

Table S1A

<i>Vibrio</i> spp. strains	NCBI reference sequence	Integrase gene position	Integrase gene length (bps)
<i>Aliivibrio salmonicida</i> LFI1238	NC_011312 NC_011313	593499-594482	984_reverse
<i>Vibrio alginolyticus</i> ATCC 17749	NC_022349 NC_022359	1009839-1010801	963_forward
<i>Vibrio cholerae</i> El Tor strain N16961	NC_002505 NC_002506	309750-310712	963_reverse
<i>Vibrio fischerii</i> MJ11	NC_011184 NC_011186	817245-818228	984_forward
<i>Vibrio parahaemolyticus</i> RIMD 2210633	NC_004603 NC_004605	1948281-1949243	963_forward
<i>Vibrio rotiferianus</i> DAT722	NZ_AFAJ000000000 NZ_AJZL000000000	2363443-2364405	936_reverse
<i>Vibrio vulnificus</i> CMCP6	NC_004459 NC_004460	2438314-2439276	963_reverse

Table S1B

Basic strains*		
Strain number	Relevant <i>Escherichia coli</i> genotypes and description	References
ω9420	III DH5α Δ <i>thyA::erm-pir116</i>) [Erm ^R]	<i>Demarre et al, 2005</i>
ω8486	MG1655 Δ <i>dapA recA269::tn10</i> [Tc ^R]	<i>Loot et al, 2014</i>
ω8488	ω8486 transformed with p3153 [Tc ^R , Carb ^R]	<i>Loot et al, 2014</i>

Strain number	Relevant <i>Vibrio cholerae</i> genotype and description	References
ω8637	N16961 [Str ^R]	Heidelberg <i>et al</i> , 2000

Derivative MG1655Δ <i>dapA</i> <i>recA269::tn10</i> strains*,**			
Cassette description	Plasmid number	Strain number (inserted plasmid)	Strain number (inserted plasmid+ pBAD <i>intII</i>)
<i>attC_{aadA7}-60bp-attC_{ereA2}</i> (attP+)	pB322	C188	C448
<i>attC_{aadA7}-60+400bplacZ-attC_{ereA2}</i> (attP+)	pB429	C189	C316
<i>attC_{aadA7}-60+750bplacZ-attC_{ereA2}</i> (attP+)	pB254	D004	D066
<i>attC_{aadA7}-60+1500bplacZ-attC_{ereA2}</i> (attP+)	pB255	B552	C480
<i>attC_{aadA7}-60+3000bplacZ-attC_{ereA2}</i> (attP+)	pB321	E109	E156
<i>attC_{aadA7}-60bp-attC_{ereA2}</i> (attP-)	pB256	C186	C318
<i>attC_{aadA7}-60+400bplacZ-attC_{ereA2}</i> (attP-)	pB428	B548	C319
<i>attC_{aadA7}-60+750bplacZ-attC_{ereA2}</i> (attP-)	pB257	D005	D067
<i>attC_{aadA7}-60+1500bplacZ-attC_{ereA2}</i> (attP-)	pB253	E108	E154
<i>attC_{aadA7}-60+3000bplacZ-attC_{ereA2}</i> (attP-)	pB252	B550	C437
<i>attC_{aadA7}-60+750bphubP-attC_{ereA2}</i> (attP+)	pE511	E906	F299
<i>attC_{aadA7}-60+1500bphubP-attC_{ereA2}</i> (attP+)	pE512	F052	F300
<i>attC_{aadA7}-60+3000bphubP-attC_{ereA2}</i> (attP+)	pE513	E908	F301
<i>attC_{aadA7}-60bp-VCR₁₂₆</i> (attP+)	pA621	D098	D115

