| **ORF** | **Start** | **End** | **Len** | **Scr** | **Str** | **GI/SP** | **Top Hit** | **Top Hit Species** | **Hsp\_evalue** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 3 | 2048 | 682 | 434.8 | + | 746620931 | preprotein translocase subunit SecA | S. hyicus | 0E+00 |
| 2 | 2101 | 3177 | 359 | 154 | + | 744781917 | peptide chain release factor 2 | S. hyicus | 0E+00 |
| 3 | 3257 | 4135 | 293 | 76.9 | + | 744781916 | hypothetical protein SHYC\_09955 | S. hyicus | 5E-102 |
| 4 | 4269 | 4910 | 214 | 117.7 | + | 744781915 | putative 5'-deoxynucleotidase YfbR | S. hyicus | 2E-152 |
| 5 | 4916 | 5152 | 79 | 14.2 | + | 744781914 | hypothetical protein SHYC\_09945 | S. hyicus | 1E-47 |
| 6 | 5296 | 7278 | 661 | 401 | + | 744781913 | excinuclease ABC subunit B | S. hyicus | 0E+00 |
| 7 | 7284 | 10133 | 950 | 485.5 | + | 744781912 | excinuclease ABC subunit A | S. hyicus | 0E+00 |
| 8 | 10130 | 10534 | 135 | 71 | + | 744781911 | hypothetical protein SHYC\_09930 | S. hyicus | 4E-42 |
| 9 | 10702 | 11637 | 312 | 170 | + | 744781910 | HPr(Ser) kinase/phosphatase | S. hyicus | 0E+00 |
| 10 | 11637 | 12491 | 285 | 122.1 | + | 744781909 | prolipoprotein diacylglyceryl transferase | S. hyicus | 0E+00 |
| 11 | 12475 | 12960 | 162 | 43.4 | + | 744781908 | acetyltransferase | S. hyicus | 2E-98 |
| 12 | 12977 | 14413 | 479 | 192.9 | + | 744781907 | hypothetical protein SHYC\_09910 | S. hyicus | 0E+00 |
| 13 | 14477 | 15421 | 315 | 231.6 | + | 744781906 | thioredoxin reductase | S. hyicus | 0E+00 |
| 14 | 15587 | 16510 | 308 | 151.1 | + | 744781905 | P-loop ATPase family protein | S. hyicus | 0E+00 |
| 15 | 16479 | 17504 | 342 | 124 | + | 744781904 | CofD family protein | S. hyicus | 0E+00 |
| 16 | 17640 | 18584 | 315 | 163.4 | + | 744781903 | WhiA family transcriptional regulator | S. hyicus | 0E+00 |
| 17 | 18626 | 19207 | 194 | 144.2 | - | 744781902 | ATP-dependent Clp protease proteolytic subunit | S. hyicus | 3E-139 |
| 18 | 19743 | 20009 | 89 | 8.2 | - |  | No Significant Match |  |  |
| 19 | 20420 | 21109 | 230 | 59.6 | + |  | No Significant Match |  |  |
| 20 | 21309 | 21893 | 195 | 107.4 | - | 744781901 | lipoprotein | S. hyicus | 8E-106 |
| 21 | 22305 | 22505 | 67 | 41.6 | + | 744781900 | cold-shock protein | S. hyicus | 1E-40 |
| 22 | 22554 | 22757 | 68 | 33.3 | - | 744781899 | hypothetical protein SHYC\_09865 | S. hyicus | 3E-39 |
| 23 | 22927 | 23733 | 269 | 128.7 | + | 744781898 | glyoxalase/bleomycin resistance protein/dioxygenase superfamily protein | S. hyicus | 3E-142 |
| 24 | 23955 | 25460 | 502 | 299.7 | - | 744781897 | zinc metalloproteinase precursor/aureolysin | S. hyicus | 0E+00 |
| 25 | 25663 | 26151 | 163 | 70.2 | + | 744781896 | N-acetyltransferase | S. hyicus | 3E-108 |
| 26 | 26256 | 27158 | 301 | 144.4 | - | 744781895 | NAD dependent epimerase/dehydratase family protein | S. hyicus | 0E+00 |
| 27 | 27704 | 28366 | 221 | 100.2 | + | 744781894 | hypothetical protein SHYC\_09840 | S. hyicus | 1E-97 |
| 28 | 28427 | 28684 | 86 | 19.4 | - | 744781893 | hypothetical protein SHYC\_09835 | S. hyicus | 3E-37 |
| 29 | 28978 | 29994 | 339 | 140.8 | + | 744781892 | central glycolytic genes regulator | S. hyicus | 0E+00 |
| 30 | 30141 | 31148 | 336 | 232.7 | + | 744781891 | glyceraldehyde-3-phosphate dehydrogenase | S. hyicus | 0E+00 |
| 31 | 31339 | 32529 | 397 | 300.2 | + | 744781890 | phosphoglycerate kinase | S. hyicus | 0E+00 |
| 32 | 32591 | 33352 | 254 | 170.4 | + | 744781889 | triosephosphate isomerase | S. hyicus | 0E+00 |
| 33 | 33354 | 34874 | 507 | 349.3 | + | 744781888 | 2,3-bisphosphoglycerate-independent phosphoglycerate mutase | S. hyicus | 0E+00 |
| 34 | 35017 | 36321 | 435 | 312.6 | + | 744781887 | enolase | S. hyicus | 0E+00 |
| 35 | 36635 | 37102 | 156 | 58.6 | + | 744781885 | membrane protein | S. hyicus | 1E-102 |
| 36 | 37170 | 37403 | 78 | 43.7 | + | 744781884 | preprotein translocase subunit SecG | S. hyicus | 5E-46 |
| 37 | 37556 | 38296 | 247 | 136.4 | + | 744781883 | carboxylesterase | S. hyicus | 0E+00 |
| 38 | 38332 | 40686 | 785 | 461.1 | + | 744781882 | ribonuclease R | S. hyicus | 0E+00 |
| 39 | 40703 | 41167 | 155 | 94.5 | + | 744781881 | tmRNA-binding protein SmpB | S. hyicus | 5E-106 |
| 40 | 41664 | 42086 | 141 | 40.2 | + | 744781880 | hypothetical protein SHYC\_09775 | S. hyicus | 3E-55 |
| 41 | 42253 | 43698 | 482 | 127.4 | - | 744781879 | major facilitator transporter | S. hyicus | 0E+00 |
| 42 | 43810 | 44199 | 130 | 41.5 | - | 744781878 | hypothetical protein SHYC\_09765 | S. hyicus | 3E-64 |
| 43 | 44196 | 44711 | 172 | 70.5 | - | 744781877 | GNAT family acetyltransferase | S. hyicus | 6E-93 |
| 44 | 44995 | 45705 | 237 | 116 | + | 744781876 | 3-dehydroquinate dehydratase | S. hyicus | 5E-100 |
| 45 | 45771 | 46316 | 182 | 88.6 | + | 744781875 | nitroreductase family protein | S. hyicus | 7E-128 |
| 46 | 46421 | 46741 | 107 | 51.9 | - | 744781874 | thioredoxin | S. hyicus | 1E-70 |
| 47 | 46907 | 47260 | 118 | 78.4 | + | 744781873 | putative transcriptional regulator | S. hyicus | 1E-80 |
| 48 | 47330 | 47710 | 127 | 92.9 | + | 744781872 | glycine cleavage system protein H | S. hyicus | 4E-83 |
| 49 | 47793 | 48188 | 132 | 49.1 | + | 744781871 | TOPRIM domain containing protein | S. hyicus | 1E-90 |
| 50 | 48130 | 48468 | 113 | 29.5 | + | 744781870 | thioredoxin | S. hyicus | 1E-58 |
| 51 | 48712 | 49740 | 343 | 169.7 | + | 744781869 | methionine ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 52 | 49733 | 50428 | 232 | 109.6 | + | 744781868 | methionine ABC transporter permease | S. hyicus | 9E-142 |
| 53 | 50453 | 51277 | 275 | 178.5 | + | 744781867 | methionine ABC transporter substrate-binding lipoprotein | S. hyicus | 1E-175 |
| 54 | 51321 | 52172 | 284 | 115.9 | - | 744781866 | membrane protein | S. hyicus | 3E-179 |
| 55 | 52482 | 53252 | 257 | 173.9 | + | 744781865 | FeS assembly ATPase SufC | S. hyicus | 0E+00 |
| 56 | 53274 | 54581 | 436 | 270.8 | + | 744781864 | FeS assembly protein SufD | S. hyicus | 0E+00 |
| 57 | 54689 | 55939 | 417 | 225.5 | + | 744781863 | cysteine desulfurase, SufS subfamily | S. hyicus | 0E+00 |
| 58 | 55929 | 56378 | 150 | 81.2 | + | 744781862 | NifU-like protein | S. hyicus | 5E-108 |
| 59 | 56452 | 57849 | 466 | 275.5 | + | 744781861 | Fe-S cluster assembly protein SufB | S. hyicus | 0E+00 |
| 60 | 58394 | 59389 | 332 | 170.7 | + | 744781860 | CBS domain protein | S. hyicus | 0E+00 |
| 61 | 59605 | 59886 | 94 | 23.3 | + | O05413 | Probable nitronate monooxygenase | Bacillus subtilis | 7E-15 |
| 62 | 60058 | 60747 | 230 | 93.1 | - | A3GGU3 | Kynurenine formamidase | Scheffersomyces stipitis | 2E-05 |
| 63 | 60870 | 61718 | 283 | 119.8 | + | 744781859 | hypothetical protein SHYC\_09670 | S. hyicus | 0E+00 |
| 64 | 61734 | 62558 | 275 | 106.4 | + | 744781858 | membrane protein | S. hyicus | 3E-141 |
| 65 | 62571 | 63890 | 440 | 214.5 | + | 744781857 | 5'-nucleotidase | S. hyicus | 0E+00 |
| 66 | 63974 | 64891 | 306 | 202.4 | + | 744781856 | lipoyl synthase | S. hyicus | 0E+00 |
