

SUPPLEMENTAL MATERIAL

Table S1. Bacterial strains and plasmids

Bacterial strain or plasmid	Description	Reference
<i>Escherichia coli</i>		
DH5α	Strain for cloning purposes	(1)
S17-1	Strain for plasmid mobilization	(2)
BL21(DE3)	Strain for protein expression	Novagen
<i>Chromobacterium violaceum</i>		
ATCC 12472	Wild type (Sequenced genome)	(3)
$\Delta clpV$ (CV_3965)	WT strain with CV_3965 gene deleted	This work
Δhcp (CV_3977)	WT strain with CV_3977 gene deleted	This work
$\Delta vipA$ (CV_3979)	WT strain with CV_3979 gene deleted	This work
$\Delta vgrG1$ (CV_3986)	WT strain with CV_3986 gene deleted	This work
$\Delta vgrG2$ (CV_3975)	WT strain with CV_3975 gene deleted	This work
$\Delta vgrG3$ (CV_1432)	WT strain with CV_1432 gene deleted	This work
$\Delta vgrG4$ (CV_1233)	WT strain with CV_1233 gene deleted	This work
$\Delta vgrG5$ (CV_0023)	WT strain with CV_0023 gene deleted	This work
$\Delta vgrG6$ (CV_0016)	WT strain with CV_0016 gene deleted	This work
$\Delta vgrG1$ -2	WT strain with CV_3986 and CV_3975 genes deleted	This work
$\Delta vgrG1$ -3	WT strain with CV_3986, CV_3975 and CV_1432 genes deleted	This work
$\Delta vgrG1$ -4	WT strain with CV_3986, CV_3975, CV_1432 and CV_1233 genes deleted	This work
$\Delta vgrG1$ -5	WT strain with CV_3986, CV_3975, CV_1432, CV_1233 and CV_0023 genes deleted	This work
$\Delta vgrG1$ -6	WT strain with CV_3986, CV_3975, CV_1432, CV_1233, CV_0023 and CV_0016 genes deleted	This work
$\Delta cviR$	WT strain with CV_4090 gene deleted	(4)
$\Delta cviI$	WT strain with CV_4091 gene deleted	(5)
WT(pSEVA)	WT strain containing the empty vector pSEVA	This work
$\Delta vgrG3$ (pSEVA)	$\Delta vgrG3$ strain containing the empty vector pSEVA	This work
$\Delta vgrG3(vgrG3)$	In trans complementation of <i>vgrG3</i> with pSEVA vector in $\Delta vgrG3$	This work
WT(pMR20)	WT strain containing the empty vector pMR20	This work
$\Delta hcp(hcp)$	In trans complementation of <i>hcp</i> with pMR20 vector in Δhcp	This work
$\Delta vipA(vipA)$	In trans complementation of <i>vipA</i> with pMR20 vector in $\Delta vipA$	This work

$\Delta vgrG1$ -6(<i>vgrG1</i>)	In trans complementation of <i>vgrG1</i> with pMR20 vector in the sextuple mutant ($\Delta vgrG1$ -6)	This work
$\Delta vgrG1$ -6(<i>vgrG2</i>)	In trans complementation of <i>vgrG2</i> with pMR20 vector in the sextuple mutant ($\Delta vgrG1$ -6)	This work
$\Delta vgrG1$ -6(<i>vgrG3</i>)	In trans complementation of <i>vgrG3</i> with pMR20 vector in the sextuple mutant ($\Delta vgrG1$ -6)	This work
$\Delta vgrG1$ -6(<i>vgrG4</i>)	In trans complementation of <i>vgrG4</i> with pMR20 vector in the sextuple mutant ($\Delta vgrG1$ -6)	This work
$\Delta vgrG1$ -6(<i>vgrG5</i>)	In trans complementation of <i>vgrG5</i> with pMR20 vector in the sextuple mutant ($\Delta vgrG1$ -6)	This work
$\Delta vgrG1$ -6(<i>vgrG6</i>)	In trans complementation of <i>vgrG6</i> with pMR20 vector in the sextuple mutant ($\Delta vgrG1$ -6)	This work
WT(pCV_3981)	WT strain containing the promoter of CV_3981 with <i>lacZ</i> fusion	This work
$\Delta cviR$ (pCV_3981)	$\Delta cviR$ strain containing the promoter of CV_3981 with <i>lacZ</i> fusion	This work
WT(pCV_3982)	WT strain containing the promoter of CV_3982 with <i>lacZ</i> fusion	This work
$\Delta cviR$ (pCV_3982)	$\Delta cviR$ strain containing the promoter of CV_3982 with <i>lacZ</i> fusion	This work
WT(pvgrG1)	WT strain containing the promoter of <i>vgrG1</i> with <i>lacZ</i> fusion	This work
WT(pvgrG2)	WT strain containing the promoter of <i>vgrG2</i> with <i>lacZ</i> fusion	This work
WT(pvgrG3)	WT strain containing the promoter of <i>vgrG3</i> with <i>lacZ</i> fusion	This work
WT(pvgrG4)	WT strain containing the promoter of <i>vgrG4</i> with <i>lacZ</i> fusion	This work
WT(pvgrG5)	WT strain containing the promoter of <i>vgrG5</i> with <i>lacZ</i> fusion	This work
WT(pvgrG6)	WT strain containing the promoter of <i>vgrG6</i> with <i>lacZ</i> fusion	This work
$\Delta cviR$ (pvgrG3)	$\Delta cviR$ strain containing the promoter of <i>vgrG3</i> with <i>lacZ</i> fusion	This work
$\Delta cviR$ (pvgrG4)	$\Delta cviR$ strain containing the promoter of <i>vgrG4</i> with <i>lacZ</i> fusion	This work
WT(vipA_sfGFP)	WT with <i>vipA_sfGFP</i> cloned into pJN105 vector for L-arabinose induction	This work
$\Delta clpV$ (vipA_sfGFP)	$\Delta clpV$ with <i>vipA_sfGFP</i> cloned into pJN105 vector for L-arabinose induction	This work
Δhcp (vipA_sfGFP)	Δhcp with <i>vipA_sfGFP</i> cloned into pJN105 vector for L-arabinose induction	This work
$\Delta vgrG3$ (vipA_sfGFP)	$\Delta vgrG3$ with <i>vipA_sfGFP</i> cloned into pJN105 vector for L-arabinose induction	This work
$\Delta vgrG1$ -3(vipA_sfGFP)	$\Delta vgrG1$ -3 with <i>vipA_sfGFP</i> cloned into pJN105 vector for L-arabinose induction	This work

