|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **query** | **subject protein and annotation** | **length** | **match** | **% identity** | **E-value** |
| FlgT | BCB41585.1 hypothetical protein Vag1382\_07110 | 377 | 377 | 100.0 | 0 |
|  | BCB41739.1 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylate synthase | 76 | 21 | 27.6 | 1.2 |
|  | BCB41028.1 hypothetical protein Vag1382\_01540 | 29 | 14 | 48.3 | 2.4 |
|  | BCB41569.1 5'-nucleotidase | 30 | 9 | 30.0 | 2.5 |
|  | BCB40893.1 fatty acid oxidation complex subunit alpha | 81 | 25 | 30.9 | 4.4 |
|  | BCB41721.1 C4-dicarboxylate ABC transporter | 42 | 9 | 21.4 | 8.3 |
| FlgO | BCB41586.1 membrane protein | 212 | 212 | 100.0 | 4.88E-160 |
|  | BCB43282.1 histidine kinase | 53 | 19 | 35.8 | 1.3 |
|  | BCB42989.1 ribonuclease HI | 33 | 10 | 30.3 | 2.5 |
|  | BCB42669.1 methyltransferase | 25 | 13 | 52.0 | 4.3 |
|  | BCB42212.1 7-carboxy-7-deazaguanine synthase | 125 | 26 | 20.8 | 5.1 |
|  | BCB43167.1 hypothetical protein Vag1382\_22940 | 25 | 10 | 40.0 | 9 |
| FlgP | BCB41587.1 hypothetical protein Vag1382\_07130 | 143 | 143 | 100.0 | 9.27E-101 |
|  | BCB43424.1 membrane-bound lytic murein transglycosylase C | 16 | 9 | 56.3 | 0.41 |
|  | BCB43585.1 ribulose-phosphate 3-epimerase | 32 | 12 | 37.5 | 0.87 |
|  | BCB41336.1 peptide chain release factor 2 | 80 | 20 | 25.0 | 2.1 |
|  | BCB42006.1 iron-regulated protein A | 20 | 13 | 65.0 | 2.2 |
|  | BCB41474.1 hypothetical protein Vag1382\_06000 | 19 | 10 | 52.6 | 2.8 |
|  | BCB42159.1 EscJ/YscJ/HrcJ family type III secretion inner membrane ring protein | 19 | 11 | 57.9 | 3 |
|  | BCB41881.1 multidrug transporter | 17 | 8 | 47.1 | 3.6 |
|  | BCB45319.1 multidrug resistance protein MdtL | 15 | 9 | 60.0 | 4 |
|  | BCB44610.1 DNA-binding response regulator | 27 | 12 | 44.4 | 4.4 |
|  | BCB43504.1 lactate dehydrogenase | 47 | 16 | 34.0 | 5 |
|  | BCB44685.1 LysR family transcriptional regulator | 14 | 8 | 57.1 | 5 |
|  | BCB43390.1 D-3-phosphoglycerate dehydrogenase | 46 | 14 | 30.4 | 6.5 |
|  | BCB41663.1 succinate--CoA ligase [ADP-forming] subunit alpha | 41 | 11 | 26.8 | 9.3 |
| FlgN1 | BCB41588.1 molecular chaperone | 141 | 141 | 100.0 | 6.11E-102 |
|  | BCB42204.1 citrate synthase | 68 | 18 | 26.5 | 0.92 |
|  | BCB45088.1 GGDEF domain-containing protein | 30 | 12 | 40.0 | 2.2 |
|  | BCB43143.1 hypothetical protein Vag1382\_22700 | 51 | 10 | 19.6 | 2.7 |
|  | BCB44166.1 flagellar hook-associated protein 1 FlgK | 62 | 19 | 30.6 | 3.6 |
|  | BCB44154.1 protein FlgN | 20 | 10 | 50.0 | 4 |
|  | BCB44772.1 AraC family transcriptional regulator | 25 | 9 | 36.0 | 4.6 |
|  | BCB42200.1 bordetella uptake gene family protein | 56 | 15 | 26.8 | 5 |
|  | BCB45337.1 D-alanyl-D-alanine carboxypeptidase | 77 | 25 | 32.5 | 6.1 |
| FlgM1 | BCB41589.1 flagellar biosynthesis anti-sigma factor FlgM | 104 | 104 | 100.0 | 5.43E-73 |
|  | BCB42369.1 ATP-dependent RNA helicase HrpA | 69 | 18 | 26.1 | 5.3 |
| FlgA1 | BCB41590.1 flagella basal body P-ring formation protein FlgA | 248 | 248 | 100.0 | 0 |
|  | BCB44156.1 flagella basal body P-ring formation protein FlgA | 217 | 60 | 27.7 | 3.87E-21 |
|  | BCB43543.1 sodium:proton antiporter | 54 | 16 | 29.6 | 0.23 |
|  | BCB42689.1 ABC transporter ATP-binding protein | 29 | 11 | 37.9 | 1.5 |
|  | BCB42454.1 hypothetical protein Vag1382\_15800 | 34 | 9 | 26.5 | 2.5 |
|  | BCB44147.1 MFS transporter | 33 | 13 | 39.4 | 4.4 |
|  | BCB41632.1 transmembrane regulatory protein ToxS | 56 | 19 | 33.9 | 5.8 |
|  | BCB43845.1 protein Smg | 22 | 8 | 36.4 | 7.9 |
| CheV | BCB41591.1 chemotaxis protein CheW | 308 | 308 | 100.0 | 0 |
|  | BCB42751.1 chemotaxis protein CheW | 315 | 142 | 45.1 | 8.97E-91 |
|  | BCB45119.1 chemotaxis protein CheW | 283 | 103 | 36.4 | 2.66E-52 |
|  | BCB44611.1 chemotaxis protein CheV | 298 | 99 | 33.2 | 6.06E-44 |
|  | BCB42920.1 chemotaxis protein CheW | 138 | 41 | 29.7 | 3.66E-13 |
|  | BCB43282.1 histidine kinase | 132 | 40 | 30.3 | 2.72E-09 |
|  | BCB44359.1 hybrid sensor histidine kinase/response regulator | 137 | 41 | 29.9 | 1.53E-08 |
|  | BCB45406.1 DNA-binding response regulator | 126 | 34 | 27.0 | 1.54E-07 |
|  | BCB41314.1 DNA-binding response regulator | 127 | 33 | 26.0 | 3.87E-07 |
|  | BCB42342.1 transcriptional regulator | 112 | 38 | 33.9 | 4.21E-07 |
|  | BCB41007.1 DNA-binding response regulator | 127 | 35 | 27.6 | 9.87E-07 |
|  | BCB44424.1 transcriptional regulator | 125 | 40 | 32.0 | 1.38E-06 |
|  | BCB44508.1 histidine kinase | 75 | 27 | 36.0 | 2.69E-06 |
|  | BCB44604.1 hybrid sensor histidine kinase/response regulator | 112 | 32 | 28.6 | 4.49E-06 |
|  | BCB44868.1 hypothetical protein Vag1382\_39950 | 115 | 30 | 26.1 | 5.22E-06 |
|  | BCB42926.1 response regulator | 111 | 32 | 28.8 | 1.81E-05 |
|  | BCB42881.1 two-component system response regulator | 127 | 35 | 27.6 | 3.28E-05 |
|  | BCB42502.1 two-component system sensor histidine kinase/response regulator | 75 | 26 | 34.7 | 3.33E-05 |
|  | BCB42502.1 two-component system sensor histidine kinase/response regulator | 101 | 28 | 27.7 | 3.49E-04 |
|  | BCB40971.1 nitrogen regulation protein NR(I) | 129 | 37 | 28.7 | 4.21E-05 |
|  | BCB41843.1 two-component system response regulator TorR | 126 | 33 | 26.2 | 6.93E-05 |
|  | BCB43932.1 hybrid sensor histidine kinase/response regulator | 110 | 34 | 30.9 | 1.92E-04 |
|  | BCB44762.1 diguanylate cyclase response regulator | 74 | 25 | 33.8 | 2.95E-04 |
|  | BCB42923.1 chemotaxis response regulator protein-glutamate methylesterase of group 1 operon CheB | 114 | 35 | 30.7 | 0.001 |
|  | BCB44084.1 two-component system response regulator | 126 | 29 | 23.0 | 0.001 |
|  | BCB41957.1 hybrid sensor histidine kinase/response regulator | 76 | 22 | 28.9 | 0.001 |
|  | BCB44327.1 DNA-binding response regulator | 119 | 28 | 23.5 | 0.001 |
|  | BCB41392.1 DNA-binding response regulator | 128 | 30 | 23.4 | 0.001 |
|  | BCB42946.1 sigma-54-dependent Fis family transcriptional regulator FlaM | 121 | 29 | 24.0 | 0.011 |
|  | BCB43942.1 putative response regulatory protein | 79 | 20 | 25.3 | 0.014 |
|  | BCB44537.1 hybrid sensor histidine kinase/response regulator | 110 | 34 | 30.9 | 0.02 |
|  | BCB42039.1 hybrid sensor histidine kinase/response regulator | 100 | 29 | 29.0 | 0.092 |
|  | BCB43366.1 histidine kinase | 84 | 26 | 31.0 | 0.14 |
|  | BCB43692.1 DNA-binding response regulator | 124 | 26 | 21.0 | 0.14 |
|  | BCB42285.1 hybrid sensor histidine kinase/response regulator | 83 | 24 | 28.9 | 0.35 |
|  | BCB41878.1 sensor histidine kinase | 113 | 32 | 28.3 | 0.44 |
|  | BCB41215.1 DNA-binding response regulator | 114 | 27 | 23.7 | 0.55 |
|  | BCB44754.1 DNA-binding response regulator | 77 | 22 | 28.6 | 0.62 |
|  | BCB45455.1 DNA-binding response regulator | 124 | 31 | 25.0 | 0.66 |
|  | BCB42354.1 sigma-54-dependent Fis family transcriptional regulator | 123 | 31 | 25.2 | 0.69 |
|  | BCB44366.1 autoinducer 2 sensor kinase/phosphatase LuxQ | 114 | 28 | 24.6 | 0.74 |
|  | BCB44049.1 DNA-binding response regulator | 125 | 30 | 24.0 | 1 |
|  | BCB41165.1 DUF490 domain-containing protein | 64 | 20 | 31.3 | 1.2 |
|  | BCB44892.1 DNA-binding response regulator | 75 | 24 | 32.0 | 1.3 |
|  | BCB43169.1 heat-shock protein Hsp20 | 30 | 11 | 36.7 | 1.4 |
|  | BCB41942.1 DNA-binding response regulator | 76 | 16 | 21.1 | 3 |
|  | BCB41312.1 aerobic respiration control sensor protein | 68 | 22 | 32.4 | 3.1 |
|  | BCB44946.1 FAD-binding oxidoreductase | 41 | 11 | 26.8 | 4.9 |
|  | BCB44492.1 3-oxoacyl-ACP reductase | 47 | 16 | 34.0 | 5.2 |
|  | BCB42017.1 DNA-binding response regulator | 136 | 36 | 26.5 | 5.5 |
|  | BCB44340.1 cytosine permease | 65 | 17 | 26.2 | 5.8 |
|  | BCB45130.1 transcriptional regulator | 61 | 18 | 29.5 | 6.5 |
|  | BCB42610.1 thioredoxin reductase | 25 | 11 | 44.0 | 7.4 |
|  | BCB43065.1 cysteine desulfurase | 58 | 14 | 24.1 | 7.6 |
|  | BCB42407.1 sensor histidine kinase | 45 | 16 | 35.6 | 8.6 |
|  | BCB44778.1 acriflavine resistance protein B | 41 | 12 | 29.3 | 9.4 |
|  | BCB42438.1 DNA-binding response regulator | 77 | 19 | 24.7 | 9.8 |
| CheR | BCB41592.1 chemotaxis protein methyltransferase CheR | 275 | 275 | 100.0 | 0 |
|  | BCB41692.1 SAM-dependent methyltransferase | 66 | 17 | 25.8 | 0.17 |
|  | BCB42565.1 thiopurine S-methyltransferase | 42 | 13 | 31.0 | 0.36 |
|  | BCB42707.1 peptidyl-prolyl cis-trans isomerase | 24 | 11 | 45.8 | 1.1 |
|  | BCB44111.1 hypothetical protein Vag1382\_32380 | 28 | 10 | 35.7 | 6.7 |
|  | BCB41854.1 carboxy-S-adenosyl-L-methionine synthase | 28 | 10 | 35.7 | 8.8 |
| FlgB1 | BCB41593.1 flagellar basal body rod protein FlgB | 131 | 131 | 100.0 | 4.64E-96 |
|  | BCB44157.1 flagellar basal body rod protein FlgB | 130 | 50 | 38.5 | 8.25E-24 |
|  | BCB42293.1 copper-translocating P-type ATPase | 31 | 12 | 38.7 | 0.18 |
|  | BCB44366.1 autoinducer 2 sensor kinase/phosphatase LuxQ | 69 | 18 | 26.1 | 0.58 |
|  | BCB44410.1 GGDEF-domain containing protein | 42 | 14 | 33.3 | 1.3 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 32 | 12 | 37.5 | 2.4 |
|  | BCB42249.1 dihydroorotate dehydrogenase (quinone) | 58 | 16 | 27.6 | 4.8 |
|  | BCB42892.1 beta-ketoacyl-[acyl-carrier-protein] synthase I | 92 | 26 | 28.3 | 5 |
|  | BCB42213.1 7-cyano-7-deazaguanine synthase | 50 | 14 | 28.0 | 5.7 |
|  | BCB44397.1 MexE family multidrug efflux RND transporter periplasmic adaptor subunit | 46 | 16 | 34.8 | 8.7 |
|  | BCB41596.1 flagellar hook protein FlgE | 20 | 11 | 55.0 | 9.2 |
|  | BCB44787.1 oxidoreductase alpha (molybdopterin) subunit | 25 | 12 | 48.0 | 9.2 |
|  | BCB41042.1 phosphopantetheine adenylyltransferase | 24 | 9 | 37.5 | 9.7 |
| FlgC1 | BCB41594.1 flagellar basal-body rod protein FlgC | 137 | 137 | 100.0 | 1.83E-100 |
|  | BCB44158.1 flagellar basal-body rod protein FlgC | 142 | 59 | 41.5 | 1.84E-35 |
|  | BCB44162.1 flagellar basal-body rod protein FlgG | 40 | 16 | 40.0 | 2.13E-04 |
|  | BCB44162.1 flagellar basal-body rod protein FlgG | 41 | 12 | 29.3 | 6.1 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 32 | 16 | 50.0 | 6.64E-04 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 41 | 15 | 36.6 | 0.7 |
|  | BCB43585.1 ribulose-phosphate 3-epimerase | 64 | 20 | 31.3 | 0.1 |
|  | BCB41596.1 flagellar hook protein FlgE | 44 | 12 | 27.3 | 0.12 |
|  | BCB41596.1 flagellar hook protein FlgE | 49 | 18 | 36.7 | 0.19 |
|  | BCB44166.1 flagellar hook-associated protein 1 FlgK | 37 | 12 | 32.4 | 1.1 |
|  | BCB43647.1 ribonuclease R | 50 | 16 | 32.0 | 1.4 |
|  | BCB42694.1 trimethylamine-N-oxide reductase | 30 | 12 | 40.0 | 1.4 |
|  | BCB44905.1 hypothetical protein Vag1382\_40320 | 21 | 8 | 38.1 | 1.6 |
|  | BCB44160.1 flagellar hook protein FlgE | 25 | 12 | 48.0 | 1.9 |
|  | BCB44160.1 flagellar hook protein FlgE | 37 | 10 | 27.0 | 2.2 |
|  | BCB40952.1 DNA recombination protein RmuC | 90 | 24 | 26.7 | 3.8 |
|  | BCB40898.1 ketol-acid reductoisomerase (NADP(+)) | 32 | 9 | 28.1 | 9.1 |
| FlgD1 | BCB41595.1 basal-body rod modification protein FlgD | 236 | 236 | 100.0 | 4.98E-173 |
|  | BCB44159.1 basal-body rod modification protein FlgD | 147 | 40 | 27.2 | 8.39E-08 |
|  | BCB44060.1 hypothetical protein Vag1382\_31870 | 35 | 13 | 37.1 | 0.04 |
|  | BCB41032.1 nucleoid occlusion factor SlmA | 39 | 12 | 30.8 | 2.1 |
|  | BCB41397.1 phosphate ABC transporter permease | 58 | 17 | 29.3 | 2.8 |
|  | BCB45211.1 phosphate import ATP-binding protein PstB 2 | 58 | 19 | 32.8 | 2.9 |
|  | BCB43608.1 methylenetetrahydrofolate reductase | 46 | 15 | 32.6 | 5.2 |
|  | BCB40877.1 DNA replication and repair protein RecF | 29 | 12 | 41.4 | 7.7 |
|  | BCB44838.1 hypothetical protein Vag1382\_39650 | 72 | 22 | 30.6 | 9.9 |
| FlgE1 | BCB41596.1 flagellar hook protein FlgE | 437 | 437 | 100.0 | 0 |
|  | BCB44160.1 flagellar hook protein FlgE | 440 | 151 | 34.3 | 1.84E-60 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 147 | 58 | 39.5 | 8.53E-15 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 82 | 28 | 34.1 | 1.26E-07 |
|  | BCB44162.1 flagellar basal-body rod protein FlgG | 134 | 46 | 34.3 | 2.46E-12 |
|  | BCB44162.1 flagellar basal-body rod protein FlgG | 81 | 28 | 34.6 | 1.45E-07 |
|  | BCB41597.1 flagellar basal body protein FlgF | 132 | 34 | 25.8 | 4.47E-05 |
|  | BCB41597.1 flagellar basal body protein FlgF | 44 | 10 | 22.7 | 9.1 |
|  | BCB44161.1 flagellar basal body protein FlgF | 115 | 34 | 29.6 | 0.002 |
|  | BCB44161.1 flagellar basal body protein FlgF | 37 | 12 | 32.4 | 0.79 |
|  | BCB44166.1 flagellar hook-associated protein 1 FlgK | 38 | 16 | 42.1 | 0.007 |
|  | BCB44158.1 flagellar basal-body rod protein FlgC | 44 | 14 | 31.8 | 0.016 |
|  | BCB44158.1 flagellar basal-body rod protein FlgC | 81 | 22 | 27.2 | 2.5 |
|  | BCB42424.1 L-ectoine synthase | 95 | 22 | 23.2 | 0.039 |
|  | BCB41594.1 flagellar basal-body rod protein FlgC | 44 | 12 | 27.3 | 0.37 |
|  | BCB41594.1 flagellar basal-body rod protein FlgC | 49 | 18 | 36.7 | 0.6 |
|  | BCB43274.1 tyrosine--tRNA ligase 2 | 60 | 20 | 33.3 | 1.5 |
|  | BCB41823.1 ribosomal large subunit pseudouridine synthase E | 90 | 22 | 24.4 | 1.9 |
|  | BCB44997.1 alkaline phosphatase | 58 | 18 | 31.0 | 2.6 |
|  | BCB41602.1 flagellar hook protein FlgK | 20 | 12 | 60.0 | 2.9 |
|  | BCB44253.1 hypothetical protein Vag1382\_33800 | 72 | 18 | 25.0 | 3.1 |
|  | BCB41298.1 hypothetical protein Vag1382\_04240 | 33 | 11 | 33.3 | 7.3 |
|  | BCB43623.1 peptidyl-prolyl cis-trans isomerase | 46 | 19 | 41.3 | 8.1 |
|  | BCB43557.1 sn-glycerol-3-phosphate dehydrogenase subunit C | 78 | 21 | 26.9 | 9.3 |
| FlgF1 | BCB41597.1 flagellar basal body protein FlgF | 249 | 249 | 100.0 | 0 |
|  | BCB44161.1 flagellar basal body protein FlgF | 246 | 103 | 41.9 | 1.43E-55 |
|  | BCB44162.1 flagellar basal-body rod protein FlgG | 263 | 70 | 26.6 | 4.46E-16 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 268 | 74 | 27.6 | 1.41E-15 |
|  | BCB44160.1 flagellar hook protein FlgE | 118 | 35 | 29.7 | 2.65E-06 |
|  | BCB44160.1 flagellar hook protein FlgE | 43 | 16 | 37.2 | 3.16E-04 |
|  | BCB41596.1 flagellar hook protein FlgE | 132 | 34 | 25.8 | 2.56E-05 |
|  | BCB41596.1 flagellar hook protein FlgE | 44 | 10 | 22.7 | 5.2 |
|  | BCB44166.1 flagellar hook-associated protein 1 FlgK | 28 | 13 | 46.4 | 0.91 |
|  | BCB41992.1 DNA gyrase subunit A | 52 | 20 | 38.5 | 1.9 |
|  | BCB42569.1 phenylalanine--tRNA ligase beta subunit | 30 | 11 | 36.7 | 7.4 |
| FlgG1 | BCB41598.1 flagellar basal-body rod protein FlgG | 262 | 262 | 100.0 | 0 |
|  | BCB44162.1 flagellar basal-body rod protein FlgG | 262 | 143 | 54.6 | 2.55E-92 |
|  | BCB44160.1 flagellar hook protein FlgE | 111 | 43 | 38.7 | 1.41E-15 |
|  | BCB44160.1 flagellar hook protein FlgE | 132 | 44 | 33.3 | 7.80E-10 |
|  | BCB41597.1 flagellar basal body protein FlgF | 268 | 74 | 27.6 | 1.49E-15 |
|  | BCB41596.1 flagellar hook protein FlgE | 147 | 58 | 39.5 | 5.18E-15 |
|  | BCB41596.1 flagellar hook protein FlgE | 82 | 28 | 34.1 | 7.63E-08 |
|  | BCB44161.1 flagellar basal body protein FlgF | 265 | 69 | 26.0 | 2.86E-11 |
|  | BCB41594.1 flagellar basal-body rod protein FlgC | 32 | 16 | 50.0 | 0.001 |
|  | BCB41594.1 flagellar basal-body rod protein FlgC | 41 | 15 | 36.6 | 1.3 |
|  | BCB44857.1 serine/threonine protein phosphatase | 182 | 43 | 23.6 | 0.73 |
|  | BCB44575.1 histidine kinase | 28 | 12 | 42.9 | 1.5 |
|  | BCB43998.1 hemolysin D | 38 | 12 | 31.6 | 1.7 |
|  | BCB44158.1 flagellar basal-body rod protein FlgC | 45 | 13 | 28.9 | 2.9 |
|  | BCB42753.1 pyruvate kinase | 70 | 22 | 31.4 | 2.9 |
|  | BCB45245.1 methyl-accepting chemotaxis protein | 46 | 15 | 32.6 | 3 |
