

Table S1. Comparison and classification of TCSTs in *E. amylovora* and other related enterobacteria

<i>E. amylovora</i> Ea273	<i>P. carotovora</i> SCRI1043 ^a	<i>D. dadantii</i> 3937 ^a	<i>E. coli</i> K12 ^b	HK type ^c	RR type ^d
Metabolic responses					
ArcBA	Eca0314-3893	+	+	IB hybrid	OmpR-like
DcuSR	Eca4398-4399	+	+	II	OmpR-like
NarQP	Eca1900-1901	--	+	III	NarL-like
NtrCB	Eca0027-0028	+	+	IC	NtrC-like
Ion/metal responses					
BaeSR*	Eca3188-3189	+	+	IA	OmpR-like
KdpDE	Eca1338-1339	+	+	IA	OmpR-like
PhoQP	Eca2445-2446	+	+	IA	OmpR-like
PhoRB	Eca1110-1111	+	+	IA	OmpR-like
PmrBA (BasSR)	Eca4044-4045	+	+	IA	OmpR-like
Stress responses					
EnvZ/OmpR	Eca4107-4108	+	+	IA	OmpR-like
CpxA1R1	Eca4311-4312	+	+	IA	OmpR-like
CpxA2R2	Eca0889-0890	+	--	IA	OmpR-like
GrrSA	Eca2882-3571	+	+	IB hybrid	NarL-like
RcsCDB	Eca1201-03-04	+	+	IB hybrid; HPT	NarL-like
Unknown					
RstBA	Eca2012-2013	+	+	IA	OmpR-like
YfhKA	Eca3255-3257	+	+	IA	NtrC-like
YehUT	Eca3353-4152	+	+	IV	LytR-like
T3SS					
HrpXY	Eca2088-2089	+	--	III	NarL-like
TCSTs not present in <i>E. amylovora</i> but in other related enterobacteria					
CitAB	Eca2577-2578	+	+	II	NA
NarXL	Eca2028-2029	+	+	III	NarL-like
UhpBA	Eca1496-1497	+	+	III	NarL-like
YpdAB	Eca2431-2432	+	+	NA	NA
CusRS	--	+	+	IA	OmpR-like
QseCB	Eca0007-0008	--	+	NA	NA
One HK/RR	Eca0785-0786	--	--	NA	NA
7 HKs/RRs ^a	--	+	--	NA	NA
5 HKs/RRs ^b	--	--	+	NA	NA

^a Data for *Dickeya dadantii* (*Erwinia chrysanthemi*) 3937 and *Pectobacterium* (*Erwinia*) *carotovora* subsp. *atroseptica* SCRI1043 see Yap *et al.*, 2008. Seven HKs and RRs only in *D. dadantii* are TctE/D; ABF-0016854/16853; 19562/46568/14657; 15830/15831; 15809/15810; 16068/16069; 14915/14914. Two sets of CheABRWYZ exist in *E. amylovora*, but only one set in other related enterobacteria. +: present; ---: absent.

^b Data for *E. coli* K12 see Kim and Forst, 2001. Five HKs and RRs only in *E. coli* are AtoS/C; TorS/R; CopS/R; EvgS/A and CreC/B. +: present; ---: absent.

^{cd} HK families see Kim and Forst, 2001. RRs see Galperin, 2006. NA: not analyzed.