$\Delta vgrG1\text{-}6(vipA_sfGFP)$	$\Delta vgrG1\text{-}6$ with <i>vipA_sfGFP</i> cloned into pJN105 vector for L-arabinose induction	This work
$\Delta cviR(vipA_sfGFP)$	$\Delta cviR$ with <i>vipA_sfGFP</i> under L-arabinose induction	This work
$\Delta cviI(vipA_sfGFP)$	$\Delta cviI$ with <i>vipA_sfGFP</i> under L-arabinose induction	This work
$\Delta vgrG3(vgrG3\text{-HA})$	$\Delta vgrG3$ in trans complemented with pMR20 expressing <i>vgrG3</i> gene fused to hemagglutinin tag at C-terminal portion	This work
Plasmids		
pNPTS138	Suicide vector containing oriT, Km ^r , <i>sacB</i>	D. Alley
pJN105	Broad-host-range vector, araC-PBAD cassette; Gm ^r	(6)
pMR20	Broad-host-range low-copy vector containing oriT, Tet ^R	(7)
pET-15b	His-tagged protein expression vector; Amp ^r	Novagen
pGEM-T easy	Cloning plasmid; Amp ^R	Promega
pRKlacZ290	Vector containing promoterless <i>E. coli lacZ</i> . Tet ^R	(8)
pSEVA221	Broad-host-range vector, Km ^R , <i>oriRK2</i> , <i>oriT</i> .	(9)

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Table S2. Primers used in this work