|  | BCB44166.1 flagellar hook-associated protein 1 FlgK | 35 | 11 | 31.4 | 3.3 |
|  | BCB45143.1 membrane protein | 55 | 17 | 30.9 | 3.3 |
|  | BCB41602.1 flagellar hook protein FlgK | 30 | 11 | 36.7 | 4.6 |
|  | BCB41593.1 flagellar basal body rod protein FlgB | 32 | 12 | 37.5 | 4.8 |
|  | BCB41969.1 phosphatase | 21 | 9 | 42.9 | 5.2 |
| FlgH1 | BCB41599.1 flagellar L-ring protein 1 FlgH | 259 | 259 | 100.0 | 0 |
|  | BCB44163.1 flagellar L-ring protein 2 FlgH | 198 | 73 | 36.9 | 2.08E-39 |
|  | BCB44286.1 hypothetical protein Vag1382\_34130 | 37 | 13 | 35.1 | 0.52 |
|  | BCB43466.1 hypothetical protein Vag1382\_25930 | 61 | 18 | 29.5 | 1.3 |
|  | BCB44738.1 hypothetical protein Vag1382\_38650 | 35 | 10 | 28.6 | 1.9 |
|  | BCB44728.1 hypothetical protein Vag1382\_38550 | 35 | 10 | 28.6 | 1.9 |
|  | BCB41049.1 glucose-1-phosphate thymidylyltransferase | 61 | 16 | 26.2 | 2.1 |
|  | BCB41726.1 trigger factor | 111 | 22 | 19.8 | 4.6 |
|  | BCB41812.1 ABC transporter substrate-binding protein | 39 | 14 | 35.9 | 7.7 |
|  | BCB41121.1 30S ribosomal protein S3 | 79 | 22 | 27.8 | 9.5 |
|  | BCB44457.1 type VI secretion lipoprotein | 38 | 12 | 31.6 | 9.7 |
|  | BCB42956.1 deferrochelatase/peroxidase YfeX | 46 | 12 | 26.1 | 9.8 |
| FlgI1 | BCB41600.1 flagellar P-ring protein 1 FlgI | 363 | 363 | 100.0 | 0 |
|  | BCB44164.1 flagellar P-ring protein 2 FlgI | 362 | 178 | 49.2 | 6.67E-120 |
|  | BCB44522.1 GGDEF domain-containing protein | 48 | 15 | 31.3 | 1.6 |
|  | BCB42257.1 ATP-dependent protease | 33 | 12 | 36.4 | 2.5 |
|  | BCB42412.1 cell signaling regulator | 119 | 26 | 21.8 | 2.9 |
|  | BCB42412.1 cell signaling regulator | 31 | 11 | 35.5 | 9.6 |
|  | BCB42169.1 3-oxoacyl-ACP reductase | 55 | 18 | 32.7 | 3.2 |
|  | BCB42019.1 BCCT family transporter | 69 | 22 | 31.9 | 4 |
|  | BCB40977.1 DNA repair ATPase | 99 | 19 | 19.2 | 4.3 |
|  | BCB41530.1 methionine import ATP-binding protein MetN | 152 | 32 | 21.1 | 5.3 |
|  | BCB43176.1 hypothetical protein Vag1382\_23030 | 82 | 25 | 30.5 | 6.8 |
|  | BCB40907.1 cytochrome c | 35 | 12 | 34.3 | 8.3 |
|  | BCB44123.1 peptidase S8 | 110 | 22 | 20.0 | 9.9 |
| FlgJ1 | BCB41601.1 peptidoglycan hydrolase FlgJ | 307 | 307 | 100.0 | 0 |
|  | BCB44165.1 flagellar protein FlgJ | 95 | 33 | 34.7 | 8.26E-10 |
|  | BCB41083.1 UDP-N-acetyl-d-glucosamine 6-dehydrogenase WbpA | 67 | 20 | 29.9 | 0.22 |
|  | BCB42919.1 cytochrome c biogenesis ATP-binding export protein CcmA | 52 | 16 | 30.8 | 1.2 |
|  | BCB43534.1 maturase | 46 | 17 | 37.0 | 1.6 |
|  | BCB42066.1 hypothetical protein Vag1382\_11920 | 61 | 20 | 32.8 | 1.8 |
|  | BCB42093.1 hypothetical protein Vag1382\_12190 | 87 | 21 | 24.1 | 1.8 |
|  | BCB42450.1 threonine transporter RhtB | 26 | 10 | 38.5 | 3.5 |
|  | BCB43251.1 bifunctional diguanylate cyclase/phosphodiesterase | 33 | 12 | 36.4 | 5.7 |
|  | BCB44863.1 FHA domain-containing protein | 66 | 17 | 25.8 | 5.7 |
|  | BCB41052.1 membrane protein | 54 | 18 | 33.3 | 7.2 |
|  | BCB43144.1 hypothetical protein Vag1382\_22710 | 23 | 10 | 43.5 | 9.1 |
| FlgK1 | BCB41602.1 flagellar hook protein FlgK | 646 | 646 | 100.0 | 0 |
|  | BCB44166.1 flagellar hook-associated protein 1 FlgK | 325 | 78 | 24.0 | 4.16E-20 |
|  | BCB44166.1 flagellar hook-associated protein 1 FlgK | 40 | 20 | 50.0 | 1.98E-05 |
|  | BCB44447.1 type VI secretion system-associated protein | 61 | 20 | 32.8 | 1.6 |
|  | BCB42407.1 sensor histidine kinase | 43 | 14 | 32.6 | 1.8 |
|  | BCB41551.1 hypothetical protein Vag1382\_06770 | 59 | 17 | 28.8 | 3.7 |
|  | BCB41596.1 flagellar hook protein FlgE | 20 | 12 | 60.0 | 4.3 |
|  | BCB45215.1 methyl-accepting chemotaxis protein | 58 | 19 | 32.8 | 8.4 |
|  | BCB41246.1 phosphate transporter | 41 | 11 | 26.8 | 9.3 |
|  | BCB43065.1 cysteine desulfurase | 58 | 22 | 37.9 | 9.9 |
| FlgL1 | BCB41603.1 flagellar hook-associated protein FlgL | 397 | 397 | 100.0 | 0 |
|  | BCB44167.1 flagellar hook-associated protein 3 FlgL | 213 | 53 | 24.9 | 4.03E-15 |
|  | BCB44167.1 flagellar hook-associated protein 3 FlgL | 69 | 23 | 33.3 | 4.32E-05 |
|  | BCB45292.1 lateral flagellin LafA | 143 | 35 | 24.5 | 0.044 |
|  | BCB41834.1 DNA topoisomerase 1 | 61 | 15 | 24.6 | 0.32 |
|  | BCB43919.1 membrane protein insertase YidC | 68 | 20 | 29.4 | 0.79 |
|  | BCB45121.1 heme utilization protein HutZ | 98 | 24 | 24.5 | 1.3 |
|  | BCB41976.1 hypothetical protein Vag1382\_11020 | 127 | 25 | 19.7 | 1.6 |
|  | BCB44568.1 type I secretion C-terminal target domain-containing protein | 171 | 41 | 24.0 | 1.6 |
|  | BCB41488.1 phosphoribosylformylglycinamidine synthase | 97 | 22 | 22.7 | 2.9 |
|  | BCB41307.1 glutamate synthase large subunit | 30 | 13 | 43.3 | 3 |
|  | BCB42501.1 GGDEF domain-containing protein | 66 | 22 | 33.3 | 4.3 |
|  | BCB41777.1 zinc/cadmium/mercury/lead-transporting ATPase | 84 | 22 | 26.2 | 6.4 |
|  | BCB41605.1 polar flagellin C | 123 | 30 | 24.4 | 8.5 |
|  | BCB45083.1 hemolysin D | 26 | 10 | 38.5 | 8.8 |
| FlaC | BCB41605.1 polar flagellin C | 384 | 384 | 100.0 | 0 |
|  | BCB42953.1 polar flagellin A | 384 | 249 | 64.8 | 3.73E-173 |
|  | BCB41606.1 flagellin D | 383 | 255 | 66.6 | 3.15E-172 |
|  | BCB42954.1 flagellin B | 383 | 254 | 66.3 | 1.37E-171 |
|  | BCB42955.1 polar flagellin F | 384 | 247 | 64.3 | 1.51E-170 |
|  | BCB41607.1 polar flagellin E | 381 | 173 | 45.4 | 1.01E-108 |
|  | BCB45292.1 lateral flagellin LafA | 384 | 132 | 34.4 | 5.44E-55 |
|  | BCB41437.1 GMP synthase [glutamine-hydrolyzing] | 52 | 20 | 38.5 | 1.7 |
| FlaD | BCB41606.1 flagellin D | 377 | 377 | 100.0 | 0 |
|  | BCB42954.1 flagellin B | 377 | 376 | 99.7 | 0 |
|  | BCB42953.1 polar flagellin A | 377 | 290 | 76.9 | 0 |
|  | BCB42955.1 polar flagellin F | 377 | 263 | 69.8 | 0 |
|  | BCB41605.1 polar flagellin C | 383 | 256 | 66.8 | 1.80E-180 |
|  | BCB41607.1 polar flagellin E | 375 | 200 | 53.3 | 2.29E-134 |
|  | BCB45292.1 lateral flagellin LafA | 171 | 90 | 52.6 | 2.86E-48 |
|  | BCB45292.1 lateral flagellin LafA | 79 | 36 | 45.6 | 6.59E-17 |
|  | BCB45296.1 lateral flagellar hook-associated protein 2 | 125 | 34 | 27.2 | 0.26 |
|  | BCB44167.1 flagellar hook-associated protein 3 FlgL | 53 | 16 | 30.2 | 0.97 |
|  | BCB43233.1 type I restriction-modification system subunit M | 44 | 16 | 36.4 | 2.5 |
|  | BCB40997.1 3'(2') 5'-bisphosphate nucleotidase CysQ | 49 | 16 | 32.7 | 2.9 |
|  | BCB44176.1 60 kDa chaperonin 2 | 28 | 15 | 53.6 | 2.9 |
|  | BCB43229.1 hypothetical protein Vag1382\_23560 | 49 | 14 | 28.6 | 4.4 |
|  | BCB44040.1 putative pseudouridine methyltransferase | 32 | 11 | 34.4 | 6.5 |
|  | BCB44049.1 DNA-binding response regulator | 53 | 17 | 32.1 | 7.2 |
|  | BCB41218.1 dihydroxyacetone kinase subunit DhaK | 25 | 12 | 48.0 | 9.1 |
| FlaE | BCB41607.1 polar flagellin E | 374 | 374 | 100.0 | 0 |
|  | BCB42954.1 flagellin B | 375 | 200 | 53.3 | 9.88E-129 |
|  | BCB41606.1 flagellin D | 375 | 200 | 53.3 | 1.60E-128 |
|  | BCB42953.1 polar flagellin A | 374 | 186 | 49.7 | 1.01E-125 |
|  | BCB42955.1 polar flagellin F | 374 | 177 | 47.3 | 7.83E-119 |
|  | BCB41605.1 polar flagellin C | 381 | 173 | 45.4 | 9.85E-109 |
|  | BCB45292.1 lateral flagellin LafA | 153 | 63 | 41.2 | 2.50E-29 |
|  | BCB45292.1 lateral flagellin LafA | 76 | 26 | 34.2 | 2.60E-09 |
|  | BCB41151.1 sulfate adenylyltransferase subunit 1 | 84 | 24 | 28.6 | 0.64 |
|  | BCB42591.1 hypothetical protein Vag1382\_17170 | 181 | 42 | 23.2 | 1.7 |
|  | BCB41973.1 ribosomal large subunit pseudouridine synthase B | 93 | 22 | 23.7 | 2.9 |
|  | BCB44131.1 2-aminoethylphosphonate--pyruvate transaminase | 91 | 25 | 27.5 | 3.4 |
|  | BCB41242.1 general secretion pathway protein GspA | 95 | 25 | 26.3 | 4.7 |
|  | BCB41882.1 multidrug efflux RND transporter permease subunit | 73 | 26 | 35.6 | 5.3 |
|  | BCB44029.1 trimethylamine N-oxide reductase I catalytic subunit | 50 | 17 | 34.0 | 5.7 |
|  | BCB44167.1 flagellar hook-associated protein 3 FlgL | 94 | 23 | 24.5 | 5.9 |
|  | BCB41672.1 arginine--tRNA ligase | 47 | 15 | 31.9 | 7.3 |
| CheW | BCB42920.1 chemotaxis protein CheW | 164 | 164 | 100.0 | 3.78E-118 |
|  | BCB41591.1 chemotaxis protein CheW | 138 | 41 | 29.7 | 1.98E-13 |
|  | BCB42751.1 chemotaxis protein CheW | 142 | 42 | 29.6 | 5.32E-11 |
|  | BCB45119.1 chemotaxis protein CheW | 137 | 35 | 25.5 | 3.28E-10 |
|  | BCB44611.1 chemotaxis protein CheV | 146 | 33 | 22.6 | 3.78E-10 |
|  | BCB43629.1 glutathione-regulated potassium-efflux system protein KefB | 98 | 22 | 22.4 | 0.7 |
|  | BCB41743.1 2-succinylbenzoate-CoA ligase | 55 | 19 | 34.5 | 1.6 |
|  | BCB42022.1 cyclic nucleotide-binding protein | 145 | 40 | 27.6 | 2.3 |
|  | BCB42921.1 chemotaxis protein CheW | 80 | 18 | 22.5 | 3.8 |
|  | BCB44685.1 LysR family transcriptional regulator | 30 | 10 | 33.3 | 4.5 |
|  | BCB42686.1 antimicrobial peptide ABC transporter permease SapB | 54 | 15 | 27.8 | 5.2 |
|  | BCB42921.1 chemotaxis protein CheW | 350 | 350 | 100.0 | 0 |
|  | BCB44452.1 transcriptional regulator | 33 | 11 | 33.3 | 0.41 |
|  | BCB41307.1 glutamate synthase large subunit | 114 | 30 | 26.3 | 0.44 |
|  | BCB41309.1 glutamate synthase | 56 | 13 | 23.2 | 0.59 |
|  | BCB42703.1 nucleoside-diphosphate sugar epimerase | 77 | 22 | 28.6 | 0.93 |
|  | BCB42736.1 paraquat-inducible protein B | 62 | 17 | 27.4 | 1.4 |
|  | BCB44231.1 multidrug resistance protein | 175 | 44 | 25.1 | 1.6 |
|  | BCB41712.1 oxidoreductase | 114 | 27 | 23.7 | 2.1 |
|  | BCB41207.1 acetolactate synthase | 68 | 17 | 25.0 | 3.6 |
|  | BCB45431.1 transcriptional regulator | 99 | 31 | 31.3 | 4.4 |
|  | BCB41715.1 RNA helicase | 33 | 15 | 45.5 | 4.8 |
|  | BCB43300.1 serine protease | 40 | 12 | 30.0 | 6.3 |
|  | BCB43907.1 hypothetical protein Vag1382\_30340 | 20 | 12 | 60.0 | 7.6 |
|  | BCB42923.1 chemotaxis response regulator protein-glutamate methylesterase of group 1 operon CheB | 370 | 370 | 100.0 | 0 |
| CheB | BCB42017.1 DNA-binding response regulator | 107 | 41 | 38.3 | 3.27E-14 |
|  | BCB42881.1 two-component system response regulator | 131 | 40 | 30.5 | 1.33E-10 |
|  | BCB44892.1 DNA-binding response regulator | 114 | 44 | 38.6 | 2.99E-10 |
|  | BCB43366.1 histidine kinase | 113 | 38 | 33.6 | 6.42E-10 |
|  | BCB43942.1 putative response regulatory protein | 106 | 31 | 29.2 | 1.83E-09 |
|  | BCB41363.1 putative response regulatory protein | 101 | 31 | 30.7 | 5.20E-09 |
|  | BCB45455.1 DNA-binding response regulator | 130 | 43 | 33.1 | 4.70E-08 |
|  | BCB42502.1 two-component system sensor histidine kinase/response regulator | 175 | 52 | 29.7 | 5.77E-08 |
|  | BCB42502.1 two-component system sensor histidine kinase/response regulator | 111 | 35 | 31.5 | 3.92E-04 |
|  | BCB44604.1 hybrid sensor histidine kinase/response regulator | 107 | 36 | 33.6 | 6.38E-08 |
|  | BCB42654.1 DNA-binding response regulator | 108 | 34 | 31.5 | 6.94E-08 |
|  | BCB44762.1 diguanylate cyclase response regulator | 155 | 40 | 25.8 | 1.18E-07 |
|  | BCB44611.1 chemotaxis protein CheV | 118 | 43 | 36.4 | 1.65E-07 |
|  | BCB45406.1 DNA-binding response regulator | 105 | 31 | 29.5 | 2.20E-07 |
|  | BCB42342.1 transcriptional regulator | 151 | 37 | 24.5 | 3.59E-07 |
|  | BCB40971.1 nitrogen regulation protein NR(I) | 106 | 29 | 27.4 | 2.27E-06 |
|  | BCB43692.1 DNA-binding response regulator | 108 | 31 | 28.7 | 2.51E-06 |
|  | BCB44049.1 DNA-binding response regulator | 105 | 27 | 25.7 | 3.00E-06 |
|  | BCB41978.1 DNA-binding response regulator | 104 | 30 | 28.8 | 4.79E-06 |
|  | BCB41942.1 DNA-binding response regulator | 91 | 31 | 34.1 | 5.52E-06 |
|  | BCB41957.1 hybrid sensor histidine kinase/response regulator | 88 | 35 | 39.8 | 7.69E-06 |
|  | BCB42814.1 regulatory protein LuxO | 80 | 23 | 28.8 | 2.44E-05 |
|  | BCB44537.1 hybrid sensor histidine kinase/response regulator | 77 | 30 | 39.0 | 3.27E-05 |
|  | BCB44791.1 DNA-binding response regulator | 105 | 31 | 29.5 | 3.98E-05 |
|  | BCB42285.1 hybrid sensor histidine kinase/response regulator | 110 | 39 | 35.5 | 5.10E-05 |
|  | BCB43282.1 histidine kinase | 118 | 31 | 26.3 | 7.09E-05 |
|  | BCB41843.1 two-component system response regulator TorR | 109 | 31 | 28.4 | 7.11E-05 |
|  | BCB45189.1 DNA-binding response regulator | 120 | 39 | 32.5 | 8.04E-05 |
|  | BCB42039.1 hybrid sensor histidine kinase/response regulator | 108 | 33 | 30.6 | 1.65E-04 |
|  | BCB44084.1 two-component system response regulator | 61 | 20 | 32.8 | 1.65E-04 |
|  | BCB44366.1 autoinducer 2 sensor kinase/phosphatase LuxQ | 129 | 43 | 33.3 | 1.83E-04 |
|  | BCB45119.1 chemotaxis protein CheW | 118 | 33 | 28.0 | 2.34E-04 |
|  | BCB44327.1 DNA-binding response regulator | 103 | 27 | 26.2 | 2.41E-04 |
|  | BCB44359.1 hybrid sensor histidine kinase/response regulator | 39 | 20 | 51.3 | 2.96E-04 |
|  | BCB44508.1 histidine kinase | 111 | 32 | 28.8 | 3.64E-04 |
|  | BCB41007.1 DNA-binding response regulator | 201 | 52 | 25.9 | 4.80E-04 |
|  | BCB44424.1 transcriptional regulator | 102 | 27 | 26.5 | 5.17E-04 |
|  | BCB42354.1 sigma-54-dependent Fis family transcriptional regulator | 107 | 29 | 27.1 | 0.001 |
|  | BCB42136.1 transcriptional regulatory protein | 106 | 26 | 24.5 | 0.001 |
|  | BCB42728.1 DNA-binding response regulator | 102 | 28 | 27.5 | 0.001 |
|  | BCB41591.1 chemotaxis protein CheW | 114 | 35 | 30.7 | 0.001 |
|  | BCB44868.1 hypothetical protein Vag1382\_39950 | 106 | 30 | 28.3 | 0.001 |
|  | BCB44392.1 DNA-binding response regulator | 122 | 38 | 31.1 | 0.002 |
|  | BCB44348.1 DNA-binding response regulator | 103 | 27 | 26.2 | 0.003 |
|  | BCB42946.1 sigma-54-dependent Fis family transcriptional regulator FlaM | 106 | 27 | 25.5 | 0.003 |
|  | BCB41215.1 DNA-binding response regulator | 134 | 29 | 21.6 | 0.005 |
|  | BCB41878.1 sensor histidine kinase | 99 | 29 | 29.3 | 0.006 |
|  | BCB42926.1 response regulator | 84 | 26 | 31.0 | 0.007 |
|  | BCB41314.1 DNA-binding response regulator | 105 | 24 | 22.9 | 0.01 |
|  | BCB44610.1 DNA-binding response regulator | 104 | 24 | 23.1 | 0.013 |
|  | BCB43932.1 hybrid sensor histidine kinase/response regulator | 40 | 15 | 37.5 | 0.018 |
|  | BCB44754.1 DNA-binding response regulator | 61 | 17 | 27.9 | 0.031 |
|  | BCB44626.1 transcriptional regulatory protein | 104 | 25 | 24.0 | 0.034 |
|  | BCB42438.1 DNA-binding response regulator | 68 | 20 | 29.4 | 0.036 |
|  | BCB43700.1 DNA-binding response regulator | 121 | 26 | 21.5 | 0.12 |
|  | BCB42751.1 chemotaxis protein CheW | 76 | 24 | 31.6 | 0.12 |
|  | BCB45263.1 DNA-binding response regulator | 76 | 20 | 26.3 | 0.38 |
|  | BCB42325.1 sigma-54-dependent Fis family transcriptional regulator | 148 | 40 | 27.0 | 0.55 |
|  | BCB44575.1 histidine kinase | 113 | 31 | 27.4 | 1.4 |
|  | BCB40962.1 DNA polymerase I | 48 | 11 | 22.9 | 4.6 |
|  | BCB45230.1 GGDEF domain-containing protein | 44 | 13 | 29.5 | 7.7 |
|  | BCB43837.1 gamma carbonic anhydrase family protein | 25 | 11 | 44.0 | 8.5 |
|  | BCB41615.1 DNA ligase | 58 | 18 | 31.0 | 9.9 |
|  | BCB41312.1 aerobic respiration control sensor protein | 79 | 24 | 30.4 | 10 |
| CheA | BCB42924.1 chemotaxis protein CheA | 744 | 744 | 100.0 | 0 |
|  | BCB42324.1 two-component sensor histidine kinase | 72 | 22 | 30.6 | 1.16E-04 |
|  | BCB42622.1 transcriptional regulator | 54 | 17 | 31.5 | 0.002 |
|  | BCB41393.1 PAS domain-containing sensor histidine kinase | 101 | 27 | 26.7 | 0.003 |
|  | BCB43282.1 histidine kinase | 242 | 58 | 24.0 | 0.004 |
|  | BCB44662.1 ATPase | 59 | 20 | 33.9 | 0.005 |
|  | BCB44575.1 histidine kinase | 43 | 14 | 32.6 | 0.014 |
|  | BCB44575.1 histidine kinase | 23 | 10 | 43.5 | 5.7 |
|  | BCB41312.1 aerobic respiration control sensor protein | 55 | 20 | 36.4 | 0.019 |