| 67 | 64910 | 65275 | 122 | 46.6 | + | 744781855 | hypothetical protein SHYC\_09650 | S. hyicus | 2E-81 |
| 68 | 65563 | 65829 | 89 | 61.9 | - | 744781854 | hypothetical protein SHYC\_09645 | S. hyicus | 1E-53 |
| 69 | 65928 | 66365 | 146 | 81.3 | + | 744781853 | hypothetical protein SHYC\_09640 | S. hyicus | 1E-90 |
| 70 | 66362 | 67159 | 266 | 144.4 | + | 744781852 | HAD family hydrolase | S. hyicus | 4E-174 |
| 71 | 67152 | 68117 | 322 | 164.8 | + | 744781851 | glyoxylate/hydroxypyruvate reductase | S. hyicus | 0E+00 |
| 72 | 68626 | 70080 | 485 | 261.5 | + | 744781850 | D-alanine--poly(phosphoribitol) ligase subunit 1 | S. hyicus | 0E+00 |
| 73 | 70077 | 71297 | 407 | 136.7 | + | 744781849 | D-alanine transport protein DltB | S. hyicus | 0E+00 |
| 74 | 71314 | 71550 | 79 | 64.4 | + | 744781848 | D-alanine--poly(phosphoribitol) ligase subunit 2 | S. hyicus | 1E-47 |
| 75 | 71547 | 72695 | 383 | 178.5 | + | 744781847 | poly D-alanine transfer protein DltD | S. hyicus | 0E+00 |
| 76 | 72913 | 73155 | 81 | 59.3 | - | 744781846 | NifU family protein | S. hyicus | 2E-50 |
| 77 | 73260 | 73586 | 109 | 56 | + | 744781845 | hypothetical protein SHYC\_09595 | S. hyicus | 3E-69 |
| 78 | 73681 | 74745 | 355 | 194.5 | - | 744781844 | pyridine nucleotide-disulfide oxidoreductase family protein | S. hyicus | 0E+00 |
| 79 | 75043 | 75279 | 79 | 29.2 | + | 744781843 | hypothetical protein SHYC\_09585 | S. hyicus | 3E-51 |
| 80 | 75292 | 75651 | 120 | 71.9 | + | 744781842 | iron-sulfur cluster insertion protein | S. hyicus | 1E-80 |
| 81 | 75984 | 77186 | 401 | 272.9 | + | 744781841 | NADH dehydrogenase | S. hyicus | 0E+00 |
| 82 | 77279 | 78763 | 495 | 265.9 | + | 744781840 | cytosol aminopeptidase | S. hyicus | 0E+00 |
| 83 | 79004 | 80317 | 438 | 216 | + | 744781839 | Na+/H+ antiporter family protein | S. hyicus | 0E+00 |
| 84 | 80342 | 80719 | 126 | 67.4 | + | 744781838 | thioesterase family protein | S. hyicus | 1E-73 |
| 85 | 80901 | 81905 | 335 | 138.7 | - | 744781837 | hypothetical protein SHYC\_09550 | S. hyicus | 0E+00 |
| 86 | 82139 | 82495 | 119 | 62.5 | - | 744781836 | monovalent cation/H+ antiporter subunit G | S. hyicus | 7E-74 |
| 87 | 82473 | 82766 | 98 | 56.1 | - | 744781835 | monovalent cation/H+ antiporter subunit F | S. hyicus | 3E-51 |
| 88 | 82766 | 83245 | 160 | 66.3 | - | 744781834 | monovalent cation/H+ antiporter subunit E | S. hyicus | 4E-109 |
| 89 | 83246 | 84748 | 501 | 209.5 | - | 744781833 | monovalent cation/H+ antiporter subunit D | S. hyicus | 0E+00 |
| 90 | 84735 | 85082 | 116 | 60.7 | - | 744781832 | monovalent cation/H+ antiporter subunit C | S. hyicus | 3E-76 |
| 91 | 85082 | 85510 | 143 | 43.1 | - | 744781831 | monovalent cation/H+ antiporter subunit B | S. hyicus | 1E-97 |
| 92 | 85491 | 87908 | 806 | 300.3 | - | 744781830 | monovalent cation/H+ antiporter subunit A | S. hyicus | 0E+00 |
| 93 | 88048 | 88428 | 127 | 66.5 | - | 744781829 | kinase associated protein B | S. hyicus | 6E-75 |
| 94 | 88502 | 89104 | 201 | 137.8 | + | 744781828 | peptidylprolyl isomerase | S. hyicus | 1E-140 |
| 95 | 89132 | 89389 | 86 | 39.1 | + | 744781827 | hypothetical protein SHYC\_09500 | S. hyicus | 3E-49 |
| 96 | 89677 | 90867 | 397 | 205.2 | + | Q50228 | Formamidase | Methylophilus methylotrophus | 2E-176 |
| 97 | 90867 | 91133 | 89 | 14.8 | + |  | No Significant Match |  |  |
| 98 | 91307 | 91696 | 130 | 50.3 | + | 744781826 | general stress protein | S. hyicus | 1E-90 |
| 99 | 92247 | 93791 | 515 | 350.3 | + | 744781825 | 1-pyrroline-5-carboxylate dehydrogenase | S. hyicus | 0E+00 |
| 100 | 94017 | 95219 | 401 | 254.5 | + | 744781824 | ornithine--oxo-acid aminotransferase | S. hyicus | 0E+00 |
| 101 | 95379 | 96623 | 415 | 249.4 | + | 744781823 | NAD-specific glutamate dehydrogenase | S. hyicus | 0E+00 |
| 102 | 96749 | 97690 | 314 | 181.2 | - | 744781822 | glycerophosphodiester phosphodiesterase | S. hyicus | 0E+00 |
| 103 | 97839 | 99212 | 458 | 221.2 | - | 744781821 | argininosuccinate lyase | S. hyicus | 0E+00 |
| 104 | 99205 | 100410 | 402 | 260.7 | - | 744781820 | argininosuccinate synthase | S. hyicus | 0E+00 |
| 105 | 100604 | 101935 | 444 | 302.8 | + | 744781819 | glucose-6-phosphate isomerase | S. hyicus | 0E+00 |
| 106 | 102105 | 102626 | 174 | 55.1 | + | 744781818 | signal peptidase I | S. hyicus | 6E-96 |
| 107 | 102629 | 103210 | 194 | 95.9 | + | 744781817 | signal peptidase IB | S. hyicus | 2E-133 |
| 108 | 103360 | 106812 | 1151 | 518.2 | + | 744781816 | ATP-dependent helicase/nuclease subunit B | S. hyicus | 0E+00 |
| 109 | 106809 | 110450 | 1214 | 563.9 | + | 744781815 | ATP-dependent helicase/nuclease subunit A | S. hyicus | 0E+00 |
| 110 | 110529 | 111431 | 301 | 211 | + | 744781814 | hypothetical protein SHYC\_09435 | S. hyicus | 0E+00 |
| 111 | 111682 | 112071 | 130 | 63.6 | + | 744781813 | hypothetical protein SHYC\_09430 | S. hyicus | 6E-66 |
| 112 | 112291 | 113610 | 440 | 258.5 | - | 744781812 | CoA-disulfide reductase | S. hyicus | 0E+00 |
| 113 | 113623 | 114447 | 275 | 144.1 | - | 744781811 | Cof family hydrolase | S. hyicus | 0E+00 |
| 114 | 114560 | 114868 | 103 | 71.9 | + | 744781810 | hypothetical protein SHYC\_09415 | S. hyicus | 6E-67 |
| 115 | 115102 | 117711 | 870 | 603.7 | + | 744781809 | ATP-dependent chaperone protein ClpB | S. hyicus | 0E+00 |
| 116 | 118061 | 118261 | 67 | 32.7 | - | 744781808 | hypothetical protein SHYC\_09405 | S. hyicus | 2E-36 |
| 117 | 118412 | 119353 | 314 | 201.8 | + | 744781807 | 3-oxoacyl-ACP synthase III | S. hyicus | 0E+00 |
| 118 | 119370 | 120614 | 415 | 287 | + | 744781806 | 3-oxoacyl-ACP synthase II | S. hyicus | 0E+00 |
| 119 | 120941 | 121321 | 127 | 31.1 | - | 744781805 | membrane protein | S. hyicus | 8E-77 |
| 120 | 121569 | 122495 | 309 | 115.6 | + | 744781804 | peptide ABC transporter permease | S. hyicus | 0E+00 |
| 121 | 122495 | 123556 | 354 | 181.8 | + | 744781803 | peptide ABC transporter permease | S. hyicus | 0E+00 |
| 122 | 123571 | 124644 | 358 | 211.1 | + | 744781802 | oligopeptide ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 123 | 124644 | 125582 | 313 | 163.6 | + | 744781801 | oligopeptide ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 124 | 125606 | 127267 | 554 | 322.6 | + | P26906 | Dipeptide-binding protein DppE | Bacillus subtilis | 4E-91 |
| 125 | 127307 | 128299 | 331 | 188.3 | - | 744781800 | tryptophanyl-tRNA synthetase | S. hyicus | 0E+00 |
| 126 | 128605 | 129000 | 132 | 82.4 | + | 744781799 | regulatory protein Spx | S. hyicus | 8E-93 |
| 127 | 129251 | 129970 | 240 | 150 | + | 744781798 | adapter protein MecA | S. hyicus | 4E-152 |
| 128 | 130131 | 131099 | 323 | 77.5 | + | 744781797 | CoiA family protein | S. hyicus | 0E+00 |
| 129 | 131170 | 132978 | 603 | 337.2 | + | 744781796 | oligoendopeptidase F | S. hyicus | 0E+00 |
| 130 | 133244 | 134038 | 265 | 106.9 | - | 744781795 | hypothetical protein SHYC\_09335 | S. hyicus | 0E+00 |
| 131 | 134053 | 134424 | 124 | 55.4 | - | 744781794 | globin family protein | S. hyicus | 3E-86 |
| 132 | 134509 | 135105 | 199 | 106.5 | - | 744781793 | adenylate cyclase | S. hyicus | 1E-104 |