Name	Sequence 5' - 3' *	Description
Construction of mutant strains		
CV_3965 del1	GATCATAAGCTTGTATTGATGGGGCGTGGGAAG	767 pb, <i>HindIII/EcoRI</i> .
CV_3965 del2	GATCATGAATTCCGTCAACCGGTCTATCAGGG	CV_3965 deletion
CV_3965 del3	GATCATGAATTCCGTATGGCCAGCGCAAACC	652 pb, <i>EcoRI/SalI</i> . CV_3965
CV_3965 del4	GATCATGTCGACGCTTCAGTTCTGACCCGG	deletion
CV_3977 del1	GATCATAAGCTTGAAGTGGCGCTGAAGTGCC	633 pb, <i>HindIII/PstI</i> . CV_3977
CV_3977 del2	GATCATCTGCAGGCTTCGCCAGGAATGCCATC	deletion
CV_3977 del3	GATCATCTGCAGGGCAATGTCAGGCCGGTTG	687 pb, <i>PstI/BamHI</i> . CV_3977
CV_3977 del4	GATCATGGATCCGAGAGCTAAGGTCCATGGCG	deletion
CV_3979 del1	GACTATGGGCCCATTCCTGTCGCGAGCCTG	607 pb, <i>Apal/BamHI</i> . CV_3979
CV_3979 del2	GACTATGGATCCGCCGATCTCGACGTCATAGG	deletion
CV_3979 del3	GACTATGGATCCGACGAAGTGGTGCGCGATAC	547 pb, <i>BamHI/EcoRI</i> .
CV_3979 del4	GACTATGAATTCCCCAACAGCGCGCGTAAG	CV_3979 deletion
CV_3986 del1	TACCGGAAGCTTGTACTTCGCGCTATTGCC	606 pb, <i>HindIII/BamHI</i> .
CV_3986 del2	TACCGGGGATCCGCTGGTAGATCCATGATCG	CV_3986 deletion
CV_3986 del3	TACCGGGGATCCCTGAATGCGATCAAATCCGGC	663 pb, <i>BamHI/EcoRI</i> .
CV_3986 del4	TACCGGGAAATTCTGGCCAATGCATCGGGCTC	CV_3986 deletion
CV_3975 del1	TACCGGAAGCTTGGCCCCGGCGGGTTTTAAG	598 pb, <i>HindIII/BamHI</i> .
CV_3975 del2	TACCGGGGATCCGTCCATGGCGCAATCTATCCG	CV_3975 deletion
CV_3975 del3	TACCGGGGATCCGTGGCCGCAAATGAAGCCG	660 pb, <i>BamHI/EcoRI</i> .
CV_3975 del4	TACCGGGAAATTCCCAACAGGTGGTTGCCGC	CV_3975 deletion
CV_1432 del1	TACCGGAAGCTTCCAGGCTTCCAGATACTAGTC	626 pb, <i>HindIII/BamHI</i> .
CV_1432 del2	TACCGGGGATCCGTCAAGGTCCATCGATTGTCC	CV_1432 deletion
CV_1432 del3	TACCGGGGATCCCTCCCTTCGTAGAGCAGCC	603 pb, <i>BamHI/EcoRI</i> .
CV_1432 del4	TACCGGGAAATTCCGGCAGGAACGACGCCAATC	CV_1432 deletion
CV_1233 del1	TACCGGAAGCTTCCAGGCTTCCAGATACTGCG	611 pb, <i>HindIII/BamHI</i> .
CV_1233 del2	TACCGGGGATCCACTGGTAGCAATGCGTTAG	CV_1233 deletion
CV_1233 del3	TACCGGGGATCCCATTCAACATGGTGCCGTG	583 pb, <i>BamHI/EcoRI</i> .
CV_1233 del4	TACCGGGAAATTCCCTCCAGCGACTTCATTTC	CV_1233 deletion
CV_0023 del1	TACCGGAAGCTTGGCATGTTGGCACAGGGCG	593 pb, <i>HindIII/BamHI</i> .
CV_0023 del2	TACCGGGGATCCAGATCCATGGCGTTCCAG	CV_0023 deletion
CV_0023 del3	TACCGGGGATCCCCAGCGCTCCCCAAAGACAA	657 pb, <i>BamHI/EcoRI</i> .
CV_0023 del4	TACCGGGAAATTCTGCATAGAACGGTGTGCCGG	CV_0023 deletion
CV_0016 del1	TACCGGGGGCCCGAGATGCTAAGGCCGGTGCAC	592 pb, <i>Apal/BamHI</i> . CV_0016
CV_0016 del2	TACCGGGGATCCGAAGCTGGAGAGGAGGAGCTGT	deletion
CV_0016 del3	TACCGGGGATCCGCGAGTACCAACTGCCCTTC	632 pb, <i>BamHI/SalI</i> . CV_0016
CV_0016 del4	TACCGGGTCGACCTCCCCATGAAATGGATGGCG	deletion
Construction of complemented strains		
CV_3977 Comp Fw	GATCATCTGCAGGAAGCCAAGGCCAAGTACCC	852 pb, <i>PstI/SacI</i> . Product with
CV_3977 Comp Rv	GATCATGAGCTCCGCAAGACAAGGCCAACCC	<i>hcp</i> gene and its promoter region
CV_3979 Comp Fw	GACTATGAATTGGGGCGGCAATTGAACGATC	699 pb, <i>EcoRI/SacI</i> . Product
CV_3979 Comp Rv	GACTATGAGCTCCGATGATGCTGTCAGCAGG	with <i>vipA</i> gene and its promoter
CV_3979 Over Fw	GACTATGAATTGAACATCTGTAGAGAAGAGCC	region
CV_3979_sfGfp Rv	GACTATCTGCAGGGGGGGGGGGCGCGCGCTGCTCGCCTCTTCTTCT	526 pb, <i>PstI/EcoRI</i> . <i>vipA</i> full
sfGFP_Fw	GACTATCTGCAGATGTCGAAAGGAGAAGAACTGT	gene plus 3 Gly x 3 Ala linker
sfGFP_Rv	GACTATGAGCTTTATACAGTTCATCCATTCCATG	714 pb, <i>PstI/SacI</i> . Product with
		super folder GFP for cloning
		with <i>vipA</i> into pJN105
CV_3977 Exp Fw	GATCACATATGGCTTTGATGCATTCTGAAAATC	498 pb, <i>NdeII/BamHI</i> . Product
CV_3977 Exp Rv	GATCAGGATCCTTAGGCGATTACTTGTTCGCG	with <i>hcp</i> gene for heterologous
		expression
CV_3986 Comp Fw	TACCGGGGTACCCCTCGATCGAGCTGCATGAGC	2861 pb, <i>KpnI/BamHI</i> .
CV_3986 Comp Rv	TACCGGGGATCCCCTCCCTGTCCATTGCG	CV_3986 complementation
CV_3975 Comp Fw	TACCGGGGTACCCCGCCAATGTGCGCGATTAC	3019 pb, <i>KpnI/BamHI</i> .
CV_3975 Comp Rv	TACCGGGGATCCGGTGTCTIGCAACAGCATGC	CV_3975 complementation
CV_1432 Comp Fw	TACCGGGGTACCCGGGTCTCTCATGATCTTGC	3554 pb, <i>KpnI/BamHI</i> .
CV_1432 Comp Rv	TACCGGGGATCCGCTATGGGTGCGGGTATGGC	CV_1432 complementation

CV_1432-HA_TagCompRv	TACCGGGGATCCTCAAGCGTAGTCTGGGACGTCGT ATGGGTAAGCGTAGTCTGGGACGTCGTATGGTAG AACAGTTGGCAGGCTGGG	Primer used with CV_1432 Comp Fw. 3568 pb, <i>BamHI</i> . CV_1432 fused to HA epitope complementation
CV_1233 Comp Fw CV_1233 Comp Rv	TACCGGGGT <u>ACCC</u> CAGGCTCCAGATACTGCG TACCGGG <u>AAT</u> CGACGCCGTTATGCTTGGCC	3506 pb, <i>KpnI/EcoRI</i> . CV_1233 complementation
CV_0023 Comp Fw CV_0023 Comp Rv	TACCGGGGT <u>ACCC</u> CGTCCAAGTCTGCTGTG TACCGGGGAT <u>CCC</u> CTCGGAAGAGAACGGCATC	2952 pb, <i>KpnI/BamHI</i> . CV_0023 complementation
CV_0016 Comp Fw CV_0016 Comp Rv	TACCGGGGT <u>ACCG</u> GAGATGCTAAGGCCGGTGAC TACCGGGGAT <u>CCCC</u> GGCTCTACCAGTAATC	3234 pb, <i>KpnI/BamHI</i> . CV_0016 complementation
B-galactosidase assay		
pCV_3981Fw pCV_3981Rv	GATCAT <u>GGATCC</u> GCAAGCACATTCTGATTGG GATCATA <u>AAGCTT</u> CGATTGTCGCCTGTTCCAC	531 pb, <i>BamHI/HindIII</i> . Promoter region of CV_3981 for pRKlacZ290 cloning
pCV_3982Fw pCV_3982Rv	GATCATA <u>AAGCTT</u> GCAAGCACATTCTGATTGG GATCAT <u>GGATCC</u> CGATTGTCGCCTGTTCCAC	531 pb, <i>HindIII/BamHI</i> . Promoter region of CV_3982 for pRKlacZ290 cloning

