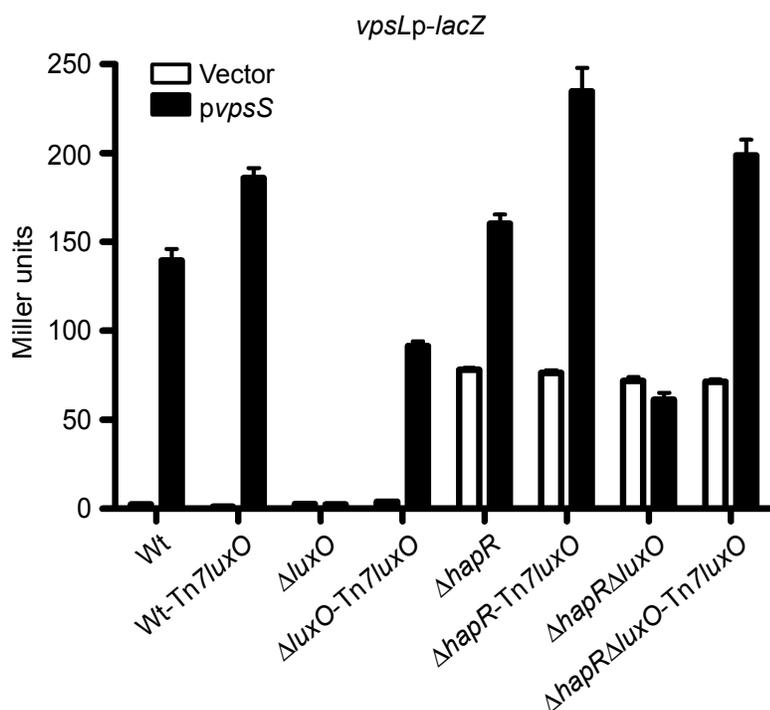


1 Supplementary Table S1. Primers used in this study.

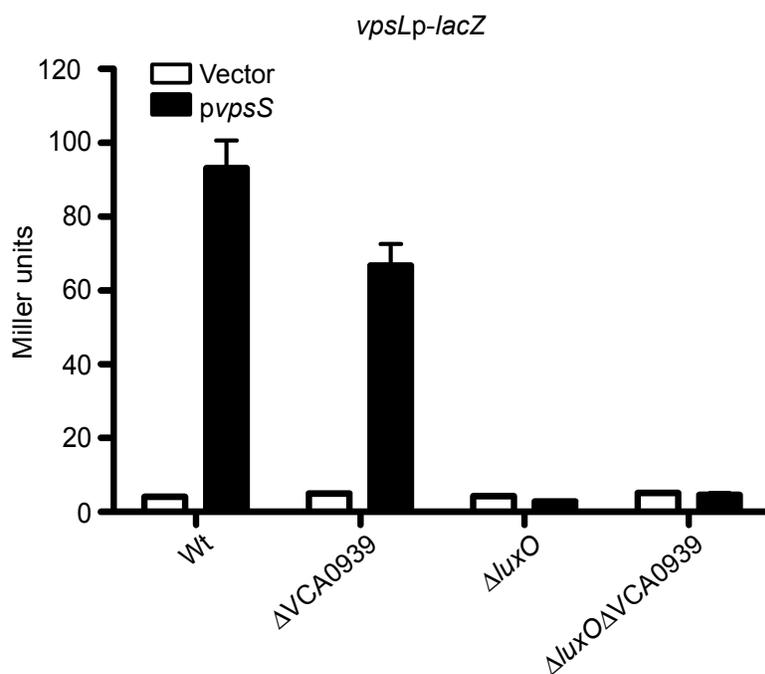
Primers	Nucleotide sequences
Phospho-transfer cloning primers	
<i>cqsS</i> _PTP_HK_F	CACCTTGTTCCGTAACCAAATCTCTC
<i>cqsS</i> _PTP_HK_R	TTATTCTGTTTTATCTCGTTAACCGTATC
<i>cqsS</i> _PTP_RD_F	CACCTTGCAGCGTATTTTGGTG
<i>cqsS</i> _PTP_RD_R	TTACACCCAAGCTGCCACTTTAT
<i>luxQ</i> _PTP_HK_F	CACCTTGCAAGCCGCAAGGCGC
<i>luxQ</i> _PTP_HK_R	TTACGGCGCATCCGGTTTTTCTA
<i>luxQ</i> _PTP_RD_F	CACCTTGCTGCGTGTACTGTTGGTG
<i>luxQ</i> _PTP_RD_R	TTAATTTAAGCCAGCGTTTTTTTGGC
<i>luxO</i> _PTP_RD_F	CACCTTGGTAGAAGACACGGCGTC
<i>luxO</i> _PTP_RD_R	TTATTTGAGTTTCGAGGCTTTGC
<i>luxO</i> _PTP_R	TTACCGTTCCTTCTCTTTTTCTT
<i>luxU</i> _PTP_F	CACCTTGAGAGAATGGATCAACCA
<i>luxU</i> _PTP_R	TTAATGAACATAAATCGGAGTAGCATTG
<i>vpsR</i> _PTP_RD_F	CACCTTGAGCACTCAATTCCGTATGG
<i>vpsR</i> _PTP_RD_R	TTACTTTTCCAACCTCAGCATGC
<i>vpsR</i> _PTP_R	TTAGAAGTTTTCATCGGTGATCA
<i>vpsS</i> _PTP_HK_F	CACCTTGCCTTTGGCGCA
<i>vpsS</i> _PTP_HK_R	TTACGGTTTAATATTTTTCAAGCGAG
<i>vpsS</i> _PTP_RD_F	CACCTTGCATCACATTCTTGTGTG
<i>vpsS</i> _PTP_RD_R	TTATGGATTAAGGAAACGTTTCA
<i>vpsS</i> _PTP_F	CACCTTGAAAATGGATTCTGAATACAC
VC0303_PTP_RD_F	CACCTTGCTGCAACATCTGCGTGTGCT
VC0303_PTP_RD_R	TTAAGACAGACTATTCAGTAAGG
<i>chiS</i> _PTP_RD_F	CACCTTGCCACTTCTGTTGGTCGCCGAT
<i>chiS</i> _PTP_RD_R	TTAGAGGTGAGCGACAATGCGC
<i>vieS</i> _PTP_RD_F	CACCTTGGGTCACGTATTAGTGGCCGATGAT
<i>vieS</i> _PTP_RD_R	TTAGAGTACTTTGCGCAAATTGGCTAAG
VC2369_PTP_RD_F	CACCTTGCTGAATATTTTCATGGTGAAGACATTGA
VC2369_PTP_RD_R	TTACGTCATCTTCGCAATCACTTCTCG
VC1831_PTP_RD_F	CACCTTGAAAGCCAAAACGTATCCCGG
VC1831_PTP_RD_R	TTACTTACCGATGGTAAAGATG
<i>varS</i> _PTP_RD_F	CACCTTGTGCGTGCATGGCGGTCG
<i>varS</i> _PTP_RD_R	TTAGCTCCAATGTACCAACACTTGTGCA
Overexpression primers	
VC0303_pBAD_F	GATCCTCGAGGATGCAAGGTTGGTTGGTAATTC