<i>attC_{aadA7}-60+400bplacZ-VCR₁₂₆</i> (attP+)	pB332	E288	E297
<i>attC_{aadA7}-60+750bplacZ-VCR₁₂₆</i> (attP+)	pA696	E291	E300
<i>attC_{aadA7}-60+1500bplacZ-VCR₁₂₆</i> (attP+)	pA703	B547	C449
<i>attC_{aadA7}-60+3000bplacZ-VCR₁₂₆</i> (attP+)	pA705	C185	C310
<i>attC_{aadA7}-60bp-VCR₁₂₆</i> (attP-)	pA672	E189	E310
<i>attC_{aadA7}-60+400bplacZ-VCR₁₂₆</i> (attP-)	pB331	B541	C312
<i>attC_{aadA7}-60+750bplacZ-VCR₁₂₆</i> (attP-)	pA669	E195	E316
<i>attC_{aadA7}-60+1500bplacZ-VCR₁₂₆</i> (attP-)	pA675	E187	E308
<i>attC_{aadA7}-60+3000bplacZ-VCR₁₂₆</i> (attP-)	pA670	B544	C315
<i>attC_{aadA7}-60+750bphubP-VCR₁₂₆</i> (attP+)	pE507	E902	F302
<i>attC_{aadA7}-60+1500bphubP-VCR₁₂₆</i> (attP+)	pE508	E903	F303
<i>attC_{aadA7}-60+3000bphubP-VCR₁₂₆</i> (attP+)	pE509	E904	F304
<i>attC_{aadA7}-60+750bphubP-VCR₁₂₆</i> (attP-)	pE503	E898	F305
<i>attC_{aadA7}-60+1500bphubP-VCR₁₂₆</i> (attP-)	pE504	E899	F306
<i>attC_{aadA7}-60+3000bphubP-VCR₁₂₆</i> (attP-)	pE505	F045	F307
VCR _{16*} -60bp-VCR ₆₄ (attP+)	pA702	D087	D107
VCR _{16*} -60+400bplacZ-VCR ₆₄ (attP+)	pB328	D090	D110
VCR _{16*} -60+750bplacZ-VCR ₆₄ (attP+)	pA717	D088	D108
VCR _{16*} -60+1500bplacZ-VCR ₆₄ (attP+)	pA701	D094	D114
VCR _{16*} -60+3000bplacZ-VCR ₆₄ (attP+)	pA697	D093	D113
VCR _{16*} -60bp-VCR ₆₄ (attP-)	pA671	D086	D106
VCR _{16*} -60+400bplacZ-VCR ₆₄ (attP-)	pB327	D089	D109
VCR _{16*} -60+750bplacZ-VCR ₆₄ (attP-)	pA667	D085	D105

VCR _{16*} -60+ 1500bplacZ -VCR ₆₄ (attP-)	pA673	D092	D112
VCR _{16*} -60+ 3000bplacZ -VCR ₆₄ (attP-)	pA663	D091	D111
VCR _{126*} -60bp-VCR _{126**} (attP+)	pE894	F059	F294
VCR _{126*} -60+ 400bplacZ -VCR _{126**} (attP+)	pE978	F060	F295
VCR _{126*} -60+ 750bplacZ -VCR _{126**} (attP+)	pF308	F155	F296
VCR _{126*} -60+ 1500bplacZ -VCR _{126**} (attP+)	pE980	F062	F297
VCR _{126*} -60+ 3000bplacZ -VCR _{126**} (attP+)	pE922	F063	F298
VCR _{126*} -60bp-VCR _{126**} (attP-)	pE893	F054	F289
VCR _{126*} -60+ 400bplacZ -VCR _{126**} (attP-)	pE975	F055	F290
VCR _{126*} -60+ 750bplacZ -VCR _{126**} (attP-)	pF309	F156	F291
VCR _{126*} -60+ 1500bplacZ -VCR _{126**} (attP-)	pE977	F057	F292
VCR _{126*} -60+ 3000bplacZ -VCR _{126**} (attP-)	pE921	F058	F293

**Escherichia coli* and *Vibrio cholerae* strains were grown in Luria Bertani (LB) broth at 37°C or 30°C (when specified). Antibiotics were used at the following concentrations: carbenicillin (Carb), 100 µg/ml, spectinomycin (Sp), 40 µg/ml, erythromycin (Erm), 200 µg/ml, tetracyclin (Tet), 15 µg/ml, streptomycin (Str), 200 µg/ml, kanamycin (Kan), 25 µg/ml, Thymidine (Thy) and diaminopimelic acid (DAP) were supplemented when necessary to a final concentration of 0.3mM. To induce the P_{bad} promoter, L-arabinose (Ara) was added to a final concentration of 2mg/ml; to repress it, glucose (Glc) was added to a final concentration of 10mg/ml. To induce the P_{lac} promoter, isopropyl-β-D-thiogalactopyranoside (IPTG) was added to a final concentration of 200µg/ml.