* Underlined letters indicate the restriction enzyme recognition sites

Table S3. Bacteria strains used as prey in interbacterial competition assay

Bacteria	Strain	Abbreviation *
<i>Burkholderia cepacia</i>	ATCC 17759	Bc
<i>Escherichia coli</i>	ATCC 25922	Ec
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Pa
<i>Staphylococcus aureus</i>	ATCC 29313	Sa
<i>Salmonella typhimurium</i>	ATCC 14028	St
<i>Stenotrophomonas maltophilia</i>	ATCC 13637	Sma
<i>Enterobacter cloacae</i>	ATCC 13047	Ecl
<i>Shigella flexneri</i>	ATCC 12022	Sf
<i>Enterococcus faecium</i>	NCTC 13047	Ef
<i>Klebsiella pneumoniae</i>	ATCC 13883	Kp
<i>Klebsiella pneumoniae</i>	ATCC BAA-1705	Kpn
<i>Enterococcus faecalis</i>	ATCC 4083	Efa
<i>Shigella sonnei</i>	ATCC 25931	Ss
<i>Pseudomonas aeruginosa</i>	PAO1	Pao

*Abbreviation referring to **Figure 2A**

Table S4. Proteins identified in coimmunoprecipitation assay of WT(pMR20) and $\Delta vgrG3(vgrG3\text{-HA})$

WT(pMR20)						
Accession*	Description	mW (Da)	Peptides	Coverage (%)	Products	Amount (fmol)
Q7M7F1	Elongation factor Tu	43045	92	86,3636	974	32,4532
Q7NQE7	DNA-directed RNA polymerase subunit beta'	155194	86	63,8252	640	2,0263
Q7NQF0	Elongation factor G	76958	60	79,7994	442	1,4946
Q7NQG4	50S ribosomal protein L5	20292	14	46,3687	70	0,3518
Q7NQG5	30S ribosomal protein S14	11589	7	38,6139	18	0,4214
Q7NQG8	50S ribosomal protein L18	12765	9	64,1026	52	0,5157
Q7NQG9	30S ribosomal protein S5	18207	14	47,6744	81	0,1538
Q7NQM5	Aspartate ammonia-lyase	50287	24	76,8737	218	0,9885
Q7NQX1	60 kDa chaperonin 2	57382	40	69,7802	347	1,5874
Q7NR97	Nudix hydrolase domain-containing protein	23223	10	66,8269	105	0,1679
Q7NUY8	Trigger factor	48546	34	81,3793	262	1,2455
Q7NV09	Uncharacterized protein	6615	3	68,3333	38	0,0807
Q7NV22	Probable transmembrane protein	13147	4	71,7742	53	0,0143
Q7NVZ4	30S ribosomal protein S2	27112	18	69,1358	111	1,3853
Q7NWY4	Phosphonate metabolism protein PhnH	20435	6	54,2105	66	0,0398
Q7NX50	Probable transcriptional regulator MerR family	15218	9	58,4615	100	0,0483
Q7NZ92	Uncharacterized protein	10198	4	43,8202	40	0,5778
Q7P095	ATP synthase subunit beta	50024	40	81,0753	434	2,0939
Q7P097	ATP synthase subunit alpha	54676	36	69,0661	327	2,4705
Q7P0N9	Acetyltransferase component	56484	19	49,0975	210	1,8117
Q7P0P0	Pyruvate dehydrogenase E1 component	99230	67	81,2852	584	2,3749
$\Delta vgrG3(vgrG3\text{-HA})$						
Accession	Description	mW (Da)	Peptides	Coverage (%)	Products	Amount (fmol)
Q7M7F1	Elongation factor Tu	43045	54	72,2222	714	45,6856
Q7NQF0	Elongation factor G	76958	39	55,5874	313	2,9557
Q7NQF9	50S ribosomal protein L16	15401	4	30,4348	49	5,6009
Q7NQG2	50S ribosomal protein L14	13409	15	51,6393	89	3,7829
Q7NQG4	50S ribosomal protein L5	20292	16	65,3631	108	0,739
Q7NQG5	30S ribosomal protein S14	11589	5	45,5446	56	4,4619
Q7NQG8	50S ribosomal protein L18	12765	7	52,9915	88	9,9647
Q7NQG9	30S ribosomal protein S5	18207	18	59,8837	149	3,5319
Q7NQH0	50S ribosomal protein L30	6780	5	37,7049	33	1,1832
Q7NQX1	60 kDa chaperonin	57382	18	46,1538	164	2,9832
Q7NQZ9	VgrG1 (CV_3986)	93995	27	41,7431	314	0,2691
Q7NR08	Hcp (CV_3977)	17881	8	53,3333	81	0,9134
Q7NR10	VgrG2 (CV_3975)	94022	20	35,8945	255	1,3435
Q7NRL5	30S ribosomal protein S21	8490	2	28,5714	19	1,6007