Table S2. Primers used in this study

Primer	Sequences (5'—3') ^a
B0089F	GTGTCCCCCTGGTGCCTTCGAAAGTCGCCTGTATAAGGACGTTTACCGG GCGATTGTGTAGGCTGGAGCT
B0089R	TCAGCGCTCTTCCAGCCGGTAACCCACGCCGCTACCGTTTTAATCCGAT ATTCCGGGGATCCGTCGACC
B0090F	ATGAACAGTATGCGCAGGCGTTTGCTGGTGATGCTGGCGCTGATCGTGCT GCGATTGTGTAGGCTGGAGCT
B0090R	CTAACCCAGCTGCTTTGGCAGCCAGCAGCAGACATCCAGGCCACAGCAAT ATTCCGGGGATCCGTCGACC
B0117F	ATGAAGCAAATTCGTTTGTAGCGCAGTACTACGTTGATTTAATGGTAAA GCGATTGTGTAGGCTGGAGCT
B0117R	TCATTTTTTTTCAGCGTCTGTTACCCATTGCCGTA AAACTTCCATATCAT ATTCCGGGGATCCGTCGACC
B0270F	ATGAGGCGGCTCCGCTTCTCTCCCCGTAGTTCATTTGCGCGTACGCTGTT GCGATTGTGTAGGCTGGAGCT
B0270R	TTATGCCACCGGGCCGGCCGCAAGCTGGCTGGCGGCAGCGGCAGATAAG ATTCCGGGGATCCGTCGACC
B0271F	ATGAAAGATAAGCTGCTGTTTAATATGCTTTGTAACAATTTCCGGCTACAA GCGATTGTGTAGGCTGGAGCT
B0271R	TCATGCTTTGCTGCCGTCCGGGACAAAGACATAACCCAAACCCAGACGG ATTCCGGGGATCCGTCGACC
B0355F	TTGCAAGCATTGTAAAGCCGAAGCATGAACGTATCTGGCTGGTGGCATC GCGATTGTGTAGGCTGGAGCT
B0355R	CTAAGCATTCTGCTGATCTTTCCACTGCATCAGCGCAGCGCTCGACATGG ATTCCGGGGATCCGTCGACC
B0414F	ATGAACGACGAACTCCAGCGCCCCAATCCGGATGCGCTGCTACGCCAGGC GCGATTGTGTAGGCTGGAGCT
B0414R	CTACATTGGCGTGTAATCTTCCAACAGCGGTGGTGCCGTTAGCGGCAGAG ATTCCGGGGATCCGTCGACC
B0686F	ATGATATCCAGCCTGACCACCCGTATCTTTGCCATCTTCTGGCTTACTTT GCGATTGTGTAGGCTGGAGCT
B0686R	TTATTGCTGTGAGTGGTATACAGCGGCAGCCATATTGTCAGGCGCAAAC ATTCCGGGGATCCGTCGACC
B0687F	ATGAATAAGATCTTATTGGTTGACGACGACCGCAATTGACTTCGCTACT GCGATTGTGTAGGCTGGAGCT
B0687R	TCATGTTGCCGATACCATCAGGTATCCCCGGCCTCGCAAGGTTTTAAACC ATTCCGGGGATCCGTCGACC
B0955F	ATGAATGAAGACTCAGATGTTGTGTACCAGCTTTTGGCAAGAAGCGAGGG GCGATTGTGTAGGCTGGAGCT
B0955R	CTAAAATTCTTTGAGGCGGCGCTCCGGCGGCTGCGGGCGGCCAAAATAAT ATTCCGGGGATCCGTCGACC
B1215F	ATGAATTTGCAAAGCTACGATGAGTTACTGGACAGCAAGCAACGGCTGTC GCGATTGTGTAGGCTGGAGCT
B1215R	TTATACGATATCTGCAGGTTTACCGAGCGGCATTTTTGCCGCGTCCTGAA ATTCCGGGGATCCGTCGACC
B1250F	ATGTCACATCAGGATAACAGCCAGGGGATGCCGAATGCATTACCGGTTGG GCGATTGTGTAGGCTGGAGCT
B1250R	TTAGCTTTGCGGATTTAACAACCACGCACCTTCATGTTTCGATGGTGATGG ATTCCGGGGATCCGTCGACC
B1306F	GTGACCTCCATATTGGGTGCCAGGCCGTTGTTGAAGGTACAGGGATGCCG GCGATTGTGTAGGCTGGAGCT
B1306R	TCAGTCCTGTAATTCACCACAGAAACGGTAACCTTCGCCGTGAATGGTGG ATTCCGGGGATCCGTCGACC