**All the constructed pSW derivative plasmids were inserted into the λ attB site of the ω8488

chromosome through lambda recombination mediated by plasmid pTSA29-CXI (p3153, Carb^R, Valens & al., 2004). By inverting the *attP* site on the pSW plasmid, we inserted plasmids in both orientations: attP⁻ corresponding to the bottom strand of *attC* sites carried by the lagging strand template, and attP⁺ to the bottom strand carried by the leading strand template. We confirmed plasmid insertions by performing PCR reactions with o1897/o1898 (presence of a monomeric inserted plasmid) and o361/o3725 (plasmid insertion in *attB* site) primers. We performed all the experiments in *recA* deleted strains to avoid homologous recombination between the *lacZ* fragment in the synthetic cassettes and the endogenous *lacZ* gene, as well as between *attC* sites having high degree of identity (i.e: VCR sites).

Table S1C

Plasmids used in this study*		
Plasmid name and description	Plasmid number	References
pBADIntI1, ori _{ColE1} , [Carb ^R]	p3938	Demarre <i>et al</i> , 2007
pTSA29-CXI, ori _{pSC101} , [Carb ^R]	p3153	Valens <i>et al</i> , 2004
pSW23T, ori _{R6K} , [Sp ^R]	p7988	Laboratory collection
pSU38Δ:: <i>lacZ</i> :: <i>attC</i> _{aadA7-catT4t} -VCR ₂ , <i>ori</i> _{p15A} , [Kan] ^R	p1372	Demarre <i>et al</i> , 2007
pRS551, ori _{pMB1} , [Carb ^R , Kan ^R]	p923	Simons <i>et al</i> , 1987
pSWattI- <i>attC</i> _{aadA7-dapA} , [Cm ^R]	p7923	Baharoglu <i>et al</i> , 2010
pMA-VCR _{126*} -term, ori _{ColE1} , [Carb ^R]	p8208	VCR _{126*} -term GeneArt fragment (see Table III) in pMA plasmid

pTOPO-VCR _{16*} -VCR ₆₄ , ori _{PUC} , [Kan ^R]	pE884	VCR_{16*}-VCR₆₄ gBlocks[®] Gene Fragment from Integrated DNA Technologies (see Table III) in pCR[™]-Blunt II-TOPO^R (Invitrogen)
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Derivative pSW plasmids constructed in this study		
Plasmid name and description	Plasmid number	Relevant properties and construction
pSW23T, ori _{R6K} , [Sp ^R]		
pSWattC _{aadA7} -VCR ₁₂₆ (attP+)	p8146	Plac-attC_{aadA7} fragment (amplification of p1372 using o299 and o845 followed by EcoRI/BamHI digestion) and VCR₁₂₆ fragment (annealing between o876, o877, o878 and o879) in EcoRI/XmaI digested p7988
pSWattC _{aadA7} -VCR _{126**} (attP+)	p8159	attC_{aadA7} fragment (p8146 digested by EcoRI/BglII) and VCR_{126**} fragment (annealing between o885 and o886) in EcoRI/XmaI digested p7988
pSWattC _{aadA7} -60bp-VCR ₁₂₆ (attP+)	p8161	Terminator fragment (annealing between o883 and o884) in BamHI digested p8146
pSWVCR _{126*} -60bp-VCR _{126**} (attP+)	p8241	VCR_{126*-term} fragment (XbaI/BglII digested p8208) in XbaI/BamHI digested p8159
pSWattC _{aadA7} -60bp-VCR ₁₂₆ (attP-)	p8257	Inversion of the attP region of p8161 by SacI