VC0303_pBAD_R	GATCGAATTCCAGACAGACTATTCAGTAAGGCTCTCA
VC1831_pBAD_F	GATCCTCGAGGTTGGTTATGGCTATTCGCTCCTCG
VC1831_pBAD_R	GATCGAATTCCCTCTACCGATGGTAAAGATGGTTCC
VCA0709_pBAD_F	GAGCTCGAGAGTGCAAACGCAGATTTGGCATGA
VCA0709_pBAD_R	TCGAATTCCTTCTTTACTCAGCAAATCCAATGC
VCA0719_pBAD_F	GATCCTCGAGCATGAGTGCCGAAGCGCAATA
VC A0719_pBAD_R	GATCGAATTCCGATCGCAGGGAACAGTAAGGTA
<i>chiS</i> _pBAD_F	GATCCTCGAGTTTGGTCTATGCCACGCTT
<i>chiS</i> _pBAD_R	GATCGAATTCCTTCACTGGTCAGGAGTTTTTGCAA
<i>cqsS</i> _pBAD_F	GATCCTCGAGAGTGATAGTGAGCATGGATGTAATAAAGAGA
<i>cqsS</i> _pBAD_R	GATCTCTAGAAACACCCAAGCTGCCACTTTATTTAG
<i>luxQ</i> _pBAD_F	GATCCTGCAGGCTTGAACATTCGACCTAGCCAAATC
<i>luxQ</i> _pBAD_R	GATCTCTAGAAAATTTAAGCCAGCGTTTTTTTGGCC
<i>varS</i> _pBAD_F	GATCCTCGAGAATGACTCAAAGATATGGCTTGGCG
<i>varS</i> _pBAD_R	GATCTCTAGAAAGTTCAGATAGTCGCGAGAGGCTTC
<i>vpsS</i> _pBAD_F	GATCCTCGAGCATGAAAATGGATTCTGAATACACA
<i>vpsS</i> _pBAD_R	GATCGAATTCCTGGATTAAGGAAACGTTTCACAAC

<i>vpsV_pBAD_F</i>	GATCCTCGAGAGTGTTCATCTCACGTATACAAAACACTCGTT
<i>vpsV_pBAD_R</i>	GATCTCTAGAAATGCCTCATAAAATACAACAGAAGAAAT
Deletion primers	
<i>vpsS_del_A</i>	CATGCCATGGGTGGATTGGGGATCACTCAGG
<i>vpsS_del_B</i>	TGCTGCGGATTTTCAGAATCCATTTTCATGCCTC
<i>vpsS_del_C</i>	GGATTCTGAAATCCGCAGCAAAGACATCATGG
<i>vpsS_del_D</i>	GCTCTAGAGAAGGACTTCCCCACGGCTT
<i>vpsV_del_A</i>	GCTCTAGACACGAGGAACCCGCGTTCAT
<i>vpsV_del_B</i>	TACCGTGCCTAGCCGCATTGAACGAGTTTTG
<i>vpsV_del_C</i>	AATGCGGCTAGCGCACGGTAACTTAATGATTTT
<i>vpsV_del_D</i>	CGAGCTCCGCTGATTTGAGCTTGAATCCC
<i>vpsSV_del_A</i>	GATCTCTAGAGCCGAAAAACTCACAAAAGC
<i>vpsSV_del_B</i>	TAATGGGGATGGTTGTTTTTAGCCGCATTG
<i>vpsSV_del_C</i>	AAAAACAACCATCCCCATTATCGCACTCAC
<i>vpsSV_del_D</i>	GATCGAGCTCGAAGCGTCAATCATGAGCAA
<i>luxU_del_A</i>	CATGCCATGGCCGCTGCATTTACCGCCATT
<i>luxU_del_B</i>	ATTGATGCGTGATCCATTCTCTCATCGCTTACC
<i>luxU_del_C</i>	AGAATGGATCACGCATCAATGCTACTCCGA