|  | BCB42039.1 hybrid sensor histidine kinase/response regulator | 38 | 13 | 34.2 | 0.049 |
|  | BCB44366.1 autoinducer 2 sensor kinase/phosphatase LuxQ | 41 | 13 | 31.7 | 0.05 |
|  | BCB42947.1 sensor histidine kinase FlaL | 182 | 40 | 22.0 | 0.051 |
|  | BCB42135.1 histidine kinase | 142 | 32 | 22.5 | 0.053 |
|  | BCB44508.1 histidine kinase | 110 | 25 | 22.7 | 0.076 |
|  | BCB40972.1 two-component system sensor histidine kinase NtrB | 59 | 18 | 30.5 | 0.16 |
|  | BCB42502.1 two-component system sensor histidine kinase/response regulator | 97 | 23 | 23.7 | 0.3 |
|  | BCB44625.1 signal transduction histidine kinase | 56 | 18 | 32.1 | 0.32 |
|  | BCB44604.1 hybrid sensor histidine kinase/response regulator | 95 | 20 | 21.1 | 0.4 |
|  | BCB43932.1 hybrid sensor histidine kinase/response regulator | 40 | 12 | 30.0 | 0.69 |
|  | BCB42285.1 hybrid sensor histidine kinase/response regulator | 110 | 24 | 21.8 | 1.1 |
|  | BCB44050.1 two-component sensor histidine kinase | 93 | 24 | 25.8 | 1.1 |
|  | BCB43718.1 MFS transporter | 27 | 11 | 40.7 | 1.2 |
|  | BCB42655.1 sensor histidine kinase | 117 | 25 | 21.4 | 1.3 |
|  | BCB42016.1 sensor histidine kinase | 40 | 12 | 30.0 | 1.7 |
|  | BCB44537.1 hybrid sensor histidine kinase/response regulator | 38 | 11 | 28.9 | 2.4 |
|  | BCB42200.1 bordetella uptake gene family protein | 139 | 40 | 28.8 | 2.4 |
|  | BCB41878.1 sensor histidine kinase | 39 | 12 | 30.8 | 2.6 |
|  | BCB43397.1 phosphoglycerate kinase | 63 | 19 | 30.2 | 3.4 |
|  | BCB43760.1 LexA repressor | 50 | 16 | 32.0 | 4.6 |
|  | BCB43707.1 sensor histidine kinase | 156 | 34 | 21.8 | 4.6 |
|  | BCB43693.1 two-component sensor histidine kinase | 57 | 15 | 26.3 | 5.6 |
|  | BCB43888.1 FMN-binding protein MioC | 79 | 21 | 26.6 | 6.1 |
|  | BCB44453.1 type VI secretion protein IcmF | 69 | 22 | 31.9 | 8.8 |
| CheZ | BCB42925.1 protein phosphatase CheZ | 246 | 246 | 100.0 | 0 |
|  | BCB43448.1 hypothetical protein Vag1382\_25750 | 127 | 31 | 24.4 | 0.38 |
|  | BCB40972.1 two-component system sensor histidine kinase NtrB | 113 | 32 | 28.3 | 3.7 |
|  | BCB41976.1 hypothetical protein Vag1382\_11020 | 34 | 9 | 26.5 | 4.9 |
|  | BCB41387.1 penicillin-insensitive murein endopeptidase | 19 | 9 | 47.4 | 7 |
|  | BCB42219.1 outer membrane protein | 70 | 17 | 24.3 | 8.7 |
|  | BCB45414.1 hypothetical protein Vag1382\_45410 | 19 | 10 | 52.6 | 9.2 |
|  | BCB41738.1 menaquinone-specific isochorismate synthase | 28 | 10 | 35.7 | 9.6 |
|  | BCB41920.1 tRNA-specific 2-thiouridylase MnmA | 34 | 14 | 41.2 | 10 |
| CheY | BCB42926.1 response regulator | 126 | 126 | 100.0 | 4.70E-91 |
|  | BCB41392.1 DNA-binding response regulator | 123 | 38 | 30.9 | 1.62E-18 |
|  | BCB43932.1 hybrid sensor histidine kinase/response regulator | 121 | 39 | 32.2 | 7.17E-13 |
|  | BCB42946.1 sigma-54-dependent Fis family transcriptional regulator FlaM | 110 | 42 | 38.2 | 7.94E-13 |
|  | BCB41007.1 DNA-binding response regulator | 125 | 35 | 28.0 | 1.19E-12 |
|  | BCB42502.1 two-component system sensor histidine kinase/response regulator | 120 | 40 | 33.3 | 7.76E-12 |
|  | BCB42502.1 two-component system sensor histidine kinase/response regulator | 111 | 33 | 29.7 | 4.82E-09 |
|  | BCB44604.1 hybrid sensor histidine kinase/response regulator | 114 | 33 | 28.9 | 9.44E-12 |
|  | BCB43282.1 histidine kinase | 113 | 30 | 26.5 | 1.41E-11 |
|  | BCB41215.1 DNA-binding response regulator | 119 | 34 | 28.6 | 3.54E-11 |
|  | BCB44049.1 DNA-binding response regulator | 121 | 34 | 28.1 | 3.93E-11 |
|  | BCB44892.1 DNA-binding response regulator | 121 | 38 | 31.4 | 4.35E-11 |
|  | BCB40971.1 nitrogen regulation protein NR(I) | 104 | 34 | 32.7 | 5.15E-11 |
|  | BCB44762.1 diguanylate cyclase response regulator | 116 | 36 | 31.0 | 1.35E-10 |
|  | BCB45406.1 DNA-binding response regulator | 123 | 33 | 26.8 | 2.09E-10 |
|  | BCB42881.1 two-component system response regulator | 119 | 31 | 26.1 | 2.13E-10 |
|  | BCB41978.1 DNA-binding response regulator | 106 | 31 | 29.2 | 2.87E-10 |
|  | BCB44508.1 histidine kinase | 121 | 34 | 28.1 | 3.14E-10 |
|  | BCB43692.1 DNA-binding response regulator | 119 | 36 | 30.3 | 3.37E-10 |
|  | BCB42342.1 transcriptional regulator | 124 | 33 | 26.6 | 7.27E-10 |
|  | BCB45263.1 DNA-binding response regulator | 120 | 31 | 25.8 | 1.26E-09 |
|  | BCB44611.1 chemotaxis protein CheV | 115 | 33 | 28.7 | 1.50E-09 |
|  | BCB44868.1 hypothetical protein Vag1382\_39950 | 121 | 29 | 24.0 | 1.63E-09 |
|  | BCB44575.1 histidine kinase | 126 | 33 | 26.2 | 1.77E-09 |
|  | BCB42654.1 DNA-binding response regulator | 106 | 33 | 31.1 | 1.86E-09 |
|  | BCB41724.1 sigma-54-dependent Fis family transcriptional regulator | 91 | 32 | 35.2 | 4.01E-09 |
|  | BCB44366.1 autoinducer 2 sensor kinase/phosphatase LuxQ | 115 | 34 | 29.6 | 5.28E-09 |
|  | BCB41942.1 DNA-binding response regulator | 91 | 29 | 31.9 | 5.55E-09 |
|  | BCB41843.1 two-component system response regulator TorR | 123 | 28 | 22.8 | 6.66E-09 |
|  | BCB42039.1 hybrid sensor histidine kinase/response regulator | 119 | 33 | 27.7 | 7.95E-09 |
|  | BCB44537.1 hybrid sensor histidine kinase/response regulator | 123 | 32 | 26.0 | 9.35E-09 |
|  | BCB42285.1 hybrid sensor histidine kinase/response regulator | 109 | 35 | 32.1 | 1.23E-08 |
|  | BCB43366.1 histidine kinase | 115 | 30 | 26.1 | 1.32E-08 |
|  | BCB42325.1 sigma-54-dependent Fis family transcriptional regulator | 119 | 34 | 28.6 | 2.12E-08 |
|  | BCB41957.1 hybrid sensor histidine kinase/response regulator | 124 | 32 | 25.8 | 2.27E-08 |
|  | BCB42017.1 DNA-binding response regulator | 120 | 38 | 31.7 | 3.08E-08 |
|  | BCB42751.1 chemotaxis protein CheW | 90 | 32 | 35.6 | 3.83E-08 |
|  | BCB41878.1 sensor histidine kinase | 118 | 34 | 28.8 | 3.91E-08 |
|  | BCB44392.1 DNA-binding response regulator | 106 | 35 | 33.0 | 5.38E-08 |
|  | BCB41314.1 DNA-binding response regulator | 120 | 32 | 26.7 | 5.58E-08 |
|  | BCB42406.1 response regulator | 125 | 30 | 24.0 | 3.94E-07 |
|  | BCB45119.1 chemotaxis protein CheW | 122 | 35 | 28.7 | 5.05E-07 |
|  | BCB44359.1 hybrid sensor histidine kinase/response regulator | 125 | 35 | 28.0 | 6.47E-07 |
|  | BCB44084.1 two-component system response regulator | 123 | 31 | 25.2 | 1.72E-06 |
|  | BCB42438.1 DNA-binding response regulator | 122 | 32 | 26.2 | 1.74E-06 |
|  | BCB42814.1 regulatory protein LuxO | 114 | 27 | 23.7 | 2.78E-06 |
|  | BCB44348.1 DNA-binding response regulator | 119 | 30 | 25.2 | 3.68E-06 |
|  | BCB45189.1 DNA-binding response regulator | 112 | 30 | 26.8 | 4.91E-06 |
|  | BCB45455.1 DNA-binding response regulator | 123 | 28 | 22.8 | 6.15E-06 |
|  | BCB41591.1 chemotaxis protein CheW | 111 | 32 | 28.8 | 7.55E-06 |
|  | BCB41312.1 aerobic respiration control sensor protein | 123 | 34 | 27.6 | 1.74E-05 |
|  | BCB43700.1 DNA-binding response regulator | 73 | 21 | 28.8 | 1.14E-04 |
|  | BCB44754.1 DNA-binding response regulator | 73 | 21 | 28.8 | 1.38E-04 |
|  | BCB42354.1 sigma-54-dependent Fis family transcriptional regulator | 113 | 25 | 22.1 | 1.99E-04 |
|  | BCB44327.1 DNA-binding response regulator | 120 | 28 | 23.3 | 3.25E-04 |
|  | BCB44663.1 two-component system response regulator | 63 | 19 | 30.2 | 5.43E-04 |
|  | BCB44424.1 transcriptional regulator | 121 | 29 | 24.0 | 6.46E-04 |
|  | BCB44607.1 diguanylate phosphodiesterase | 126 | 29 | 23.0 | 8.10E-04 |
|  | BCB42728.1 DNA-binding response regulator | 117 | 28 | 23.9 | 0.002 |
|  | BCB42923.1 chemotaxis response regulator protein-glutamate methylesterase of group 1 operon CheB | 84 | 26 | 31.0 | 0.003 |
|  | BCB42136.1 transcriptional regulatory protein | 71 | 20 | 28.2 | 0.007 |
|  | BCB44626.1 transcriptional regulatory protein | 70 | 19 | 27.1 | 0.045 |
|  | BCB43172.1 acetoacetate metabolism regulatory protein AtoC | 120 | 28 | 23.3 | 0.16 |
|  | BCB44058.1 hypothetical protein Vag1382\_31850 | 96 | 27 | 28.1 | 0.18 |
|  | BCB44568.1 type I secretion C-terminal target domain-containing protein | 56 | 20 | 35.7 | 0.27 |
|  | BCB41363.1 putative response regulatory protein | 119 | 30 | 25.2 | 0.29 |
|  | BCB44526.1 glycine/betaine ABC transporter substrate-binding protein | 59 | 15 | 25.4 | 0.61 |
|  | BCB41346.1 UPF0721 transmembrane protein | 27 | 11 | 40.7 | 0.86 |
|  | BCB42939.1 flagellar hook-length control protein FliK | 42 | 16 | 38.1 | 1.2 |
|  | BCB44038.1 TldD protein | 35 | 14 | 40.0 | 1.3 |
|  | BCB43867.1 branched chain amino acid aminotransferase | 62 | 18 | 29.0 | 2 |
|  | BCB41487.1 membrane-bound lytic murein transglycosylase F | 17 | 9 | 52.9 | 5.5 |
|  | BCB40962.1 DNA polymerase I | 38 | 10 | 26.3 | 6.1 |
|  | BCB44406.1 transketolase 2 | 28 | 9 | 32.1 | 6.3 |
|  | BCB43319.1 pyruvate dehydrogenase E1 component | 38 | 11 | 28.9 | 7 |
|  | BCB42761.1 deoxyribonuclease | 33 | 11 | 33.3 | 7.1 |
|  | BCB41091.1 glycosyl transferase | 39 | 13 | 33.3 | 7.2 |
|  | BCB44697.1 Zn-dependent protease | 68 | 16 | 23.5 | 8.9 |
| FliA1 | BCB42927.1 RNA polymerase sigma factor FliA | 244 | 244 | 100.0 | 0 |
|  | BCB45301.1 RNA polymerase sigma factor for flagellar operon | 224 | 68 | 30.4 | 3.20E-35 |
|  | BCB41231.1 RNA polymerase sigma factor RpoD | 231 | 61 | 26.4 | 1.09E-12 |
|  | BCB43353.1 RNA polymerase sigma factor RpoS | 239 | 58 | 24.3 | 4.32E-11 |
|  | BCB43767.1 RNA polymerase sigma factor RpoH | 216 | 50 | 23.1 | 0.042 |
|  | BCB43059.1 RNA polymerase sigma factor | 84 | 21 | 25.0 | 0.94 |
|  | BCB43686.1 60 kDa chaperonin 1 | 53 | 14 | 26.4 | 1.6 |
|  | BCB42584.1 imidazolonepropionase | 87 | 23 | 26.4 | 3.2 |
|  | BCB43606.1 phosphoenolpyruvate carboxylase | 34 | 11 | 32.4 | 4.1 |
|  | BCB44037.1 hydroxymethylpyrimidine/phosphomethylpyrimidine kinase | 55 | 16 | 29.1 | 5.4 |
|  | BCB42446.1 hypothetical protein Vag1382\_15720 | 64 | 21 | 32.8 | 5.9 |
|  | BCB44715.1 UPF0271 protein | 31 | 12 | 38.7 | 6.9 |
|  | BCB43264.1 preprotein translocase subunit SecG | 31 | 13 | 41.9 | 8.7 |
|  | BCB43000.1 ribonuclease HII | 52 | 16 | 30.8 | 9.3 |
| FlhG | BCB42928.1 site-determining protein FlhG | 295 | 295 | 100.0 | 0 |
|  | BCB41685.1 site-determining protein | 168 | 54 | 32.1 | 1.13E-15 |
|  | BCB42782.1 iron-sulfur cluster carrier protein | 260 | 70 | 26.9 | 9.43E-10 |
|  | BCB43885.1 cobyric acid synthase CobQ | 168 | 42 | 25.0 | 5.60E-06 |
|  | BCB45351.1 tyrosine protein kinase | 71 | 19 | 26.8 | 7.16E-04 |
|  | BCB42922.1 cobyric acid synthase | 225 | 53 | 23.6 | 0.001 |
|  | BCB43113.1 Flp pilus assembly protein | 171 | 36 | 21.1 | 0.007 |
|  | BCB45474.1 chromosome partitioning protein ParA | 173 | 39 | 22.5 | 0.029 |
|  | BCB42658.1 bifunctional metallophosphatase/5'-nucleotidase | 165 | 39 | 23.6 | 0.68 |
|  | BCB44845.1 type VI secretion protein | 39 | 17 | 43.6 | 0.91 |
|  | BCB43770.1 signal recognition particle receptor FtsY | 76 | 24 | 31.6 | 1.3 |
|  | BCB41963.1 tryptophan synthase beta chain 1 | 94 | 23 | 24.5 | 1.3 |
|  | BCB45393.1 ferric citrate ABC transporter ATP-binding protein FecE | 40 | 15 | 37.5 | 4 |
|  | BCB43460.1 hypothetical protein Vag1382\_25870 | 12 | 9 | 75.0 | 4.9 |
|  | BCB41444.1 plasmid replication protein | 62 | 17 | 27.4 | 5.2 |
|  | BCB41112.1 primosomal protein N' | 34 | 13 | 38.2 | 6.9 |
|  | BCB44736.1 hypothetical protein Vag1382\_38630 | 64 | 15 | 23.4 | 9.4 |
|  | BCB44726.1 hypothetical protein Vag1382\_38530 | 64 | 15 | 23.4 | 9.4 |
|  | BCB41756.1 hypothetical protein Vag1382\_08820 | 27 | 12 | 44.4 | 9.4 |
| FlhF | BCB42929.1 flagellar biosynthesis regulator FlhF | 495 | 495 | 100.0 | 0 |
|  | BCB43770.1 signal recognition particle receptor FtsY | 191 | 61 | 31.9 | 3.71E-16 |
|  | BCB43334.1 signal recognition particle protein | 184 | 47 | 25.5 | 9.53E-06 |
|  | BCB42458.1 putative ribosome biogenesis GTPase RsgA | 36 | 15 | 41.7 | 0.008 |
|  | BCB43312.1 ABC transporter ATP-binding protein | 44 | 16 | 36.4 | 0.04 |
|  | BCB42663.1 ABC transporter ATP-binding protein | 32 | 11 | 34.4 | 0.052 |
|  | BCB43293.1 iron(III) ABC transporter ATP-binding protein | 43 | 15 | 34.9 | 0.077 |
|  | BCB45076.1 ABC transporter ATP-binding protein | 45 | 15 | 33.3 | 0.13 |
|  | BCB41174.1 thiamine import ATP-binding protein ThiQ | 26 | 11 | 42.3 | 0.17 |
|  | BCB45013.1 ABC transporter ATP-binding protein | 26 | 12 | 46.2 | 0.31 |
|  | BCB45234.1 putative ABC transporter ATP-binding protein | 83 | 23 | 27.7 | 0.31 |
|  | BCB41375.1 energy-dependent translational throttle protein EttA | 63 | 15 | 23.8 | 0.33 |
|  | BCB42253.1 ABC transporter ATPase | 48 | 15 | 31.3 | 0.35 |
|  | BCB42302.1 spermidine/putrescine import ATP-binding protein PotA | 43 | 15 | 34.9 | 0.43 |
|  | BCB41158.1 ABC transporter ATP-binding protein | 57 | 18 | 31.6 | 0.48 |
|  | BCB44848.1 ClpV1 family T6SS ATPase | 43 | 15 | 34.9 | 0.55 |
|  | BCB43490.1 ABC transporter ATP-binding protein | 30 | 12 | 40.0 | 0.56 |
|  | BCB44133.1 ABC transporter ATP-binding protein | 26 | 11 | 42.3 | 0.6 |
|  | BCB45129.1 hemin import ATP-binding protein HmuV | 39 | 18 | 46.2 | 0.62 |
|  | BCB43745.1 pantothenate kinase | 40 | 15 | 37.5 | 0.8 |
|  | BCB43646.1 23S rRNA (guanosine-2'-O-)-methyltransferase RlmB | 88 | 23 | 26.1 | 0.82 |
|  | BCB44438.1 ClpV1 family T6SS ATPase | 59 | 17 | 28.8 | 0.85 |
|  | BCB41560.1 ribose-phosphate pyrophosphokinase | 105 | 28 | 26.7 | 0.9 |
|  | BCB43411.1 twitching motility protein PilT | 21 | 11 | 52.4 | 0.9 |
|  | BCB44954.1 ABC transporter ATP-binding protein | 18 | 11 | 61.1 | 0.95 |
|  | BCB43495.1 ABC transporter ATP-binding protein | 17 | 11 | 64.7 | 0.96 |
|  | BCB42532.1 polyamine-transporting ATPase | 23 | 12 | 52.2 | 1 |
|  | BCB44650.1 ABC transporter ATP-binding protein | 18 | 11 | 61.1 | 1 |
|  | BCB41728.1 ATP-dependent Clp protease ATP-binding subunit ClpX | 50 | 15 | 30.0 | 1 |
|  | BCB44236.1 ABC transporter ATP-binding protein | 33 | 12 | 36.4 | 1.3 |
|  | BCB41729.1 Lon protease | 185 | 43 | 23.2 | 1.4 |
|  | BCB42323.1 ABC-F family ATPase | 27 | 13 | 48.1 | 1.5 |
|  | BCB43162.1 chaperone protein ClpB | 21 | 12 | 57.1 | 1.5 |
|  | BCB45248.1 ABC transporter ATP-binding protein | 45 | 14 | 31.1 | 1.7 |
|  | BCB41385.1 chaperone protein ClpB | 22 | 12 | 54.5 | 1.8 |
|  | BCB41665.1 zinc import ATP-binding protein ZnuC | 21 | 10 | 47.6 | 1.8 |
|  | BCB42386.1 multidrug ABC transporter ATP-binding protein | 44 | 16 | 36.4 | 2 |
|  | BCB43410.1 twitching motility protein PilT | 39 | 14 | 35.9 | 2.1 |
|  | BCB44488.1 ABC transporter ATP-binding protein | 51 | 16 | 31.4 | 2.4 |
|  | BCB41685.1 site-determining protein | 64 | 23 | 35.9 | 2.6 |
|  | BCB41827.1 ATP-dependent Clp protease ATP-binding subunit ClpA | 59 | 18 | 30.5 | 2.6 |
|  | BCB41107.1 ATP-dependent protease ATPase subunit HslU | 22 | 11 | 50.0 | 2.6 |
|  | BCB43876.1 ATP synthase subunit beta | 37 | 12 | 32.4 | 2.6 |
|  | BCB44764.1 molybdenum import ATP-binding protein ModC | 33 | 13 | 39.4 | 2.8 |
|  | BCB42228.1 arginine ABC transporter ATP-binding protein | 21 | 9 | 42.9 | 3 |
|  | BCB41803.1 PrkA family serine protein kinase | 29 | 12 | 41.4 | 3.1 |
|  | BCB43526.1 MSHA biogenesis protein MshE | 17 | 10 | 58.8 | 3.1 |
|  | BCB43589.1 shikimate kinase | 26 | 11 | 42.3 | 3.2 |
|  | BCB40987.1 type II secretion system protein GspE | 17 | 9 | 52.9 | 4.2 |
|  | BCB45393.1 ferric citrate ABC transporter ATP-binding protein FecE | 25 | 10 | 40.0 | 4.2 |
|  | BCB41399.1 phosphate import ATP-binding protein PstB 1 | 19 | 9 | 47.4 | 4.5 |
|  | BCB43187.1 cobalamin synthase | 19 | 9 | 47.4 | 4.7 |
|  | BCB44562.1 iron(III) ABC transporter ATP-binding protein | 27 | 10 | 37.0 | 5.1 |
|  | BCB42815.1 UvrABC system protein B | 21 | 12 | 57.1 | 5.6 |