		digestion
pSWVCR _{126*} -60bp-VCR _{126**} (attP-)	p8256	Inversion of the attP region of p8241 by SacI digestion
pSWattC _{aadA7} -60+ 3000bplacZ -VCR ₁₂₆ (attP+)	p8238	3000bplacZ fragment (PCR fragment (o863 and o864) from p923)) in BamHI digested p8161
pSWVCR _{126*} -60+ 3000bplacZ -VCR _{126**} (attP+)	p8265	3000bplacZ fragment in BamHI digested p8241
pSWattC _{aadA7} -60+ 3000bplacZ -VCR ₁₂₆ (attP-)	p8300	3000bplacZ fragment in BamHI digested p8257
pSWVCR _{126*} -60+ 3000bplacZ -VCR _{126**} (attP-)	p8298	3000bplacZ fragment in BamHI digested p8256
pSWattC _{aadA7} -60+ 750bplacZ -VCR ₁₂₆ (attP+)	p8255	750bplacZ fragment (PCR fragment (o863 and o868) from p923)) in BamHI/NheI digested p8238
pSWVCR _{126*} -60+ 750bplacZ -VCR _{126**} (attP+)	p8338	750bplacZ fragment in BamHI/NheI digested p8265
pSWattC _{aadA7} -60+ 750bplacZ -VCR ₁₂₆ (attP-)	p8341	750bplacZ fragment in BamHI/NheI digested p8300
pSWVCR _{126*} -60+ 750bplacZ -VCR _{126**} (attP-)	p8339	750bplacZ fragment in BamHI/NheI digested p8298
pSWattC _{aadA7} -60bp-VCR ₁₂₆ (attP+)	p9935	dapA fragment (PCR fragment (o1069 and 1070) from p7923) in SmaI/PstI digested p8161
pSWVCR _{126*} -60bp-VCR _{126**} (attP+)	p9936	dapA fragment in SmaI/PstI digested p8241

pSWattC _{aadA7-60bp-VCR₁₂₆} (attP-)	p9938	<i>dapA</i> fragment in SmaI/PstI digested p8257
pSWVCR _{126*-60bp-VCR_{126**}} (attP-)	p9937	<i>dapA</i> fragment in SmaI/PstI digested p8256
pSWattC _{aadA7-60+3000bplacZ-VCR₁₂₆} (attP+)	p8456	<i>dapA</i> fragment in SmaI/PstI digested p8238
pSWVCR _{126*-60+3000bplacZ-VCR_{126**}} (attP+)	p8459	<i>dapA</i> fragment in SmaI/PstI digested p8265
pSWattC _{aadA7-60+3000bplacZ-VCR₁₂₆} (attP-)	p8469	<i>dapA</i> fragment in SmaI/PstI digested p8300
pSWVCR _{126*-60+3000bplacZ-VCR_{126**}} (attP-)	p8467	<i>dapA</i> fragment in SmaI/PstI digested p8298
pSWattC _{aadA7-60+750bplacZ-VCR₁₂₆} (attP+)	p8458	<i>dapA</i> fragment in SmaI/PstI digested p8255
pSWVCR _{126*-60+750bplacZ-VCR_{126**}} (attP+)	p8460	<i>dapA</i> fragment in SmaI/PstI digested p8338
pSWattC _{aadA7-60+750bplacZ-VCR₁₂₆} (attP-)	p8463	<i>dapA</i> fragment in SmaI/PstI digested p8341
pSWVCR _{126*-60+750bplacZ-VCR_{126**}} (attP-)	p8461	<i>dapA</i> fragment in SmaI/PstI digested p8339
pSWattC _{aadA7-60+1500bplacZ-VCR₁₂₆} (attP+)	pA350	1500bplacZ fragment (PCR fragment (o863 and o866) from p923)) in BamHI/NheI digested p8458
pSWVCR _{126*-60+1500bplacZ-VCR_{126**}} (attP+)	pA351	1500bplacZ fragment in BamHI/NheI digested p8460

