

Table S3 Oligonucleotides used in this study

Oligonucleotide	Sequences (5'-3') (underlined is restriction enzyme site)
gvpA1_5F_BamHI	CGGGATCCATCCCTGTAATCTTGAC
gvpA1_5R_XhoI	ATTACGCCCTCGAGAGCCATGATGGCGTCTCC
gvpA1_3F_XhoI	CATGGCTCTCGAGGCGTAATTAAGTAAGCAG
gvpA1_3R_SpeI	CTACACTAGTGTGCCAAGTGCCAACG
gvpA2_5F_BamHI	CGGGATCCGCTGATTTTGACAAAATCCG
gvpA2_5R_XhoI	GTTACTCCCTCGAGTGGCATAATGTGTACGCTC
gvpA2_3F_XhoI	TATGCCACTCGAGGAGTAACACTATGACAACC
gvpA2_3R_SpeI	CTACACTAGTCTGGCGATATCGCTTGCG
gvpA3_5F_SalI	ACGCGTCCGACGGCCGATTGCTGTAAGG
gvpA3_5R_XhoI	AATCCTTACTCGAGGCTCATGGTGCAATCC
gvpA3_3F_XhoI	ATGAGCCCTCGAGTAAGGATTATCTTTTTTATGCC
gvpA3_3R_SpeI	CTACACTAGTATTGCTGTATGCCGATAC
gvpF1_5F_BamHI	CGGGATCCCTAATCAGAGAGTTGCGTGG
gvpF1_5R_XhoI	GTCAGACTCGAGAAATACTCATCATGCACTCC
gvpF1_3F_XhoI	GAGTATTCTCGAGTCTGACTGAGGCTAAGCC
gvpF1_3R_SpeI	CTACACTAGTGGCAATTTCATCCATGCC
gvpF2_5F_BamHI	CGGGATCCCGGTTTGGATGACGTACG
gvpF2_5R_XhoI	GTAGGCCCTCGAGTTCTGTGTTCATCGTCTAGC
gvpF2_3F_XhoI	CACAGAACTCGAGGCGCTACAGTTTTTGCCAAC
gvpF2_3R_SpeI	CTACACTAGTCTATGCAGTTTTCTCATCC
gvpF3_5F_BamHI	CGGGATCCCTTTGCTGAAGTGATTGCCG
gvpF3_5R_XhoI	GGGAGGCTCGAGGCGCTACAGTAGTAAGCTC
gvpF3_3F_XhoI	GTACGGCTCGAGCCCTCCCTATAACTTCGCC
gvpF3_3R_SpeI	CTACACTAGTCAAGTTCCTAATTTCCGACG
gvpC_5F_BamHI	CGGGATCCCGTAAGGCGCACATCATGACC
gvpC_5R_XhoI	GCTCGTCTCGAGACCGTCTGTTAAGCATCC
gvpC_3F_XhoI	GACGGTCTCGAGACGAGCCTCGCAGTCTAGC
gvpC_3R_SpeI	CTACACTAGTCTTGCAACATGGTAACGG
gvpG_5F_BamHI	CGGGATCCATGCGCTCTGTGTTCG
gvpG_5R_XhoI	GTCTGCTCCGAGGATGTTCATCGATCAGCAGC
gvpG_3F_XhoI	GACATCCTCGAGGACGACGACGAGGATGAGC
gvpG_3R_SpeI	CTACACTAGTGGAAATAGTCGATTGACC
gvpK_5F_SalI	ACGCGTCCGACGGATTAGATGAAATCATGG
gvpK_5R_XhoI	GCCTAGCTCGAGATGGTGGCATAACTGTAAGG
gvpK_3F_XhoI	CACCATCTCGAGCTAGGCCGATTGCTGTAAGG
gvpK_3R_SpeI	CTACACTAGTGTGATGACAACCCCTTTGTCC
gvpN_5F_BamHI	CGGGATCCACAGAGTGAAGAACGTGCC
gvpN_5R_XhoI	GTAGTTCCTCGAGCTGCGAAACGGTATTTTG
gvpN_3F_XhoI	TGCGAGCTCGAGGAACTACAGATACTGCATGC