Q7NRT4	30S ribosomal protein S9	14356	4	36,1538	44	2,1704
Q7NRV5	30S ribosomal protein S16	9536	7	59,0361	84	8,6455
Q7NU57	Uncharacterized protein (CV_2846)	7517	2	45,4545	58	77,9891
Q7NUY8	Trigger factor	48546	15	42,7586	187	2,7161
Q7NY43	VgrG3 (CV_1432)	107856	29	42,1782	363	2,6193
Q7P095	ATP synthase subunit beta	50024	27	51,1828	324	3,949
Q7P097	ATP synthase subunit alpha	54676	18	33,8521	217	4,4851
Q7P099	Acetyltransferase component	56484	12	32,3105	147	1,1308
Q7P238	VgrG5 (CV_0023)	94125	17	29,9771	247	1,2663

*Accessions highlighted in bold indicate proteins identified in both assays and are probably contaminant proteins with affinity to the magnetic beads.

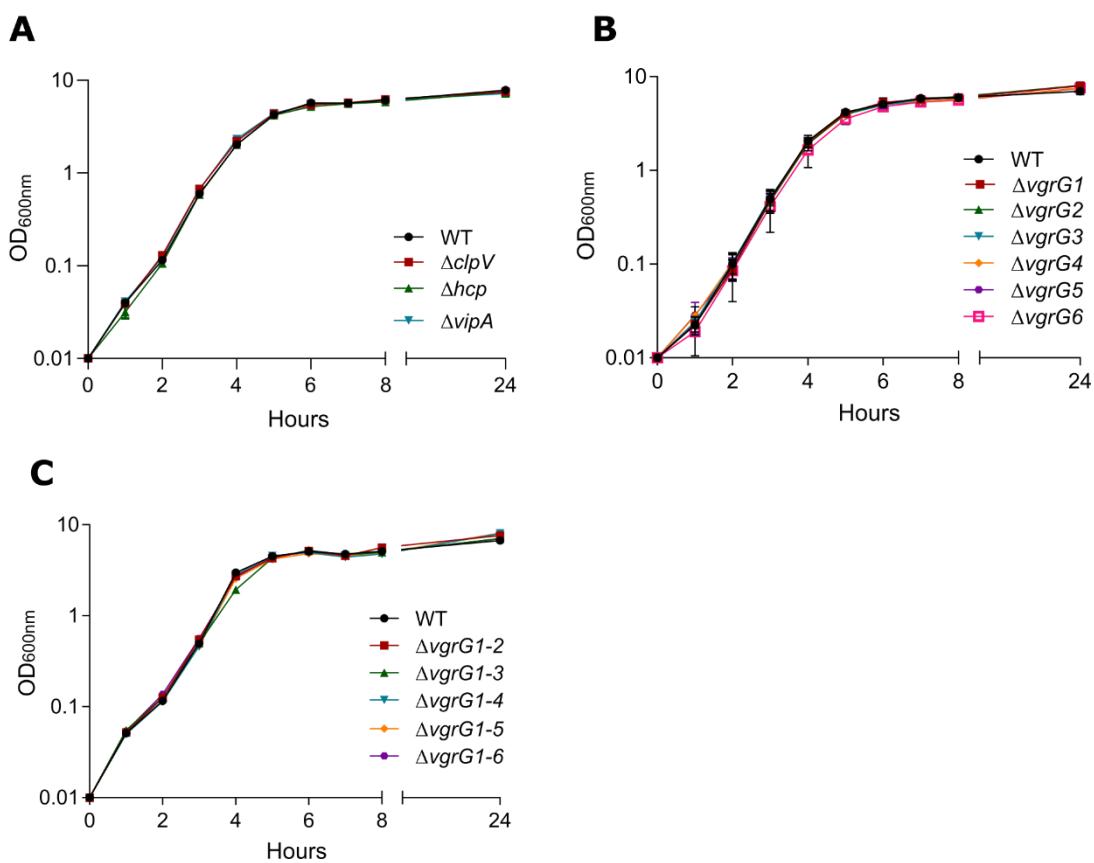


Fig S1 Growth curves of the indicated strains grown in LB medium. (A) Mutants for T6SS core components. (B) Single mutant strains for each *vgrG*. (C) Sequential *vgrG* mutants. None of these strains showed any growth delay compared to the WT strain.

A

	VgrG1 (CV_3986)	VgrG2 (CV_3975)	VgrG3 (CV_1432)	VgrG4 (CV_1233)	VgrG5 (CV_0023)	VgrG6 (CV_0016)
VgrG1 (CV_3986)	100					
VgrG2 (CV_3975)	93.43	100				
VgrG3 (CV_1432)	93.46	92.20	100			
VgrG4 (CV_1233)	76.46	76.23	71.06	100		
VgrG5 (CV_0023)	84.36	84.27	83.55	82.50	100	
VgrG6 (CV_0016)	81.68	83.20	81.80	80.18	93	100