B1675F ATGGCAAAGCGCATTCTTGTGGTCTGAAGATGAAGCCCCAATCCGTGAGAT
GCGATTGTGTAGGCTGGAGCT
B1675R TCAATAACGTGCAGAGAAACGATAACCTGTTCCGCGAACCGTCTGCACCA
ATTCCGGGGATCCGTCGACC
B1676F GTGTTGGAACGCCTCTCTGGAAGAGATTACTGTTTGAGCTGCTGCTTGC
GCGATTGTGTAGGCTGGAGCT
B1676R TTAAGGCCGCATGCAGCCGCCGGTTCAGCACCCACAATCATCTGAGCG
ATTCCGGGGATCCGTCGACC
B1912F TTGACCGACCGGCGAGGTATTGTGACCACCATTTTGATTGTTGAAGATGA
GCGATTGTGTAGGCTGGAGCT
B1912R TTATGGCATAAAGCGATATCCAACGCCGGTTCGGTGAGAAGATGCTGCG
ATTCCGGGGATCCGTCGACC
B2074F ATGCATATGGTTTCACTGGTCGCCGGATCTCGACGTGCTACGACGTTG
GCGATTGTGTAGGCTGGAGCT
B2074R TTAATGCAGCAGGGAATGGTGGTTATCATTGGAGGTCGTTCTTCATCTT
ATTCCGGGGATCCGTCGACC
B2194F TTGATGACATCTGAAAACATTTTCATTTGGCGAGCAGATATCAAATCAGC
GCGATTGTGTAGGCTGGAGCT
B2194R TCAGATTA AACCGATTGCTGCTGCATAGGAGGCAATTTGAGTTTTGTTAG
ATTCCGGGGATCCGTCGACC
B2195F TTGCAAGGTGGTTGTCTAACCTGCGCCCAAAGTCATACAGCTGCTCAAAC
GCGATTGTGTAGGCTGGAGCT
B2195R TTAATCTTTATGGCGTCCACGCAGCCCAAATTTGGCGGAGACGCCGAATG
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B2198F TTGATTAGCGTTTTTCTTGTGATGACCATGAGCTGGTGCGCGCAGGTAT
GCGATTGTGTAGGCTGGAGCT
B2198R TTAATCTTTATGGCGTCCACGCAGCCCAAATTTGGCGGAGACGCCGAATG
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B2323F ATGTGTAATTCACGTTTTTCGCCGTATAAAAACCCTTTTTCGTTACGCATCCG
GCGATTGTGTAGGCTGGAGCT
B2323R TTAATCTTTATGGCGTCCACGCAGCCCAAATTTGGCGGAGACGCCGAATG
ATTCCGGGGATCCGTCGACC
B2324F ATGCGTGTGTAGTTGTGGAAGATAATCCACTGCTGCGTCATCATTGGC
GCGATTGTGTAGGCTGGAGCT
B2324R TCAGAGATCGAAGCGGTAACCCTGACCGCGCACCGTAGTGATCACTTCCT
ATTCCGGGGATCCGTCGACC
B2361F ATGATCAATGTTTTAATCGTCGATGATGATGCGATGGTGGCAGAACTTAA
GCGATTGTGTAGGCTGGAGCT
B2361R TCACTGGCAGAACCGCTTAAGCAGAATGCTGCGTTCTGCCTGAAGACGGT
ATTCCGGGGATCCGTCGACC
B2362F TTGCCTGCCCCATTGCGCGCTACAGGAGTCAATATTGAAACGGCTCAGCC
GCGATTGTGTAGGCTGGAGCT
B2362R TCATGCTTTTTTGAGCTCTCCATCCCAGGGCAGTTGTACAAAAAATTGCG
ATTCCGGGGATCCGTCGACC
B2651F TTGCTAACCCATATATTTGGTTCTATGAACAAAATTGTATTCGTTGAAGA
GCGATTGTGTAGGCTGGAGCT
B2651R TCATGACGCATCCCAGGCATGAGGGGCAAACAGGTAGCCCTTGTCTTCTGA
ATTCCGGGGATCCGTCGACC
B2662F ATGAGGAAGCTGTTTGTCCAGTTTTACCTGCTGCTGTTTCGTTTCTTCT
GCGATTGTGTAGGCTGGAGCT
B2662R TTAGTTGAGCGCAGCAGGCCAGCAAAAACGTATGCTGGCACCGCCAGTG
ATTCCGGGGATCCGTCGACC
B2946F ATGGGTACATCAGAATACTCAAACAAATTTACGACATCAATTTGTCTTA
GCGATTGTGTAGGCTGGAGCT
B2946R TTAGCTGGCTGCCCTTTTTTTCGGCGTCTCTTGTTCCTTTCGTCACGTTAC
ATTCCGGGGATCCGTCGACC