| 133 | 135396 | 135743 | 116 | 50 | + | 744781792 | hypothetical protein SHYC\_09320 | S. hyicus | 3E-75 |
| 134 | 135760 | 136404 | 215 | 120.8 | + | 744781791 | GTP pyrophosphokinase | S. hyicus | 2E-153 |
| 135 | 136404 | 137213 | 270 | 101 | + | 744781790 | inorganic polyphosphate/ATP-NAD kinase | S. hyicus | 0E+00 |
| 136 | 137210 | 138064 | 285 | 97.8 | + | 744781789 | pseudouridine synthase | S. hyicus | 0E+00 |
| 137 | 138092 | 139477 | 462 | 263.7 | + | 744781788 | magnesium transporter MgtE | S. hyicus | 0E+00 |
| 138 | 139488 | 141323 | 612 | 297.5 | + | 744781787 | sodium:proton antiporter | S. hyicus | 0E+00 |
| 139 | 141468 | 142235 | 256 | 172.3 | + | 744781786 | enoyl-ACP reductase | S. hyicus | 0E+00 |
| 140 | 142303 | 143409 | 369 | 143.7 | - | 744781785 | membrane protein | S. hyicus | 0E+00 |
| 141 | 143601 | 145184 | 528 | 278.9 | + | 744781784 | sodium:alanine symporter family protein | S. hyicus | 0E+00 |
| 142 | 145312 | 146052 | 247 | 107 | + | 744781783 | putative esterase | S. hyicus | 5E-165 |
| 143 | 146103 | 146612 | 170 | 116.8 | + | 744781782 | putative RNA ligase or phosphoesterase | S. hyicus | 2E-116 |
| 144 | 146776 | 147084 | 103 | 30.8 | + | 744781781 | hypothetical protein SHYC\_09265 | S. hyicus | 5E-56 |
| 145 | 147107 | 148294 | 396 | 118.3 | - | 744781780 | putative glycolipid permease LtaA | S. hyicus | 0E+00 |
| 146 | 148272 | 149447 | 392 | 180 | - | 744781779 | processive diacylglycerol beta-glucosyltransferase | S. hyicus | 0E+00 |
| 147 | 149959 | 151443 | 495 | 295.9 | + | 744781778 | UDP-N-acetylmuramoylalanyl-D-glutamate--L-lysine ligase | S. hyicus | 0E+00 |
| 148 | 151433 | 151672 | 80 | 31.5 | + | 744781777 | YueH family protein | S. hyicus | 2E-51 |
| 149 | 151685 | 153247 | 521 | 325.4 | + | 744781776 | peptide chain release factor 3 | S. hyicus | 0E+00 |
| 150 | 153552 | 154352 | 267 | 142 | + | 744781775 | TerC family membrane protein | S. hyicus | 2E-173 |
| 151 | 154536 | 156146 | 537 | 291 | + | 744781774 | serine protease HtrA | S. hyicus | 0E+00 |
| 152 | 156163 | 157521 | 453 | 169.4 | + | 744781773 | cation transport protein | S. hyicus | 0E+00 |
| 153 | 157683 | 159176 | 498 | 214.2 | + | 744781772 | 2', 3'-cyclic nucleotide 2'-phosphodiesterase | S. hyicus | 0E+00 |
| 154 | 159604 | 162108 | 835 | 449.8 | + | 744781771 | fibronectin-binding protein | S. hyicus | 0E+00 |
| 155 | 162247 | 162849 | 201 | 56.8 | - | 744781770 | CAAX amino protease family protein | S. hyicus | 4E-135 |
| 156 | 162856 | 163041 | 62 | 26.9 | - | 744781769 | hypothetical protein SHYC\_09205 | S. hyicus | 1E-36 |
| 157 | 163217 | 164209 | 331 | 187.6 | + | 744781768 | lipoate-protein ligase LplJ | S. hyicus | 0E+00 |
| 158 | 164265 | 164492 | 76 | 43.5 | - | 744781767 | IDEAL domain protein | S. hyicus | 1E-40 |
| 159 | 164719 | 165357 | 213 | 81.5 | + | 744781766 | competence transcription factor ComK | S. hyicus | 1E-141 |
| 160 | 165478 | 165633 | 52 | 8.4 | + | 744781765 | hypothetical protein SHYC\_09185 | S. hyicus | 3E-19 |
| 161 | 165731 | 166180 | 150 | 70.6 | + | O32248 | Uncharacterized N-acetyltransferase YvbK | Bacillus subtilis | 7E-31 |
| 162 | 166613 | 166768 | 52 | 7 | + | 744781764 | YolD family protein | S. hyicus | 2E-22 |
| 163 | 166820 | 167200 | 127 | 41.8 | - | P0A041 | Penicillinase repressor | S. epidermidis | 4E-77 |
| 164 | 167190 | 168947 | 586 | 117.5 | - | P18357 | Regulatory protein BlaR1 | S. aureus | 0E+00 |
| 165 | 169054 | 169899 | 282 | 122.5 | + | P00807 | Beta-lactamase | S. aureus | 0E+00 |
| 166 | 170213 | 170623 | 137 | 54.6 | + | 744781764 | YolD family protein | S. hyicus | 8E-27 |
| 167 | 170666 | 172036 | 457 | 145.1 | - |  | No Significant Match |  |  |
| 168 | 172041 | 172406 | 122 | 57.4 | - | P0A049 | Transposase for transposon Tn554 | S. aureus | 1E-14 |
| 169 | 172415 | 174478 | 688 | 176 | - | P37375 | Transposase B from transposon PsiTn554 | S. aureus | 9E-51 |
| 170 | 174481 | 175593 | 371 | 94.9 | - | P0A052 | Transposase A from transposon Tn554 | S. aureus | 3E-67 |
| 171 | 176446 | 177495 | 350 | 130.4 | - | Q8TZV9 | Probable tyrosine recombinase XerC-like | Pyrococcus furiosus | 1E-09 |
| 172 | 177808 | 178431 | 208 | 42.6 | + |  | No Significant Match |  |  |
| 173 | 178796 | 178957 | 54 | 33.5 | - |  | No Significant Match |  |  |
| 174 | 178970 | 179641 | 224 | 74.6 | - |  | No Significant Match |  |  |
| 175 | 179655 | 179993 | 113 | 60.5 | - | P23789 | HTH-type transcriptional regulator Xre | Bacillus subtilis | 5E-06 |
| 176 | 180257 | 180451 | 65 | 39.3 | + |  | No Significant Match |  |  |
| 177 | 180451 | 181239 | 263 | 142.9 | + | P44193 | Uncharacterized protein HI\_1422 | Haemophilus influenzae | 3E-12 |
| 178 | 181251 | 181472 | 74 | 52.8 | + | 686149522 | hypothetical protein | S. aureus | 3E-41 |
| 179 | 181508 | 181678 | 57 | 8.3 | + |  | No Significant Match |  |  |
| 180 | 181606 | 181818 | 71 | 35.1 | - |  | No Significant Match |  |  |
| 181 | 181891 | 182103 | 71 | 25.1 | + |  | No Significant Match |  |  |
| 182 | 182097 | 182270 | 58 | 15.3 | + |  | No Significant Match |  |  |
| 183 | 182350 | 182616 | 89 | 51.6 | + |  | No Significant Match |  |  |
| 184 | 182613 | 182831 | 73 | 29.8 | + |  | No Significant Match |  |  |
| 185 | 182832 | 183494 | 221 | 90.2 | + |  | No Significant Match |  |  |
| 186 | 183494 | 183892 | 133 | 73.1 | + | P59933 | Single-stranded DNA-binding protein | Wolinella succinogenes | 1E-20 |
| 187 | 183904 | 184578 | 225 | 34.5 | + |  | No Significant Match |  |  |
| 188 | 184575 | 184778 | 68 | 2.1 | + |  | No Significant Match |  |  |
| 189 | 184817 | 185617 | 267 | 131.3 | + |  | No Significant Match |  |  |
| 190 | 185614 | 185955 | 114 | 32.8 | + |  | No Significant Match |  |  |
| 191 | 185948 | 187186 | 413 | 149.7 | + | P57611 | Replicative DNA helicase | Buchnera aphidicola | 3E-45 |
| 192 | 187183 | 187401 | 73 | 7.7 | + |  | No Significant Match |  |  |
| 193 | 187388 | 187810 | 141 | 52.1 | + | P45911 | Uncharacterized protein YqaN | Bacillus subtilis | 1E-07 |
| 194 | 187812 | 188234 | 141 | 52.7 | + |  | No Significant Match |  |  |
| 195 | 188231 | 188641 | 137 | 52.1 | + |  | No Significant Match |  |  |
| 196 | 188638 | 189132 | 165 | 84.7 | + | 744781020 | putative nucleoside 2-deoxyribosyltransferase | S. hyicus | 5E-24 |
| 197 | 189125 | 189337 | 71 | 20.5 | + |  | No Significant Match |  |  |
| 198 | 189349 | 189753 | 135 | 63.6 | + | 744780978 | hypothetical protein SHYC\_05120 | S. hyicus | 5E-09 |
| 199 | 189750 | 190082 | 111 | 27.9 | + | 744780981 | hypothetical protein SHYC\_05135 | S. hyicus | 8E-20 |
| 200 | 190066 | 190362 | 99 | 48.7 | + | Q38441 | Uncharacterized 10.3 kDa protein in GP2-GP6 intergenic region | Bacillus phage | 1E-16 |
| 201 | 190325 | 190540 | 72 | 15 | + | 744780982 | hypothetical protein SHYC\_05140 | S. hyicus | 5E-29 |
| 202 | 190533 | 190763 | 77 | 16.4 | + | 744780983 | hypothetical protein SHYC\_05145 | S. hyicus | 1E-29 |
| 203 | 190747 | 191106 | 120 | 44 | + | 746621824 | hypothetical protein, partial | S. hyicus | 6E-37 |