B**C**

VgrG1	MDLTSLLSSFASAFTQDQRLLTLELGSGQVAEQLPQSLNGEEGVSQAYRYQLTCSPD	60
VgrG2	MDLSLLASFASAFNQDQRLLTLELGSGQVAEQLPQSLNGEEGVSQAYRYQLTCSPD	60
VgrG3	MDLDTLLASFASAFNQDQRLLTLELGSGQVAEQLPQSLNGEEGVSQAYRYQLTCSPD	60
VgrG4	MDLNALLASFASAFSQEQLRISLEFGGGHIASEQLPLSLDGEEGISRSYRYTLCSPD	60
VgrG5	MDLNALLSSFASAFGQDHRLPTLELGSGQIAAEQLPLSLDGEGLSRAYRYTVTCLSPD	60
VgrG6	MDLNSLLSSFASAFNQEQRLLTLELGTGQIAAEQLPLSLDGEEGVSRAYRYTVTCLSPD	60
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VgrG1	GAIELKTLGQAARIGIADAQGQETIRCGVVSQARLMGSDGGFAQYGLTIEPIALLRHR	120
VgrG2	GAIELKTLGQAARIGIADAQGQETIRCGVVSQARLMGSDGGFAQYGLTIEPIALLRHR	120
VgrG3	GAIELKTLGQAARIGIADAQGQETIRCGVVSQARLMGSDGGFAQYGLTIEPIALLRHR	120
VgrG4	GNIELKTLGQPARIGIQDADGDETIRCGVVSQAKLAGSDGGFAKYELTIEPPFALLRHR	120
VgrG5	GHIELKTLGQPARIGIQDADGDETIRCGVVSQARLAGADGGFARYELTIEPPFALLRHR	120
VgrG6	GHIELKTLGQPARIGIQDADGDETIRCGMVSQARLAGADGGFARYELTIEPPFALLRHR	120
	* ***** * * * :*****:*****: * :*****: * *****:*****	
VgrG1	KTSRVFQDLSVPDIVQQIVHEHQAANPVFARAQSIEFKVGPAPRSYCLQYREDDFSFIV	180
VgrG2	RTSRVFQDLSVPDIVQQIVHEHQAANPVFARAQTVEFKVGPAPRSYCLQYREDDFSFIV	180
VgrG3	KTSRVFQDLSVPDIVQQIVHEHQAANPVFARAQSIEFKVGPAPRSYCLQYREDDFSFIV	180
VgrG4	RTSRVFQDLSVPDIVKQIIGEHQAANPAFARVQTLGIQVKPAPRSYTLQYRESDFDFIV	180
VgrG5	KTSRVFQDLSVPDIVKQILAEHQQAANPAFARTQTLIQVKPAPRSYTLQYRESDFDFIV	180
VgrG6	KTSRVFQDLSVPDIVKQILAEHQQAANPAFARAQTLIQVRPAPRSYTLQYRESDFDFIV	180
	:*****:*****: * : * ***** . * . * : : * ** ***** * ***** . * . ***	
VgrG1	RLLHEEGYAWRFEHVD-----GDSPQVKLUVFDDAYSLPPAEVERVRFHRS DAT	229
VgrG2	RLLHEEGYAWRFEHVD-----GDAPQVKLAVFDDAYSLPPAEVERVRFHRS DAT	229
VgrG3	RLLHEEGYAWRFEHVD-----GDSPQVKLUVFDDAYSLPPAEVERVRFHRS DAT	229
VgrG4	RLIHEEGYAWRFHLHD-----DDGPQVELAIFDDAHSLPGSKLERVRFHRS DAS	229
VgrG5	RLLHEEGYAWRFVHLDEVTERGSEASRGNSPQVELAVFDDALSLPAAKLERVRFHRS DAT	240
VgrG6	RLLHEEGYAWRFVHLDEVTERGSEASRGNSPQVELAVFDDAHSLPAAKLERVRFHRS DAT	240
	:** * :* .. * : * :***** * * : :*****	
VgrG1	EEEDGLTDWSAARQIVPGNVALATFDYQPVSTQHTGDSSQIDQGPQGGQALQSSLQDYDPQ	289

