</sup>
3	<i>Treponema phagedenis</i>	<i>Tap 1</i>	TCAACAAAAGTTTTAACATGCCGAAAT	8
4	<i>Treponema pallidum</i>	<i>Tap 1</i>	AAGACGTGCTGCGCAGTGCGCCGAGAA	8
5	<i>Treponema phagedenis</i>	<i>FlaB2</i>	TTAAGTGTTTTTCCGCCATCCGATAC	8
6	<i>Treponema pallidum</i>	<i>FlaB2</i>	TCAAGTGCACCCGGCGTATTCCGATAC	8
7	<i>Treponema pallidum</i>	<i>FlaB1</i>	TCAAGTCCTTTTTCCGTTTTTCCGATTT	8
8	<i>Escherichia coli</i>	<i>tar</i>	TAAAGTTTTCCCCCTCCTTGCCGATAA	1
9	<i>Escherichia coli</i>	<i>flaA1</i>	AAGACGCAGGATAATTAGCCGATAA	1
10	<i>Escherichia coli</i>	<i>tsr</i>	TAAAGTTTTTCTTTCCAGGCCGAAAA	1
11	<i>Escherichia coli</i>	<i>trg</i>	TAAGTAATTACCGTCAAGTGCCGATGA	4
12	<i>Escherichia coli</i>	<i>hag</i>	TAAAGTTGTTTTACGACAGACGATAA	4
13	<i>Escherichia coli</i>	<i>rfs</i>	TAAACTTTGCGCAATTCAGACCGATAA	4
14	<i>Bacillus subtilis</i>	P <sub>28-1</sub>	TAAATGATTCTGTTTTTATGCCGATAT	6
15	<i>Bacillus subtilis</i>	P <sub>28-2</sub>	TAAAGTTCCGGGCACCAAAACCGATAT	6
16	<i>Bacillus subtilis</i>	MG102	TAAATGATTCTGTTTTTATGCCGATAT	3
17	<i>Bacillus subtilis</i>	MG 201	TAAAGTTCCGGGCACCAAAACCGATAT	3
18	<i>Salmonella typhimurium</i>	<i>tar</i>	TAAAGTTATCGCCGCAGGTGCCGATAA	5
19	<i>Salmonella typhimurium</i>	<i>H2</i>	TAAAGTTTATGCCTCAACTGTTCGATAA	5
20	<i>Salmonella typhimurium</i>	<i>H1</i>	TAAAGTTCGAAATTCAGGTGCCGATAC	5
21	<i>Salmonella typhimurium</i>	<i>rfs(S)</i>	TAAACTTTGCCTCCAGATTGCCGATAA	5
22	<i>Salmonella typhimurium</i>	<i>fljB</i>	TAAAGTTTATGCCTCAAGTGTTCGATAA	7
23	<i>Proteus mirabilis</i>	<i>flaD</i>	TAAACTTTTCGCCAATTCCTCCGATAA	2
24	<i>Proteus mirabilis</i>	<i>flaA</i>	TAAAGGTTGTATCTGGGGTGCCGATAA	2
25	<i>Proteus mirabilis</i>	<i>flaB</i>	TAAATACCTTCGATTTAATGACGATAG	2
26	<i>Campylobacter coli</i>	<i>flaA</i>	TAAACTATTTTTCTTTTAAACGATAT	5

27 <sup>#</sup>References

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49 (*fla*) operon in the oral spirochete *Treponema denticola* ATCC 35405. *FEMS*  
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51 TABLE 2: A weight matrix of FliA-dependent promoters.

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52	A	2	20	24	23	0	4	5	2	4	3	2	2	4	6	6	8	8	10	7	4	3	0	0	25	3	23	14
53	C	0	4	0	1	7	1	3	7	6	8	6	10	11	6	10	4	5	4	1	0	20	25	0	0	0	0	3
54	G	0	0	1	1	14	5	3	2	5	3	9	6	3	2	2	6	3	6	2	17	0	0	25	0	1	1	1
55	T	23	1	0	0	4	15	14	14	10	11	8	7	7	11	7	7	9	5	15	4	2	0	0	0	21	1	7

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57 TABLE 3: Putative FliA-dependent promoters in *Xcc* str. ATCC33913.

58	Locus	Seq_id	Gene name	Sequence (5'-3')	Weight
59	NP_635718	XCC0323	hypothetical protein	TCAAGCGTAAGCGCCCAAGTCCGATAA	9.8
60	NP_635745	XCC0350	HD-GYP domain protein	CAAAGAATCCTGCGCGGCTGCCGATAA	11.1
61	NP_635801	XCC0407	GGDEF protein	TCAAGGGCCCTGCACCAACGCCGATAA	12.4
62	NP_636724	XCC1350	hypothetical protein	TACAGTCGGTGACCCCTGTGCCGATAA	11.2
63	NP_636781	XCC1408	hypothetical protein	TAAAGTTCGCCGCGCCGACGCCGATAG	11.3
64	NP_636816	XCC1443	GGDEF protein	TCAACTTTCGCACGCGTCGGCCGATAC	10.6
65	NP_636947	XCC1576	hypothetical protein	TCAAGTCTGCCGATTCTGGCCGACAA	8.7
66	NP_637096	XCC1727	chemotaxis protein McpA	TCAAGGATTCGATCGGTGAGCCGCTAA	9.6
67	NP_637143	XCC1777	GGDEF protein	TCAAGTCGCCGCGCTCGAGGCCGATAT	9.9
68	NP_637235	XCC1870	hypothetical protein	TCAAGTTGAACGGCAGCTAGCCGATAG	10.2
69	NP_637236	XCC1871	chemotaxis protein CheW	TAAAGTTGCCGCCGACGGCCGCGATGT	10.2
70	NP_637248	XCC1883	putative chemotaxis protein	TCAAGCACACCCTCTGCGGCCGATAC	8.2
71	NP_637256	XCC1891	flagellar motor protein MotC	TCAAGTCCGCCCGCCTGGGCCGATAC	8.6
72	NP_637305	XCC1940	flagellar protein FliD	TCAAGTCCTCCCGGATGCGGCCGATAC	8.8
73	NP_637306	XCC1941	flagellin FliC	TAAAGATCTGGCAGTTGCTGCCGAATA	11.3
74	NP_637320	XCC1955	anti-sigma factor FlgM	TAAAGTTTTTTTTCTGGCTGCCGTTAT	16.3
75	NP_637669	XCC2315	chemotaxis protein mcpA	TCAAGCACGTTTTGCTTGCGCCGATAG	9.1
76	NP_638865	XCC3519	GGDEF family protein	TCAAGTTCGCCCCAGACGCCGATGA	11.4
77	NP_638868	XCC3522	chemotaxis protein Tsr	TAAATCGCCGCGTGAAACAGCCGATAT	10.6
78	NP_638892	XCC3546	GGDEF protein	TCAAGACCCTGGCCACCCGGCCGATAA	11
79	NP_638999	XCC3653	flagellar motor protein MotA	TCAAGAATCCGCCCCCGGCCGAAAC	8.2