pSWattC _{aadA7} -60+ 1500bplacZ -VCR ₁₂₆ (attP-)	pA354	1500bplacZ fragment in BamHI/NheI digested p8463
pSWVCR _{126*} -60+ 1500bplacZ -VCR _{126**} (attP-)	pA352	1500bplacZ fragment in BamHI/NheI digested p8461
pSWattC _{aadA7} -60bp-VCR ₁₂₆ (attP+)	pA621	FRT fragment (annealing between o2227 and o2228) in NotI/EcoRI digested p9935
pSWVCR _{126*} -60bp-VCR _{126**} (attP+)	pA702	FRT fragment in NotI/EcoRI digested p9936
pSWattC _{aadA7} -60bp-VCR ₁₂₆ (attP-)	pA672	FRT fragment in NotI/EcoRI digested p9938
pSWVCR _{126*} -60bp-VCR _{126**} (attP-)	pA671	FRT fragment in NotI/EcoRI digested p9937
pSWattC _{aadA7} -60+ 3000bplacZ -VCR ₁₂₆ (attP+)	pA705	FRT fragment in NotI/EcoRI digested p8456
pSWVCR _{126*} -60+ 3000bplacZ -VCR _{126**} (attP+)	pA697	FRT fragment in NotI/EcoRI digested p8459
pSWattC _{aadA7} -60+ 3000bplacZ -VCR ₁₂₆ (attP-)	pA670	FRT fragment in NotI/EcoRI digested p8469
pSWVCR _{126*} -60+ 3000bplacZ -VCR _{126**} (attP-)	pA663	FRT fragment in NotI/EcoRI digested p8467
pSWattC _{aadA7} -60+ 750bplacZ -VCR ₁₂₆ (attP+)	pA696	FRT fragment in NotI/EcoRI digested p8458
pSWVCR _{126*} -60+ 750bplacZ -VCR _{126**} (attP+)	pA717	FRT fragment in NotI/EcoRI digested p8460
pSWattC _{aadA7} -60+ 750bplacZ -VCR ₁₂₆ (attP-)	pA669	FRT fragment in NotI/EcoRI digested p8463

pSWVCR _{126*} -60+ 750bplacZ -VCR _{126**} (attP-)	pA667	FRT fragment in NotI/EcoRI digested p8461
pSWattC _{aadA7} -60+ 1500bplacZ -VCR ₁₂₆ (attP+)	pA703	FRT fragment in NotI/EcoRI digested pA350
pSWVCR _{126*} -60+ 1500bplacZ -VCR _{126**} (attP+)	pA701	FRT fragment in NotI/EcoRI digested pA351
pSWattC _{aadA7} -60+ 1500bplacZ -VCR ₁₂₆ (attP-)	pA675	FRT fragment in NotI/EcoRI digested pA354
pSWVCR _{126*} -60+ 1500bplacZ -VCR _{126**} (attP-)	pA673	FRT fragment in NotI/EcoRI digested pA352
pSWattC _{aadA7} -60bp-attC _{ereA2} (attP+)	pB322	attC_{ereA2} fragment (annealing between o2351, o2352, o2353 and o2354) in BamHI/SmaI digested pA621
pSWattC _{aadA7} -60bp-attC _{ereA2} (attP-)	pB256	attC_{ereA2} fragment in BamHI/SmaI digested pA672
pSWattC _{aadA7} -60+ 3000bplacZ - attC _{ereA2} (attP+)	pB321	attC_{ereA2} fragment in BamHI/SmaI digested pA705
pSWattC _{aadA7} -60+ 3000bplacZ - attC _{ereA2} (attP-)	pB252	attC_{ereA2} fragment in BamHI/SmaI digested pA670
pSWattC _{aadA7} -60+ 750bplacZ - attC _{ereA2} (attP+)	pB254	attC_{ereA2} fragment in BamHI/SmaI digested pA696
pSWattC _{aadA7} -60+ 750bplacZ - attC _{ereA2} (attP-)	pB257	attC_{ereA2} fragment in BamHI/SmaI digested pA669

pSWattC _{aadA7-60} + 1500bplacZ - attC _{ereA2} (attP+)	pB255	attC _{ereA2} fragment in BamHI/SmaI digested pA703
pSWattC _{aadA7-60} + 1500bplacZ - attC _{ereA2} (attP-)	pB253	attC _{ereA2} fragment in BamHI/SmaI digested pA675
pSWattC _{aadA7-60} + 400bplacZ -VCR ₁₂₆ (attP+)	pB332	400bplacZ fragment (PCR fragment (o863 and o870) from p923)) in BamHI/NheI digested pA696
pSWVCR _{126*-60} + 400bplacZ -VCR _{126**} (attP+)	pB328	400bplacZ fragment in BamHI/NheI digested pA717
pSWattC _{aadA7-60} + 400bplacZ - attC _{ereA2} (attP+)	pB429	400bplacZ fragment in BamHI/SmaI digested pB254
pSWVCR _{126*-60} + 400bplacZ -VCR _{126**} (attP-)	pB327	400bplacZ fragment in BamHI/NheI digested pA667
pSWattC _{aadA7-60} + 400bplacZ -VCR ₁₂₆ (attP-)	pB331	400bplacZ fragment in BamHI/NheI digested pA669
pSWattC _{aadA7-60} + 400bplacZ - attC _{ereA2} (attP-)	pB428	400bplacZ fragment in BamHI/SmaI digested pB257
pSWattC _{aadA7-60} + 750bphubP - attC _{ereA2} (attP+)	pE511	750bphubP fragment (PCR fragment (o3771 and o3773) from N16961 <i>Vibrio cholerae</i> (Heidelberg <i>et al</i> , 2000))) in BamHI/NheI digested pB255
pSWattC _{aadA7-60} + 750bphubP - VCR ₁₂₆ (attP+)	pE507	750bphubP fragment in BamHI/NheI digested pA703