gvpN_3R_SpeI	CTACACTAGTATACGTCCAAAATCAGCG
gvpH_5F_BamHI	CGGGATCCCGCGACTAAACCCATTCC
gvpH_5R_XhoI	CCGTTCTCGAGCTGGTTTCCATCCAAACC
gvpH_3F_XhoI	AACCAGCTCGAGGAACGGTCTTGCCGTAATGG
gvpH_3R_SpeI	CTACACTAGTGTGATGGTAAAAAATGCG
gvpX_5F_SalI	ACGCGTCCGACACTGTGCCAGGCAATCACG
gvpX_5R_XhoI	GGATGTCTCGAGCCTCTGCCGAAACAGAC
gvpX_3F_XhoI	CAGAGGCTCGAGACATCCATATAAGTTTACGG
gvpX_3R_SpeI	CTACACTAGTCAACGCTTTGAGTTTTCGG
gvpV_5F_BamHI	CGGGATCCACCATGTTGCAAGGTAACG
gvpV_5R_XhoI	TGCGAACTCGAGGAGGACGAGTACTTATAGCC
gvpV_3F_XhoI	CGTCCCTCTCGAGTTGCGAATCAAGTATTGAGG
gvpV_3R_SpeI	CTACACTAGTGGTTTTCAATAATCTCTTCGC
gvpW_5F_BamHI	CGGGATCCCCAATGCCAATAATCACCG
gvpW_5R_XhoI	ACTCTCTCGAGCTTGGGATAAATAGCAGG
gvpW_3F_XhoI	CCCAAGCTCGAGGAGAGTTCATTTGCTGTC
gvpW_3R_SpeI	CTACACTAGTGTGCTGGCCAGTGTGC
gvpY_5F_SalI	ACGCGTCCGACCAACGTTATGAACGAGATGG
gvpY_5R_XhoI	CGGTTGCTCGAGAAATGGGAAAATGAATCAGC
gvpY_3F_XhoI	CCCATCTCGAGCAACCGTTAGGTAAAAGGGG
gvpY_3R_SpeI	CTACACTAGTATCATCGCCTAGACGGTGC
gvpZ_5F_BamHI	CGGGATCCCTCCGACAAAAGAGTAGGG
gvpZ_5R_XhoI	ACGCACCTCGAGTCTCTCAGACATGACTGGC
gvpZ_3F_XhoI	GAAGAACTCGAGGTGCGTTGGGAAGATGTCGG
gvpZ_3R_SpeI	CTACACTAGTCTATCGCCAAAACATTTCCGG
gvrA_5F_BamHI	CGGGATCCGTTTGTAAAAGTATCGGC
gvrA_5R_XhoI	GATCTTCTCGAGGTCACAAAATATCTTTGTCCG
gvrA_3F_XhoI	TGTGACCTCGAGAAGATCAATGCAGCCGAGG
gvrA_3R_SpeI	CTACACTAGTGAAGCGGGTTCAATCTGC
gvrB_5F_BamHI	CGGGATCCCTGCTGACATTTGTTGAACG
gvrB_5R_XhoI	CAGACACTCGAGTGACATGGTAGCCTGTCC
gvrB_3F_XhoI	CATGTCACTCGAGTGTCTGGGTGAAGGTTCC
gvrB_3R_SpeI	CTACACTAGTCTGGTTCTATGATCTGTGG
gvrC_5F_BamHI	CGGGATCCCTGAAGGATGACTATGGGC
gvrC_5R_XhoI	GTGTCTGCTCGAGAACTATCAGAATGGGTGC
gvrC_3F_XhoI	GATAGTTCTCGAGCAGACACTATCACAGCCG
gvrC_3R_SpeI	CTACACTAGTAGCGAACTGGAACGTACG
RTGL1	ACCGTATTCTGGACAAAAG
RTGL2	GCCATACCGTCTGTTAAGC
RTGL3	AACGAGCCTCGCAGTCTAG
RTGL4	ACGGTATACTGCGAAACGG
RTGL5	ACCAATAGGTTTACAGACAG
RTGL6	ATTCCAGCCACCTATCTG
RTGL7	GTCTTCTGGTTTGCGAATC
RTGL8	TGGCACGATGATTTCTGG

Table S3 Oligonucleotides used in this study