|  | BCB45369.1 putative ribosome biogenesis GTPase RsgA 2 | 21 | 11 | 52.4 | 5.9 |
|  | BCB40877.1 DNA replication and repair protein RecF | 28 | 12 | 42.9 | 6.9 |
|  | BCB42550.1 vitamin B12 import ATP-binding protein BtuD | 32 | 11 | 34.4 | 7.3 |
|  | BCB45211.1 phosphate import ATP-binding protein PstB 2 | 49 | 16 | 32.7 | 7.9 |
|  | BCB44254.1 phosphoenolpyruvate synthase | 51 | 18 | 35.3 | 8.2 |
|  | BCB44219.1 elongation factor G | 18 | 10 | 55.6 | 8.6 |
| FlhA1 | BCB42930.1 flagellar biosynthesis protein FlhA | 710 | 710 | 100.0 | 0 |
|  | BCB45290.1 flagellar biosynthesis protein FlhA | 697 | 351 | 50.4 | 0 |
|  | BCB42187.1 EscV/YscV/HrcV family type III secretion system export apparatus protein | 709 | 251 | 35.4 | 1.97E-131 |
|  | BCB44678.1 DEAD/DEAH box helicase | 55 | 17 | 30.9 | 0.56 |
|  | BCB43702.1 hypothetical protein Vag1382\_28290 | 36 | 12 | 33.3 | 2.3 |
|  | BCB41878.1 sensor histidine kinase | 124 | 38 | 30.6 | 3.1 |
|  | BCB44748.1 LysR family transcriptional regulator | 21 | 9 | 42.9 | 8.7 |
| FlhB1 | BCB42931.1 flagellar biosynthesis protein FlhB | 376 | 376 | 100.0 | 0 |
|  | BCB45289.1 flagellar biosynthesis protein FlhB | 368 | 143 | 38.9 | 2.87E-82 |
|  | BCB42174.1 EscU/YscU/HrcU family type III secretion system export apparatus switch protein | 351 | 113 | 32.2 | 2.92E-54 |
|  | BCB45394.1 Fe3+ dicitrate ABC transporter permease | 63 | 20 | 31.7 | 4.7 |
|  | BCB42295.1 cytochrome biogenesis protein | 83 | 26 | 31.3 | 5.1 |
|  | BCB45084.1 cation transporter | 66 | 20 | 30.3 | 5.2 |
| FliR1 | BCB42932.1 flagellar biosynthetic protein FliR | 260 | 260 | 100.0 | 0 |
|  | BCB45288.1 flagellar biosynthetic protein FliR | 230 | 79 | 34.3 | 4.38E-40 |
|  | BCB42175.1 EscT/YscT/HrcT family type III secretion system export apparatus protein | 197 | 50 | 25.4 | 2.53E-04 |
|  | BCB42384.1 V10 pilin | 61 | 16 | 26.2 | 1.2 |
|  | BCB44806.1 anaerobic C4-dicarboxylate transporter | 76 | 20 | 26.3 | 6.5 |
|  | BCB43085.1 sn-glycerol-3-phosphate transporter | 96 | 30 | 31.3 | 7.2 |
|  | BCB41713.1 hypothetical protein Vag1382\_08390 | 11 | 6 | 54.5 | 8 |
| FliQ1 | BCB42933.1 flagellar export apparatus protein FliQ | 89 | 89 | 100.0 | 4.72E-60 |
|  | BCB45287.1 flagellar export apparatus protein FliQ | 85 | 46 | 54.1 | 7.81E-31 |
|  | BCB42176.1 EscS/YscS/HrcS family type III secretion system export apparatus protein | 76 | 23 | 30.3 | 1.58E-07 |
|  | BCB43301.1 penicillin-binding protein 1B | 41 | 15 | 36.6 | 1 |
|  | BCB41249.1 capsular polysaccharide biosynthesis protein | 38 | 14 | 36.8 | 1.2 |
|  | BCB43011.1 ribosome-recycling factor | 44 | 16 | 36.4 | 1.9 |
|  | BCB42359.1 membrane protein | 79 | 23 | 29.1 | 3.2 |
|  | BCB41839.1 TVP38/TMEM64 family protein | 21 | 9 | 42.9 | 3.9 |
|  | BCB43386.1 UPF0149 protein | 24 | 9 | 37.5 | 5 |
|  | BCB41307.1 glutamate synthase large subunit | 20 | 8 | 40.0 | 6.4 |
| FliP1 | BCB42934.1 flagellar biosynthetic protein FliP | 289 | 289 | 100.0 | 0 |
|  | BCB45286.1 flagellar biosynthetic protein FliP | 240 | 136 | 56.7 | 5.53E-89 |
|  | BCB42177.1 EscR/YscR/HrcR family type III secretion system export apparatus protein | 209 | 82 | 39.2 | 7.74E-45 |
|  | BCB41806.1 pyruvate formate-lyase-activating enzyme | 31 | 11 | 35.5 | 3 |
|  | BCB41143.1 peptidyl-prolyl cis-trans isomerase | 61 | 23 | 37.7 | 4.1 |
|  | BCB42487.1 hypothetical protein Vag1382\_16130 | 57 | 14 | 24.6 | 6 |
|  | BCB44568.1 type I secretion C-terminal target domain-containing protein | 26 | 12 | 46.2 | 8.9 |
| FliO | BCB42935.1 flagellar protein FliO | 119 | 119 | 100.0 | 1.07E-83 |
|  | BCB42994.1 UPF0294 protein | 45 | 16 | 35.6 | 1.8 |
|  | BCB43229.1 hypothetical protein Vag1382\_23560 | 69 | 18 | 26.1 | 2.1 |
|  | BCB43460.1 hypothetical protein Vag1382\_25870 | 59 | 17 | 28.8 | 2.2 |
|  | BCB42757.1 transporter | 25 | 11 | 44.0 | 6.5 |
|  | BCB44070.1 Bcr/CflA family drug resistance efflux transporter | 63 | 15 | 23.8 | 6.6 |
|  | BCB43234.1 WYL domain-containing protein | 26 | 10 | 38.5 | 6.9 |
| FliN1 | BCB42936.1 flagellar motor switch protein FliN | 136 | 136 | 100.0 | 3.83E-95 |
|  | BCB45285.1 flagellar motor switch protein FliN | 75 | 38 | 50.7 | 9.31E-23 |
|  | BCB42178.1 type III secretion system protein | 71 | 20 | 28.2 | 1.98E-07 |
|  | BCB42937.1 flagellar motor switch protein FliM | 34 | 11 | 32.4 | 0.31 |
|  | BCB42754.1 patatin family protein | 76 | 20 | 26.3 | 2.1 |
|  | BCB40890.1 LysR family transcriptional regulator | 47 | 12 | 25.5 | 2.4 |
|  | BCB41543.1 hypothetical protein Vag1382\_06690 | 35 | 11 | 31.4 | 2.9 |
|  | BCB43212.1 plasmid transfer protein | 56 | 15 | 26.8 | 5.1 |
|  | BCB40987.1 type II secretion system protein GspE | 34 | 14 | 41.2 | 5.9 |
|  | BCB43090.1 magnesium transporter | 72 | 16 | 22.2 | 6.6 |
|  | BCB42035.1 L-serine ammonia-lyase | 27 | 11 | 40.7 | 7.3 |
|  | BCB45181.1 hypothetical protein Vag1382\_43080 | 115 | 26 | 22.6 | 8.2 |
|  | BCB43884.1 chromosome partitioning protein ParB | 16 | 8 | 50.0 | 8.8 |
|  | BCB41404.1 LysR family transcriptional regulator | 20 | 8 | 40.0 | 9.2 |
|  | BCB41871.1 tol-pal system protein YbgF | 29 | 10 | 34.5 | 9.7 |
| FliM1 | BCB42937.1 flagellar motor switch protein FliM | 348 | 348 | 100.0 | 0 |
|  | BCB45284.1 flagellar motor switch protein FliM | 204 | 45 | 22.1 | 8.22E-04 |
|  | BCB42133.1 membrane protein | 94 | 28 | 29.8 | 0.011 |
|  | BCB42936.1 flagellar motor switch protein FliN | 34 | 11 | 32.4 | 0.72 |
|  | BCB41910.1 transcriptional regulator | 53 | 17 | 32.1 | 2.8 |
|  | BCB45256.1 L-threonine 3-dehydrogenase | 60 | 16 | 26.7 | 3.3 |
|  | BCB44580.1 LysR family transcriptional regulator | 16 | 6 | 37.5 | 3.5 |
|  | BCB43540.1 alanine--glyoxylate aminotransferase | 46 | 14 | 30.4 | 4.3 |
|  | BCB43394.1 DNA-binding protein | 18 | 8 | 44.4 | 5.5 |
|  | BCB42559.1 L-cystine transporter tcyP | 31 | 13 | 41.9 | 7.5 |
| FliL1 | BCB42938.1 flagellar basal body-associated protein FliL | 167 | 167 | 100.0 | 1.31E-119 |
|  | BCB43764.1 flagellar basal body-associated protein FliL | 114 | 31 | 27.2 | 1.51E-09 |
|  | BCB45300.1 flagellar protein LafL | 129 | 31 | 24.0 | 0.007 |
|  | BCB44712.1 oxidoreductase | 36 | 13 | 36.1 | 0.37 |
|  | BCB44375.1 hypothetical protein Vag1382\_35020 | 28 | 14 | 50.0 | 2.2 |
|  | BCB42207.1 propionyl-CoA synthetase | 49 | 11 | 22.4 | 2.9 |
|  | BCB41181.1 malate dehydrogenase | 27 | 11 | 40.7 | 4.4 |
|  | BCB42877.1 DNA polymerase III subunit gamma/tau | 55 | 14 | 25.5 | 5.5 |
|  | BCB41109.1 cell division protein FtsN | 29 | 12 | 41.4 | 5.6 |
|  | BCB45156.1 hypothetical protein Vag1382\_42830 | 50 | 19 | 38.0 | 7.5 |
|  | BCB43609.1 bifunctional aspartate kinase/homoserine dehydrogenase II | 32 | 12 | 37.5 | 7.6 |
|  | BCB45216.1 hypothetical protein Vag1382\_43430 | 49 | 14 | 28.6 | 8.3 |
|  | BCB43676.1 elongation factor P--(R)-beta-lysine ligase | 60 | 15 | 25.0 | 8.4 |
| FliK1 | BCB42939.1 flagellar hook-length control protein FliK | 627 | 627 | 100.0 | 0 |
|  | BCB45299.1 flagellar hook-length control protein FliK | 109 | 29 | 26.6 | 9.06E-07 |
|  | BCB44219.1 elongation factor G | 66 | 19 | 28.8 | 1 |
|  | BCB44292.1 hypothetical protein Vag1382\_34190 | 56 | 17 | 30.4 | 1.2 |
|  | BCB42926.1 response regulator | 41 | 14 | 34.1 | 3.5 |
|  | BCB43689.1 ATP-dependent 6-phosphofructokinase | 99 | 24 | 24.2 | 7.9 |
|  | BCB41962.1 tryptophan synthase alpha chain | 44 | 15 | 34.1 | 8.4 |
| FliJ1 | BCB42940.1 flagellar protein FliJ | 147 | 147 | 100.0 | 6.76E-107 |
|  | BCB44348.1 DNA-binding response regulator | 73 | 20 | 27.4 | 1.3 |
|  | BCB43499.1 nucleotide-binding protein | 45 | 17 | 37.8 | 1.8 |
|  | BCB45140.1 flavodoxin | 40 | 12 | 30.0 | 2.7 |
|  | BCB42538.1 aldehyde dehydrogenase | 40 | 10 | 25.0 | 3.5 |
|  | BCB43629.1 glutathione-regulated potassium-efflux system protein KefB | 113 | 23 | 20.4 | 4.3 |
|  | BCB42636.1 acyl-CoA dehydrogenase | 48 | 18 | 37.5 | 4.9 |
|  | BCB44166.1 flagellar hook-associated protein 1 FlgK | 39 | 14 | 35.9 | 5.9 |
| FliI1 | BCB42941.1 flagellum-specific ATPase FliI | 439 | 439 | 100.0 | 0 |
|  | BCB45277.1 flagellum-specific ATPase FliI | 437 | 234 | 53.5 | 6.72E-166 |
|  | BCB42181.1 EscN/YscN/HrcN family type III secretion system ATPase | 425 | 189 | 44.5 | 5.22E-113 |
|  | BCB43876.1 ATP synthase subunit beta | 401 | 119 | 29.7 | 4.38E-41 |
|  | BCB43878.1 ATP synthase subunit alpha | 354 | 97 | 27.4 | 3.64E-34 |
|  | BCB43808.1 transcription termination factor Rho | 234 | 62 | 26.5 | 4.15E-09 |
|  | BCB41522.1 LOG family protein | 113 | 32 | 28.3 | 0.13 |
|  | BCB43800.1 porphobilinogen deaminase | 102 | 30 | 29.4 | 0.23 |
|  | BCB44308.1 D-alanyl-D-alanine carboxypeptidase | 86 | 25 | 29.1 | 1.6 |
|  | BCB41026.1 peptide ABC transporter ATP-binding protein | 32 | 16 | 50.0 | 2.4 |
|  | BCB41025.1 peptide ABC transporter ATP-binding protein | 85 | 24 | 28.2 | 2.7 |
|  | BCB44246.1 outer membrane protein | 83 | 23 | 27.7 | 3.7 |
|  | BCB43312.1 ABC transporter ATP-binding protein | 46 | 18 | 39.1 | 3.7 |
|  | BCB45191.1 multidrug ABC transporter ATP-binding protein | 70 | 18 | 25.7 | 5.2 |
|  | BCB41616.1 porin | 44 | 15 | 34.1 | 7 |
|  | BCB43719.1 ABC transporter ATP-binding protein | 29 | 10 | 34.5 | 7.6 |
|  | BCB42231.1 amino acid ABC transporter substrate-binding protein | 34 | 11 | 32.4 | 8.2 |
|  | BCB41530.1 methionine import ATP-binding protein MetN | 51 | 17 | 33.3 | 8.3 |
|  | BCB44875.1 nitrate ABC transporter ATP-binding protein | 35 | 12 | 34.3 | 8.4 |
|  | BCB45457.1 sulfate adenylyltransferase | 23 | 11 | 47.8 | 9.3 |
| FliH1 | BCB42942.1 flagellar assembly protein FliH | 266 | 266 | 100.0 | 0 |
|  | BCB45278.1 flagellar assembly protein FliH | 195 | 57 | 29.2 | 2.54E-18 |
|  | BCB40894.1 YigZ family protein | 31 | 12 | 38.7 | 2.6 |
|  | BCB42956.1 deferrochelatase/peroxidase YfeX | 69 | 21 | 30.4 | 4.6 |
|  | BCB44574.1 TMAO reductase system periplasmic protein TorT | 40 | 15 | 37.5 | 6.5 |
|  | BCB42647.1 cytochrome c | 49 | 16 | 32.7 | 6.5 |
|  | BCB41286.1 cell division protein FtsQ | 30 | 11 | 36.7 | 8.3 |
| FliG1 | BCB42943.1 flagellar motor switch protein FliG | 351 | 351 | 100.0 | 0 |
|  | BCB45279.1 flagellar motor switch protein FliG | 321 | 98 | 30.5 | 9.08E-55 |
|  | BCB41583.1 membrane protein | 49 | 16 | 32.7 | 2.2 |
|  | BCB43648.1 HTH-type transcriptional repressor NsrR | 69 | 17 | 24.6 | 2.5 |
|  | BCB42655.1 sensor histidine kinase | 60 | 22 | 36.7 | 3.7 |
|  | BCB42217.1 agglutination protein | 19 | 10 | 52.6 | 4.4 |
|  | BCB42782.1 iron-sulfur cluster carrier protein | 30 | 9 | 30.0 | 4.7 |
|  | BCB43899.1 hypothetical protein Vag1382\_30260 | 37 | 12 | 32.4 | 5.4 |
|  | BCB42332.1 N-acetyl-D-glucosamine kinase | 42 | 14 | 33.3 | 7.2 |
|  | BCB43492.1 arabinose 5-phosphate isomerase | 47 | 16 | 34.0 | 7.5 |
|  | BCB42220.1 agglutination protein | 20 | 10 | 50.0 | 8.5 |
|  | BCB43178.1 hypothetical protein Vag1382\_23050 | 79 | 23 | 29.1 | 9.1 |
|  | BCB44714.1 allophanate hydrolase | 20 | 11 | 55.0 | 9.9 |
| FliF1 | BCB42944.1 flagellar M-ring protein FliF | 580 | 580 | 100.0 | 0 |
|  | BCB45280.1 flagellar M-ring protein FliF | 535 | 145 | 27.1 | 1.11E-54 |
|  | BCB42850.1 2 4-dienoyl-CoA reductase | 32 | 14 | 43.8 | 2.4 |
|  | BCB41633.1 cholera toxin homolog transcriptional activator | 116 | 30 | 25.9 | 2.5 |
|  | BCB44369.1 1 4-alpha-glucan-branching protein | 43 | 16 | 37.2 | 6.2 |
|  | BCB41355.1 riboflavin biosynthesis protein | 39 | 13 | 33.3 | 8.5 |
| FliE1 | BCB42945.1 flagellar hook-basal body complex protein FliE | 103 | 103 | 100.0 | 2.06E-72 |
|  | BCB45281.1 flagellar hook-basal body complex protein FliE | 71 | 25 | 35.2 | 5.90E-11 |
|  | BCB41006.1 hypothetical protein Vag1382\_01320 | 61 | 17 | 27.9 | 0.25 |
|  | BCB43295.1 iron ABC transporter substrate-binding protein | 51 | 18 | 35.3 | 2.1 |
|  | BCB41228.1 lipoprotein | 40 | 17 | 42.5 | 4 |
|  | BCB43877.1 ATP synthase gamma chain | 28 | 11 | 39.3 | 4.4 |
|  | BCB40945.1 hypothetical protein Vag1382\_00710 | 66 | 19 | 28.8 | 6.3 |
|  | BCB42190.1 hypothetical protein Vag1382\_13160 | 25 | 8 | 32.0 | 7.4 |
|  | BCB44210.1 membrane protein | 19 | 9 | 47.4 | 9.2 |
|  | BCB42111.1 hypothetical protein Vag1382\_12370 | 17 | 9 | 52.9 | 9.3 |
|  | BCB45441.1 AsnC family transcriptional regulator | 20 | 7 | 35.0 | 9.9 |
| FlaM | BCB42946.1 sigma-54-dependent Fis family transcriptional regulator FlaM | 469 | 469 | 100.0 | 0 |
|  | BCB45282.1 sigma-54-dependent Fis family transcriptional regulator LafK | 467 | 199 | 42.6 | 3.64E-117 |
|  | BCB41724.1 sigma-54-dependent Fis family transcriptional regulator | 477 | 170 | 35.6 | 2.96E-92 |
|  | BCB40971.1 nitrogen regulation protein NR(I) | 379 | 140 | 36.9 | 3.59E-88 |
|  | BCB42325.1 sigma-54-dependent Fis family transcriptional regulator | 466 | 165 | 35.4 | 1.51E-83 |
|  | BCB42948.1 sigma-54-dependent Fis family transcriptional regulator FlaK | 229 | 122 | 53.3 | 2.08E-78 |
|  | BCB44437.1 sigma-54-dependent Fis family transcriptional regulator | 335 | 140 | 41.8 | 3.22E-78 |
|  | BCB42814.1 regulatory protein LuxO | 467 | 152 | 32.5 | 5.58E-78 |
|  | BCB44084.1 two-component system response regulator | 472 | 155 | 32.8 | 2.06E-77 |
|  | BCB40938.1 sigma-54-dependent Fis family transcriptional regulator | 469 | 163 | 34.8 | 1.94E-75 |
|  | BCB43172.1 acetoacetate metabolism regulatory protein AtoC | 465 | 160 | 34.4 | 3.61E-74 |
|  | BCB42354.1 sigma-54-dependent Fis family transcriptional regulator | 490 | 150 | 30.6 | 2.93E-73 |
|  | BCB41925.1 sigma-54-dependent Fis family transcriptional regulator | 276 | 111 | 40.2 | 1.29E-61 |
|  | BCB42045.1 TyrR family transcriptional regulator | 330 | 116 | 35.2 | 1.04E-60 |
|  | BCB42666.1 anaerobic nitric oxide reductase transcription regulator | 211 | 98 | 46.4 | 2.90E-60 |
|  | BCB42684.1 phage shock protein operon transcriptional activator | 223 | 91 | 40.8 | 2.50E-54 |
|  | BCB42144.1 sigma-54-dependent Fis family transcriptional regulator | 220 | 85 | 38.6 | 3.96E-48 |
|  | BCB41338.1 sigma-54-dependent Fis family transcriptional regulator | 239 | 87 | 36.4 | 2.00E-43 |
|  | BCB41221.1 sigma-54-dependent Fis family transcriptional regulator | 330 | 90 | 27.3 | 8.57E-34 |
|  | BCB44663.1 two-component system response regulator | 316 | 81 | 25.6 | 6.31E-28 |
|  | BCB45455.1 DNA-binding response regulator | 472 | 101 | 21.4 | 5.70E-24 |
|  | BCB41392.1 DNA-binding response regulator | 161 | 51 | 31.7 | 6.34E-17 |
|  | BCB42438.1 DNA-binding response regulator | 110 | 41 | 37.3 | 6.38E-16 |
|  | BCB45406.1 DNA-binding response regulator | 115 | 39 | 33.9 | 3.53E-14 |
|  | BCB44892.1 DNA-binding response regulator | 111 | 38 | 34.2 | 7.42E-14 |
|  | BCB41314.1 DNA-binding response regulator | 121 | 38 | 31.4 | 3.37E-13 |
|  | BCB43692.1 DNA-binding response regulator | 109 | 36 | 33.0 | 2.23E-12 |
|  | BCB41942.1 DNA-binding response regulator | 108 | 36 | 33.3 | 2.43E-12 |
|  | BCB42926.1 response regulator | 110 | 42 | 38.2 | 2.87E-12 |
|  | BCB44754.1 DNA-binding response regulator | 180 | 53 | 29.4 | 6.05E-12 |
|  | BCB42654.1 DNA-binding response regulator | 102 | 35 | 34.3 | 1.08E-11 |
|  | BCB44049.1 DNA-binding response regulator | 103 | 35 | 34.0 | 7.33E-11 |
|  | BCB41007.1 DNA-binding response regulator | 108 | 33 | 30.6 | 3.14E-10 |
|  | BCB41978.1 DNA-binding response regulator | 116 | 36 | 31.0 | 5.98E-10 |
|  | BCB41215.1 DNA-binding response regulator | 135 | 38 | 28.1 | 6.18E-10 |
|  | BCB44327.1 DNA-binding response regulator | 107 | 34 | 31.8 | 4.52E-09 |
|  | BCB41843.1 two-component system response regulator TorR | 122 | 35 | 28.7 | 6.72E-09 |