pSWattC _{aadA7-60} + 750bphubP - VCR ₁₂₆ (attP-)	pE503	750bphubP fragment in BamHI/NheI digested pA675
pSWattC _{aadA7-60} + 1500bphubP - attC _{ereA2} (attP+)	pE512	1500bphubP fragment (PCR fragment (o3771 and o3774) from N16961 <i>Vibrio cholerae</i> (Heidelberg <i>et al</i> , 2000))) in BamHI/NheI digested pB255
pSWattC _{aadA7-60} + 1500bphubP - VCR ₁₂₆ (attP+)	pE508	1500bphubP fragment in BamHI/NheI digested pA703
pSWattC _{aadA7-60} + 1500bphubP - VCR ₁₂₆ (attP-)	pE504	1500bphubP fragment in BamHI/NheI digested pA675
pSWattC _{aadA7-60} + 3000bphubP - attC _{ereA2} (attP+)	pE513	3000bphubP fragment (PCR fragment (o3771 and o3830) from N16961 <i>Vibrio cholerae</i> (Heidelberg <i>et al</i> , 2000))) in BamHI/NheI digested pB255
pSWattC _{aadA7-60} + 3000bphubP - VCR ₁₂₆ (attP+)	pE509	3000bphubP fragment in BamHI/NheI digested pA703
pSWattC _{aadA7-60} + 3000bphubP - VCR ₁₂₆ (attP-)	pE505	3000bphubP fragment in BamHI/NheI digested pA675
pSWVCR _{16*-60} -VCR ₆₄ (attP+)	pE894	VCR_{16*-60}-VCR₆₄ fragment (synthetic fragment) in NotI/NruI digested pA717
pSWVCR _{16*-60} -VCR ₆₄ (attP-)	pE893	VCR_{16*-60}-VCR₆₄ fragment in NotI/EcoRI digested pA667
pSWVCR _{16*-60} + 3000bplacZ - VCR ₆₄	pE922	3000bplacZ fragment in BamHI digested pE894

(attP+)		
pSWVCR ₁₆ *-60+ 3000bplacZ - VCR ₆₄ (attP-)	pE921	3000bplacZ fragment in BamHI digested pE893
pSWVCR ₁₆ *-60+ 400bplacZ - VCR ₆₄ (attP+)	pE978	400bplacZ fragment in BamHI digested pE922
pSWVCR ₁₆ *-60+ 750bplacZ - VCR ₆₄ (attP+)	pE979	750bplacZ fragment in BamHI digested pE922
pSWVCR ₁₆ *-60+ 1500bplacZ - VCR ₆₄ (attP+)	pE980	1500bplacZ fragment in BamHI digested pE922
pSWVCR ₁₆ *-60+ 400bplacZ - VCR ₆₄ (attP-)	pE975	400bplacZ fragment in BamHI digested pE921
pSWVCR ₁₆ *-60+ 750bplacZ - VCR ₆₄ (attP-)	pE976	750bplacZ fragment in BamHI digested pE921
pSWVCR ₁₆ *-60+ 1500bplacZ - VCR ₆₄ (attP-)	pE977	1500bplacZ fragment in BamHI digested pE921

* pSW plasmids were constructed in the II1 strain growing with Thy supplemented in the medium. We confirmed plasmid constructions by performing PCR reactions and sequencing using o1897 and o1962 primers.