RTGVL9	CTGGTACTCTCTCTGACTG
RTGVL10	GACTCCAGTAAGAACTTGG
RTGVL11	GCTAAAGACATTGGGTTCCG
RTGVL12	TGTATTGCTGGCGATGTCCG
RTGVL13	TTGACACATTTGTGCGACG
RTGVL14	TTAACCATGGTACACACCC
RTGVL15	ATATCCTTGAACCGCTTGG
RTGVL16	GGTCGAATCGGTGAATGG
RTGVL17	GAGTTGGAAGAACGCTCTGC
RTGVL18	AGATACGCACGCGTTTGAG
RTgvp R	AACGCCTCTGACATTATCGG
gvpA1F-EcoRI	<u>GGAAATTC</u> TAGGAGACGCCATCATGGC
gvpA1R-HindIII	CCC <u>AGCTT</u> TAATTACGCTGGAGTCGCTGC
gvpA2F-EcoRI	<u>GGAAATTC</u> TGTGAGCGTACACATTATGC
gvpA2R-HindIII	CCC <u>AGCTT</u> ACTCCCTACCGGGTAAACGG
gvpA3F-EcoRI	<u>GGAAATTC</u> TATAAGGATTTGCACCATGAGC
gvpA3R-HindIII	CCC <u>AGCTT</u> CCCTATAAAATGAGTTTCTTC
gvpCF-EcoRI	<u>GGAAATTC</u> ATAAGGAGAATCCTATGGG
gvpCR-HindIII	CCC <u>AGCTT</u> GGCTAGACTGCGAGGCTCG
gvpGF-EcoRI	<u>GGAAATTC</u> TGAGGCTAAGCCATGCTGC
gvpGR-HindIII	CCC <u>AGCTT</u> TCATTTTCGTCGTACCCTCG
gvpKF-EcoRI	<u>GGAAATTC</u> GTAGGGAGTAACACTATGAC
gvpKR-HindIII	CCC <u>AGCTT</u> TTACAGCAATCGGCCTAGC
gvpF1F-EcoRI	<u>GGAAATTC</u> ATTGAGGAGTGCATGATGAG
gvpF1R-HindIII	CCC <u>AGCTT</u> TCAGTCAGAGAGATTACCAG
gvpF2F-EcoRI	<u>GGAAATTC</u> TTGGCGATGATGCATGACG
gvpF2R-Sall	ACGCGTCGACTCATGATTCGTCAGGTTGG
gvpF3F-EcoRI	<u>GGAAATTC</u> CAACCTGACGAATCATGAGC
gvpF3R-HindIII	CCC <u>AGCTT</u> TTAGCTGGCGAAGTTATAGG
gvpNF-EcoRI	<u>GGAAATTC</u> GCACAGGAGTATTCCATG
gvpNR-HindIII	CCC <u>AGCTT</u> TAGATAAATTACTCCACTGC
gvpVF-EcoRI	<u>GGAAATTC</u> AGTGGAGTAATTATCATGG
gvpVR-HindIII	CCC <u>AGCTT</u> AACTCAATACTTGATTCCG
gvrAF-EcoRI	<u>GGAAATTC</u> CCAATTGGATGTAGTCGATG
gvrAR-HindIII	CCC <u>AGCTT</u> CTACTCATGATTGTTTACC
gvrBF-BamHI	CGGGATCCTAACGACAGGCTACCATGTCAG
gvrBR-HindIII	CCC <u>AGCTT</u> TTAGAGTATAGGTAAGG
gvrCF-EcoRI	<u>GGAAATTC</u> ACCTATACTCTAAAATGATG
gvrCR-HindIII	CCC <u>AGCTT</u> CAACTACTCGCTCGGCTGTG
oREM399	GCTAATCAGGAGCGTTAATTGA
oREM400	AGCAGGAGAGCGGTTGATA
oREM397	AAGCTTTAAGTCTAACTACTGTTGAATTC
oREM398	GTTTAGGTTACTCATCGTTTTGG