|  | BCB45189.1 DNA-binding response regulator | 130 | 31 | 23.8 | 1.54E-08 |
|  | BCB42881.1 two-component system response regulator | 103 | 25 | 24.3 | 4.15E-08 |
|  | BCB43282.1 histidine kinase | 109 | 30 | 27.5 | 5.68E-08 |
|  | BCB45263.1 DNA-binding response regulator | 104 | 30 | 28.8 | 7.12E-08 |
|  | BCB44611.1 chemotaxis protein CheV | 131 | 33 | 25.2 | 1.99E-06 |
|  | BCB42136.1 transcriptional regulatory protein | 104 | 32 | 30.8 | 2.07E-06 |
|  | BCB44348.1 DNA-binding response regulator | 112 | 30 | 26.8 | 5.02E-06 |
|  | BCB44508.1 histidine kinase | 119 | 30 | 25.2 | 8.07E-06 |
|  | BCB41363.1 putative response regulatory protein | 115 | 38 | 33.0 | 1.02E-05 |
|  | BCB43942.1 putative response regulatory protein | 118 | 36 | 30.5 | 2.11E-05 |
|  | BCB44604.1 hybrid sensor histidine kinase/response regulator | 103 | 25 | 24.3 | 4.67E-05 |
|  | BCB44575.1 histidine kinase | 173 | 42 | 24.3 | 7.50E-05 |
|  | BCB41957.1 hybrid sensor histidine kinase/response regulator | 115 | 31 | 27.0 | 9.58E-05 |
|  | BCB42017.1 DNA-binding response regulator | 67 | 19 | 28.4 | 1.17E-04 |
|  | BCB43932.1 hybrid sensor histidine kinase/response regulator | 121 | 33 | 27.3 | 1.39E-04 |
|  | BCB44762.1 diguanylate cyclase response regulator | 108 | 27 | 25.0 | 2.81E-04 |
|  | BCB42728.1 DNA-binding response regulator | 103 | 24 | 23.3 | 2.95E-04 |
|  | BCB44607.1 diguanylate phosphodiesterase | 181 | 40 | 22.1 | 0.001 |
|  | BCB43366.1 histidine kinase | 74 | 22 | 29.7 | 0.001 |
|  | BCB41312.1 aerobic respiration control sensor protein | 116 | 25 | 21.6 | 0.002 |
|  | BCB44366.1 autoinducer 2 sensor kinase/phosphatase LuxQ | 111 | 33 | 29.7 | 0.003 |
|  | BCB42502.1 two-component system sensor histidine kinase/response regulator | 118 | 31 | 26.3 | 0.003 |
|  | BCB42502.1 two-component system sensor histidine kinase/response regulator | 139 | 32 | 23.0 | 0.008 |
|  | BCB42923.1 chemotaxis response regulator protein-glutamate methylesterase of group 1 operon CheB | 106 | 27 | 25.5 | 0.005 |
|  | BCB42285.1 hybrid sensor histidine kinase/response regulator | 102 | 26 | 25.5 | 0.009 |
|  | BCB42342.1 transcriptional regulator | 174 | 36 | 20.7 | 0.011 |
|  | BCB43700.1 DNA-binding response regulator | 108 | 30 | 27.8 | 0.011 |
|  | BCB42623.1 response regulator | 83 | 26 | 31.3 | 0.015 |
|  | BCB41591.1 chemotaxis protein CheW | 121 | 29 | 24.0 | 0.016 |
|  | BCB42751.1 chemotaxis protein CheW | 124 | 31 | 25.0 | 0.021 |
|  | BCB44392.1 DNA-binding response regulator | 138 | 35 | 25.4 | 0.026 |
|  | BCB44016.1 CdaR family transcriptional regulator | 34 | 15 | 44.1 | 0.044 |
|  | BCB42039.1 hybrid sensor histidine kinase/response regulator | 72 | 16 | 22.2 | 0.08 |
|  | BCB41728.1 ATP-dependent Clp protease ATP-binding subunit ClpX | 140 | 34 | 24.3 | 0.091 |
|  | BCB44537.1 hybrid sensor histidine kinase/response regulator | 109 | 28 | 25.7 | 0.11 |
|  | BCB44626.1 transcriptional regulatory protein | 121 | 30 | 24.8 | 0.25 |
|  | BCB45119.1 chemotaxis protein CheW | 65 | 21 | 32.3 | 0.34 |
|  | BCB40929.1 DNA-binding transcriptional regulator AsnC | 47 | 14 | 29.8 | 0.49 |
|  | BCB41107.1 ATP-dependent protease ATPase subunit HslU | 43 | 11 | 25.6 | 0.75 |
|  | BCB42369.1 ATP-dependent RNA helicase HrpA | 99 | 24 | 24.2 | 0.93 |
|  | BCB43309.1 pantothenate synthetase | 45 | 15 | 33.3 | 1.3 |
|  | BCB42228.1 arginine ABC transporter ATP-binding protein | 27 | 11 | 40.7 | 1.3 |
|  | BCB44424.1 transcriptional regulator | 107 | 26 | 24.3 | 1.4 |
|  | BCB42168.1 hypothetical protein Vag1382\_12940 | 52 | 14 | 26.9 | 2.1 |
|  | BCB44959.1 ATP-dependent RNA helicase DeaD | 50 | 17 | 34.0 | 2.4 |
|  | BCB45343.1 hypothetical protein Vag1382\_44700 | 79 | 20 | 25.3 | 2.5 |
|  | BCB44071.1 agmatinase | 80 | 21 | 26.3 | 3.1 |
|  | BCB40964.1 cytochrome c | 66 | 19 | 28.8 | 3.5 |
|  | BCB44630.1 hypothetical protein Vag1382\_37570 | 54 | 20 | 37.0 | 3.7 |
|  | BCB43864.1 ATP-dependent protease | 146 | 33 | 22.6 | 4.4 |
|  | BCB41541.1 UPF0250 protein | 18 | 9 | 50.0 | 4.6 |
|  | BCB41692.1 SAM-dependent methyltransferase | 60 | 14 | 23.3 | 5.1 |
|  | BCB44562.1 iron(III) ABC transporter ATP-binding protein | 37 | 12 | 32.4 | 6.4 |
|  | BCB43534.1 maturase | 47 | 19 | 40.4 | 6.9 |
|  | BCB43268.1 ribosomal RNA large subunit methyltransferase E | 36 | 12 | 33.3 | 8.5 |
|  | BCB43078.1 RecBCD enzyme subunit RecC | 64 | 16 | 25.0 | 9.2 |
| FlaL | BCB42947.1 sensor histidine kinase FlaL | 343 | 343 | 100.0 | 0 |
|  | BCB41725.1 ATPase | 238 | 66 | 27.7 | 3.73E-21 |
|  | BCB43693.1 two-component sensor histidine kinase | 240 | 67 | 27.9 | 6.20E-16 |
|  | BCB43932.1 hybrid sensor histidine kinase/response regulator | 225 | 63 | 28.0 | 7.00E-16 |
|  | BCB42324.1 two-component sensor histidine kinase | 232 | 65 | 28.0 | 7.76E-16 |
|  | BCB44575.1 histidine kinase | 227 | 60 | 26.4 | 1.84E-15 |
|  | BCB45405.1 two-component sensor histidine kinase | 215 | 60 | 27.9 | 5.99E-15 |
|  | BCB43366.1 histidine kinase | 248 | 64 | 25.8 | 8.38E-15 |
|  | BCB40972.1 two-component system sensor histidine kinase NtrB | 349 | 81 | 23.2 | 9.19E-15 |
|  | BCB44537.1 hybrid sensor histidine kinase/response regulator | 235 | 63 | 26.8 | 1.09E-14 |
|  | BCB42439.1 two-component sensor histidine kinase | 221 | 54 | 24.4 | 1.18E-14 |
|  | BCB41393.1 PAS domain-containing sensor histidine kinase | 351 | 81 | 23.1 | 1.66E-14 |
|  | BCB44508.1 histidine kinase | 255 | 63 | 24.7 | 1.68E-14 |
|  | BCB41216.1 two-component sensor histidine kinase | 230 | 62 | 27.0 | 2.38E-14 |
|  | BCB41878.1 sensor histidine kinase | 258 | 65 | 25.2 | 4.14E-14 |
|  | BCB45454.1 signal transduction histidine kinase | 242 | 57 | 23.6 | 1.15E-13 |
|  | BCB42039.1 hybrid sensor histidine kinase/response regulator | 227 | 64 | 28.2 | 2.74E-13 |
|  | BCB41008.1 two-component sensor histidine kinase | 221 | 56 | 25.3 | 1.96E-12 |
|  | BCB42502.1 two-component system sensor histidine kinase/response regulator | 218 | 57 | 26.1 | 2.07E-12 |
|  | BCB44326.1 sensor histidine kinase | 232 | 55 | 23.7 | 5.51E-12 |
|  | BCB44366.1 autoinducer 2 sensor kinase/phosphatase LuxQ | 243 | 64 | 26.3 | 7.09E-12 |
|  | BCB41312.1 aerobic respiration control sensor protein | 229 | 56 | 24.5 | 1.84E-11 |
|  | BCB44662.1 ATPase | 379 | 88 | 23.2 | 3.94E-11 |
|  | BCB43707.1 sensor histidine kinase | 235 | 58 | 24.7 | 5.96E-11 |
|  | BCB42285.1 hybrid sensor histidine kinase/response regulator | 270 | 63 | 23.3 | 6.04E-11 |
|  | BCB43282.1 histidine kinase | 244 | 62 | 25.4 | 2.25E-10 |
|  | BCB44359.1 hybrid sensor histidine kinase/response regulator | 249 | 58 | 23.3 | 2.85E-10 |
|  | BCB44349.1 hypothetical protein Vag1382\_34760 | 222 | 56 | 25.2 | 1.38E-09 |
|  | BCB44050.1 two-component sensor histidine kinase | 220 | 56 | 25.5 | 3.40E-09 |
|  | BCB44083.1 signal transduction histidine kinase | 235 | 51 | 21.7 | 1.01E-08 |
|  | BCB44083.1 signal transduction histidine kinase | 54 | 16 | 29.6 | 0.24 |
|  | BCB42622.1 transcriptional regulator | 108 | 33 | 30.6 | 7.36E-08 |
|  | BCB42622.1 transcriptional regulator | 31 | 9 | 29.0 | 4.4 |
|  | BCB45190.1 sensor histidine kinase | 203 | 49 | 24.1 | 9.58E-08 |
|  | BCB44604.1 hybrid sensor histidine kinase/response regulator | 111 | 29 | 26.1 | 1.00E-07 |
|  | BCB42729.1 sensor histidine kinase | 237 | 52 | 21.9 | 2.48E-06 |
|  | BCB41957.1 hybrid sensor histidine kinase/response regulator | 97 | 36 | 37.1 | 1.63E-05 |
|  | BCB44755.1 sensor histidine kinase | 222 | 54 | 24.3 | 2.50E-05 |
|  | BCB42655.1 sensor histidine kinase | 126 | 32 | 25.4 | 6.22E-05 |
|  | BCB42407.1 sensor histidine kinase | 124 | 30 | 24.2 | 6.84E-04 |
|  | BCB44625.1 signal transduction histidine kinase | 101 | 31 | 30.7 | 0.002 |
|  | BCB42924.1 chemotaxis protein CheA | 182 | 40 | 22.0 | 0.015 |
|  | BCB41941.1 two-component sensor histidine kinase | 215 | 50 | 23.3 | 0.021 |
|  | BCB42135.1 histidine kinase | 340 | 77 | 22.6 | 0.036 |
|  | BCB45262.1 histidine kinase | 198 | 43 | 21.7 | 0.55 |
|  | BCB42369.1 ATP-dependent RNA helicase HrpA | 41 | 12 | 29.3 | 1.2 |
|  | BCB42405.1 sensor domain-containing phosphodiesterase | 97 | 22 | 22.7 | 5.9 |
|  | BCB45420.1 osmotically inducible protein C | 41 | 13 | 31.7 | 6 |
|  | BCB42242.1 GAF domain protein | 62 | 14 | 22.6 | 8.6 |
|  | BCB43302.1 ATP-dependent helicase HrpB | 40 | 14 | 35.0 | 9.1 |
| FlaK | BCB42948.1 sigma-54-dependent Fis family transcriptional regulator FlaK | 488 | 488 | 100.0 | 0 |
|  | BCB40971.1 nitrogen regulation protein NR(I) | 352 | 150 | 42.6 | 2.81E-81 |
|  | BCB41724.1 sigma-54-dependent Fis family transcriptional regulator | 237 | 118 | 49.8 | 3.03E-79 |
|  | BCB42946.1 sigma-54-dependent Fis family transcriptional regulator FlaM | 229 | 122 | 53.3 | 2.16E-78 |
|  | BCB42325.1 sigma-54-dependent Fis family transcriptional regulator | 320 | 141 | 44.1 | 8.83E-77 |
|  | BCB42666.1 anaerobic nitric oxide reductase transcription regulator | 353 | 134 | 38.0 | 1.13E-74 |
|  | BCB41925.1 sigma-54-dependent Fis family transcriptional regulator | 368 | 138 | 37.5 | 6.30E-74 |
|  | BCB45282.1 sigma-54-dependent Fis family transcriptional regulator LafK | 284 | 122 | 43.0 | 1.29E-73 |
|  | BCB40938.1 sigma-54-dependent Fis family transcriptional regulator | 471 | 162 | 34.4 | 3.28E-72 |
|  | BCB42354.1 sigma-54-dependent Fis family transcriptional regulator | 286 | 122 | 42.7 | 1.02E-71 |
|  | BCB44437.1 sigma-54-dependent Fis family transcriptional regulator | 366 | 138 | 37.7 | 3.30E-71 |
|  | BCB42814.1 regulatory protein LuxO | 398 | 142 | 35.7 | 1.52E-70 |
|  | BCB44084.1 two-component system response regulator | 419 | 154 | 36.8 | 1.16E-67 |
|  | BCB43172.1 acetoacetate metabolism regulatory protein AtoC | 334 | 136 | 40.7 | 1.77E-67 |
|  | BCB42684.1 phage shock protein operon transcriptional activator | 354 | 122 | 34.5 | 9.39E-60 |
|  | BCB42045.1 TyrR family transcriptional regulator | 246 | 95 | 38.6 | 2.09E-52 |
|  | BCB42144.1 sigma-54-dependent Fis family transcriptional regulator | 242 | 96 | 39.7 | 2.15E-52 |
|  | BCB41338.1 sigma-54-dependent Fis family transcriptional regulator | 474 | 131 | 27.6 | 5.92E-45 |
|  | BCB41221.1 sigma-54-dependent Fis family transcriptional regulator | 271 | 80 | 29.5 | 8.32E-37 |
|  | BCB44663.1 two-component system response regulator | 426 | 105 | 24.6 | 5.85E-16 |
|  | BCB43717.1 DNA-binding protein Fis | 52 | 19 | 36.5 | 0.009 |
|  | BCB45455.1 DNA-binding response regulator | 60 | 17 | 28.3 | 0.096 |
|  | BCB43864.1 ATP-dependent protease | 145 | 31 | 21.4 | 0.14 |
|  | BCB42728.1 DNA-binding response regulator | 152 | 35 | 23.0 | 0.18 |
|  | BCB45394.1 Fe3+ dicitrate ABC transporter permease | 32 | 12 | 37.5 | 1.4 |
|  | BCB43207.1 hypothetical protein Vag1382\_23340 | 34 | 15 | 44.1 | 2.6 |
|  | BCB41242.1 general secretion pathway protein GspA | 93 | 24 | 25.8 | 3.5 |
|  | BCB44065.1 ABC transporter ATP-binding protein | 125 | 33 | 26.4 | 5.3 |
|  | BCB44285.1 lipoate--protein ligase A | 61 | 16 | 26.2 | 7.9 |
|  | BCB43922.1 arginine ABC transporter ATP-binding protein | 27 | 9 | 33.3 | 8.1 |
|  | BCB44834.1 ATPase AAA | 165 | 39 | 23.6 | 8.5 |
| FlaJ1 | BCB42949.1 flagellar protein FliS | 136 | 136 | 100.0 | 1.25E-98 |
|  | BCB45297.1 flagellar protein FliS | 119 | 36 | 30.3 | 3.89E-19 |
|  | BCB41876.1 hypothetical protein Vag1382\_10020 | 18 | 8 | 44.4 | 2 |
|  | BCB42405.1 sensor domain-containing phosphodiesterase | 24 | 11 | 45.8 | 2.7 |
|  | BCB42658.1 bifunctional metallophosphatase/5'-nucleotidase | 33 | 11 | 33.3 | 9.2 |
|  | BCB41932.1 imidazole glycerol phosphate synthase subunit HisF | 34 | 11 | 32.4 | 9.9 |
| FlaI1 | BCB42950.1 flagellar protein FliT | 101 | 101 | 100.0 | 6.90E-70 |
|  | BCB43292.1 phosphoglucomutase/phosphomannomutase | 44 | 14 | 31.8 | 1.5 |
|  | BCB41523.1 GGDEF domain-containing protein | 32 | 14 | 43.8 | 5.5 |
|  | BCB45411.1 hypothetical protein Vag1382\_45380 | 58 | 15 | 25.9 | 7 |
|  | BCB44694.1 lipase | 23 | 8 | 34.8 | 7.7 |
|  | BCB45156.1 hypothetical protein Vag1382\_42830 | 22 | 9 | 40.9 | 9 |
|  | BCB43177.1 hypothetical protein Vag1382\_23040 | 26 | 10 | 38.5 | 9.7 |
| FlaH1 | BCB42951.1 polar flagellar hook-associated protein 2 | 663 | 663 | 100.0 | 0 |
|  | BCB45296.1 lateral flagellar hook-associated protein 2 | 256 | 63 | 24.6 | 5.10E-17 |
|  | BCB45296.1 lateral flagellar hook-associated protein 2 | 204 | 51 | 25.0 | 6.70E-12 |
|  | BCB42670.1 RNA pseudouridine synthase | 55 | 22 | 40.0 | 0.039 |
|  | BCB42775.1 ribosomal large subunit pseudouridine synthase C | 40 | 14 | 35.0 | 1.2 |
|  | BCB43331.1 tRNA (guanine-N(1)-)-methyltransferase | 67 | 20 | 29.9 | 1.5 |
|  | BCB41899.1 serine--tRNA ligase | 30 | 15 | 50.0 | 2.3 |
|  | BCB42180.1 type III secretion protein | 43 | 18 | 41.9 | 3.2 |
|  | BCB41147.1 Crp/Fnr family transcriptional regulator | 62 | 16 | 25.8 | 4.5 |
|  | BCB41807.1 exonuclease | 93 | 24 | 25.8 | 6.5 |
|  | BCB43932.1 hybrid sensor histidine kinase/response regulator | 40 | 13 | 32.5 | 7.6 |
|  | BCB43109.1 hypothetical protein Vag1382\_22360 | 40 | 12 | 30.0 | 9.3 |
| FlaG | BCB42952.1 protein FlaG | 144 | 144 | 100.0 | 3.37E-106 |
|  | BCB40968.1 coproporphyrinogen-III oxidase | 48 | 16 | 33.3 | 0.21 |
|  | BCB42685.1 ABC transporter substrate-binding protein | 52 | 15 | 28.8 | 0.34 |
|  | BCB44537.1 hybrid sensor histidine kinase/response regulator | 59 | 18 | 30.5 | 0.57 |
|  | BCB44272.1 GntR family transcriptional regulator | 29 | 11 | 37.9 | 1.2 |
|  | BCB45019.1 cold-shock protein | 30 | 12 | 40.0 | 1.4 |
|  | BCB42283.1 hypothetical protein Vag1382\_14090 | 47 | 16 | 34.0 | 1.7 |
|  | BCB42877.1 DNA polymerase III subunit gamma/tau | 86 | 21 | 24.4 | 3.4 |
|  | BCB41371.1 phospho-2-dehydro-3-deoxyheptonate aldolase | 48 | 14 | 29.2 | 4.4 |
|  | BCB41328.1 UPF0246 protein | 20 | 9 | 45.0 | 5.6 |
|  | BCB44498.1 hypothetical protein Vag1382\_36250 | 54 | 18 | 33.3 | 5.8 |
|  | BCB41494.1 aminoacyl-histidine dipeptidase | 15 | 8 | 53.3 | 8.8 |
|  | BCB42087.1 CopG family transcriptional regulator | 57 | 18 | 31.6 | 9 |
|  | BCB42648.1 outer membrane protein | 42 | 16 | 38.1 | 9.7 |
|  | BCB41701.1 histidine ammonia-lyase | 40 | 17 | 42.5 | 9.9 |
| FlaA | BCB42953.1 polar flagellin A | 376 | 376 | 100.0 | 0 |
|  | BCB42954.1 flagellin B | 377 | 291 | 77.2 | 0 |
|  | BCB41606.1 flagellin D | 377 | 290 | 76.9 | 0 |
|  | BCB42955.1 polar flagellin F | 377 | 252 | 66.8 | 1.35E-176 |
|  | BCB41605.1 polar flagellin C | 384 | 249 | 64.8 | 3.65E-173 |
|  | BCB41607.1 polar flagellin E | 374 | 186 | 49.7 | 1.01E-125 |
|  | BCB45292.1 lateral flagellin LafA | 161 | 84 | 52.2 | 3.31E-45 |
|  | BCB45292.1 lateral flagellin LafA | 81 | 36 | 44.4 | 1.42E-16 |
|  | BCB44956.1 chemotaxis protein | 68 | 22 | 32.4 | 0.53 |
|  | BCB44167.1 flagellar hook-associated protein 3 FlgL | 179 | 49 | 27.4 | 0.77 |
|  | BCB43088.1 DeoR/GlpR family transcriptional regulator | 30 | 12 | 40.0 | 2.5 |
|  | BCB42221.1 calcium-binding protein | 111 | 32 | 28.8 | 3.9 |
|  | BCB42221.1 calcium-binding protein | 110 | 31 | 28.2 | 9.6 |
|  | BCB42221.1 calcium-binding protein | 110 | 31 | 28.2 | 9.6 |
|  | BCB44483.1 ABC transporter ATP-binding protein | 36 | 18 | 50.0 | 8.8 |
| FlaB | BCB42954.1 flagellin B | 377 | 377 | 100.0 | 0 |
|  | BCB41606.1 flagellin D | 377 | 376 | 99.7 | 0 |
|  | BCB42953.1 polar flagellin A | 377 | 291 | 77.2 | 0 |
|  | BCB42955.1 polar flagellin F | 377 | 263 | 69.8 | 0 |
|  | BCB41605.1 polar flagellin C | 383 | 255 | 66.6 | 5.49E-180 |
|  | BCB41607.1 polar flagellin E | 375 | 200 | 53.3 | 1.14E-134 |
