

1 **Table S1** Oligonucleotides used in this study

2

3 Primer name Sequence (5' to 3')

4

5 For construction a plasmid library of 37 putative *mcp* genes.

6	FLCP01f	ACGTAGAATTCGAATCTGCCAGAAATGCCGTCC
7	FLCP01r	ACGTAGGATCCGATGGGCAATGTGCTGAAGCTG
8	FLCP02f	ACGTACTGCAGCCGAGGTGTTTGGTCGTGATAC
9	FLCP02r	ACGTAGGATCCGTGGCGGTCGAAATAACAGCAG
10	FLCP03f	AAGTGCTGGACGTGATGAAGAAC
11	FLCP03r	ATGAATTCACTGATCCTCGGCCTCGAAC
12	FLCP04f	TAGGATCCCAAATACGCACACCACCTCAAG
13	FLCP04r	ATACTCGAGCGGAAAGACGGGCACAAAC
14	FLCP05f	ATGAATTCGCAGCAGATTGAAATGAAGAAG
15	FLCP05r	TAGGATCCCGTGAGCCGTTGGAGAAAC
16	FLCP06f	TAGGATCCGCAGCCTGTGTACGAAGAAGTG
17	FLCP06r	ATAGTCGACTGATTGTGGTGTCTGGGATTG
18	FLCP07f	TAGGATCCTTTCCGGTGGATAGCACAAAC
19	FLCP07r	ATGAATTCGCAATAAATTCAGGCGCTTACC
20	FLCP08f	ATACTGCAGGGATTGATCGTAGCCGCTTG

21 FLCF08r TAGGATCCCAAGGAAACGGGTGAGAAATAGG

22 FLCF09f TAGGATCCGGATTCTGGCGTAGCCGTAG

23 FLCF09r ATGAATTCGCCAGAGGGTCAAAGGAATG

24 FLCF10f ATTAGATCTGGTCCCGAAGGCATCAATAC

25 FLCF10r ATACTCGAGAGCGATCCGTTTCAGTTGCTC

26 FLCF11f TAGGATCCACGCCGAACTCAACAAACC

27 FLCF11r TATAAGCTTATGCGAAACAGCAGAAACAAC

28 FLCF12f TAGGATCCAATCGAAACGCGGAAGAAAC

29 FLCF12r ATGAATTCTCACCCGCCTCACAACAAG

30 FLCF13f ATGAATTCCGGGCGATTCAACAAACTC

31 FLCF13r TAGGATCCACACAAAGCAAGCGCATCAC

32 FLCF14f TAGGATCCTTCTCCTCGGACTTCCTTTCTC

33 FLCF14r ATGAATTCCATTTCCGGCCTGTTCACCTATC

34 FLCF15f ATGAATTCTAGCCACATCTCCCGCATC

35 FLCF15r TAGGATCCACAACAACAAGGAATACCCATGAAC

36 FLCF16f TAGGATCCGCCAGGGAGGAAATGAACAG

37 FLCF16r ATGAATTCACATTCACGATACAAACCGACAAC

38 FLCF17f ATACAGTTTCACCTCGAAGAACC

39 FLCF17r ATGAATTCCAGAGAGCGATGCACAGAGG

40 FLCF18f ATACTGCAGTCAAAGACCCAGAGGAAATCAAG

41 FLCP18r ATTGGATCCGATACAGAAATCAGGCGCACAC
42 FLCP19f GTGGTTCGAGAGAGACCGATG
43 FLCP19r ATTGAATTCAAGAACTGGCTGAAGAGATGTGG
44 FLCP20f ATTGGATCCTGCTGACCTCCCAACTTCATTAG
45 FLCP20r ATTGAATTCCGCATCGGTGGAAGAAGAG
46 FLCP21f ACGTAGGATCCTCGAGAGATACGCCGACATGAG
47 FLCP21r ACGTAGAATTCGCTGCGATGGTCCTTTAACTCC
48 FLCP22f ATTGAATTCCGCCATAAAGAAAGCCGAAAC
49 FLCP22r ATTGGATCCTGATTTCCGTCATTCCACAAAC
50 FLCP23f ATTGAATTGACCGAAGTGTTGCGTGAAG
51 FLCP23r ATTGGATCCCCCGAGACGATCAACAGAAAC
52 FLCP24f ATAGGTACCGGCTTTGGCTTTCACCACTC
53 FLCP24r TATGAGCTCGCTGCGGTGTTTCAGTTGTCC
54 FLCP25f ATTGGATCCATCAACAGCGTGACCCATCC
55 FLCP25r AACTGCAGAGGTGAAAGCCCATCAGGAC
56 FLCP26f TATGGATCCATCAAACCTCTTACGCCGATG
57 FLCP26r TAACTCGAGCCGAAGGTTGTGTTGAGGTG
58 FLCP27f ATTGGATCCATCCTGGCTTTCCTGCTTC
59 FLCP27r ATTGAATTGCGCCACAATTCACGTCTTACC
60 FLCP28f TAACTCGAGGCGGATTGGTCAGCTCTTG