| 204 | 191107 | 191625 | 173 | 102.7 | + | Q6BRN7 | Deoxyuridine 5'-triphosphate nucleotidohydrolase | Debaryomyces hansenii | 1E-23 |
| 205 | 191944 | 192432 | 163 | 82.5 | + |  | No Significant Match |  |  |
| 206 | 192443 | 192904 | 154 | 56.5 | + |  | No Significant Match |  |  |
| 207 | 193034 | 193426 | 131 | 3 | + |  | No Significant Match |  |  |
| 208 | 193559 | 194029 | 157 | 69.7 | + |  | No Significant Match |  |  |
| 209 | 194022 | 195155 | 378 | 145.5 | + | P59217 | Putative terminase large subunit | Shigella phage | 3E-40 |
| 210 | 195429 | 195728 | 100 | 5.8 | - | P37248 | Transposase for insertion sequence element IS1086 | Ralstonia metallidurans | 4E-15 |
| 211 | 195883 | 196413 | 177 | 75.6 | - |  | No Significant Match |  |  |
| 212 | 196525 | 196887 | 121 | 76.5 | - |  | No Significant Match |  |  |
| 213 | 196934 | 197527 | 198 | 101.1 | - |  | No Significant Match |  |  |
| 214 | 197533 | 198561 | 343 | 190.1 | - | 746621932 | hypothetical protein, partial | S. hyicus | 7E-23 |
| 215 | 198551 | 200482 | 644 | 303.8 | - | P96644 | Uncharacterized membrane protein YddG | Bacillus subtilis | 9E-46 |
| 216 | 200582 | 200983 | 134 | 71 | - |  | No Significant Match |  |  |
| 217 | 200988 | 202346 | 453 | 247.3 | - | P96634 | Ftsk domain-containing protein YdcQ | Bacillus subtilis | 7E-63 |
| 218 | 202351 | 202683 | 111 | 37.7 | - |  | No Significant Match |  |  |
| 219 | 202680 | 202910 | 77 | 27.6 | - |  | No Significant Match |  |  |
| 220 | 202914 | 203132 | 73 | 27.9 | - |  | No Significant Match |  |  |
| 221 | 203144 | 205639 | 832 | 432.1 | - | P96642 | Uncharacterized protein YddE | Bacillus subtilis | 0E+00 |
| 222 | 205674 | 206063 | 130 | 54 | - | P96641 | Uncharacterized protein YddD | Bacillus subtilis | 2E-05 |
| 223 | 206069 | 206329 | 87 | 41 | - |  | No Significant Match |  |  |
| 224 | 206334 | 207410 | 359 | 159.4 | - | O31491 | Uncharacterized protein YddB | Bacillus subtilis | 2E-20 |
| 225 | 207638 | 208777 | 380 | 111.5 | - | P96635 | Putative DNA relaxase NicK | Bacillus subtilis | 1E-57 |
| 226 | 208943 | 209368 | 142 | 87.6 | - |  | No Significant Match |  |  |
| 227 | 209390 | 209713 | 108 | 56.2 | - |  | No Significant Match |  |  |
| 228 | 209868 | 210152 | 95 | 7.1 | - |  | No Significant Match |  |  |
| 229 | 210239 | 210844 | 202 | 53.9 | + |  | No Significant Match |  |  |
| 230 | 210856 | 211041 | 62 | 20.3 | + |  | No Significant Match |  |  |
| 231 | 211051 | 212280 | 410 | 153.5 | + | P49859 | Portal protein | Enterobacteria phage | 6E-11 |
| 232 | 212267 | 212830 | 188 | 90.3 | + |  | No Significant Match |  |  |
| 233 | 212870 | 214186 | 439 | 273.1 | + |  | No Significant Match |  |  |
| 234 | 214206 | 214379 | 58 | 39.7 | + |  | No Significant Match |  |  |
| 235 | 214388 | 214699 | 104 | 44.6 | + |  | No Significant Match |  |  |
| 236 | 214681 | 215004 | 108 | 42.9 | + |  | No Significant Match |  |  |
| 237 | 215001 | 215426 | 142 | 64.3 | + |  | No Significant Match |  |  |
| 238 | 215416 | 215829 | 138 | 50.9 | + |  | No Significant Match |  |  |
| 239 | 215836 | 216693 | 286 | 179.5 | + |  | No Significant Match |  |  |
| 240 | 216760 | 217299 | 180 | 122.2 | + |  | No Significant Match |  |  |
| 241 | 217500 | 223304 | 1935 | 757.8 | + | Q0PDK7 | Tail tape measure protein gp18 | Bacillus phage | 2E-31 |
| 242 | 223305 | 224795 | 497 | 196 | + |  | No Significant Match |  |  |
| 243 | 224797 | 228279 | 1161 | 544.5 | + |  | No Significant Match |  |  |
| 244 | 228290 | 228439 | 50 | 30.1 | + |  | No Significant Match |  |  |
| 245 | 228482 | 228814 | 111 | 47.2 | + |  | No Significant Match |  |  |
| 246 | 228833 | 229132 | 100 | 48.3 | + |  | No Significant Match |  |  |
| 247 | 229263 | 229697 | 145 | 77.4 | + |  | No Significant Match |  |  |
| 248 | 229678 | 231123 | 482 | 222 | + | P24556 | Autolysin | S. aureus | 0E+00 |
| 249 | 231496 | 232722 | 409 | 134.2 | + |  | No Significant Match |  |  |
| 250 | 233205 | 233699 | 165 | 117.7 | - | 744781073 | alkaline shock protein 23 | S. hyicus | 1E-102 |
| 251 | 233741 | 233983 | 81 | 21.3 | - | 744781072 | membrane protein | S. hyicus | 3E-39 |
| 252 | 234004 | 234549 | 182 | 67.7 | - | 744781071 | hypothetical protein SHYC\_05665 | S. hyicus | 7E-105 |
| 253 | 235421 | 235978 | 186 | 95 | + | 744781763 | acetyltransferase | S. hyicus | 5E-110 |
| 254 | 235990 | 236637 | 216 | 110 | + | 744781762 | ABC transporter ATP-binding protein | S. hyicus | 2E-145 |
| 255 | 236634 | 237410 | 259 | 130.7 | + | 744781761 | membrane protein | S. hyicus | 1E-165 |
| 256 | 237438 | 238376 | 313 | 119.5 | - | 744781760 | 1,4-dihydroxy-2-naphthoate octaprenyltransferase | S. hyicus | 0E+00 |
| 257 | 238551 | 239903 | 451 | 180 | + | 744781759 | isochorismate synthase | S. hyicus | 0E+00 |
| 258 | 239905 | 241578 | 558 | 270.5 | + | 744781758 | 2-succinyl-5-enolpyruvyl-6-hydroxy-3- cyclohexene-1-carboxylate synthase | S. hyicus | 0E+00 |
| 259 | 241565 | 242407 | 281 | 117.7 | + | 744781757 | 2-succinyl-6-hydroxy-2, 4-cyclohexadiene-1-carboxylate synthase | S. hyicus | 2E-166 |
| 260 | 242373 | 243191 | 273 | 176.5 | + | 744781756 | dihydroxynaphthoic acid synthetase | S. hyicus | 0E+00 |
| 261 | 243281 | 244447 | 389 | 167.7 | - | 744781755 | N-acetyl-L,L-diaminopimelate aminotransferase | S. hyicus | 0E+00 |
| 262 | 244519 | 245526 | 336 | 102.3 | - | 744781754 | acyltransferase | S. hyicus | 0E+00 |
| 263 | 245892 | 249593 | 1234 | 641.9 | - | 744781753 | autolysin | S. hyicus | 0E+00 |
| 264 | 249791 | 250219 | 143 | 67.2 | - | 744781752 | acetyltransferase | S. hyicus | 2E-87 |
| 265 | 250431 | 250901 | 157 | 68.8 | - | 744781751 | hypothetical protein SHYC\_09100 | S. hyicus | 6E-112 |
| 266 | 250919 | 252139 | 407 | 197.6 | - | 744781750 | LytR family transcriptional regulator | S. hyicus | 0E+00 |
| 267 | 252450 | 254078 | 543 | 249.1 | + | 744781749 | phosphoglucomutase | S. hyicus | 0E+00 |
| 268 | 254619 | 255884 | 422 | 224.6 | + | 744781748 | UDP-N-acetyl-D-mannosamine dehydrogenase | S. hyicus | 0E+00 |
| 269 | 255910 | 256722 | 271 | 68.5 | + | 744781747 | putative teichoic acid ABC transporter permease | S. hyicus | 5E-178 |
| 270 | 256743 | 257936 | 398 | 169.6 | + | 744781746 | glycoside hydrolase | S. hyicus | 0E+00 |
| 271 | 257937 | 258497 | 187 | 72.9 | + | 744781745 | hypothetical protein SHYC\_09070 | S. hyicus | 3E-104 |
| 272 | 258494 | 261049 | 852 | 360.6 | + | 744781744 | glycosyltransferase | S. hyicus | 0E+00 |
| 273 | 261049 | 262185 | 379 | 176.9 | + | 744781743 | glycosyltransferase | S. hyicus | 0E+00 |
| 274 | 262178 | 262537 | 120 | 60.9 | + | 744781742 | hypothetical protein SHYC\_09055 | S. hyicus | 1E-75 |
| 275 | 262553 | 263272 | 240 | 83.3 | + | 744781741 | hypothetical protein SHYC\_09050 | S. hyicus | 8E-148 |
| 276 | 263269 | 265272 | 668 | 283.9 | + | 744781740 | hypothetical protein SHYC\_09045 | S. hyicus | 0E+00 |
| 277 | 265291 | 266199 | 303 | 135.3 | + | 744781739 | teichoic acid ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 278 | 266423 | 267772 | 450 | 220.1 | + | 744781738 | glycoside hydrolase family protein | S. hyicus | 0E+00 |