<i>luxU_del_D</i>	GCTCTAGACCATCCGATCTGGCAGCCCT
<i>VC1080_del_A</i>	GATCGAGCTCAGATGGACGATCAACGGATG
<i>VC1080_del_B</i>	GATTACTCACTGTGCGAAATGTTAAATGCGACACTC
<i>VC1080_del_C</i>	CATTTTCGACAGTGAGTAATCGATGACAGTAGAAGC
<i>VC1080_del_D</i>	GATCCCATGGATACTGCAATTTGGCGAAGC
<i>VC2038_del_A</i>	CATGCCATGGGAAACCATCGCCAAACTGTTT
<i>VC2038_del_B</i>	GCACAGACCTTGCCCTTCGGATGAATTATCAA
<i>VC2038_del_C</i>	TCCGAAGGCAAGGTCTGTGCCATGCCTAAC
<i>VC2038_del_D</i>	GCTCTAGAGAATCAAAGCGGGTGATGAAG
<i>VCA0939_del_A</i>	CGAGCTCGGGCAGCACTGGTGTACGCCCTTG
<i>VCA0939_del_B</i>	CGGAGCGTCGCATAGGCTCACCTCTCACTG
<i>VCA0939_del_C</i>	TGAGCCTATGCGACGCTCCGATCAAGCACTG
<i>VCA0939_del_D</i>	GATCTCTAGACTAGGCGAGCGATGGCTTCTGGCG
<i>luxQ_del_A</i>	ATCGCCATGGATATGAACGCGGTGCACC
<i>luxQ_del_B</i>	TAAGCCTTGGCTAGGTGCAATGTTCAA
<i>luxQ_del_C</i>	AGCCAAGGCTTAAATTGAGCCAGCGAG
<i>luxQ_del_D</i>	CGATTCTAGACCTGAGGATACTTATGCG
<i>cqsS_del_A</i>	ATCGCCATGGTGGATTTGATGGTGAAG
<i>cqsS_del_B</i>	CACTTTTACATCCATGCTCACTATCAC
<i>cqsS_del_C</i>	GATGTAAGAGTGGCAGCTTGGGTGTAG
<i>cqsS_del_D</i>	CGATGAGCTCGCATTTAGATCGTATGGC
Site-directed mutation primers	
<i>vpsR_5'_F</i>	ATCGCCATGGACGATGCTGAAGACCAAG
<i>vpsR_5'_R</i>	CTGCTACTTGAGTACAGC
<i>vpsR_3'_F</i>	CGTGATGCACTGCTGCTG
<i>vpsR_3'_R</i>	CGATTCTAGACCGCAGCCTAATAAGAGG
<i>vpsR_5'</i>	GATCGGATCCATGAGCACTCAATCCGTATGG
<i>vpsR_3'</i>	CGATCTCGAGTTAGAAGTTTTCATCGGTGATC
<i>vpsR_D59A_F</i>	GGTATTGTGGCTTTAAGCCATGATGAATTTAGC
<i>vpsR_D59A_R</i>	ATGGCTTAAAGCCACAATACCAATACATGGCCC
<i>vpsR_D59E_F</i>	GGTATTGTGGAATTAAGCCATGATGAATTTAGC
<i>vpsR_D59E_R</i>	ATGGCTTAAATCCACAATACCAATACATGGCCC
Promoter cloning primers	
<i>vpsT promoter F</i>	GCTCTAGAGCGCTATCTTTTGTTTACTTGACGC
<i>vpsT promoter R</i>	CATGCCATGGCTCCTAACACATCAAGGCTAACATG
<i>vpsR promoter F</i>	GCTCTAGATGAACGATGCTGAAGACCAAGAT
<i>vpsR promoter R</i>	CATGCCATGGGTACTGAATCCATACGGAAT