VgrG2	EEEDGLTDWSAARQIVPGNVALATFDYQPVSTQHTGDSSQIDQGPGGQALQSSLQDYDPQ	289
VgrG3	EEEDGLTDWSAARQIVPGNVALATFDYQPVSTQHTGDSSQIDQGPGGQALQSSLQDYDPQ	289
VgrG4	EEEDGLTGWEAARQIVPGGTALASYDYKSVYALQSGDQSRSIDQGQAGQSLQSSLRHYDAP	289
VgrG5	EEEDGLTEWQAARQIVPGGTALASYDYKPVYSQQNRDDSHIDQGQTGQALQSSLTQYDAP	300
VgrG6	EEEDGLTEWQAHQIVPGGTLVSYDYKPVYSQQNRDDSHIDQGQTGQALQSSLTQYDAP ***** * . * : * * * .. * . : * : . * . : * * : * * * * * : * * : * * * * . *	300
VgrG1	GLYYAGDAEQLSHYARLRRQQAHDLQAKTFEGAGSIRGLTAGQWFRLLDDHPAHEADSHEQR	349
VgrG2	GLYYAGDAEQLSHYARLRRQQAHDLQAKSFEGAGSIRGLTAGQWFRLLDDHPAHEADSHEQR	349
VgrG3	GLYYAGDAEQLSHYARLRRQQAHDLQAKTFEGAGSIRGLTAGQWFRLLDDHPAHEADSHEQR	349
VgrG4	GLYYAGDEEQLGQYAALRQQANDLQAKSFSGTSVRLPGEWFRLDDEHPAHDSAPASR	349
VgrG5	GLYYADDEEQLGRYAAQLRQQANDLQAKSFSGSGSVRGLLPGDWFRLDDHPAHGDAAENR	360
VgrG6	GLYYAGDEEQLGRYAAQLRQQANDLQAKSFSGSGSVRGLLPGDWFRLDDHPAHGDAAENR *****. * . * ** * * : * * * * : * . * : * * : * * * * : * * * * : * . *	360
VgrG1	EFVVTGQTLQVRNNLPTDLQSIPLPTGKDADAPFRTRIQAQRRGIPLTPAYAGTEAKPKS	409
VgrG2	EFVVTGQTLQVRNNLPTDLQSIPLPTDDQTDAPFTTRIQAQRRGIPLTPAYAGTEAKPKS	409
VgrG3	EFVVTGQTLQVRNNLPTDLQSIPLPTGKDADAPFRTRIQAQRRGIPLTPAYAGTEAKPKS	409
VgrG4	EFVVTGQSFQARNNLPTDLAQHIGAE-QDAAPFTTSIQAQRRGIPLTPAYAGTAHKPTS	408
VgrG5	EFVVTGQSFQVRNNLPQDLAQHIGTE-SDATPFATSIQAQRRGIPLTPAYAGTEAKPKS	419
VgrG6	EFVVTGQSFQVRNNLPQDLAQHIGTE-SDATPFATSIQAQRRGIPLTPAYAGTEAKPKS *****: * . * * * * . * : * : * . : * * * * : * * * * : * * * * : * . *	419
VgrG1	RGVQTATVVGPAGEEVHTDHGRIKVQFHWRPDEHPTIGAALDDKSSCWLVRVAMPSAGA	469
VgrG2	RGVQTATVVGPAGEEVHTDHGRIKVQFHWRPDEHPTIGAALDDKSSCWLVRVAMPSAGA	469
VgrG3	RGVQTATVVGPAGEEVHTDHGRIKVQFHWRPDEHPTIGAALDDKSSCWLVRVAMPSAGA	469
VgrG4	QGAQTATVVGPAGEEVHTDEQGRVKVQFHWRQEEHPTIGAGMDDKSSCWLVRVAMPSAGA	468
VgrG5	RGVQTATVVGPAGEEVHTDHGRIKVQFHWRPDEHPTIGAALDDKSSCWLVRVAMPSAGA	479
VgrG6	LGVQTATVVGPAGEEVHTDHGRIKVQFHWRPDEHPTIGASLDDKSSCWLVRVAMPSAGA *.*****: * . * * * * . * : * : * * * * : * * * * . : * * * * * : * . *	479
VgrG1	GWGHQFIPRIGQEVLVDFIEGDIRPVITGVLYNGSHPTPDFSGAGSLPANKTLSGIKSK	529
VgrG2	GWGHQFIPRIGQEVLVDFIEGDIRPVITGVLYNGSHPTPDFSGAGSLPANKTLSGIKSK	529
VgrG3	GWGHQFIPRIGQEVLVDFIEGDIRPVITGVLYNGSHPTPDFSGAGSLPANKTLSGIKSK	529
VgrG4	AWGHQFIPRIGQEVLVNFIEGDIRPLITGVLYNGSHPPPDFSGAGALPANKTLSGIKSK	528
VgrG5	GWGHQFIPRIGQEVLVDFIEGDIRPVITGVLYNGSHPTPDFSGAGALPANKTLSGIKSK	539
VgrG6	GWGHQFIPRIGQEVLVDFIEGDIRPVITGVLYNGSHPTPDFSGAGSLPANKTLSGIKSK .*****: * . * * * * . * : * * * * : * * * * . : * * * * * : * . *	539
VgrG1	EHQGGGYNELLFFDTPGEVRAKLSSEPGKTQLNQGYLAHPRSNKGKAQPRGDGFELRTDHH	589
VgrG2	EHQGGGYNELLFFDTPGEVRAKLSSEPGKTQLNQGYLAHPRSNKGALPRGDGFELRTDHH	589
VgrG3	EHQGGGYNELLFFDTPGEVRAKLSSEPGKTQLNQGYLAHPRSNKGKAQPRGDGFELRTDHH	589
VgrG4	EHQGGAYNELLFFDTPGEVRAKLSSELGKTQLNQFLTHPRSNKGKAQPRGEFELRTDHH	588
VgrG5	EHQGGGYNELLFFDTPGEVRAKLSSEPGKTQLNQGYLAHPRSNKGKAQPRGDGFELRTDHH	599
VgrG6	EHQGGGYNELLFFDTPGEVRAKLSSEPGKTQLNQGYLAHPRSNKGKAQPRGDGFELRTDHH *****.*****: * . * * * * . * : * * * * : * * * * . * : * * * * : *	599
VgrG1	GAIRAAHGLLLTTEAQNGASGKQLAEREHAQSQLDAALSLSQALAETASGQLADTMETGPD	649
VgrG2	GAIRAAHGLLLTTEAQNGASGKQLAEREHAQSQLDAALSLSQALAETASGQLADAMETGPD	649
VgrG3	GAIRAAHGLLLTTEAQNGASGKQLAEREHAQSQLDAALSLSQALAETASGQLADTMETGPD	649
VgrG4	GAIRAAHGLLLSTEAQNGASGKQLAEREHAQSQLQSAVALSQALAETATGQLADTMETGPD	648
VgrG5	GAIRAAHGLLLTTEAQNGASGKQLAEREHAQSQLDAALSLSQALAETASGQLADAMETGPD	659
VgrG6	GAIRAAHGLLLTTEVQNGASGKQLAEREHAQSQLDAALSLSQALAETASGQLADTMETGPE *****: * . * * * * . * : * * * * : * * * * . * : * * * * : *	659
VgrG1	EIGPDNAKAGKKTDGHLQHHADALKAWEAGSNTDKDGKTAKDQAGQQPLLVLSAPAGIAS	709
VgrG2	EIGPDNAKAGKKTDGHLQHHVDALKAWEAGSNTDKDGKTAKDQAGQQPLLVLSAPAGIAA	709
VgrG3	EIGPDNAKAGKKTDGHLQHHADALKAWEAGSNTDKDGKTAKDQAGQQPLLVLSAPAGIAS	709
VgrG4	GIGEDNAKAGKKAKGHMHQHQLDALAAWEAGSNTDKDGKTAKDQAGQQPQLVLSGPAGIAS	708
VgrG5	EIGPDNAKAGKKTDGHLQHHADALKAWEAGSNTDKDGKTAKDQAGQQPLLVLSAPAGIAA	719
VgrG6	EIGPDNAKAGKKS D GHLQHHADALKAWEAGSNTDKDGKTAKDQAGQQPLLVLSAPAGIAA ** *****: * . * * * * . * : * * * * : * * * * . * : * * * * : *	719
VgrG1	LTEQSQT VSAGQN LN LIA QR DAN HTT GRR WL HNV GQH IS LF VAG V KDK VAL KL IA AK GKV	769
VgrG2	LTEQSQT VSAGQN LN LVA QR DAN HTT GRR WI HNV GQH IS LF VAG V KDK VAL KL IA AK GKV	769
VgrG3	LTEQSQT VSAGQN LN LIA QR DAN HTT GRR WL HNV GQH IS LF VAG V KDK VAL KL IA AK GKV	769
VgrG4	VTEQSQT LA AGAN LN LV V QRD AN HTT GRR W HNV GKH IS LF VAG I KDN T AM KL IA AK GKV	768
VgrG5	LTEQSHT VSAGQN LN LVA QR DAN HTT GRR WL HNV GQH IS LF VAG V KDK VAL KL IA AK GKV 779	779