| 279 | 267980 | 268270 | 97 | 28.2 | - | 744781737 | quinol oxidase subunit IV | S. hyicus | 4E-59 |
| 280 | 268267 | 268872 | 202 | 78.6 | - | 744781736 | quinol oxidase subunit III | S. hyicus | 1E-142 |
| 281 | 268862 | 270853 | 664 | 276 | - | 744781735 | quinol oxidase subunit I | S. hyicus | 0E+00 |
| 282 | 270853 | 271944 | 364 | 169.3 | - | 744781734 | quinol oxidase subunit II | S. hyicus | 0E+00 |
| 283 | 272421 | 272759 | 113 | 69.7 | - | 744781733 | hypothetical protein SHYC\_09010 | S. hyicus | 1E-70 |
| 284 | 272967 | 274112 | 382 | 251 | + | 744781732 | nitric oxide dioxygenase | S. hyicus | 0E+00 |
| 285 | 274266 | 275123 | 286 | 188.6 | - | 744781731 | bifunctional 5,10-methylene-tetrahydrofolate dehydrogenase/ 5,10-methylene-tetrahydrofolate cyclohydrolase | S. hyicus | 0E+00 |
| 286 | 275334 | 275816 | 161 | 67.1 | + | 744781730 | phosphoribosylaminoimidazole carboxylase | S. hyicus | 2E-113 |
| 287 | 275803 | 276930 | 376 | 211 | + | 744781729 | phosphoribosylaminoimidazole carboxylase ATPase subunit | S. hyicus | 0E+00 |
| 288 | 276927 | 277634 | 236 | 152.2 | + | 744781728 | phosphoribosylaminoimidazole-succinocarboxamide synthase | S. hyicus | 1E-165 |
| 289 | 277637 | 277906 | 90 | 67.2 | + | 744781727 | phosphoribosylformylglycinamidine synthase subunit PurS | S. hyicus | 2E-57 |
| 290 | 277906 | 278577 | 224 | 130.7 | + | 744781726 | phosphoribosylformylglycinamidine synthase | S. hyicus | 4E-166 |
| 291 | 278570 | 280759 | 730 | 470.7 | + | 744781725 | phosphoribosylformylglycinamidine synthase II | S. hyicus | 0E+00 |
| 292 | 280738 | 282159 | 474 | 233.4 | + | 744781724 | amidophosphoribosyltransferase | S. hyicus | 0E+00 |
| 293 | 282164 | 283192 | 343 | 225.3 | + | 744781723 | phosphoribosylaminoimidazole synthetase | S. hyicus | 0E+00 |
| 294 | 283195 | 283761 | 189 | 76.5 | + | 744781722 | phosphoribosylglycinamide formyltransferase | S. hyicus | 2E-134 |
| 295 | 283774 | 285252 | 493 | 316.3 | + | 744781721 | bifunctional purine biosynthesis protein PurH | S. hyicus | 0E+00 |
| 296 | 285267 | 286511 | 415 | 277 | + | 744781720 | phosphoribosylamine--glycine ligase | S. hyicus | 0E+00 |
| 297 | 286712 | 287503 | 264 | 66.6 | - | 744781719 | ABC transporter permease | S. hyicus | 0E+00 |
| 298 | 287500 | 288894 | 465 | 198.7 | - | 744781718 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 299 | 288907 | 289491 | 195 | 110.9 | - | 744781717 | ABC transporter permease | S. hyicus | 3E-135 |
| 300 | 289964 | 290095 | 44 | 39.2 | - | 744781716 | hypothetical protein SHYC\_08925 | S. hyicus | 1E-19 |
| 301 | 290420 | 291760 | 447 | 153.2 | + | 744781715 | membrane protein | S. hyicus | 0E+00 |
| 302 | 291947 | 293125 | 393 | 183.8 | + | 744781714 | ribosomal RNA large subunit methyltransferase I | S. hyicus | 0E+00 |
| 303 | 293174 | 293704 | 177 | 91.5 | + | 744781713 | hypothetical protein SHYC\_08910 | S. hyicus | 5E-122 |
| 304 | 293862 | 294128 | 89 | 65.2 | + | 744781712 | phosphocarrier protein HPr | S. hyicus | 3E-57 |
| 305 | 294128 | 295849 | 574 | 384.8 | + | 744781711 | phosphoenolpyruvate-protein phosphotransferase | S. hyicus | 0E+00 |
| 306 | 295904 | 296131 | 76 | 33 | - | 744781710 | glutaredoxin | S. hyicus | 3E-41 |
| 307 | 296369 | 297721 | 451 | 190.5 | + | 744781709 | cytochrome D ubiquinol oxidase subunit I | S. hyicus | 0E+00 |
| 308 | 297718 | 298737 | 340 | 145.2 | + | 744781708 | cytochrome D ubiquinol oxidase subunit II | S. hyicus | 0E+00 |
| 309 | 298912 | 299571 | 220 | 148.8 | + | 744781707 | potassium transporter TrkA | S. hyicus | 8E-155 |
| 310 | 299971 | 300528 | 186 | 95.8 | + | 744781706 | superantigen-like protein | S. hyicus | 3E-111 |
| 311 | 301006 | 302688 | 561 | 301.9 | - | 744781705 | ribonuclease J | S. hyicus | 0E+00 |
| 312 | 302688 | 302903 | 72 | 46.7 | - | 744781704 | hypothetical protein SHYC\_08865 | S. hyicus | 1E-42 |
| 313 | 303371 | 303640 | 90 | 40 | + | 744781703 | hypothetical protein SHYC\_08860 | S. hyicus | 1E-40 |
| 314 | 303692 | 304243 | 184 | 96.5 | - | 744781702 | peptide deformylase | S. hyicus | 1E-131 |
| 315 | 304367 | 304999 | 211 | 118.5 | + | 744781701 | YkyA family lipoprotein | S. hyicus | 2E-125 |
| 316 | 305158 | 306267 | 370 | 237 | + | 744781700 | pyruvate dehydrogenase E1 component subunit alpha | S. hyicus | 0E+00 |
| 317 | 306271 | 307248 | 326 | 236.3 | + | 744781699 | pyruvate dehydrogenase E1 component subunit beta | S. hyicus | 0E+00 |
| 318 | 307457 | 308752 | 432 | 295 | + | 744781698 | pyruvate dehydrogenase complex E2 component, dihydrolipoamide acetyltransferase | S. hyicus | 0E+00 |
| 319 | 308756 | 310162 | 469 | 364.6 | + | 744781697 | dihydrolipoamide dehydrogenase | S. hyicus | 0E+00 |
| 320 | 310244 | 310516 | 91 | 38.4 | + | 744781696 | hypothetical protein SHYC\_08825 | S. hyicus | 6E-50 |
| 321 | 310619 | 311158 | 180 | 103.4 | + | 744781695 | transcriptional regulator | S. hyicus | 4E-122 |
| 322 | 311170 | 312270 | 367 | 210.3 | + | 744781694 | spermidine/putrescine ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 323 | 312257 | 313063 | 269 | 103.8 | + | 744781693 | spermidine/putrescine ABC transporter permease | S. hyicus | 0E+00 |
| 324 | 313060 | 313872 | 271 | 114.2 | + | 744781692 | spermidine/purescine ABC transporter permease | S. hyicus | 0E+00 |
| 325 | 313869 | 314939 | 357 | 193.7 | + | 744781691 | spermidine/putrescine ABC transporter substrate-binding protein | S. hyicus | 0E+00 |
| 326 | 315003 | 316061 | 353 | 172.1 | + | 744781690 | hypothetical protein SHYC\_08795 | S. hyicus | 0E+00 |
| 327 | 316231 | 317046 | 272 | 138.3 | + | 744781689 | hypothetical protein SHYC\_08790 | S. hyicus | 4E-133 |
| 328 | 317100 | 317711 | 204 | 124.1 | - | 744781688 | hypothetical protein SHYC\_08785 | S. hyicus | 2E-137 |
| 329 | 317826 | 318638 | 271 | 122.3 | + | 744781687 | inositol monophosphatase | S. hyicus | 2E-180 |
| 330 | 318694 | 318879 | 62 | 9.8 | - | 744781686 | membrane protein | S. hyicus | 3E-33 |
| 331 | 318977 | 320824 | 616 | 412.7 | + | 744781685 | GTP-binding protein TypA | S. hyicus | 0E+00 |
| 332 | 321010 | 322134 | 375 | 218 | + | 744781684 | NADH-dependent flavin oxidoreductase | S. hyicus | 0E+00 |
| 333 | 322370 | 322573 | 68 | 13.6 | - | 744781683 | hypothetical protein SHYC\_08760 | S. hyicus | 4E-25 |
| 334 | 322574 | 323056 | 161 | 75.2 | - | 744781682 | hypothetical protein SHYC\_08755 | S. hyicus | 1E-106 |
| 335 | 323192 | 323467 | 92 | 49.8 | + | 744781681 | hypothetical protein SHYC\_08750 | S. hyicus | 5E-60 |
| 336 | 323544 | 324764 | 407 | 128.3 | + | 744781680 | cell division protein FtsW | S. hyicus | 0E+00 |
| 337 | 325031 | 328480 | 1150 | 701.9 | + | 744781679 | pyruvate carboxylase | S. hyicus | 0E+00 |
| 338 | 328708 | 329568 | 287 | 71.7 | - | 744781678 | heme A synthase | S. hyicus | 0E+00 |
| 339 | 329829 | 330740 | 304 | 114 | + | 744781677 | protoheme IX farnesyltransferase | S. hyicus | 0E+00 |
