Table S1 Strains and plasmids used in this study

|  |  |  |
| --- | --- | --- |
| Strains and plasmids | Relevant genotype/description | Source |
| Strains |  |  |
| *V. parahaemolyticus* ATCC17802 | Wild-type | ATCC |
| Δ*vp0980* | ATCC17802 Δ*vp0980* | This work |
| Δ*LPS* | ATCC17802 Δ*vp0190-vp0214* | This work |
| Δ*vp0980*:p*vp0980* | Δ*vp0980* complemented with *vp0980* in pMMB207 | This work |
| Δ*vp0980*:p*vp0980*Δ91-113 | Δ*vp0980* complemented with *vp0980*Δ91-113  | This work |
| Δ*vp0980*:p*vp0980*Δ114-127 | Δ*vp0980* complemented with *vp0980*Δ114-128  | This work |
| Δ*vp0980*:p*vp0980*Δ128-150 | Δ*vp0980* complemented with *vp0980*Δ128-150  | This work |
| *E. coli* SM10λpir  | KmR, *thi-1*, *thr*, *leu*, *tonA*, *lacY*, *supE*, *recA*::RP4-2-Tc::Mu, λpir  | Laboratory stock |
| *E. coli* DH5αλpir  | *supE44*, Δ*lacU169(ΦlacZΔM15)*, *recA1*, *endA1*, *hsdR17*, *thi-1*, *gyrA96*, *relA1*, λpir | Laboratory stock |
| Plasmids |  |  |
|  pEVS104 | conjugative helper plasmid | [1] |
| pEVS170 | mini-Tn5-Em, *oriV*R6Kγ\_ *oriT*RP4 Knr | [1,2] |
| pVSV208 | Plasmid expressing a red fluorescent protein  | [3] |
| pGEX-OWB027 | Sequences of OWB027 cloned into pGEX | This work |
| pGEX-OWB028 | Sequences of OWB028 cloned into pGEX | This work |
| pGEX-OWB030 | Sequences of OWB030 cloned into pGEX | This work |
| pGEX-OWB031 | Sequences of OWB031 cloned into pGEX | This work |
| pGEX-OWB035 | Sequences of OWB035 cloned into pGEX | This work |
| pMMB207-vp0980pMMB207-vp0879 | vp0980 with 6xHis amino acid at the C-terminus inserted into pMMB207vp0879 with 6xHis amino acid at the C-terminus inserted into pMMB207 | This workThis work |
| pMMB207-vp0980Δ91-113 | vp0980 lacking amino acids 91-113 cloned into pMMB207 | This work |
| pMMB207-vp0980Δ114-127 | vp0980 lacking amino acids 114-127 cloned into pMMB207 | This work |
| pMMB207-vp0980Δ128-150pMMB207-vp0879K54A | vp0980 lacking amino acids 128-150 cloned into pMMB207vp0879 with mutation of K54A cloned into pMMB207 | This workThis work |

Table S2 Primers used in this study

|  |  |
| --- | --- |
| Primer name | DNA sequence (5′-3′) |
| OWB027\_FwBamH I | CGGGATCCATGCAAGATACGAATCTTCCACC |
| OWB027\_ReEcoR I | CGGAATTCTTATCGCCCCAGTTGTTTGCC |
| OWB028\_FwBamH I | CGGGATCCATGGCTGATACTTCATACAAAGCA |
| OWB028\_ReEcoR I | CGGAATTCTTATGCTGGTTCTTCGAATTTAGTAA |
| OWB030\_FwBamH I | CGGGATCCATGACCTTACTAGATGCAATCAATAT |
| OWB030\_ReEcoR I | CGGAATTCCTATGTATATAACGCAGAGCGGA |
| OWB031\_FwBamH I | CGGGATCCATGGCTCGACCATTTGAGGG |
| OWB031\_ReEcoR I | CGGAATTCTTATACGCGACGACGGCGTT |
| OWB035\_FwBamH I | CGGGATCCATGGCATTAAGTGTACAACGTGC |
| OWB035\_ReEcoR I | CGGAATTCCTACTCTTGGTCTTTATCGTTAGAT |
| pmmbvp0980\_1F | AGCTCGGTACCCGGGGATCCTCTAGTAAGGAGGTAGGATAATATGCCTAGAAAGCTGATAAAAC |
| pmmbvp0980\_2Rpmmbvp0979\_1Fpmmbvp0879\_2R | TCTCATCCGCCAAAACAGCCAAGCTTTAATGGTGATGGTGATGATGTCTTACTTTTCGTTTTTGCGGTACCCGGGGATCCTCTAGAAAAGTTATTCCTGTTGGTTATGACTGCTCAAAATATAGACTCTCATCCGCCAAAACAGCCAAGCTTTAATGGTGATGGTGATGATGTTGTTCAGTATGGAACTGC |
| pmmbvp0980\_91\_1R | CATGGTTATAGGGTTGCTGAC |
| pmmbvp0980\_91\_2F | GTCAGCAACCCTATAACCATGTTTGAGCTATCTTGGGAC  |
| pmmbvp0980\_114\_1R | ATAGAATGGCTGAGGTGGAAC  |
| pmmbvp0980\_114\_2F | GTTCCACCTCAGCCATTCTATATTGGGCCTCCATTCCTATTG  |
| pmmbvp0980\_128\_1R | CGTGCTCATCTGTTGCATG  |
| pmmbvp0980\_128\_2Fpmmbvp0879\_K54A\_1Rpmmbvp0879\_K54A\_2F | CATGCAACAGATGAGCACGATTCGCGGATTGTGGCGCTAC TGCGCTGCCCACGTAAACTTGCAAGTTTACGTGGGCAGCGCACGCCGCGCGTGTGAAGAAG |