|  | BCB45292.1 lateral flagellin LafA | 171 | 90 | 52.6 | 4.19E-48 |
|  | BCB45292.1 lateral flagellin LafA | 79 | 36 | 45.6 | 7.05E-17 |
|  | BCB45296.1 lateral flagellar hook-associated protein 2 | 125 | 34 | 27.2 | 0.26 |
|  | BCB44167.1 flagellar hook-associated protein 3 FlgL | 53 | 16 | 30.2 | 0.97 |
|  | BCB43233.1 type I restriction-modification system subunit M | 44 | 16 | 36.4 | 2.6 |
|  | BCB44176.1 60 kDa chaperonin 2 | 28 | 15 | 53.6 | 2.9 |
|  | BCB40997.1 3'(2') 5'-bisphosphate nucleotidase CysQ | 49 | 16 | 32.7 | 2.9 |
|  | BCB43229.1 hypothetical protein Vag1382\_23560 | 49 | 14 | 28.6 | 4.4 |
|  | BCB44040.1 putative pseudouridine methyltransferase | 32 | 11 | 34.4 | 6.4 |
|  | BCB41218.1 dihydroxyacetone kinase subunit DhaK | 25 | 12 | 48.0 | 8.9 |
| FlaF | BCB42955.1 polar flagellin F | 377 | 377 | 100.0 | 0 |
|  | BCB42954.1 flagellin B | 377 | 263 | 69.8 | 0 |
|  | BCB41606.1 flagellin D | 377 | 263 | 69.8 | 0 |
|  | BCB42953.1 polar flagellin A | 377 | 252 | 66.8 | 1.35E-176 |
|  | BCB41605.1 polar flagellin C | 384 | 247 | 64.3 | 1.49E-170 |
|  | BCB41607.1 polar flagellin E | 374 | 177 | 47.3 | 7.89E-119 |
|  | BCB45292.1 lateral flagellin LafA | 171 | 96 | 56.1 | 1.39E-53 |
|  | BCB45292.1 lateral flagellin LafA | 72 | 31 | 43.1 | 9.49E-15 |
|  | BCB44167.1 flagellar hook-associated protein 3 FlgL | 134 | 31 | 23.1 | 0.023 |
|  | BCB45357.1 membrane protein | 31 | 14 | 45.2 | 1.8 |
|  | BCB43647.1 ribonuclease R | 41 | 16 | 39.0 | 1.9 |
|  | BCB45407.1 PTS glucose transporter subunit IIBC | 37 | 14 | 37.8 | 2.7 |
|  | BCB41055.1 UDP-N-acetyl glucosamine 2-epimerase | 95 | 26 | 27.4 | 2.7 |
|  | BCB45127.1 hemin ABC transporter substrate-binding protein | 51 | 17 | 33.3 | 3.5 |
|  | BCB43076.1 RecBCD enzyme subunit RecD | 91 | 26 | 28.6 | 6.1 |
|  | BCB41882.1 multidrug efflux RND transporter permease subunit | 64 | 17 | 26.6 | 6.3 |
|  | BCB44864.1 serine/threonine protein kinase | 46 | 15 | 32.6 | 7.6 |
|  | BCB41421.1 chaperone protein HscA | 32 | 10 | 31.3 | 8.1 |
|  | BCB42464.1 hypothetical protein Vag1382\_15900 | 141 | 36 | 25.5 | 9.2 |
| RpoN | BCB43496.1 RNA polymerase sigma-54 factor | 489 | 489 | 100.0 | 0 |
|  | BCB43637.1 DUF1338 domain-containing protein | 49 | 16 | 32.7 | 0.9 |
|  | BCB44591.1 putative lipid kinase YegS-like protein | 74 | 22 | 29.7 | 4.8 |
|  | BCB41460.1 hydrolase | 55 | 17 | 30.9 | 6.3 |
|  | BCB43007.1 zinc metalloprotease | 77 | 22 | 28.6 | 6.6 |
|  | BCB43780.1 MFS transporter | 109 | 24 | 22.0 | 6.7 |
|  | BCB43657.1 tRNA dimethylallyltransferase | 32 | 10 | 31.3 | 7.4 |
|  | BCB41887.1 phospholipase C | 20 | 10 | 50.0 | 7.9 |
|  | BCB44935.1 enoyl-CoA hydratase | 40 | 14 | 35.0 | 8.2 |
| ZomB | BCB41891.1 hypothetical protein Vag1382\_10170 | 254 | 254 | 100.0 | 0 |
|  | BCB41307.1 glutamate synthase large subunit | 66 | 21 | 31.8 | 0.25 |
|  | BCB43069.1 tRNA threonylcarbamoyladenosine dehydratase | 87 | 23 | 26.4 | 3 |
|  | BCB44398.1 transporter | 90 | 24 | 26.7 | 4 |
|  | BCB42214.1 GGDEF domain-containing protein | 33 | 14 | 42.4 | 4.5 |
|  | BCB41285.1 UDP-N-acetylmuramate--L-alanine ligase | 66 | 16 | 24.2 | 4.9 |
|  | BCB42619.1 type-1 fimbrial protein subunit A | 31 | 12 | 38.7 | 7.8 |
| PomA | BCB41513.1 flagellar motor protein PomA | 253 | 253 | 100.0 | 0 |
|  | BCB45125.1 biopolymer transporter ExbB | 109 | 26 | 23.9 | 7.75E-04 |
|  | BCB41019.1 biopolymer transporter ExbB | 60 | 17 | 28.3 | 0.007 |
|  | BCB41018.1 biopolymer transporter ExbB | 99 | 22 | 22.2 | 0.054 |
|  | BCB44053.1 flagellar motor protein MotA | 69 | 19 | 27.5 | 0.095 |
|  | BCB41866.1 Tol-Pal system subunit TolQ | 67 | 18 | 26.9 | 0.2 |
|  | BCB44054.1 hypothetical protein Vag1382\_31810 | 78 | 19 | 24.4 | 0.3 |
|  | BCB44756.1 NAD(P) transhydrogenase subunit beta | 18 | 10 | 55.6 | 1 |
|  | BCB41421.1 chaperone protein HscA | 26 | 10 | 38.5 | 1.8 |
|  | BCB44958.1 GGDEF-domain containing protein | 63 | 21 | 33.3 | 2.4 |
|  | BCB42928.1 site-determining protein FlhG | 86 | 23 | 26.7 | 6.8 |
|  | BCB42418.1 anaerobic sulfatase maturase | 56 | 14 | 25.0 | 9 |
| PomB | BCB41514.1 flagellar motor protein PomB | 315 | 315 | 100.0 | 0 |
|  | BCB44860.1 flagellar motor protein | 157 | 52 | 33.1 | 1.88E-23 |
|  | BCB42593.1 lipoprotein | 136 | 41 | 30.1 | 1.98E-09 |
|  | BCB45303.1 chemotaxis protein LafU | 152 | 45 | 29.6 | 1.04E-08 |
|  | BCB45023.1 membrane protein | 201 | 51 | 25.4 | 6.41E-08 |
|  | BCB44142.1 membrane protein | 76 | 25 | 32.9 | 9.29E-07 |
|  | BCB41583.1 membrane protein | 108 | 33 | 30.6 | 1.25E-06 |
|  | BCB42614.1 porin OmpA | 114 | 36 | 31.6 | 7.78E-06 |
|  | BCB42219.1 outer membrane protein | 107 | 30 | 28.0 | 1.89E-05 |
|  | BCB44402.1 membrane protein | 108 | 33 | 30.6 | 2.50E-05 |
|  | BCB42480.1 chemotaxis protein MotB | 202 | 46 | 22.8 | 3.28E-05 |
|  | BCB42216.1 outer membrane protein | 129 | 35 | 27.1 | 6.35E-04 |
|  | BCB44907.1 outer membrane protein | 143 | 35 | 24.5 | 0.004 |
|  | BCB45283.1 sodium-type flagellar protein MotY | 78 | 24 | 30.8 | 0.014 |
|  | BCB41870.1 peptidoglycan-associated lipoprotein | 101 | 24 | 23.8 | 0.2 |
|  | BCB42825.1 sodium-type flagellar protein MotY | 90 | 27 | 30.0 | 0.25 |
|  | BCB45471.1 polymerase | 74 | 26 | 35.1 | 2.2 |
|  | BCB44193.1 alpha-1 2-mannosidase | 41 | 13 | 31.7 | 2.6 |
|  | BCB41039.1 formamidopyrimidine-DNA glycosylase | 35 | 14 | 40.0 | 3.1 |
|  | BCB41912.1 amine oxidase | 34 | 12 | 35.3 | 6.7 |
|  | BCB41242.1 general secretion pathway protein GspA | 60 | 23 | 38.3 | 6.9 |
|  | BCB44778.1 acriflavine resistance protein B | 64 | 16 | 25.0 | 8.5 |
|  | BCB42806.1 peptide ABC transporter substrate-binding protein | 57 | 15 | 26.3 | 9.5 |
| MotX | BCB43650.1 sodium-type polar flagellar protein MotX | 211 | 211 | 100.0 | 8.57E-158 |
|  | BCB40892.1 3-ketoacyl-CoA thiolase | 79 | 26 | 32.9 | 0.11 |
|  | BCB42297.1 universal stress protein E | 77 | 23 | 29.9 | 0.24 |
|  | BCB45376.1 hypothetical protein Vag1382\_45030 | 77 | 21 | 27.3 | 1.7 |
|  | BCB43015.1 methionine aminopeptidase | 64 | 17 | 26.6 | 1.9 |
|  | BCB42712.1 5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase | 38 | 13 | 34.2 | 5.1 |
| MotY | BCB42825.1 sodium-type flagellar protein MotY | 293 | 293 | 100.0 | 0 |
|  | BCB45283.1 sodium-type flagellar protein MotY | 247 | 63 | 25.5 | 8.12E-24 |
|  | BCB44402.1 membrane protein | 100 | 36 | 36.0 | 8.56E-15 |
|  | BCB42593.1 lipoprotein | 96 | 38 | 39.6 | 3.21E-12 |
|  | BCB45023.1 membrane protein | 153 | 40 | 26.1 | 7.36E-11 |
|  | BCB44142.1 membrane protein | 69 | 25 | 36.2 | 5.05E-10 |
|  | BCB41583.1 membrane protein | 111 | 31 | 27.9 | 1.48E-08 |
|  | BCB42614.1 porin OmpA | 94 | 32 | 34.0 | 3.55E-08 |
|  | BCB41870.1 peptidoglycan-associated lipoprotein | 88 | 26 | 29.5 | 5.03E-07 |
|  | BCB42216.1 outer membrane protein | 102 | 22 | 21.6 | 1.53E-04 |
|  | BCB42219.1 outer membrane protein | 91 | 22 | 24.2 | 0.01 |
|  | BCB44860.1 flagellar motor protein | 75 | 22 | 29.3 | 0.036 |
|  | BCB44907.1 outer membrane protein | 54 | 15 | 27.8 | 0.088 |
|  | BCB41514.1 flagellar motor protein PomB | 90 | 27 | 30.0 | 0.24 |
|  | BCB45303.1 chemotaxis protein LafU | 73 | 20 | 27.4 | 0.36 |
|  | BCB44186.1 ethanolamine ammonia-lyase light chain | 30 | 15 | 50.0 | 1.4 |
|  | BCB44897.1 molecular chaperone | 214 | 49 | 22.9 | 1.9 |
|  | BCB41138.1 30S ribosomal protein S11 | 94 | 27 | 28.7 | 2.1 |
|  | BCB43375.1 sigma-E factor regulatory protein RseB | 21 | 10 | 47.6 | 2.3 |
|  | BCB45461.1 mechanosensitive ion channel protein MscS | 82 | 22 | 26.8 | 2.5 |
|  | BCB43736.1 DNA-directed RNA polymerase subunit beta' | 96 | 22 | 22.9 | 3.2 |
|  | BCB42511.1 diguanylate phosphodiesterase | 38 | 14 | 36.8 | 7.1 |
|  | BCB41690.1 nucleoside permease | 24 | 10 | 41.7 | 9 |
| Mtg | BCB44153.1 murein transglycosylase | 248 | 248 | 100.0 | 0 |
|  | BCB42992.1 lytic transglycosylase | 140 | 60 | 42.9 | 1.89E-29 |
|  | BCB43424.1 membrane-bound lytic murein transglycosylase C | 159 | 42 | 26.4 | 2.85E-08 |
|  | BCB41381.1 peptidoglycan lytic exotransglycosylase | 105 | 32 | 30.5 | 3.37E-08 |
|  | BCB41376.1 murein transglycosylase | 134 | 41 | 30.6 | 6.93E-07 |
|  | BCB44811.1 nitrite reductase small subunit | 65 | 16 | 24.6 | 0.7 |
|  | BCB42221.1 calcium-binding protein | 38 | 14 | 36.8 | 7.4 |
|  | BCB44207.1 LysR family transcriptional regulator | 24 | 9 | 37.5 | 8.5 |
| FlgN2 | BCB44154.1 protein FlgN | 145 | 145 | 100.0 | 8.53E-107 |
|  | BCB42223.1 methyl-accepting chemotaxis protein | 79 | 22 | 27.8 | 0.64 |
|  | BCB42720.1 membrane protein | 114 | 25 | 21.9 | 0.98 |
|  | BCB43120.1 hypothetical protein Vag1382\_22470 | 57 | 16 | 28.1 | 1.1 |
|  | BCB44406.1 transketolase 2 | 47 | 12 | 25.5 | 1.3 |
|  | BCB41203.1 phosphatase PAP2 family protein | 24 | 9 | 37.5 | 1.5 |
|  | BCB42208.1 N-acetyltransferase | 32 | 14 | 43.8 | 1.7 |
|  | BCB41780.1 methyl-accepting chemotaxis protein | 66 | 16 | 24.2 | 2.1 |
|  | BCB42043.1 hypothetical protein Vag1382\_11690 | 32 | 11 | 34.4 | 2.3 |
|  | BCB41804.1 UPF0304 protein | 62 | 18 | 29.0 | 2.5 |
|  | BCB41714.1 hemolysin | 52 | 10 | 19.2 | 3.7 |
|  | BCB43930.1 GTP cyclohydrolase-2 | 21 | 10 | 47.6 | 4.2 |
|  | BCB41588.1 molecular chaperone | 20 | 10 | 50.0 | 4.7 |
|  | BCB43078.1 RecBCD enzyme subunit RecC | 67 | 16 | 23.9 | 9.5 |
|  | BCB45424.1 lactoylglutathione lyase | 22 | 8 | 36.4 | 9.9 |
| FlgM2 | BCB44155.1 flagellar biosynthesis anti-sigma factor FlgM | 93 | 93 | 100.0 | 1.98E-65 |
|  | BCB42587.1 histidine ammonia-lyase | 42 | 14 | 33.3 | 0.11 |
|  | BCB45001.1 methyltransferase | 33 | 12 | 36.4 | 2.1 |
|  | BCB44547.1 hypothetical protein Vag1382\_36740 | 44 | 13 | 29.5 | 6.7 |
|  | BCB44059.1 peptidase | 54 | 21 | 38.9 | 9.5 |
|  | BCB44539.1 NADP-specific glutamate dehydrogenase | 44 | 13 | 29.5 | 9.7 |
| FlgA2 | BCB44156.1 flagella basal body P-ring formation protein FlgA | 265 | 265 | 100.0 | 0 |
|  | BCB41590.1 flagella basal body P-ring formation protein FlgA | 217 | 59 | 27.2 | 3.41E-20 |
|  | BCB43119.1 Flp pilus assembly protein CpaB | 64 | 18 | 28.1 | 0.83 |
|  | BCB41031.1 lipid A biosynthesis lauroyltransferase | 71 | 20 | 28.2 | 1.2 |
|  | BCB42400.1 LysR family transcriptional regulator | 41 | 12 | 29.3 | 1.5 |
|  | BCB43004.1 UDP-3-O-acylglucosamine N-acyltransferase | 72 | 20 | 27.8 | 2.1 |
|  | BCB42141.1 6-phosphogluconate dehydrogenase decarboxylating | 66 | 21 | 31.8 | 2.2 |
|  | BCB45358.1 outer membrane protein | 37 | 9 | 24.3 | 6.2 |
|  | BCB43246.1 ribosomal-protein-alanine acetyltransferase | 43 | 15 | 34.9 | 6.8 |
|  | BCB43417.1 non-canonical purine NTP pyrophosphatase | 64 | 17 | 26.6 | 7 |
|  | BCB44297.1 beta-ketoacyl-ACP reductase | 32 | 15 | 46.9 | 7.4 |
|  | BCB41547.1 ribosomal silencing factor RsfS | 36 | 13 | 36.1 | 9.6 |
| FlgB2 | BCB44157.1 flagellar basal body rod protein FlgB | 120 | 120 | 100.0 | 5.03E-87 |
|  | BCB41593.1 flagellar basal body rod protein FlgB | 130 | 50 | 38.5 | 7.56E-24 |
|  | BCB42976.1 uracil permease | 65 | 23 | 35.4 | 0.12 |
|  | BCB43540.1 alanine--glyoxylate aminotransferase | 67 | 18 | 26.9 | 0.89 |
|  | BCB40953.1 ubiquinone/menaquinone biosynthesis C-methyltransferase UbiE | 49 | 14 | 28.6 | 1.6 |
|  | BCB41851.1 gonadoliberin III | 22 | 10 | 45.5 | 3.4 |
|  | BCB42207.1 propionyl-CoA synthetase | 19 | 9 | 47.4 | 3.7 |
|  | BCB45316.1 DNA repair ATPase | 90 | 20 | 22.2 | 4.2 |
|  | BCB44771.1 aromatic amino acid aminotransferase | 30 | 11 | 36.7 | 6.4 |
|  | BCB41643.1 N-acetylglucosamine-6-phosphate deacetylase | 38 | 10 | 26.3 | 8.1 |
|  | BCB43856.1 SpoOM-like protein | 55 | 15 | 27.3 | 8.7 |
|  | BCB41199.1 3-isopropylmalate dehydratase large subunit | 35 | 11 | 31.4 | 9.5 |
|  | BCB41594.1 flagellar basal-body rod protein FlgC | 36 | 13 | 36.1 | 9.8 |
| FlgC2 | BCB44158.1 flagellar basal-body rod protein FlgC | 144 | 144 | 100.0 | 3.77E-105 |
|  | BCB41594.1 flagellar basal-body rod protein FlgC | 142 | 59 | 41.5 | 1.93E-35 |
|  | BCB41596.1 flagellar hook protein FlgE | 44 | 14 | 31.8 | 0.005 |
|  | BCB41596.1 flagellar hook protein FlgE | 81 | 22 | 27.2 | 0.82 |
|  | BCB45030.1 MFS transporter | 79 | 22 | 27.8 | 0.1 |
|  | BCB41843.1 two-component system response regulator TorR | 37 | 13 | 35.1 | 0.25 |
|  | BCB43143.1 hypothetical protein Vag1382\_22700 | 76 | 19 | 25.0 | 0.82 |
|  | BCB44160.1 flagellar hook protein FlgE | 51 | 15 | 29.4 | 1.3 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 45 | 13 | 28.9 | 1.6 |
|  | BCB45284.1 flagellar motor switch protein FliM | 39 | 14 | 35.9 | 1.9 |
|  | BCB43103.1 beta-galactosidase | 26 | 10 | 38.5 | 3 |
|  | BCB43206.1 hypothetical protein Vag1382\_23330 | 74 | 18 | 24.3 | 4.1 |
|  | BCB42238.1 ribosomal RNA small subunit methyltransferase F | 85 | 26 | 30.6 | 4.5 |
|  | BCB40932.1 hypothetical protein Vag1382\_00580 | 69 | 16 | 23.2 | 4.7 |
|  | BCB42424.1 L-ectoine synthase | 30 | 13 | 43.3 | 5.4 |
|  | BCB43942.1 putative response regulatory protein | 23 | 8 | 34.8 | 6.7 |
|  | BCB41960.1 long-chain-fatty-acid--CoA ligase | 49 | 15 | 30.6 | 8.6 |
| FlgD2 | BCB44159.1 basal-body rod modification protein FlgD | 227 | 227 | 100.0 | 5.59E-167 |
|  | BCB41595.1 basal-body rod modification protein FlgD | 147 | 40 | 27.2 | 8.08E-08 |
|  | BCB41457.1 sodium:alanine symporter | 20 | 9 | 45.0 | 4.1 |
|  | BCB43384.1 2-octaprenyl-6-methoxyphenol hydroxylase | 51 | 17 | 33.3 | 7.4 |
|  | BCB41973.1 ribosomal large subunit pseudouridine synthase B | 43 | 11 | 25.6 | 9.4 |
| FlgE2 | BCB44160.1 flagellar hook protein FlgE | 398 | 398 | 100.0 | 0 |
|  | BCB41596.1 flagellar hook protein FlgE | 440 | 151 | 34.3 | 1.68E-60 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 111 | 43 | 38.7 | 2.12E-15 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 132 | 44 | 33.3 | 1.18E-09 |
|  | BCB44162.1 flagellar basal-body rod protein FlgG | 85 | 33 | 38.8 | 1.43E-12 |
|  | BCB44162.1 flagellar basal-body rod protein FlgG | 131 | 37 | 28.2 | 1.81E-11 |
|  | BCB41597.1 flagellar basal body protein FlgF | 118 | 35 | 29.7 | 4.21E-06 |
|  | BCB41597.1 flagellar basal body protein FlgF | 43 | 16 | 37.2 | 5.03E-04 |
|  | BCB44161.1 flagellar basal body protein FlgF | 97 | 35 | 36.1 | 2.39E-05 |
|  | BCB44161.1 flagellar basal body protein FlgF | 43 | 16 | 37.2 | 8.74E-05 |
|  | BCB44166.1 flagellar hook-associated protein 1 FlgK | 64 | 25 | 39.1 | 4.13E-04 |
|  | BCB43575.1 glucose-6-phosphate isomerase | 55 | 16 | 29.1 | 2.7 |
|  | BCB44158.1 flagellar basal-body rod protein FlgC | 51 | 15 | 29.4 | 3.7 |
|  | BCB43484.1 UDP-N-acetylglucosamine 1-carboxyvinyltransferase | 106 | 31 | 29.2 | 4.9 |
|  | BCB41594.1 flagellar basal-body rod protein FlgC | 25 | 12 | 48.0 | 5.5 |
|  | BCB41594.1 flagellar basal-body rod protein FlgC | 37 | 10 | 27.0 | 6.4 |
|  | BCB44850.1 type VI secretion system protein ImpG | 28 | 13 | 46.4 | 5.8 |
|  | BCB42092.1 phospholipase D family protein | 58 | 16 | 27.6 | 8 |
|  | BCB43828.1 aminopeptidase | 32 | 13 | 40.6 | 8.1 |
| FlgF2 | BCB44161.1 flagellar basal body protein FlgF | 243 | 243 | 100.0 | 0 |
|  | BCB41597.1 flagellar basal body protein FlgF | 246 | 103 | 41.9 | 1.39E-55 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 265 | 69 | 26.0 | 2.66E-11 |
|  | BCB44162.1 flagellar basal-body rod protein FlgG | 270 | 64 | 23.7 | 2.78E-10 |
|  | BCB44160.1 flagellar hook protein FlgE | 97 | 35 | 36.1 | 1.47E-05 |
|  | BCB44160.1 flagellar hook protein FlgE | 43 | 16 | 37.2 | 5.36E-05 |
|  | BCB41596.1 flagellar hook protein FlgE | 115 | 34 | 29.6 | 0.001 |