| 340 | 330765 | 331226 | 154 | 75.9 | + | 744781676 | membrane protein | S. hyicus | 6E-104 |
| 341 | 331350 | 332423 | 358 | 180 | + | 744781675 | hypothetical protein SHYC\_08720 | S. hyicus | 0E+00 |
| 342 | 332416 | 332853 | 146 | 70.4 | + | 744781674 | regulatory protein | S. hyicus | 5E-86 |
| 343 | 332962 | 333894 | 311 | 132 | - | 744781673 | glycerophosphodiester phosphodiesterase | S. hyicus | 8E-155 |
| 344 | 333981 | 334229 | 83 | 37.7 | + | 744781672 | hypothetical protein SHYC\_08705 | S. hyicus | 1E-49 |
| 345 | 334230 | 334619 | 130 | 50.4 | - | 744781671 | hypothetical protein SHYC\_08700 | S. hyicus | 3E-85 |
| 346 | 334679 | 335230 | 184 | 98.4 | + | 744781670 | ribosomal RNA small subunit methyltransferase D | S. hyicus | 8E-122 |
| 347 | 335223 | 335717 | 165 | 90.4 | + | 744781669 | phosphopantetheine adenylyltransferase | S. hyicus | 6E-110 |
| 348 | 335803 | 336939 | 379 | 94.6 | - | 744781668 | HIGH Nucleotidyl Transferase | S. hyicus | 0E+00 |
| 349 | 337066 | 337608 | 181 | 103.3 | + | 744781667 | hypothetical protein SHYC\_08680 | S. hyicus | 1E-129 |
| 350 | 337651 | 337824 | 58 | 20.6 | + | 744781666 | 50S ribosomal protein L32 | S. hyicus | 5E-35 |
| 351 | 337968 | 338714 | 249 | 144.2 | + | 744781665 | TrmH family RNA methyltransferase | S. hyicus | 3E-155 |
| 352 | 339013 | 340077 | 355 | 211.9 | + | 744781664 | phenylalanyl-tRNA synthase subunit alpha | S. hyicus | 0E+00 |
| 353 | 340071 | 342476 | 802 | 498 | + | 744781663 | phenylalanyl-tRNA synthase subunit beta | S. hyicus | 0E+00 |
| 354 | 342695 | 343621 | 309 | 148.8 | - | 744781662 | ribonuclease HIII | S. hyicus | 0E+00 |
| 355 | 343821 | 344087 | 89 | 44.8 | + | 744781661 | cell division protein ZapA | S. hyicus | 1E-56 |
| 356 | 344089 | 344610 | 174 | 40.5 | + | 744781660 | membrane protein | S. hyicus | 2E-99 |
| 357 | 344686 | 346395 | 570 | 320.4 | + | 744781659 | DNA polymerase/3'-5' exonuclease PolX | S. hyicus | 0E+00 |
| 358 | 346576 | 348924 | 783 | 418.6 | + | 744781658 | recombination and DNA strand exchange inhibitor protein | S. hyicus | 0E+00 |
| 359 | 349000 | 349314 | 105 | 74.9 | + | 744781657 | thioredoxin | S. hyicus | 1E-68 |
| 360 | 349577 | 351298 | 574 | 249.4 | + | 746621899 | excinuclease ABC subunit C | S. hyicus | 0E+00 |
| 361 | 351461 | 352072 | 204 | 59.8 | + | 744781655 | succinate dehydrogenase cytochrome b558 subunit | S. hyicus | 5E-144 |
| 362 | 352197 | 353963 | 589 | 354.3 | + | 744781654 | succinate dehydrogenase flavoprotein subunit | S. hyicus | 0E+00 |
| 363 | 353963 | 354784 | 274 | 129.3 | + | 744781653 | succinate dehydrogenase iron-sulfur subunit | S. hyicus | 0E+00 |
| 364 | 354979 | 355779 | 267 | 138.8 | + | 744781652 | glutamate racemase | S. hyicus | 0E+00 |
| 365 | 355793 | 356380 | 196 | 127.1 | + | 744781651 | non-canonical purine NTP pyrophosphatase | S. hyicus | 6E-126 |
| 366 | 356377 | 356877 | 167 | 90.8 | + | 746620454 | phosphoesterase | S. hyicus | 8E-104 |
| 367 | 356987 | 357301 | 105 | 55.2 | - | 746620452 | hypothetical protein | S. hyicus | 5E-64 |
| 368 | 357437 | 358297 | 287 | 107.5 | + | 744781648 | M23 family peptidase | S. hyicus | 0E+00 |
| 369 | 358699 | 359937 | 413 | 143 | - | 744781647 | FemAB family protein | S. hyicus | 0E+00 |
| 370 | 360241 | 360606 | 122 | 62.8 | - | 744781646 | staphylococcal complement inhibitor | S. hyicus | 2E-55 |
| 371 | 361177 | 362337 | 387 | 117.7 | + | P94577 | Uncharacterized MFS-type transporter YwoG | Bacillus subtilis | 4E-37 |
| 372 | 364601 | 364708 | 36 | 12.5 | - | 744781645 | hypothetical protein SHYC\_08565 | S. hyicus | 1E-09 |
| 373 | 364748 | 365188 | 147 | 54.9 | - |  | No Significant Match |  |  |
| 374 | 365698 | 367002 | 435 | 169.7 | - | 744781644 | potassium transporter KtrB | S. hyicus | 0E+00 |
| 375 | 367805 | 367939 | 45 | 31.8 | + | 744781643 | putative hemolysin | S. hyicus | 2E-21 |
| 376 | 368037 | 368486 | 150 | 80.5 | - | 744781642 | putative N-acetyltransferase | S. hyicus | 2E-103 |
| 377 | 368905 | 370518 | 538 | 228.7 | + | 744781641 | BshC family protein | S. hyicus | 0E+00 |
| 378 | 370664 | 371095 | 144 | 69.6 | + | 744781640 | protein MraZ | S. hyicus | 6E-98 |
| 379 | 371130 | 372065 | 312 | 128.6 | + | 744781639 | ribosomal RNA small subunit methyltransferase H | S. hyicus | 0E+00 |
| 380 | 372083 | 372496 | 138 | 37.9 | + | 744781638 | cell division protein FtsL | S. hyicus | 9E-89 |
| 381 | 372477 | 374618 | 714 | 368.6 | + | 744781637 | penicillin-binding protein | S. hyicus | 0E+00 |
| 382 | 374781 | 375746 | 322 | 143.9 | + | 744781636 | phospho-N-acetylmuramoyl-pentapeptide- transferase | S. hyicus | 0E+00 |
| 383 | 375747 | 377096 | 450 | 214 | + | 744781635 | UDP-N-acetylmuramoyl-L-alanyl-D-glutamate synthetase | S. hyicus | 0E+00 |
| 384 | 377111 | 377998 | 296 | 160.4 | + | 744781634 | cell division protein FtsQ | S. hyicus | 0E+00 |
| 385 | 378106 | 379545 | 480 | 294.7 | + | 744781633 | cell division protein FtsA | S. hyicus | 0E+00 |
| 386 | 379575 | 380744 | 390 | 283.3 | + | 744781632 | cell division protein FtsZ | S. hyicus | 0E+00 |
| 387 | 380924 | 381715 | 264 | 124.3 | + | 744781631 | laccase | S. hyicus | 5E-169 |
| 388 | 381742 | 382416 | 225 | 115.1 | + | 744781630 | YggS family pyridoxal phosphate enzyme | S. hyicus | 4E-151 |
| 389 | 382422 | 383033 | 204 | 111.5 | + | 744781629 | cell division protein SepF | S. hyicus | 4E-122 |
| 390 | 383045 | 383335 | 97 | 37.1 | + | 744781628 | YggT family cell division protein | S. hyicus | 3E-55 |
| 391 | 383476 | 384246 | 257 | 131.3 | + | 744781627 | RNA-binding S4 domain protein | S. hyicus | 1E-172 |
| 392 | 384270 | 384887 | 206 | 143.7 | + | 744781626 | septum site-determining protein DivIVA | S. hyicus | 2E-128 |
| 393 | 385077 | 387824 | 916 | 565.5 | + | 744781625 | isoleucyl-tRNA synthetase | S. hyicus | 0E+00 |
| 394 | 388272 | 388478 | 69 | 26.3 | + | 744781624 | hypothetical protein SHYC\_08455 | S. hyicus | 5E-36 |
| 395 | 388600 | 389079 | 160 | 64.5 | + | 744781623 | lipoprotein signal peptidase | S. hyicus | 3E-105 |
| 396 | 389089 | 390009 | 307 | 166.7 | + | 744781622 | ribosomal large subunit pseudouridine synthase D | S. hyicus | 0E+00 |
| 397 | 390299 | 390823 | 175 | 85.3 | + | 744781621 | pyrimidine regulatory protein PyrR/uracil phosphoribosyltransferase | S. hyicus | 2E-117 |
| 398 | 390986 | 392278 | 431 | 214.9 | + | 744781620 | uracil permease | S. hyicus | 0E+00 |
| 399 | 392299 | 393177 | 293 | 135.7 | + | 744781619 | aspartate carbamoyltransferase | S. hyicus | 0E+00 |
| 400 | 393191 | 394465 | 425 | 275.3 | + | 744781618 | dihydroorotase | S. hyicus | 0E+00 |
| 401 | 394465 | 395559 | 365 | 203.7 | + | 744781617 | carbamoyl phosphate synthase small subunit | S. hyicus | 0E+00 |
| 402 | 395559 | 398732 | 1058 | 597.1 | + | 744781616 | carbamoyl phosphate synthase large subunit | S. hyicus | 0E+00 |
| 403 | 398744 | 399508 | 255 | 112.9 | + | 744781615 | dihydroorotate dehydrogenase electron transfer subunit | S. hyicus | 3E-171 |