Table S3 ORFs of the phage OWB genome and BLAST hits

| Phage OWB’s ORFs | BLASTP best match | Identity (%) |
| --- | --- | --- |
| Vp-OWB001 | hypothetical protein [VP93] | 100 |
| Vp-OWB002 | hypothetical protein [VP93] | 96 |
| Vp-OWB003 | hypothetical protein phiKDA1\_10 [Enterobacter phage phiKDA1] | 59 |
| Vp-OWB004 | hypothetical protein VPP93\_gp5 [VP93] | 94 |
| Vp-OWB005 | hypothetical protein VPP93\_gp6 [VP93] | 86 |
| Vp-OWB006 | Putative peptidase [VP93] | 92 |
| Vp-OWB007 | putative primase [VP93] | 96 |
| Vp-OWB008 | putative DNA helicase [VP93] | 97 |
| Vp-OWB009 | hypothetical protein VPP93\_gp12 [VP93] | 95 |
| Vp-OWB010 | putative DNA polymerase [VP93] | 96 |
| Vp-OWB011 | hypothetical protein VPP93\_gp15 [VP93] | 66 |
| Vp-OWB012 | hypothetical protein VPP93\_gp16 [VP93] | 84 |
| Vp-OWB013 | hypothetical protein VPP93\_gp17 [VP93] | 94 |
| Vp-OWB014 | hypothetical protein VPP93\_gp18 [VP93] | 94 |
| Vp-OWB015 | hypothetical protein VPP93\_gp19 [VP93] | 84 |
| Vp-OWB016 | hypothetical protein VPP93\_gp20 [VP93] | 94 |
| Vp-OWB017 | hypothetical protein VPP93\_gp21 [VP93] | 98 |
| Vp-OWB018 | putative exonuclease [VP93] | 99 |
| Vp-OWB019 | MULTISPECIES: hypothetical protein [Streptomyces] | 64 |
| Vp-OWB020 | putative endonuclease [VP93] | 99 |
| Vp-OWB021 | hypothetical protein VPP93\_gp24 [VP93] | 98 |
| Vp-OWB022 | / | / |
| Vp-OWB023 | putative RNA polymerase [VP93] | 98 |
| Vp-OWB024 | / | / |
| Vp-OWB025 | hypothetical protein VPP93\_gp26 [VP93] | 98 |
| Vp-OWB026 | putative head-tail connector protein [VP93] | 98 |
| Vp-OWB027 | putative scaffolding protein [VP93] | 94 |
| Vp-OWB028 | putative capsid protein [VP93] | 96 |
| Vp-OWB029 | / | / |
| Vp-OWB030 | putative tail tubular protein A [VP93] | 97 |
| Vp-OWB031 | putative tail tubular protein B [VP93] | 96 |
| Vp-OWB032 | hypothetical protein VPP93\_gp32 [VP93] | 91 |
| Vp-OWB033 | hypothetical protein VPP93\_gp33 [VP93] | 93 |
| Vp-OWB034 | putative internal core protein [VP93] | 98 |
| Vp-OWB035 | putative tail fiber protein [VP93] | 94 |
| Vp-OWB036 | putative glycosyl hydrolase [VP93] | 98 |
| Vp-OWB037 | putative DNA maturase A [VP93] | 97 |
| Vp-OWB038 | putative DNA maturase B [VP93] | 98 |
| Vp-OWB039 | hypothetical protein VPP93\_gp39 [VP93] | 97 |
| Vp-OWB040 | hypothetical protein VPP93\_gp40 [VP93] | 37 |
| Vp-OWB041 | / | / |
| Vp-OWB042 | hypothetical protein VPP93\_gp41 [VP93] | 93 |
| Vp-OWB043 | hypothetical protein VPP93\_gp42 [VP93] | 99 |

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3. Dunn AK, Millikan DS, Adin DM, et al. New rfp- and pES213-derived tools for analyzing symbiotic Vibrio fischeri reveal patterns of infection and lux expression in situ. Appl Environ Microbiol. 2006 Jan;72(1):802-10.