Table S1D

Primers used in this study*

Primer name	Primer number	Sequences
RecReportF	o299	TTTGAATTCGCGGCCGCTTCTAGAGTGAGCGCAACGCAATTAA TG
BamHIattCR	o845	AGTGGATCCCATCTAACGCTTGAATTAAGCCGCGC
5'BamHI-VCR-XmaI-1	o876	GATCCCATCTAACAAACGCCTCAAGAGGGACTGTCAACGCGTG GCGTTTCCAGTCCCATTGAGC
5'BamHI-VCR-XmaI-2	o877	CGCGGTGGTTGCTGTTGTTGTGTTTGTAGTTTAGTGGTAGTGCG TTGTCAGCCCCTTAGGCGGGCGTTATAC
3'BamHI-VCR-XmaI-1	o878	GAAACGCCACGCGTTGACAGTCCCTCTTGAGGCGTTTGTTAGA TGG
3'BamHI-VCR-XmaI-2	o879	CCGGGTATAACGCCCGCCTAAGGGGCTGACAACGCACTACCAC TAAACTCAAACACAACAACAGCAACCACCGCGGCTCAATGGGA CTG
5term	o883	GATCCAAAAAAAAAACCCTGACAGGGCGGGGTTTTTTTT TA
3term	o884	GATCTAAAAAAAAAACCCTGTCAGGGGCGGGGTTTTTTTT TG
modiVCR2-F	o885	AGGCGGGCGTTATTAC
modiVCR2-R	o886	CCGGGTAATAACGCCCGCCTAAG
5'BamHI-LacZ	o863	CGGGGATCCATGACCATGATTACGGATTCACTGG

3'NheI-BgLI-LacZ-3000	o864	GGCAGATCTGCTAGCCCAGGAGTCGTCGCCACCAATCC
3'NheI-LacZ-1500	o866	GGCGCTAGCAATAATATCGGTGGCCGTGGTGTCTG
3'NheI-LacZ-750	o868	GGCGCTAGCCTCGCCGCACATCTGAACTTCAGC
3'NheI-LacZ-400	o870	GGCGCTAGCAGCTTTCATCAACATTAAATGTGAGC
XmaI-dapA-F	o1069	TTTCCCGGGTACTTCACGGGAAGTATTGT
PstI-dapA-R	o1070	CGGCTGCAGTTACAGCAAACCGGCATGCT
EcoRI-FRT-NotI	o2227	AATTCGAAGTTCCTATACTtttctagaGAATAGGAACTTCGGAATAGG AACTTCGC
NotI-FRT-EcoRI	o2228	GGCCGCGAAGTTCCTATTCCGAAGTTCCTATTCTctagaaaGTATAG GAACTTCG
5BamHIereA2	o2351	GATCCAAAAAAAAAACCCCGCCCCTGACAGGGCGGGGTTTTTTTT TAGATCCCATCTAACC
5ereA2SmaI	o2352	TGCCAATCCACCGGACGGTTTTTCAACCGCCGGTGATCAGCGCG TTATACCC
3ereA2SmaI	o2353	GGGTATAACGCGCTGATCACCGGCGGTTGAAAACCGTCCGGTG GATTGGCAGGTTAGATGGG
3BamHIereA2	o2354	ATCTAAAAAAAAAACCCCGCCCCTGTCAGGGGCGGGGTTTTTTTTT

		G
5'-BamHI- <i>hubP</i>	o3771	CGGGGATCCCCAACGACTCCTGCTGCCAGTGGC
3'-750 NheI- <i>hubP</i>	o3773	GGCGCTAGCGAAGCTTCTTCCGCTTTACGGCGC
3'-1500 NheI- <i>hubP</i>	o3774	GGCGCTAGCGCCAGCTCATCATTGAGTAGCGTATCC
3'-3000 NheI- <i>hubP</i>	o3830	GGCGCTAGCACAATTCAGAAGGCGTACTTACTGCCATACCCGA GCGGAATCTTATTAAGCTCGGTAAAGGCTTCTTCCTCGGCTGG C
Swbeg	o1897	CCGTCACAGGTATTTATTCGGCG
Swend	o1898	CCTCACTAAAGGGAACAAAAGCTG
DAP-A-R	o1962	GTGGTGCCAACAGAAACGATCGC
Verif- <i>lbd-attR</i>	o361	GGCAAGCGCCTCGATTACTGCGATGTTTAG
<i>finDAPrev</i>	o3725bis	GGCCTTTCGTTTTATCTGTTGTTTGTCGG

Synthetic fragments used in this study