| 404 | 399505 | 400422 | 306 | 196.2 | + | 744781614 | dihydroorotate dehydrogenase catalytic subunit | S. hyicus | 0E+00 |
| 405 | 400427 | 401119 | 231 | 128.1 | + | 744781613 | orotidine 5'-phosphate decarboxylase | S. hyicus | 8E-143 |
| 406 | 401119 | 401727 | 203 | 113.8 | + | 744781612 | orotate phosphoribosyltransferase | S. hyicus | 1E-129 |
| 407 | 402008 | 402097 | 30 | 3.7 | - |  | No Significant Match |  |  |
| 408 | 402275 | 402688 | 138 | 78.1 | + | 744781611 | 3-demethylubiquinone-9 3-methyltransferase | S. hyicus | 2E-94 |
| 409 | 403042 | 404754 | 571 | 281 | - | 744781610 | fibronectin-binding protein | S. hyicus | 0E+00 |
| 410 | 404915 | 405538 | 208 | 116.4 | + | 744781609 | guanylate kinase | S. hyicus | 5E-148 |
| 411 | 405538 | 405747 | 70 | 51.9 | + | 744781608 | DNA-directed RNA polymerase subunit omega | S. hyicus | 6E-44 |
| 412 | 406030 | 407247 | 406 | 227.3 | + | 744781607 | phosphopantothenoylcysteine decarboxylase/phosphopantothenate--cysteine ligase | S. hyicus | 0E+00 |
| 413 | 407244 | 409655 | 804 | 367.2 | + | 746620364 | primosomal protein N' | S. hyicus | 0E+00 |
| 414 | 409853 | 410341 | 163 | 104.1 | + | 744781604 | peptide deformylase | S. hyicus | 4E-105 |
| 415 | 410334 | 411266 | 311 | 191.8 | + | 744781603 | methionyl-tRNA formyltransferase | S. hyicus | 0E+00 |
| 416 | 411267 | 412574 | 436 | 175.5 | + | 744781602 | ribosomal RNA small subunit methyltransferase B | S. hyicus | 0E+00 |
| 417 | 412574 | 413668 | 365 | 183.7 | + | 744781601 | ribosomal RNA large subunit methyltransferase N | S. hyicus | 0E+00 |
| 418 | 413674 | 414417 | 248 | 144.5 | + | 744781600 | protein phosphatase | S. hyicus | 2E-171 |
| 419 | 414414 | 416390 | 659 | 352.6 | + | 744781599 | serine/threonine-protein kinase PrkC | S. hyicus | 0E+00 |
| 420 | 416692 | 417969 | 426 | 239.6 | + | 744781598 | cytochrome P450 | S. hyicus | 0E+00 |
| 421 | 418264 | 419139 | 292 | 104.5 | + | 744781597 | ribosome small subunit-dependent GTPase A | S. hyicus | 0E+00 |
| 422 | 419139 | 419789 | 217 | 117.3 | + | 744781596 | ribulose-phosphate 3-epimerase | S. hyicus | 3E-142 |
| 423 | 419793 | 420428 | 212 | 111.5 | + | 744781595 | thiamine pyrophosphokinase | S. hyicus | 7E-122 |
| 424 | 420509 | 420697 | 63 | 25.9 | - | 744781594 | 50S ribosomal protein L28 | S. hyicus | 1E-37 |
| 425 | 421138 | 421512 | 125 | 68.7 | + | 744781593 | alkaline shock protein | S. hyicus | 2E-82 |
| 426 | 421525 | 423183 | 553 | 353.4 | + | 744781592 | fatty acid kinase subunit FakA | S. hyicus | 0E+00 |
| 427 | 423342 | 424010 | 223 | 139.5 | + | 744781591 | serine dehydratase subunit beta | S. hyicus | 8E-157 |
| 428 | 424028 | 424897 | 290 | 197.9 | + | 744781590 | serine dehydratase | S. hyicus | 0E+00 |
| 429 | 424845 | 426944 | 700 | 290.4 | + | 744781589 | ATP-dependent DNA helicase RecG | S. hyicus | 0E+00 |
| 430 | 427203 | 427763 | 187 | 85.8 | + | 744781588 | fatty acid biosynthesis transcriptional regulator FapR | S. hyicus | 3E-130 |
| 431 | 427765 | 428751 | 329 | 222 | + | 744781587 | phosphate acyltransferase | S. hyicus | 0E+00 |
| 432 | 428744 | 429670 | 309 | 194.1 | + | 744781586 | malonyl CoA-ACP transacylase | S. hyicus | 0E+00 |
| 433 | 429663 | 430400 | 246 | 160 | + | 744781585 | 3-ketoacyl-ACP reductase | S. hyicus | 2E-175 |
| 434 | 430717 | 430950 | 78 | 54.5 | + | 744781584 | acyl carrier protein | S. hyicus | 2E-45 |
| 435 | 431062 | 431793 | 244 | 140.8 | + | 744781583 | ribonuclease III | S. hyicus | 5E-174 |
| 436 | 431797 | 435363 | 1189 | 749.3 | + | 744781582 | chromosome segregation protein SMC | S. hyicus | 0E+00 |
| 437 | 435364 | 436695 | 444 | 304 | + | 744781581 | signal recognition particle-docking protein FtsY | S. hyicus | 0E+00 |
| 438 | 436682 | 437014 | 111 | 46.4 | + | 744781580 | DNA-binding protein | S. hyicus | 9E-68 |
| 439 | 437028 | 438395 | 456 | 293.4 | + | 744781579 | signal recognition particle protein | S. hyicus | 0E+00 |
| 440 | 438621 | 438896 | 92 | 64.7 | + | 744781578 | 30S ribosomal protein S16 | S. hyicus | 1E-60 |
| 441 | 439001 | 439504 | 168 | 107 | + | 744781577 | 16S rRNA processing protein RimM | S. hyicus | 5E-112 |
| 442 | 439501 | 440235 | 245 | 128.5 | + | 744781576 | tRNA (guanine-N1)-methyltransferase | S. hyicus | 8E-171 |
| 443 | 440340 | 440690 | 117 | 76.3 | + | 744781575 | 50S ribosomal protein L19 | S. hyicus | 2E-75 |
| 444 | 441033 | 441656 | 208 | 33.4 | + | 744781574 | PAP2 family protein | S. hyicus | 1E-105 |
| 445 | 441797 | 442186 | 130 | 10.9 | + |  | No Significant Match |  |  |
| 446 | 442176 | 443417 | 414 | 189.7 | + | Q53654 | Collagen adhesin | S. aureus | 1E-12 |
| 447 | 443527 | 446121 | 865 | 264.4 | - | 744781573 | YfhO family membrane protein | S. hyicus | 0E+00 |
| 448 | 446118 | 448721 | 868 | 280.4 | - | 744781572 | YfhO family membrane protein | S. hyicus | 0E+00 |
| 449 | 448740 | 449120 | 127 | 23.2 | - | 744781571 | hypothetical protein SHYC\_08190 | S. hyicus | 2E-79 |
| 450 | 449328 | 450212 | 295 | 157.1 | + | 744781570 | GTPase | S. hyicus | 0E+00 |
| 451 | 450202 | 450978 | 259 | 108 | + | 744781569 | ribonuclease HII | S. hyicus | 8E-149 |
| 452 | 451065 | 451334 | 90 | 50.5 | + | 744781568 | hypothetical protein SHYC\_08175 | S. hyicus | 3E-52 |
| 453 | 451547 | 452713 | 389 | 276.1 | + | 744781567 | succinyl-CoA synthetase subunit beta | S. hyicus | 0E+00 |
| 454 | 452735 | 453643 | 303 | 219.9 | + | 744781566 | succinyl-CoA synthetase subsunit alpha | S. hyicus | 0E+00 |
| 455 | 453856 | 454737 | 294 | 101.7 | + | 744781565 | putative DNA processing factor DprA(SMF) | S. hyicus | 3E-156 |
| 456 | 454832 | 456901 | 690 | 361 | + | 744781564 | DNA topoisomerase I | S. hyicus | 0E+00 |
| 457 | 456914 | 458218 | 435 | 260.4 | + | 744781563 | tRNA (uracil-5-)-methyltransferase | S. hyicus | 0E+00 |
| 458 | 458339 | 459229 | 297 | 104.7 | + | 744781562 | tyrosine recombinase XerC | S. hyicus | 0E+00 |
| 459 | 459233 | 459775 | 181 | 109.6 | + | 744781561 | ATP-dependent protease subunit HslV | S. hyicus | 1E-128 |
| 460 | 459792 | 461201 | 470 | 293.2 | + | 744781560 | ATP-dependent protease ATPase subunit HslU | S. hyicus | 0E+00 |
| 461 | 461216 | 461989 | 258 | 162.9 | + | 744781559 | GTP-sensing transcriptional pleiotropic repressor CodY | S. hyicus | 0E+00 |
| 462 | 462151 | 462927 | 259 | 181.2 | + | 744781558 | 30S ribosomal protein S2 | S. hyicus | 0E+00 |
| 463 | 463101 | 463979 | 293 | 222.6 | + | 744781557 | translation elongation factor Ts | S. hyicus | 0E+00 |
| 464 | 464133 | 464855 | 241 | 157.9 | + | 744781556 | uridylate kinase | S. hyicus | 4E-175 |
| 465 | 464874 | 465428 | 185 | 136.8 | + | 744781555 | ribosome recycling factor | S. hyicus | 3E-126 |
| 466 | 465578 | 466339 | 254 | 135.6 | + | 744781554 | undecaprenyl diphosphate synthase | S. hyicus | 4E-177 |
| 467 | 466353 | 467132 | 260 | 118 | + | 744781553 | phosphatidate cytidylyltransferase | S. hyicus | 3E-180 |
| 468 | 467148 | 468278 | 377 | 205.9 | + | 744781552 | 1-deoxy-D-xylulose 5-phosphate reductoisomerase | S. hyicus | 0E+00 |