61 FLCP28r TATGGATCCCGCGCTGTCTATGCTCATTC
62 FLCP29f ATTGGATCCCGATCTATCTGGCGATTGTG
63 FLCP29r TAAGTCGACGAGTGCGGCTTGAATGGAC
64 FLCP30f ACGTAGGATCCAGCTAAAGGTGACAGATGCGAC
65 FLCP30r ACGTACTGCAGGCGTTGATCTCCCTTGGTTGAC
66 FLCP31f ATTGGATCCCTATCCCGCCGAAATCAATC
67 FLCP31r ATTGAATTCCATTCTGCGTTCAAGTTTCC
68 FLCP32f ATTGAATTCACATTCATATCCACCGACAAACC
69 FLCP32r ATTGGATCCGAGACGCCACTGCATGTTC
70 FLCP33f ATTGAATTCTTTAGCAGGGCACCAATCC
71 FLCP33r ATTGGATCCCGGGTTCCTACAGAATCAGACC
72 FLCP34f CCTGATGCACGCAAGGAAC
73 FLCP34r ATAGGATCCCTCCTTCACCTACAACATTGCCTAC
74 FLCP35f TAACTCGAGCAACCGAAGGAGAATGCAATG
75 FLCP35r ATTAGATCTGGGTCGTTAGCTCAGTTGGTAGAG
76 FLCP36f ATTGGATCCGATTCACCCTTGACCCATTC
77 FLCP36r ATTGAATTCGGCGGGTATTGGTGGTAGAG
78 FLCP37f ATTGGATCCAAGATGCACATGACCAACACC
79 FLCP37r ATTGAATTCATCGCTCAAGTATTCGGTTTCAC
80 For construction of unmarked gene deletion mutants

81 NM09Uf TAAGTCGACGCCGCATCGAATGACAAG
82 NM09Ur TATGGATCCCGAAAGCCACCACCACAAAC
83 NM09Df TATGAATTCATGGCGCAGGTATTTGAGCAG
84 NM09Dr TAACTCGAGCGCAGCCTCATCAGAGGTAAG
85 NM21Uf ACGTATCTAGAAACGATCACGGGAGTTAAAGGACC
86 NM21Ur ACGTAGAATTCTTGTGGCGGATATGCCTTGTTTCAG
87 NM21Df ACGTAAAGCTTGGCACTCACTTCATCTAACGAC
88 NM21Dr ACGTATCTAGATCTTGCGTCATACATCGACCTG
89 NMPARUf ATCTTTCTAGATTCCCGTTTCATCGGCAATC
90 NMPARUr AACCAAGAATTCGCGAATCGCACGCAAGAAC
91 NMPARDf CCTACAAGCTTGCTTCAAGGCCTGAAACGAAC
92 NMPARDr CTTGATCTAGACGCCACAGAGCCTTCCTGTC

93

94

95

96 **Figure legends**

97

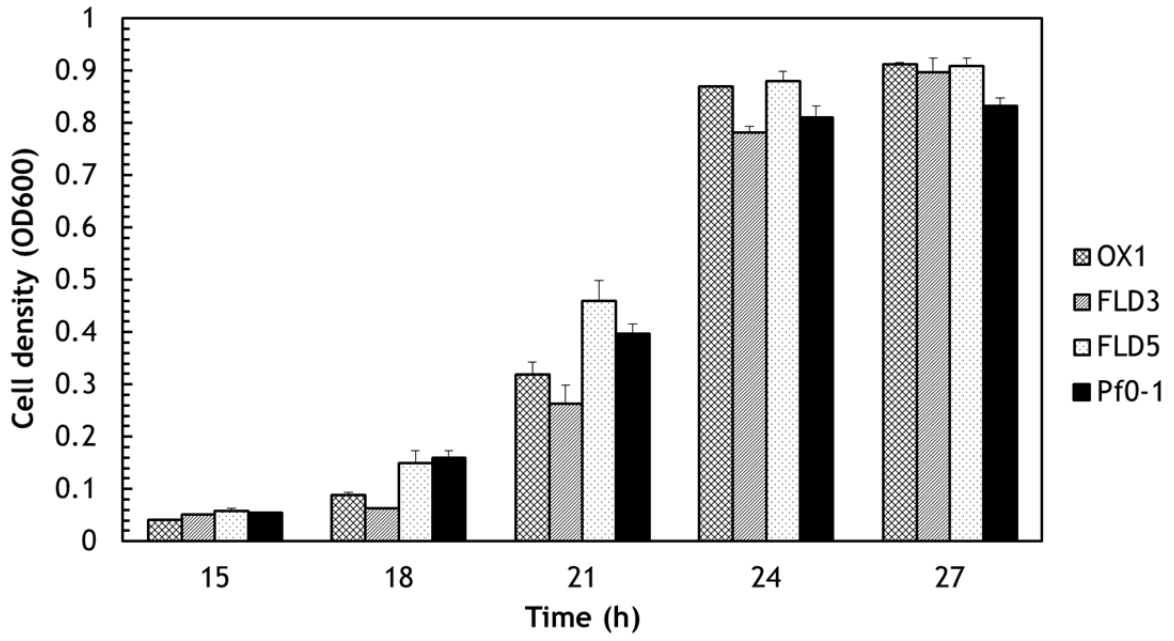
98 **Fig. S1** Growth of *P. fluorescens* Pf0-1 wild-type and mutant in PNS containing

99 glucose (5 g/L). Vertical bars represent the standard errors of measurements done at

100 least two independent experiments conducted in triplicate.

101

102



103

104

Fig. S1

105

106

107

108

109

110

111

112