B2986F GTGAACGATCTGTATACCGCCAATGGCGTGATGGACAAACATTCGCTGTG
GCGATTGTGTAGGCTGGAGCT
B2986R TCAGCGCGCTCCCGATAACCTGGCGCGCAGGCGTTTTATCGCCTGACTGT
ATTCCGGGGATCCGTCGACC
B3113F ATGTCGACAGATAAATTCAAGACCGTTGCTGCAACTGCGCTCGCTCTGTCT
GCGATTGTGTAGGCTGGAGCT
B3113R TCAGTACACGGAAAGCCGACCGCGCCCGCTGTGTTTGGCGTGATAACAGG
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B3119F ATGTTGGCAAAAATCCGTATCGGCATTACCGCCAAGCTGTTCCGCCCAT
GCGATTGTGTAGGCTGGAGCT
B3119R TCAATGTGCCTGATACGGTAAAGTGTATCGTAATTCTCACGCCTCCGGCAG
ATTCCGGGGATCCGTCGACC
B3120F TTGACCCGGGCTGACGAAATGAACCAGATCCCCGCCACTCCACTGATTTT
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B3120R CTAGATCAGACGACAGCCATCTGCTTCCCAGCGATAGCCGATGCCGTACA
ATTCCGGGGATCCGTCGACC
B3205F ATGTTGCCATATAAATTTCCGCTAACTTCCGGCAATGTAACACGATTTTT
GCGATTGTGTAGGCTGGAGCT
B3205R TTATTGGTTACCTTGCTGCAGGAGATCTTTGACATAAGTGTCAACTTCAC
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B3206F GTGAAGTTGACACTTATGTCAAAGATCTCCTGCAGCAAGGTAACCAATAA
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B3206R TTATTTATCTACCGCGTCATGCTTACTGATGACAGGTAGTTAAGCAAAG
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B3207F ATGGCCGGGATAACTGGCTTTTTCTGCCTCCCGGCGCTACTGTATCGGCA
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B3207R TTACCGCAACCTGTTACTTAGCGCTTCCCGGCTCTTTCTTACCCGCCCG
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B3327F ATGAAAAGAACCTATCTGTATGTCGTTATCCTTGCACTTGTTTTTACAGT
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B3327R CTATGCAGGTTCTACAGCAACGCGCACCAGGAATGTTGACCCCATATTCA
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B3367F ATGAAATCGGGCTTACGTGGCTTCTGTTCTGGAAGATCCTGCTGGGATT
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B3367R TCAACCGCCCGACTCAATCTCCCAGTGCGGCAGACGAATTGTCAGCTCCA
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B3368F TTGTTATACTGTAAGGATTGGGTAAAAGCGGCTGCGCATTATCCATTAAC
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B3368R TCATCGGATCCGGTAACCGATACTGCGCACCGTTTCGATAGCAATGGTGT
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B3389F ATGATCATGACCAGGAAATATGCCAATGTCAGGCAGGCTAACCGTCGTCT
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B3389R TTAAATGACCTCGGTTCATCGCGGTAAAGTTCAGAGATACGCAGGTACCTC
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B3390F ATGGAAGCACAAAAGTACAGCGTATTAATTGTGGACGATCATCCATTGTT
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B3390R TTAGCGACAGAATTCCAGCCAGAGTACGGTTGCCGCCACACGCGATCTGA
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B3495F ATGATCAAAGCATCAGCGCGACTGCTGCTGGTTCGATGATGACCCAGTTT
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B3495R TTATCCTTTGAAATCGGCCGCATCGAGTTCATGGCGAGACAACAGTTTAT
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B3498F GTGAAGAAATGGCGTCTGTTTTCCCTGTTCCCTGCGCCAGCTGGTGCTGAT
GCGATTGTGTAGGCTGGAGCT
B3498R TTAGCTGCATGATTCTCCTTTGCCGGCGGGAGTATTAATTCAATACGGA
ATTCCGGGGATCCGTCGACC
B3742F ATGACCAAATACAGCCTGCGGGCACGCATGATGATTTTGATTCTGGCACC
GCGATTGTGTAGGCTGGAGCT
B3742R TTACAGCTTCAGCCGCTCTTTGGCCAGTCGTGCCACGTTATGCATTTGCTC
CATGGTCCATATGAATATCCTCC
B3962F ATGAACATCAGGAATAGTGAACACTCGTCCCGGCCATGGCCGGGACGGAG
GCGATTGTGTAGGCTGGAGCT
B3962R CTA CTGAGCAATAACCCGACCGGTGTTACGTTCAATAATTTGATGCGGT
ATTCCGGGGATCCGTCGACC
B3963F ATGGATAAAAATATTCGCCTGATGGTAGCGGACGACCATGTCATCATGCG
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B3963R CTAAGTTATCAGGCAATGACTAATGGCGTATTTACGATGTCCGCATTGG
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B3964R TTATTCATAAATCTGCTTATTTTCATAAGCTTGTACAATAGGAATGGTTA
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B3995F ATGTTTCAGCGTATTGATTGTGCGATGACGAGCCGCTGGCCCGCGACAATCT
GCGATTGTGTAGGCTGGAGCT
B3995R TTATAGCCCGATGGCCTCCTTCAGGCTTTTCAGGTAGCGACGGCTCACCG
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Z1215F CGGCTGTCGTTGATGCTGTTTCT
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Z1250F CAGCAGGGCGAATTCAGTGTC
Z1250R CGGCAGCTGCACGGTGATACGAT
Z1306F GCTGCGCGGTGCCAACA
Z1306R CCGTGCCGATTATGCCGTGGAG
Z1675F TGTACCCGCAGCAGGAGCAATAA
Z1676R GCCATCAGGTTGCCAAGCGTATC
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Z1912R TGCCGATCACCGCGAGAAAATAG
Z2074F GAAAGTCAGCGCAGCACAGGATG
Z2074R CTGGAAAGCCCCGGACTAAAA
Z2194F CGGGCGTGCACAGGTCGTA
Z2195R GGCGGCAGTAGTGGTGTTGATAGC
Z2198F TTACCCGTTATTTGCAGTTGTTCCG
Z2198R TGGGTTACCGTCACGTCTATCTGC
Z2323F CGTACTCAGGAAGTGCGTCA
Z2323R ACCCTTTGTAACGCGCTTGCTGTC
Z2324F AAGCAAATGACGCCGGCAAACACTAC
Z2324R CCATTTAGCCAGGGTGAAAA