VgrG6	LTEQSHTVSAGQNLNLAQRDANHTTGRRIHNVGQHISLFVAGVKDKVALKLIAAKGKV :*****: * : * * * : . *****: * * : * * : * * : * : * * * * * *	779
VgrG1	QVQAQSDAMELTADKDVTIMSCKERIVVNAKDEILLTA-GGAYIRLKGNNIEVHAPGTVS	828
VgrG2	QVQAQSDAMELTADKDVTITSAKQTIHVNAKQEILTS-GGAYIRLKDGIELHAPGTVS	828
VgrG3	QVQAQSDAMELTADKELTITSAKGVQIAASQEVLTS-GGGYIRIAGGNIEIHCPSVS	828
VgrG4	QILAQSDAMEWTADKDVTITSCKDSITIAAKEEILNNGGAYIRLAGGNIEVHCPGTVS	828
VgrG5	QVQAQSDAMELTADKDVTITSCKDSITIAAKEEILNNGGAYIRLAGGNIEVHCPGTVS	838
VgrG6	Q--AQSDAMELTADKDVAITSVKQVFNGKQEILTS-GGAYVRIKDGIELHAPGTVS * * * * * * * : * : * . . . : * : * . * : * : * . * . : *	836
VgrG1	VKAQQHKLSGPDNMTIPMPVFPKGKFCLQ---CMLNAIKSGSPLA-GQ-----	872
VgrG2	IKGASHNFSGPDQMNPPLPRFPNT-VCKQ---CMAQAFSQANPLV-AAK-----	872
VgrG3	VKGASHSLSGPASLSTPTPAFKPGTGNL---QVIHEFANGFSMN-QGKFVVTDAIGVKH	884
VgrG4	VKGAAQHNLSGPDKMTVAHPAFFPKNIPKQNIQLKVNHSFVEGDHAVPGMPFKLYADGAMIK	888
VgrG5	VKGASHDLSPGASMNPPLPTLPKDKYTP---PNTHPFSE-----	874
VgrG6	FKGASHDWSPASTNLPPTLQPQGDTPS---CQLAAIQHKSGMT-KK----- . * . * . * * . . * : : :	879
VgrG1	-----	872
VgrG2	-----	872
VgrG3	KGVLDDEAGKAMVHGLPVGPAQVDFLGRPHKDKADIFPFVEQ-PEAALQQMGETVKGKAMQ	943
VgrG4	QGVLDDETGHLPVEHNVLTQKYTLELANGIKRHFNMVPSYAKPPHDELAN-GGINHGEQSD	947
VgrG5	-----	874
VgrG6	-----	879
VgrG1	-----	872
VgrG2	-----	872
VgrG3	ELGSTLGKTSPQLANAMGQASAMAGQAQQALALARNPQSAIPALAAKAKEVLASKAQGAL	1003
VgrG4	KLD-----QYQDFF-----GGKGEQA-----	963
VgrG5	-----	874
VgrG6	-----	879
VgrG1	-----	872
VgrG2	-----	872
VgrG3	PSLPKLF	1010
VgrG4	-----	963
VgrG5	-----	874
VgrG6	-----	879

Fig S2 The six VgrG proteins of *C. violaceum* show high sequence identity and similar domain organization. (A) Identity percentages shared among the six VgrG proteins of *C. violaceum*. The values were obtained with the Clustal Omega tool for multiple alignment. (B) Modular domains of VgrG proteins from analysis in the Pfam database. Green, red, and blue indicate the typical VgrG domains. All VgrGs have an additional C-terminal domain, DUF2345 (yellow). VgrG3 contains another additional region at C-terminus with low complexity (light blue). VgrG1, VgrG2, VgrG4, and VgrG5 have putative signal sequences at their N-termini (orange). (C) Multiple sequence alignment of VgrGs using the Clustal Omega tool.