|  | BCB41596.1 flagellar hook protein FlgE | 37 | 12 | 32.4 | 0.44 |
|  | BCB41475.1 NAD kinase | 96 | 30 | 31.3 | 0.42 |
|  | BCB44113.1 DNA-binding transcriptional regulator | 22 | 11 | 50.0 | 0.81 |
|  | BCB44410.1 GGDEF-domain containing protein | 46 | 17 | 37.0 | 3.2 |
|  | BCB41545.1 penicillin-binding protein 2 | 28 | 11 | 39.3 | 6.1 |
|  | BCB41679.1 hypothetical protein Vag1382\_08050 | 54 | 14 | 25.9 | 8.3 |
| FlgG2 | BCB44162.1 flagellar basal-body rod protein FlgG | 261 | 261 | 100.0 | 0 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 262 | 143 | 54.6 | 1.05E-96 |
|  | BCB41597.1 flagellar basal body protein FlgF | 261 | 73 | 28.0 | 1.05E-21 |
|  | BCB44160.1 flagellar hook protein FlgE | 86 | 34 | 39.5 | 1.08E-12 |
|  | BCB44160.1 flagellar hook protein FlgE | 132 | 39 | 29.5 | 1.03E-11 |
|  | BCB41596.1 flagellar hook protein FlgE | 134 | 46 | 34.3 | 1.39E-12 |
|  | BCB41596.1 flagellar hook protein FlgE | 81 | 28 | 34.6 | 6.01E-08 |
|  | BCB44161.1 flagellar basal body protein FlgF | 267 | 64 | 24.0 | 4.03E-11 |
|  | BCB41594.1 flagellar basal-body rod protein FlgC | 40 | 16 | 40.0 | 3.43E-04 |
|  | BCB44166.1 flagellar hook-associated protein 1 FlgK | 110 | 29 | 26.4 | 0.047 |
|  | BCB41318.1 bifunctional aspartate kinase/homoserine dehydrogenase I | 15 | 10 | 66.7 | 1.1 |
|  | BCB41464.1 sodium:proton antiporter | 101 | 28 | 27.7 | 3.1 |
|  | BCB41602.1 flagellar hook protein FlgK | 38 | 13 | 34.2 | 3.9 |
|  | BCB41926.1 ATP phosphoribosyltransferase | 49 | 14 | 28.6 | 6.6 |
|  | BCB42782.1 iron-sulfur cluster carrier protein | 89 | 21 | 23.6 | 6.7 |
|  | BCB42218.1 hypothetical protein Vag1382\_13440 | 15 | 8 | 53.3 | 7.1 |
|  | BCB44888.1 peptidase S8 | 56 | 15 | 26.8 | 7.4 |
|  | BCB44038.1 TldD protein | 57 | 19 | 33.3 | 8.4 |
| FlgH2 | BCB44163.1 flagellar L-ring protein 2 FlgH | 223 | 223 | 100.0 | 2.29E-168 |
|  | BCB41599.1 flagellar L-ring protein 1 FlgH | 198 | 73 | 36.9 | 1.79E-39 |
|  | BCB43177.1 hypothetical protein Vag1382\_23040 | 31 | 11 | 35.5 | 0.55 |
|  | BCB42398.1 SM-20 | 20 | 10 | 50.0 | 4.9 |
|  | BCB45369.1 putative ribosome biogenesis GTPase RsgA 2 | 35 | 11 | 31.4 | 6.9 |
|  | BCB45350.1 phosphotyrosine protein phosphatase | 32 | 13 | 40.6 | 7.9 |
| FlgI2 | BCB44164.1 flagellar P-ring protein 2 FlgI | 373 | 373 | 100.0 | 0 |
|  | BCB41600.1 flagellar P-ring protein 1 FlgI | 362 | 178 | 49.2 | 6.85E-120 |
|  | BCB43102.1 transcriptional regulator EbgR | 58 | 18 | 31.0 | 2.7 |
|  | BCB44792.1 two-component system sensor histidine kinase UhpB | 74 | 17 | 23.0 | 4.1 |
|  | BCB42019.1 BCCT family transporter | 56 | 17 | 30.4 | 4.7 |
|  | BCB42351.1 sugar ABC transporter substrate-binding protein | 26 | 12 | 46.2 | 5.4 |
|  | BCB44766.1 molybdate ABC transporter substrate-binding protein | 59 | 15 | 25.4 | 6.4 |
|  | BCB43278.1 iron-sulfur cluster insertion protein ErpA | 30 | 10 | 33.3 | 6.6 |
|  | BCB42902.1 peptidase M16 | 37 | 14 | 37.8 | 7.8 |
|  | BCB43694.1 superoxide dismutase | 30 | 12 | 40.0 | 8.9 |
| FlgJ2 | BCB44165.1 flagellar protein FlgJ | 182 | 182 | 100.0 | 1.35E-132 |
|  | BCB41601.1 peptidoglycan hydrolase FlgJ | 95 | 33 | 34.7 | 4.96E-10 |
|  | BCB41677.1 ATP-dependent helicase | 45 | 13 | 28.9 | 4 |
|  | BCB42223.1 methyl-accepting chemotaxis protein | 65 | 24 | 36.9 | 4.6 |
|  | BCB43606.1 phosphoenolpyruvate carboxylase | 58 | 17 | 29.3 | 7.5 |
|  | BCB44629.1 catalase-peroxidase 2 | 59 | 15 | 25.4 | 9 |
|  | BCB40967.1 coproporphyrinogen III oxidase | 30 | 11 | 36.7 | 9.9 |
| FlgK2 | BCB44166.1 flagellar hook-associated protein 1 FlgK | 457 | 457 | 100.0 | 0 |
|  | BCB41602.1 flagellar hook protein FlgK | 325 | 78 | 24.0 | 2.96E-20 |
|  | BCB41602.1 flagellar hook protein FlgK | 40 | 20 | 50.0 | 1.40E-05 |
|  | BCB44160.1 flagellar hook protein FlgE | 64 | 25 | 39.1 | 4.74E-04 |
|  | BCB41596.1 flagellar hook protein FlgE | 38 | 16 | 42.1 | 0.008 |
|  | BCB41473.1 DNA repair protein RecN | 166 | 34 | 20.5 | 0.017 |
|  | BCB44162.1 flagellar basal-body rod protein FlgG | 110 | 29 | 26.4 | 0.093 |
|  | BCB43146.1 hypothetical protein Vag1382\_22730 | 61 | 18 | 29.5 | 0.89 |
|  | BCB41597.1 flagellar basal body protein FlgF | 28 | 13 | 46.4 | 1.7 |
|  | BCB42777.1 sodium-independent anion transporter | 41 | 15 | 36.6 | 2.5 |
|  | BCB42904.1 fatty acid oxidation complex subunit alpha | 52 | 17 | 32.7 | 2.8 |
|  | BCB41594.1 flagellar basal-body rod protein FlgC | 37 | 12 | 32.4 | 3.6 |
|  | BCB41598.1 flagellar basal-body rod protein FlgG | 35 | 11 | 31.4 | 5.7 |
|  | BCB41296.1 carbamoyl-phosphate synthase large chain | 43 | 17 | 39.5 | 6.2 |
|  | BCB43501.1 magnesium transporter MgtE | 25 | 14 | 56.0 | 7.4 |
|  | BCB43734.1 NADH pyrophosphatase | 52 | 16 | 30.8 | 9.8 |
| FlgL2 | BCB44167.1 flagellar hook-associated protein 3 FlgL | 299 | 299 | 100.0 | 0 |
|  | BCB41603.1 flagellar hook-associated protein FlgL | 213 | 53 | 24.9 | 1.73E-13 |
|  | BCB41603.1 flagellar hook-associated protein FlgL | 69 | 23 | 33.3 | 3.94E-05 |
|  | BCB42955.1 polar flagellin F | 134 | 31 | 23.1 | 0.018 |
|  | BCB42953.1 polar flagellin A | 179 | 49 | 27.4 | 0.61 |
|  | BCB45292.1 lateral flagellin LafA | 113 | 27 | 23.9 | 0.68 |
|  | BCB41606.1 flagellin D | 53 | 16 | 30.2 | 0.69 |
|  | BCB42954.1 flagellin B | 53 | 16 | 30.2 | 0.71 |
|  | BCB43631.1 ABC transporter ATP-binding protein | 32 | 9 | 28.1 | 1.7 |
|  | BCB44072.1 biosynthetic arginine decarboxylase | 46 | 14 | 30.4 | 1.7 |
|  | BCB45379.1 glycosidase | 61 | 18 | 29.5 | 2.5 |
|  | BCB41666.1 zinc ABC transporter substrate-binding protein | 45 | 18 | 40.0 | 3.1 |
|  | BCB40968.1 coproporphyrinogen-III oxidase | 75 | 20 | 26.7 | 3.8 |
|  | BCB43257.1 polyribonucleotide nucleotidyltransferase | 36 | 13 | 36.1 | 4.4 |
|  | BCB41607.1 polar flagellin E | 94 | 23 | 24.5 | 4.7 |
|  | BCB43667.1 2 3-bisphosphoglycerate-independent phosphoglycerate mutase | 47 | 12 | 25.5 | 5.1 |
|  | BCB42223.1 methyl-accepting chemotaxis protein | 110 | 26 | 23.6 | 5.8 |
|  | BCB44842.1 nuclease SbcCD subunit C | 51 | 14 | 27.5 | 9.9 |
| Putative\_fla | BCB44168.1 flagellin | 346 | 346 | 100.0 | 0 |
|  | BCB44952.1 glycine/betaine ABC transporter substrate-binding protein | 33 | 14 | 42.4 | 1.9 |
|  | BCB43633.1 hydrolase | 41 | 15 | 36.6 | 2.1 |
|  | BCB41069.1 hypothetical protein Vag1382\_01950 | 41 | 13 | 31.7 | 7 |
|  | BCB43280.1 AI-2E family transporter | 38 | 14 | 36.8 | 8.6 |
|  | BCB43511.1 DUF3971 domain-containing protein | 20 | 9 | 45.0 | 9.4 |
| FliJ2 | BCB45276.1 flagellar export protein FliJ | 146 | 146 | 100.0 | 1.43E-105 |
|  | BCB41501.1 gamma-glutamyl phosphate reductase | 139 | 31 | 22.3 | 0.27 |
|  | BCB44700.1 transcriptional regulator | 95 | 20 | 21.1 | 0.83 |
|  | BCB44667.1 chitinase | 22 | 11 | 50.0 | 3.7 |
|  | BCB43803.1 heme biosynthesis protein HemY | 41 | 12 | 29.3 | 8.4 |
| FliI2 | BCB45277.1 flagellum-specific ATPase FliI | 448 | 448 | 100.0 | 0 |
|  | BCB42941.1 flagellum-specific ATPase FliI | 437 | 234 | 53.5 | 6.85E-166 |
|  | BCB42181.1 EscN/YscN/HrcN family type III secretion system ATPase | 415 | 175 | 42.2 | 1.47E-115 |
|  | BCB43876.1 ATP synthase subunit beta | 327 | 99 | 30.3 | 2.80E-38 |
|  | BCB43878.1 ATP synthase subunit alpha | 458 | 112 | 24.5 | 2.89E-35 |
|  | BCB43808.1 transcription termination factor Rho | 228 | 62 | 27.2 | 6.56E-11 |
|  | BCB42803.1 oligopeptide ABC transporter ATP-binding protein OppD | 97 | 28 | 28.9 | 0.041 |
|  | BCB42663.1 ABC transporter ATP-binding protein | 57 | 20 | 35.1 | 0.055 |
|  | BCB42716.1 macrolide export ATP-binding/permease protein MacB | 34 | 15 | 44.1 | 0.12 |
|  | BCB45281.1 flagellar hook-basal body complex protein FliE | 75 | 21 | 28.0 | 0.26 |
|  | BCB43719.1 ABC transporter ATP-binding protein | 36 | 12 | 33.3 | 0.33 |
|  | BCB41174.1 thiamine import ATP-binding protein ThiQ | 33 | 13 | 39.4 | 0.33 |
|  | BCB44308.1 D-alanyl-D-alanine carboxypeptidase | 86 | 25 | 29.1 | 0.44 |
|  | BCB41026.1 peptide ABC transporter ATP-binding protein | 39 | 16 | 41.0 | 0.77 |
|  | BCB42323.1 ABC-F family ATPase | 31 | 11 | 35.5 | 1.5 |
|  | BCB44431.1 peptidase M23 | 54 | 18 | 33.3 | 1.9 |
|  | BCB42430.1 glycine betaine/L-proline ABC transporter ATP-binding protein | 77 | 23 | 29.9 | 2.4 |
|  | BCB44710.1 ABC transporter ATP-binding protein | 24 | 10 | 41.7 | 2.6 |
|  | BCB43927.1 dipeptide/oligopeptide/nickel ABC transporter ATP-binding protein | 76 | 21 | 27.6 | 2.7 |
|  | BCB45191.1 multidrug ABC transporter ATP-binding protein | 33 | 10 | 30.3 | 2.9 |
|  | BCB41375.1 energy-dependent translational throttle protein EttA | 33 | 10 | 30.3 | 3.7 |
|  | BCB43534.1 maturase | 44 | 15 | 34.1 | 4.3 |
|  | BCB42586.1 urocanate hydratase | 29 | 12 | 41.4 | 4.9 |
|  | BCB43631.1 ABC transporter ATP-binding protein | 22 | 10 | 45.5 | 5.5 |
|  | BCB43631.1 ABC transporter ATP-binding protein | 33 | 10 | 30.3 | 6 |
|  | BCB41530.1 methionine import ATP-binding protein MetN | 42 | 15 | 35.7 | 5.5 |
|  | BCB43928.1 peptide ABC transporter ATP-binding protein | 28 | 11 | 39.3 | 6.5 |
|  | BCB45439.1 ABC transporter ATP-binding protein | 28 | 10 | 35.7 | 6.7 |
|  | BCB44875.1 nitrate ABC transporter ATP-binding protein | 41 | 14 | 34.1 | 7.7 |
|  | BCB42689.1 ABC transporter ATP-binding protein | 43 | 15 | 34.9 | 8.8 |
|  | BCB41750.1 multidrug resistance protein | 86 | 25 | 29.1 | 8.9 |
|  | BCB45076.1 ABC transporter ATP-binding protein | 49 | 20 | 40.8 | 9 |
|  | BCB44966.1 ABC transporter | 24 | 10 | 41.7 | 9.4 |
|  | BCB43312.1 ABC transporter ATP-binding protein | 36 | 14 | 38.9 | 9.5 |
| FliH2 | BCB45278.1 flagellar assembly protein FliH | 251 | 251 | 100.0 | 0 |
|  | BCB42942.1 flagellar assembly protein FliH | 195 | 57 | 29.2 | 2.57E-18 |
|  | BCB42161.1 type III secretion system protein | 179 | 40 | 22.3 | 1.37E-04 |
|  | BCB41442.1 LuxR family transcriptional regulator | 40 | 11 | 27.5 | 0.15 |
|  | BCB43876.1 ATP synthase subunit beta | 28 | 11 | 39.3 | 0.92 |
|  | BCB40909.1 peptide ABC transporter permease | 79 | 23 | 29.1 | 6.2 |
|  | BCB43837.1 gamma carbonic anhydrase family protein | 33 | 10 | 30.3 | 7.3 |
|  | BCB43887.1 tRNA uridine 5-carboxymethylaminomethyl modification enzyme MnmG | 50 | 16 | 32.0 | 9.2 |
|  | BCB42220.1 agglutination protein | 108 | 27 | 25.0 | 9.2 |
| FliG2 | BCB45279.1 flagellar motor switch protein FliG | 337 | 337 | 100.0 | 0 |
|  | BCB42943.1 flagellar motor switch protein FliG | 321 | 98 | 30.5 | 2.34E-53 |
|  | BCB42318.1 (Fe-S)-binding protein | 60 | 13 | 21.7 | 1.7 |
|  | BCB45129.1 hemin import ATP-binding protein HmuV | 34 | 12 | 35.3 | 2.9 |
|  | BCB44714.1 allophanate hydrolase | 122 | 35 | 28.7 | 2.9 |
|  | BCB42333.1 DTW domain-containing protein | 62 | 21 | 33.9 | 4.9 |
|  | BCB42200.1 bordetella uptake gene family protein | 108 | 29 | 26.9 | 5.7 |
|  | BCB45112.1 hypothetical protein Vag1382\_42390 | 89 | 28 | 31.5 | 7.2 |
| FliF2 | BCB45280.1 flagellar M-ring protein FliF | 569 | 569 | 100.0 | 0 |
|  | BCB42944.1 flagellar M-ring protein FliF | 556 | 151 | 27.2 | 1.98E-55 |
|  | BCB42159.1 EscJ/YscJ/HrcJ family type III secretion inner membrane ring protein | 167 | 42 | 25.2 | 0.041 |
|  | BCB41095.1 nucleoside-diphosphate sugar epimerase | 49 | 18 | 36.7 | 0.26 |
|  | BCB42647.1 cytochrome c | 77 | 26 | 33.8 | 1.9 |
|  | BCB45313.1 glycyl radical enzyme | 34 | 17 | 50.0 | 3.6 |
|  | BCB42583.1 histidine utilization repressor | 26 | 10 | 38.5 | 3.6 |
|  | BCB41553.1 hemolysin | 37 | 10 | 27.0 | 3.9 |
|  | BCB41309.1 glutamate synthase | 51 | 19 | 37.3 | 5 |
|  | BCB44255.1 putative phosphoenolpyruvate synthase regulatory protein | 37 | 15 | 40.5 | 5.3 |
|  | BCB43723.1 transcriptional regulator CadC | 43 | 14 | 32.6 | 6.3 |
|  | BCB41002.1 hypothetical protein Vag1382\_01280 | 31 | 13 | 41.9 | 7.3 |
| FliE2 | BCB45281.1 flagellar hook-basal body complex protein FliE | 118 | 118 | 100.0 | 2.77E-82 |
|  | BCB42945.1 flagellar hook-basal body complex protein FliE | 71 | 25 | 35.2 | 6.74E-11 |
|  | BCB45277.1 flagellum-specific ATPase FliI | 75 | 21 | 28.0 | 0.069 |
|  | BCB43601.1 bifunctional protein ArgH | 33 | 12 | 36.4 | 0.23 |
|  | BCB44437.1 sigma-54-dependent Fis family transcriptional regulator | 48 | 11 | 22.9 | 3.1 |
|  | BCB41939.1 1-aminocyclopropane-1-carboxylate deaminase | 31 | 9 | 29.0 | 4.5 |
|  | BCB45161.1 glycosyl transferase | 49 | 13 | 26.5 | 6.2 |
|  | BCB42941.1 flagellum-specific ATPase FliI | 80 | 24 | 30.0 | 7.8 |
|  | BCB45057.1 methyl-accepting chemotaxis protein | 56 | 17 | 30.4 | 9.4 |
| LafK | BCB45282.1 sigma-54-dependent Fis family transcriptional regulator LafK | 443 | 443 | 100.0 | 0 |
|  | BCB42946.1 sigma-54-dependent Fis family transcriptional regulator FlaM | 467 | 199 | 42.6 | 3.44E-117 |
|  | BCB42814.1 regulatory protein LuxO | 450 | 168 | 37.3 | 2.42E-86 |
|  | BCB43172.1 acetoacetate metabolism regulatory protein AtoC | 452 | 166 | 36.7 | 2.78E-78 |
|  | BCB42325.1 sigma-54-dependent Fis family transcriptional regulator | 325 | 133 | 40.9 | 8.57E-78 |
|  | BCB42354.1 sigma-54-dependent Fis family transcriptional regulator | 384 | 146 | 38.0 | 4.63E-76 |
|  | BCB40971.1 nitrogen regulation protein NR(I) | 390 | 141 | 36.2 | 5.34E-76 |
|  | BCB42948.1 sigma-54-dependent Fis family transcriptional regulator FlaK | 284 | 122 | 43.0 | 1.18E-73 |
|  | BCB41724.1 sigma-54-dependent Fis family transcriptional regulator | 386 | 156 | 40.4 | 2.34E-73 |
|  | BCB44437.1 sigma-54-dependent Fis family transcriptional regulator | 285 | 120 | 42.1 | 6.41E-72 |
|  | BCB41925.1 sigma-54-dependent Fis family transcriptional regulator | 285 | 117 | 41.1 | 8.52E-70 |
|  | BCB42666.1 anaerobic nitric oxide reductase transcription regulator | 224 | 109 | 48.7 | 1.06E-66 |
|  | BCB42045.1 TyrR family transcriptional regulator | 313 | 121 | 38.7 | 1.18E-64 |
|  | BCB40938.1 sigma-54-dependent Fis family transcriptional regulator | 312 | 119 | 38.1 | 1.64E-63 |
|  | BCB42684.1 phage shock protein operon transcriptional activator | 337 | 121 | 35.9 | 3.03E-59 |
|  | BCB44084.1 two-component system response regulator | 368 | 127 | 34.5 | 6.29E-59 |
|  | BCB42144.1 sigma-54-dependent Fis family transcriptional regulator | 296 | 110 | 37.2 | 2.85E-51 |
|  | BCB41338.1 sigma-54-dependent Fis family transcriptional regulator | 304 | 103 | 33.9 | 4.57E-49 |
|  | BCB41221.1 sigma-54-dependent Fis family transcriptional regulator | 299 | 95 | 31.8 | 2.72E-38 |
|  | BCB44663.1 two-component system response regulator | 412 | 93 | 22.6 | 1.83E-19 |
|  | BCB45455.1 DNA-binding response regulator | 329 | 75 | 22.8 | 4.05E-10 |
|  | BCB44348.1 DNA-binding response regulator | 121 | 35 | 28.9 | 1.08E-04 |
|  | BCB42438.1 DNA-binding response regulator | 112 | 32 | 28.6 | 1.23E-04 |
|  | BCB41942.1 DNA-binding response regulator | 134 | 36 | 26.9 | 5.46E-04 |
|  | BCB44754.1 DNA-binding response regulator | 116 | 34 | 29.3 | 6.48E-04 |
|  | BCB42654.1 DNA-binding response regulator | 116 | 27 | 23.3 | 0.001 |
|  | BCB41843.1 two-component system response regulator TorR | 136 | 36 | 26.5 | 0.001 |
|  | BCB41392.1 DNA-binding response regulator | 119 | 32 | 26.9 | 0.035 |
|  | BCB44762.1 diguanylate cyclase response regulator | 143 | 33 | 23.1 | 0.05 |
|  | BCB45263.1 DNA-binding response regulator | 170 | 35 | 20.6 | 0.081 |
|  | BCB45204.1 ATPase AAA | 139 | 36 | 25.9 | 0.11 |
|  | BCB44604.1 hybrid sensor histidine kinase/response regulator | 114 | 28 | 24.6 | 0.13 |
|  | BCB41107.1 ATP-dependent protease ATPase subunit HslU | 58 | 18 | 31.0 | 0.13 |
|  | BCB44892.1 DNA-binding response regulator | 113 | 28 | 24.8 | 0.16 |