Supplementary Fig. S1. Complementation of *vpsL* expression in $\Delta luxO$ and $\Delta luxO\Delta hapR$.

VpsS activation of *vpsL* expression was only observed in $\Delta luxO$ and $\Delta hapR\Delta luxO$ strains carrying a chromosomally-inserted copy of *luxO* ($\Delta luxO$ -Tn7luxO and $\Delta hapR\Delta luxO$ -Tn7luxO). Wild-type (Wt) and $\Delta hapR$ strains, with or without Tn7luxO (Wt, Wt-Tn7luxO, $\Delta hapR$ and $\Delta hapR$ -Tn7luxO), exhibited increased *vpsL* expression when *vpsS* is overexpressed. Furthermore, while wild-type strains (with or without Tn7luxO) carrying the vector exhibited low basal level of *vpsL* expression, $\Delta hapR$ strains (with or without Tn7luxO) carrying the vector exhibited a higher level of *vpsL* expression, consistent with the negative role of HapR on *vpsL* expression. Strains were grown in the presence of ampicillin and 0.2% arabinose. Error bars indicate standard deviations of 8 technical replicates. One representative experiment of 3 biological replicates is shown.



Supplementary Fig. S2. VCA0939 does not regulate *vpsL* expression. VCA0939, which encodes a protein predicted to contain a GGDEF domain and whose expression is regulated by LuxO but not HapR, is not involved in regulating *vpsL* expression. A Δ VCA0939 strain, carrying the overexpression plasmid *pvpsS*, exhibited VpsS activation of *vpsL* expression, similar to that of wild type (Wt). As expected, deletion of *luxO* in both wild-type and Δ VCA0939 strains abolished VpsS activation of *vpsL* expression to the basal level observed in all strains carrying the control vector. Strains were grown in the presence of ampicillin and 0.2% arabinose. Error bars indicate standard deviations of 8 technical replicates. One representative experiment of 4 biological replicates is shown.