Z2361R TCGGAAAGGGCCTGGAAACAC
Z2362F ACACTGACCTGGCCCCACCTACTT
Z2651F CTGACAGCCGCGATGCCGTAAC
Z2651R GCTGTGGGTGGAAAATGGCTAAAA
Z2662F GTACCAGACGCGCCACACCTATG
Z2662R GCGAGCCGGCAATGGACTTAGC
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Z271F CGTGGTTATGCCGCTATTGTGTTG
Z2946F CAGCAACCAGGTAGCGGTAT
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Z2986F CCGCTATTCCCTCAATCAAA
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Z3113F CAGATTGCCGGCATTGAACACG
Z3113R GCAGGCCACGCAAGCAACAGC
Z3119F CGCTGCCACCACGCCCAATG
Z3120R GCAGCGGCCGGAGAAAGCAGTG
Z3205F GCCAACGCCCGACTGATTACAAG
Z3206R GCCGGGAAGCGCTAAGTAACAGGT
Z3207F GTTCGCCGCTAAGCCGTGGTCA
Z3207R GAGAAAATCAGCGCGGGTGGTTAC
Z3324F CTGTCCTTTTGCTGTCTGGCTTCC
Z3324R CCGCCACCTTGATTGATGTCTTCC
Z3327F AACCAACTTCACGCCACAGAGCAT
Z3327R GGAGGGCGGCGAACTGTGAA
Z3367R CGTTGCCGGCGCCTGACCTGTA
Z3368F TGTGACCGTGGTGACCGCTACTTA
Z3389F GCCCCGGACGTTCTTACCA
Z3390R GCCCCTGTCCCTCGCTCACCATC
Z3495R TCTGGCGACCGAATCCTTTGACTT
Z3498F CGGACAAGCGCCATAACATTC
Z355F CGCTGCGGTCTGTTCGTTTCG
Z355R ACCGTGCACGCGAGTAAAACCATC
Z3742F CGTTATTGTCTGGCGGGTCGTAC
Z3742R CGTTACAGGAAGCAGCGGAGAATG
Z3962F TCCCTACATTGCCCCCTGAAGATT
Z3962R TGATAACCGGCGACAGCACATTC
Z3963R AGGAATCTTCAGGGGGCAATGTAG
Z3964F TGCCGTCTGGACACTGCCTCAA
Z3995R CCTTTGCTGGCGGTGTTTTGCTAC
Z3996F GATCGCCGCTGTCAGGGTATGTTG
Z414F GTGAACGTGCTGGCGCTGAACCT
Z414R CGCTACCCGCCACTTATGCTCA
Z686R TTGCCGCGAATTCGTGATAGTCC
Z687F GTTACTTTGCGCATCGTTCACTCC
Z89F CGCGTTGCTTTTCGTACAGTTCT