|  | BCB44049.1 DNA-binding response regulator | 117 | 29 | 24.8 | 0.19 |
|  | BCB45189.1 DNA-binding response regulator | 68 | 20 | 29.4 | 0.24 |
|  | BCB43692.1 DNA-binding response regulator | 106 | 24 | 22.6 | 0.41 |
|  | BCB41215.1 DNA-binding response regulator | 117 | 29 | 24.8 | 0.71 |
|  | BCB45246.1 ATP-dependent protease | 71 | 22 | 31.0 | 0.97 |
|  | BCB44834.1 ATPase AAA | 151 | 36 | 23.8 | 1.3 |
|  | BCB44524.1 NAD/NADP-dependent betaine aldehyde dehydrogenase | 69 | 25 | 36.2 | 2.3 |
|  | BCB44392.1 DNA-binding response regulator | 41 | 15 | 36.6 | 2.4 |
|  | BCB43113.1 Flp pilus assembly protein | 45 | 15 | 33.3 | 2.6 |
|  | BCB43942.1 putative response regulatory protein | 31 | 12 | 38.7 | 2.9 |
|  | BCB45318.1 N-acetyltransferase | 25 | 9 | 36.0 | 4 |
|  | BCB43609.1 bifunctional aspartate kinase/homoserine dehydrogenase II | 78 | 22 | 28.2 | 4.7 |
|  | BCB43678.1 succinate dehydrogenase iron-sulfur subunit | 61 | 20 | 32.8 | 6.4 |
|  | BCB42732.1 tetrathionate reductase subunit A | 81 | 23 | 28.4 | 7.8 |
|  | BCB42136.1 transcriptional regulatory protein | 59 | 15 | 25.4 | 8.3 |
|  | BCB43717.1 DNA-binding protein Fis | 42 | 13 | 31.0 | 8.5 |
| MotY2 | BCB45283.1 sodium-type flagellar protein MotY | 339 | 339 | 100.0 | 0 |
|  | BCB42825.1 sodium-type flagellar protein MotY | 247 | 63 | 25.5 | 9.36E-24 |
|  | BCB41583.1 membrane protein | 103 | 41 | 39.8 | 5.83E-14 |
|  | BCB45023.1 membrane protein | 107 | 34 | 31.8 | 8.35E-11 |
|  | BCB42593.1 lipoprotein | 74 | 29 | 39.2 | 1.57E-10 |
|  | BCB44402.1 membrane protein | 101 | 33 | 32.7 | 2.57E-10 |
|  | BCB42614.1 porin OmpA | 102 | 36 | 35.3 | 1.27E-09 |
|  | BCB41870.1 peptidoglycan-associated lipoprotein | 100 | 31 | 31.0 | 1.32E-08 |
|  | BCB44142.1 membrane protein | 70 | 23 | 32.9 | 4.35E-07 |
|  | BCB42350.1 membrane protein | 86 | 24 | 27.9 | 9.77E-06 |
|  | BCB44907.1 outer membrane protein | 74 | 28 | 37.8 | 4.57E-05 |
|  | BCB44860.1 flagellar motor protein | 84 | 27 | 32.1 | 0.005 |
|  | BCB41514.1 flagellar motor protein PomB | 78 | 24 | 30.8 | 0.015 |
|  | BCB42480.1 chemotaxis protein MotB | 90 | 25 | 27.8 | 0.046 |
|  | BCB43507.1 RNA polymerase-associated protein RapA | 66 | 21 | 31.8 | 0.061 |
|  | BCB44436.1 hypothetical protein Vag1382\_35630 | 88 | 26 | 29.5 | 0.59 |
|  | BCB41706.1 acyl carrier protein | 23 | 13 | 56.5 | 7.2 |
|  | BCB43990.1 peptidase | 52 | 15 | 28.8 | 7.8 |
| FliM2 | BCB45284.1 flagellar motor switch protein FliM | 272 | 272 | 100.0 | 0 |
|  | BCB42937.1 flagellar motor switch protein FliM | 204 | 45 | 22.1 | 4.92E-04 |
|  | BCB43958.1 hypothetical protein Vag1382\_30850 | 71 | 18 | 25.4 | 0.81 |
|  | BCB44438.1 ClpV1 family T6SS ATPase | 51 | 16 | 31.4 | 1.7 |
|  | BCB41165.1 DUF490 domain-containing protein | 33 | 13 | 39.4 | 2.7 |
|  | BCB44158.1 flagellar basal-body rod protein FlgC | 39 | 14 | 35.9 | 3.6 |
| FliN2 | BCB45285.1 flagellar motor switch protein FliN | 123 | 123 | 100.0 | 4.01E-87 |
|  | BCB42936.1 flagellar motor switch protein FliN | 75 | 38 | 50.7 | 8.44E-23 |
|  | BCB42178.1 type III secretion system protein | 68 | 20 | 29.4 | 1.75E-07 |
|  | BCB40987.1 type II secretion system protein GspE | 112 | 29 | 25.9 | 0.23 |
|  | BCB44975.1 pyrrolidone-carboxylate peptidase | 46 | 11 | 23.9 | 0.38 |
|  | BCB42246.1 aminopeptidase | 72 | 24 | 33.3 | 1.8 |
|  | BCB42876.1 nucleoid-associated protein | 56 | 13 | 23.2 | 2.9 |
|  | BCB41208.1 acetolactate synthase small subunit | 61 | 21 | 34.4 | 3 |
|  | BCB45311.1 NAD-dependent dehydratase | 33 | 13 | 39.4 | 3.8 |
|  | BCB45463.1 peptide ABC transporter substrate-binding protein | 96 | 25 | 26.0 | 4.3 |
|  | BCB44347.1 hypothetical protein Vag1382\_34740 | 34 | 9 | 26.5 | 4.8 |
|  | BCB42459.1 hypothetical protein Vag1382\_15850 | 58 | 17 | 29.3 | 4.9 |
|  | BCB45388.1 hypothetical protein Vag1382\_45150 | 54 | 13 | 24.1 | 5 |
|  | BCB42617.1 outer membrane usher protein | 72 | 18 | 25.0 | 6 |
|  | BCB42937.1 flagellar motor switch protein FliM | 30 | 11 | 36.7 | 6.5 |
|  | BCB43692.1 DNA-binding response regulator | 27 | 12 | 44.4 | 7.1 |
|  | BCB43837.1 gamma carbonic anhydrase family protein | 68 | 20 | 29.4 | 8.3 |
|  | BCB42266.1 hypothetical protein Vag1382\_13920 | 31 | 10 | 32.3 | 8.4 |
|  | BCB41217.1 glycerol dehydrogenase | 27 | 9 | 33.3 | 8.6 |
|  | BCB45068.1 transporter | 33 | 13 | 39.4 | 8.8 |
|  | BCB43609.1 bifunctional aspartate kinase/homoserine dehydrogenase II | 87 | 21 | 24.1 | 9.4 |
|  | BCB41165.1 DUF490 domain-containing protein | 49 | 15 | 30.6 | 9.9 |
| FliP2 | BCB45286.1 flagellar biosynthetic protein FliP | 252 | 252 | 100.0 | 0 |
|  | BCB42934.1 flagellar biosynthetic protein FliP | 239 | 136 | 56.9 | 4.77E-89 |
|  | BCB42177.1 EscR/YscR/HrcR family type III secretion system export apparatus protein | 217 | 84 | 38.7 | 4.34E-44 |
|  | BCB44088.1 C4-dicarboxylate ABC transporter permease | 36 | 20 | 55.6 | 0.28 |
|  | BCB41462.1 aspartate aminotransferase family protein | 24 | 10 | 41.7 | 1.5 |
|  | BCB43060.1 hypothetical protein Vag1382\_21870 | 53 | 19 | 35.8 | 1.8 |
|  | BCB41977.1 DNA polymerase | 36 | 13 | 36.1 | 3.3 |
| FliQ2 | BCB45287.1 flagellar export apparatus protein FliQ | 89 | 89 | 100.0 | 2.91E-60 |
|  | BCB42933.1 flagellar export apparatus protein FliQ | 85 | 46 | 54.1 | 7.81E-31 |
|  | BCB42176.1 EscS/YscS/HrcS family type III secretion system export apparatus protein | 56 | 15 | 26.8 | 6.35E-04 |
|  | BCB41260.1 outer membrane-stress sensor serine endopeptidase DegS | 41 | 14 | 34.1 | 2.6 |
|  | BCB43011.1 ribosome-recycling factor | 38 | 11 | 28.9 | 7.7 |
|  | BCB41948.1 hypothetical protein Vag1382\_10740 | 44 | 18 | 40.9 | 7.7 |
|  | BCB44366.1 autoinducer 2 sensor kinase/phosphatase LuxQ | 52 | 12 | 23.1 | 8.5 |
| FliR2 | BCB45288.1 flagellar biosynthetic protein FliR | 258 | 258 | 100.0 | 0 |
|  | BCB42932.1 flagellar biosynthetic protein FliR | 230 | 79 | 34.3 | 9.81E-44 |
|  | BCB42175.1 EscT/YscT/HrcT family type III secretion system export apparatus protein | 149 | 36 | 24.2 | 3.35E-04 |
|  | BCB42117.1 hypothetical protein Vag1382\_12430 | 35 | 15 | 42.9 | 3.6 |
|  | BCB44947.1 GntR family transcriptional regulator | 44 | 14 | 31.8 | 4.3 |
|  | BCB41259.1 DNA topoisomerase 4 subunit A | 27 | 9 | 33.3 | 9.2 |
| FlhB2 | BCB45289.1 flagellar biosynthesis protein FlhB | 375 | 375 | 100.0 | 0 |
|  | BCB42931.1 flagellar biosynthesis protein FlhB | 368 | 143 | 38.9 | 5.20E-91 |
|  | BCB42174.1 EscU/YscU/HrcU family type III secretion system export apparatus switch protein | 352 | 103 | 29.3 | 9.03E-52 |
|  | BCB41500.1 glutamate 5-kinase | 60 | 18 | 30.0 | 0.076 |
|  | BCB44522.1 GGDEF domain-containing protein | 72 | 19 | 26.4 | 0.23 |
|  | BCB43591.1 fimbrial protein | 65 | 20 | 30.8 | 0.56 |
|  | BCB44919.1 glycine/betaine ABC transporter | 137 | 34 | 24.8 | 3 |
|  | BCB45230.1 GGDEF domain-containing protein | 34 | 10 | 29.4 | 3.2 |
|  | BCB43300.1 serine protease | 70 | 19 | 27.1 | 5 |
|  | BCB41544.1 rod shape-determining protein RodA | 39 | 13 | 33.3 | 5.3 |
| FlhA2 | BCB45290.1 flagellar biosynthesis protein FlhA | 696 | 696 | 100.0 | 0 |
|  | BCB42930.1 flagellar biosynthesis protein FlhA | 697 | 351 | 50.4 | 0 |
|  | BCB42187.1 EscV/YscV/HrcV family type III secretion system export apparatus protein | 730 | 226 | 31.0 | 1.49E-111 |
|  | BCB43107.1 chorismate-binding protein | 139 | 36 | 25.9 | 0.19 |
|  | BCB42709.1 histidine kinase | 65 | 18 | 27.7 | 1.3 |
|  | BCB44631.1 hypothetical protein Vag1382\_37580 | 25 | 11 | 44.0 | 2.2 |
|  | BCB42622.1 transcriptional regulator | 110 | 33 | 30.0 | 2.8 |
|  | BCB44980.1 membrane protein | 43 | 17 | 39.5 | 4.9 |
|  | BCB41220.1 hypothetical protein Vag1382\_03460 | 50 | 18 | 36.0 | 6.4 |
| Dgc | BCB45291.1 diguanylate phosphodiesterase | 265 | 265 | 100.0 | 0 |
|  | BCB44679.1 diguanylate phosphodiesterase | 77 | 22 | 28.6 | 0.013 |
|  | BCB44255.1 putative phosphoenolpyruvate synthase regulatory protein | 161 | 36 | 22.4 | 0.071 |
|  | BCB43987.1 N-hydroxyarylamine O-acetyltransferase | 72 | 23 | 31.9 | 1.1 |
|  | BCB42864.1 lactoylglutathione lyase | 31 | 16 | 51.6 | 1.7 |
|  | BCB44912.1 arginine ABC transporter substrate-binding protein | 65 | 19 | 29.2 | 2.3 |
|  | BCB41461.1 O-acetylhomoserine aminocarboxypropyltransferase | 56 | 15 | 26.8 | 3.7 |
|  | BCB43072.1 amino-acid acetyltransferase | 52 | 13 | 25.0 | 4.8 |
|  | BCB40891.1 quinone oxidoreductase | 51 | 15 | 29.4 | 7.1 |
|  | BCB42858.1 chemotaxis protein | 118 | 27 | 22.9 | 8.7 |
| LafA | BCB45292.1 lateral flagellin LafA | 281 | 281 | 100.0 | 0 |
|  | BCB42955.1 polar flagellin F | 378 | 138 | 36.5 | 2.68E-59 |
|  | BCB41605.1 polar flagellin C | 384 | 133 | 34.6 | 1.51E-56 |
|  | BCB41606.1 flagellin D | 171 | 90 | 52.6 | 9.57E-49 |
|  | BCB41606.1 flagellin D | 79 | 36 | 45.6 | 3.83E-17 |
|  | BCB42954.1 flagellin B | 171 | 90 | 52.6 | 1.36E-48 |
|  | BCB42954.1 flagellin B | 79 | 36 | 45.6 | 4.17E-17 |
|  | BCB42953.1 polar flagellin A | 159 | 84 | 52.8 | 1.97E-45 |
|  | BCB42953.1 polar flagellin A | 99 | 40 | 40.4 | 4.07E-17 |
|  | BCB41607.1 polar flagellin E | 153 | 63 | 41.2 | 2.05E-29 |
|  | BCB41607.1 polar flagellin E | 76 | 26 | 34.2 | 1.79E-09 |
|  | BCB41918.1 adenylosuccinate lyase | 41 | 15 | 36.6 | 0.52 |
|  | BCB41603.1 flagellar hook-associated protein FlgL | 143 | 35 | 24.5 | 0.52 |
|  | BCB44167.1 flagellar hook-associated protein 3 FlgL | 113 | 27 | 23.9 | 0.63 |
|  | BCB44678.1 DEAD/DEAH box helicase | 54 | 20 | 37.0 | 3.3 |
|  | BCB43148.1 conjugal transfer protein TraG | 87 | 26 | 29.9 | 3.9 |
|  | BCB41170.1 UDP-N-acetylmuramate--L-alanyl-gamma-D-glutamyl-meso-2 6-diaminoheptandioate ligase | 59 | 17 | 28.8 | 4 |
|  | BCB44940.1 acyl-CoA dehydrogenase | 47 | 13 | 27.7 | 4 |
|  | BCB42572.1 membrane protein | 35 | 14 | 40.0 | 4.2 |
|  | BCB44399.1 methyl-accepting chemotaxis protein | 49 | 17 | 34.7 | 6.2 |
|  | BCB42369.1 ATP-dependent RNA helicase HrpA | 30 | 12 | 40.0 | 7.7 |
|  | BCB41988.1 ribonucleotide-diphosphate reductase subunit beta | 24 | 11 | 45.8 | 8.7 |
| Maf | BCB45293.1 hypothetical protein Vag1382\_44200 | 440 | 440 | 100.0 | 0 |
|  | BCB43509.1 TldD protein | 90 | 23 | 25.6 | 0.69 |
|  | BCB42624.1 hypothetical protein Vag1382\_17500 | 47 | 17 | 36.2 | 1.6 |
|  | BCB44323.1 phosphoethanolamine transferase | 66 | 20 | 30.3 | 3.1 |
|  | BCB41093.1 acetyltransferase | 30 | 8 | 26.7 | 5.2 |
|  | BCB43124.1 AMP-dependent synthetase | 58 | 18 | 31.0 | 5.3 |
|  | BCB43057.1 MFS transporter | 32 | 11 | 34.4 | 5.7 |
|  | BCB41371.1 phospho-2-dehydro-3-deoxyheptonate aldolase | 28 | 12 | 42.9 | 6 |
|  | BCB43925.1 translation elongation factor | 23 | 10 | 43.5 | 6.7 |
|  | BCB42486.1 hypothetical protein Vag1382\_16120 | 26 | 8 | 30.8 | 6.8 |
| FliD2 | BCB45296.1 lateral flagellar hook-associated protein 2 | 445 | 445 | 100.0 | 0 |
|  | BCB42951.1 polar flagellar hook-associated protein 2 | 256 | 63 | 24.6 | 3.63E-17 |
|  | BCB42951.1 polar flagellar hook-associated protein 2 | 204 | 51 | 25.0 | 3.75E-12 |
|  | BCB42574.1 transcriptional regulator | 48 | 16 | 33.3 | 0.88 |
|  | BCB43694.1 superoxide dismutase | 141 | 32 | 22.7 | 1.6 |
|  | BCB41606.1 flagellin D | 59 | 19 | 32.2 | 3.1 |
|  | BCB42954.1 flagellin B | 59 | 19 | 32.2 | 3.1 |
|  | BCB44188.1 2-nitropropane dioxygenase | 31 | 9 | 29.0 | 4 |
|  | BCB45151.1 maltose ABC transporter substrate-binding protein MalE | 32 | 12 | 37.5 | 6.7 |
|  | BCB41296.1 carbamoyl-phosphate synthase large chain | 40 | 14 | 35.0 | 9.3 |
| FliS2 | BCB45297.1 flagellar protein FliS | 128 | 128 | 100.0 | 2.70E-92 |
|  | BCB42949.1 flagellar protein FliS | 119 | 36 | 30.3 | 3.66E-19 |
|  | BCB44152.1 DNA mismatch repair protein MutT | 52 | 14 | 26.9 | 1.4 |
|  | BCB45172.1 PTS fructose transporter subunit IIA | 38 | 9 | 23.7 | 1.8 |
|  | BCB42473.1 hypothetical protein Vag1382\_15990 | 32 | 13 | 40.6 | 2.7 |
|  | BCB41827.1 ATP-dependent Clp protease ATP-binding subunit ClpA | 36 | 14 | 38.9 | 3.6 |
| FliT2 | BCB45298.1 hypothetical protein Vag1382\_44250 | 106 | 106 | 100.0 | 1.90E-76 |
|  | BCB44289.1 transcription regulator | 41 | 15 | 36.6 | 0.1 |
|  | BCB42999.1 DNA-directed DNA polymerase | 41 | 14 | 34.1 | 0.61 |
|  | BCB42646.1 cytochrome c | 41 | 14 | 34.1 | 1.3 |
|  | BCB43382.1 hypothetical protein Vag1382\_25090 | 80 | 23 | 28.8 | 1.7 |
|  | BCB44786.1 hypothetical protein Vag1382\_39130 | 20 | 8 | 40.0 | 6.1 |
| FliK2 | BCB45299.1 flagellar hook-length control protein FliK | 357 | 357 | 100.0 | 0 |
|  | BCB42939.1 flagellar hook-length control protein FliK | 72 | 22 | 30.6 | 3.39E-06 |
|  | BCB41265.1 30S ribosomal protein S9 | 48 | 18 | 37.5 | 0.44 |
|  | BCB42740.1 orotidine 5'-phosphate decarboxylase | 50 | 14 | 28.0 | 6.6 |
|  | BCB45320.1 DNA-binding transcriptional regulator | 35 | 12 | 34.3 | 7.4 |
|  | BCB44534.1 sensor domain-containing phosphodiesterase | 89 | 25 | 28.1 | 7.5 |
| FliL2 | BCB45300.1 flagellar protein LafL | 166 | 166 | 100.0 | 6.69E-122 |
|  | BCB42938.1 flagellar basal body-associated protein FliL | 129 | 31 | 24.0 | 0.007 |
|  | BCB41444.1 plasmid replication protein | 47 | 18 | 38.3 | 0.18 |
|  | BCB43778.1 RNA polymerase subunit sigma | 67 | 19 | 28.4 | 1.4 |
|  | BCB42770.1 3-oxoacyl-[acyl-carrier-protein] synthase 3 protein 1 | 21 | 8 | 38.1 | 4 |
|  | BCB41373.1 peptidase M23 | 41 | 11 | 26.8 | 4.2 |
|  | BCB40890.1 LysR family transcriptional regulator | 58 | 17 | 29.3 | 4.7 |
|  | BCB44629.1 catalase-peroxidase 2 | 72 | 16 | 22.2 | 5.3 |
|  | BCB43640.1 acetylornithine aminotransferase | 86 | 21 | 24.4 | 5.3 |
|  | BCB42640.1 ABC transporter permease | 53 | 12 | 22.6 | 5.6 |
|  | BCB42390.1 Fe3+-hydroxamate ABC transporter permease FhuB | 29 | 12 | 41.4 | 7.1 |
|  | BCB44480.1 electron transfer flavoprotein subunit beta | 107 | 28 | 26.2 | 8.3 |
| FliA2 | BCB45301.1 RNA polymerase sigma factor for flagellar operon | 242 | 242 | 100.0 | 0 |
|  | BCB42927.1 RNA polymerase sigma factor FliA | 224 | 68 | 30.4 | 2.65E-35 |
|  | BCB41231.1 RNA polymerase sigma factor RpoD | 204 | 51 | 25.0 | 5.03E-05 |
|  | BCB42347.1 hypothetical protein Vag1382\_14730 | 96 | 27 | 28.1 | 0.054 |
|  | BCB43298.1 UPF0231 protein | 34 | 11 | 32.4 | 3.1 |
|  | BCB41405.1 malate synthase | 36 | 14 | 38.9 | 9.5 |
| MotA2 | BCB45302.1 chemotaxis protein LafT | 285 | 285 | 100.0 | 0 |
|  | BCB41790.1 transcription-repair-coupling factor | 88 | 22 | 25.0 | 2.1 |
|  | BCB41019.1 biopolymer transporter ExbB | 77 | 24 | 31.2 | 2.8 |
|  | BCB43631.1 ABC transporter ATP-binding protein | 32 | 12 | 37.5 | 2.8 |
|  | BCB44053.1 flagellar motor protein MotA | 94 | 28 | 29.8 | 3.2 |
|  | BCB42960.1 hypothetical protein Vag1382\_20870 | 17 | 9 | 52.9 | 4.3 |
|  | BCB42045.1 TyrR family transcriptional regulator | 107 | 28 | 26.2 | 7 |
| MotB2 | BCB45303.1 chemotaxis protein LafU | 330 | 330 | 100.0 | 0 |
|  | BCB41514.1 flagellar motor protein PomB | 152 | 45 | 29.6 | 1.08E-08 |
|  | BCB44907.1 outer membrane protein | 68 | 23 | 33.8 | 0.004 |
|  | BCB42480.1 chemotaxis protein MotB | 96 | 32 | 33.3 | 0.005 |
|  | BCB42825.1 sodium-type flagellar protein MotY | 73 | 20 | 27.4 | 0.4 |
|  | BCB42219.1 outer membrane protein | 110 | 29 | 26.4 | 0.93 |
|  | BCB41790.1 transcription-repair-coupling factor | 44 | 15 | 34.1 | 1.7 |
|  | BCB41583.1 membrane protein | 56 | 17 | 30.4 | 2.2 |
|  | BCB41111.1 DNA-binding transcriptional regulator CytR | 35 | 15 | 42.9 | 2.5 |
|  | BCB41022.1 microcin C ABC transporter permease YejB | 30 | 11 | 36.7 | 7.3 |
|  | BCB45451.1 AraC family transcriptional regulator | 45 | 11 | 24.4 | 8.3 |