Z90R	GCAGCCAGAAGCGGAAGAAGACG
Z955F	ATGAGGTGATCGATGCCGTTTTTG
Z955R	CCTTCTCAAACCAGCAGCGTCGTG
Km1	CAGTCATAGCCGAATAGCCT
Km2	CGGTGCCCTGAATGAACTGC
Cm1	TTATACGCAAGGCGACAAGG
Cm2	GATCTTCCGTCACAGGTAGG
ZR-F	CTAG <u>GTCTAGA</u> AATCCTGCTGCGGTGAGTAGT (XbaI)
ZR-R	CCC <u>AAGCTT</u> CGGCGTTTTATCACCAACTT (Hind III)
grrS-F	CTAG <u>GTCTAGA</u> CGTTATTGTCTGGCGGGTTCGTCAC (XbaI)
grrS-R	CCG <u>GAATTC</u> CGTTACAGGAAGCAGCGGAGAATG (EcoRI)
grrA-F	TTAAGCATCAGCGTGACCAG
grrA-R	GTATTCGCCTTTGGCATGTT
flhD-F	CCG <u>GAATTC</u> CAAGGCTGAAATTTCCCAA (EcoRI)
flhD-R	CGC <u>GGATCC</u> CAGAGCCAGAAGTCAGGCAGA (BamHI)
fliA-F	CCG <u>GAATTC</u> TAAAGCACGTCTGTGGCATC (EcoRI)
fliA-R	CGC <u>GGATCC</u> ACTCTCCAGGGGAACATCT (BamHI)
amsG1	CG <u>GGTACC</u> GTATCGCTTAAAGGGGAAACG (KpnI)
amsG2	CTAG <u>GTCTAG</u> ACACCTGGAAAGCCATTAATCA (XbaI)

^a Underlined nucleotides are restriction sites added and the restriction enzymes are indicated at the end of primers.

References

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3. Galperin MY: **Structural classification of bacterial response regulators: Diversity of output domains and domain combinations.** *J Bacteriol* 2006, **188**:4169-4182.