| 469 | 468285 | 469565 | 427 | 217.9 | + | 744781551 | membrane-associated zinc metalloprotease | S. hyicus | 0E+00 |
| 470 | 469594 | 471300 | 569 | 342.8 | + | 744781550 | prolyl-tRNA synthetase | S. hyicus | 0E+00 |
| 471 | 471499 | 475809 | 1437 | 785.4 | + | 744781549 | DNA polymerase III PolC type | S. hyicus | 0E+00 |
| 472 | 475937 | 476404 | 156 | 101.7 | + | 744781548 | ribosome maturation protein RimP | S. hyicus | 6E-105 |
| 473 | 476424 | 477602 | 393 | 280 | + | 744781547 | transcription termination factor NusA | S. hyicus | 0E+00 |
| 474 | 477614 | 477901 | 96 | 62.1 | + | 744781546 | YlxR family nucleic-acid-binding protein | S. hyicus | 9E-61 |
| 475 | 477898 | 478200 | 101 | 37 | + | 744781545 | 50S ribosomal protein L7Ae | S. hyicus | 6E-61 |
| 476 | 478217 | 480349 | 711 | 496.7 | + | 744781544 | translation initiation factor IF-2 | S. hyicus | 0E+00 |
| 477 | 480547 | 480930 | 128 | 61.9 | + | 744781543 | glyoxalase/bleomycin resistance family protein | S. hyicus | 6E-72 |
| 478 | 481028 | 481372 | 115 | 72.5 | + | 744781542 | ribosome-binding factor A | S. hyicus | 2E-77 |
| 479 | 481446 | 482363 | 306 | 124.3 | + | 744781541 | tRNA pseudouridine synthase B | S. hyicus | 9E-169 |
| 480 | 482378 | 483349 | 324 | 184.9 | + | 744781540 | riboflavin biosynthesis protein RibF | S. hyicus | 0E+00 |
| 481 | 483453 | 483722 | 90 | 70.3 | + | 744781539 | 30S ribosomal protein S15 | S. hyicus | 7E-56 |
| 482 | 483891 | 485993 | 701 | 496.4 | + | 744781538 | polyribonucleotide phosphorylase | S. hyicus | 0E+00 |
| 483 | 486363 | 487679 | 439 | 227.5 | + | Q08002 | Neutral metalloprotease | S. hyicus | 0E+00 |
| 484 | 488114 | 489787 | 558 | 325.5 | + | 744781536 | mRNA degradation ribonuclease | S. hyicus | 0E+00 |
| 485 | 489987 | 492335 | 783 | 416.2 | + | 744781535 | cell division protein FtsK | S. hyicus | 0E+00 |
| 486 | 492338 | 493054 | 239 | 138.1 | + | 744781534 | transcriptional regulator | S. hyicus | 4E-173 |
| 487 | 493085 | 494371 | 429 | 203.2 | + | 744781533 | zinc protease | S. hyicus | 0E+00 |
| 488 | 494352 | 495635 | 428 | 203.9 | + | 744781532 | zinc protease | S. hyicus | 0E+00 |
| 489 | 495638 | 496342 | 235 | 109.4 | + | 744781531 | 3-oxoacyl-ACP reductase | S. hyicus | 6E-150 |
| 490 | 496394 | 497266 | 291 | 157.4 | + | 744781530 | hypothetical protein SHYC\_07980 | S. hyicus | 0E+00 |
| 491 | 497279 | 497674 | 132 | 46.7 | + | 744781529 | transcriptional regulator | S. hyicus | 2E-73 |
| 492 | 497718 | 498302 | 195 | 104.1 | + | 744781528 | CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase | S. hyicus | 1E-127 |
| 493 | 498402 | 499547 | 382 | 218.6 | + | 744781527 | damage-inducible protein CinA | S. hyicus | 0E+00 |
| 494 | 499715 | 500758 | 348 | 240 | + | 744781526 | recombinase RecA | S. hyicus | 0E+00 |
| 495 | 501195 | 502754 | 520 | 332.1 | + | 744781525 | ribonuclease Y | S. hyicus | 0E+00 |
| 496 | 502997 | 503215 | 73 | 32.1 | - | 744781524 | hypothetical protein SHYC\_07950 | S. hyicus | 7E-45 |
| 497 | 503404 | 503787 | 128 | 48.8 | + | 744781523 | cadmium efflux system accessory protein | S. hyicus | 2E-86 |
| 498 | 503768 | 505918 | 717 | 336 | + | 744781522 | putative cadmium transporter | S. hyicus | 0E+00 |
| 499 | 506052 | 506843 | 264 | 150.6 | + | 744781521 | phosphoesterase | S. hyicus | 0E+00 |
| 500 | 506956 | 508716 | 587 | 371.3 | + | 744781520 | 2-oxoglutarate ferredoxin oxidoreductase subunit alpha | S. hyicus | 0E+00 |
| 501 | 508717 | 509583 | 289 | 153.3 | + | 744781519 | 2-oxoacid ferredoxin oxidoreductase subunit beta | S. hyicus | 0E+00 |
| 502 | 509654 | 509950 | 99 | 56.9 | + | 744781518 | hypothetical protein SHYC\_07920 | S. hyicus | 1E-56 |
| 503 | 510060 | 511601 | 514 | 306.4 | + | 744781517 | (dimethylallyl)adenosine tRNA methylthiotransferase | S. hyicus | 0E+00 |
| 504 | 511601 | 511981 | 127 | 48.8 | + | 744781516 | membrane protein | S. hyicus | 3E-60 |
| 505 | 511986 | 512495 | 170 | 62.4 | + | 744781515 | thiamine biosynthesis protein ThiW | S. hyicus | 5E-103 |
| 506 | 512730 | 515342 | 871 | 448.6 | + | 744781514 | DNA mismatch repair protein MutS | S. hyicus | 0E+00 |
| 507 | 515355 | 517304 | 650 | 329 | + | 744781513 | DNA mismatch repair protein MutL | S. hyicus | 0E+00 |
| 508 | 517315 | 517848 | 178 | 74.8 | + | 744781512 | glycerol uptake operon antiterminator regulatory protein GlpP | S. hyicus | 3E-114 |
| 509 | 517873 | 518904 | 344 | 159.7 | + | 744781511 | LD-carboxypeptidase family protein | S. hyicus | 0E+00 |
| 510 | 519111 | 519926 | 272 | 164.1 | + | 744781510 | glycerol uptake facilitator protein | S. hyicus | 0E+00 |
| 511 | 519995 | 521497 | 501 | 313 | + | Q6GHD5 | Glycerol kinase | S. aureus | 0E+00 |
| 512 | 521621 | 523294 | 558 | 372.7 | + | 744781509 | glycerol-3-phosphate dehydrogenase | S. hyicus | 0E+00 |
| 513 | 523579 | 524511 | 311 | 145.2 | + | 744781508 | putative lysophospholipase | S. hyicus | 0E+00 |
| 514 | 524517 | 525473 | 319 | 138.3 | + | 744781507 | tRNA delta(2)-isopentenylpyrophosphate transferase | S. hyicus | 0E+00 |
| 515 | 525466 | 525672 | 69 | 46.9 | + | 744781506 | RNA-binding protein Hfq | S. hyicus | 3E-43 |
| 516 | 525810 | 526283 | 158 | 59.7 | - | 744781505 | glutathione peroxidase | S. hyicus | 7E-103 |
| 517 | 526419 | 527648 | 410 | 187.2 | + | 744781504 | GTP-binding protein HflX | S. hyicus | 0E+00 |
| 518 | 527666 | 528904 | 413 | 192.4 | + | 744781503 | putative C-S lyase | S. hyicus | 0E+00 |
| 519 | 529019 | 529384 | 122 | 57.5 | + | 744781502 | HTH-type transcriptional regulator GlnR | S. hyicus | 1E-72 |
| 520 | 529406 | 530746 | 447 | 267 | + | 744781501 | glutamine synthetase type I | S. hyicus | 0E+00 |
| 521 | 530860 | 531084 | 75 | 8.5 | - |  | No Significant Match |  |  |
| 522 | 531250 | 531525 | 92 | 24.8 | + |  | No Significant Match |  |  |
| 523 | 531720 | 532175 | 152 | 65.2 | - | 744781497 | lipoprotein | S. hyicus | 1E-60 |
| 524 | 532446 | 533063 | 206 | 80.4 | + | 744781496 | ABC transporter ATP-binding protein | S. hyicus | 3E-57 |
| 525 | 533089 | 533829 | 247 | 67.8 | + | 744781495 | ABC transporter permease | S. hyicus | 1E-55 |
| 526 | 533958 | 534920 | 321 | 93.5 | + | 744781494 | two-component sensor histidine kinase | S. hyicus | 2E-104 |
| 527 | 534917 | 535519 | 201 | 110.7 | + | 744781493 | LuxR family transcriptional regulator | S. hyicus | 1E-109 |
| 528 | 535568 | 535774 | 69 | 28.5 | - | 744781492 | membrane protein | S. hyicus | 2E-23 |
| 529 | 535918 | 536427 | 170 | 95.2 | + | 226490494 | thermonuclease | S. hyicus | 2E-120 |
| 530 | 536462 | 537301 | 280 | 83.4 | - | 744781490 | hypothetical protein SHYC\_07775 | S. hyicus | 3E-132 |
| 531 | 537482 | 537847 | 122 | 57.7 | - | 744781489 | staphylococcal accessory regulator family protein | S. hyicus | 6E-78 |
| 532 | 538412 | 539002 | 197 | 65.6 | + | 744781488 | hypothetical protein SHYC\_07765 | S. hyicus | 1E-134 |
| 533 | 539106 | 540455 | 450 | 193.2 | - | 744781487 | aspartate kinase | S. hyicus | 0E+00 |
| 534 | 540645 | 541928 | 428 | 272.3 | + | 744781486 | homoserine dehydrogenase | S. hyicus | 0E+00 |
| 535 | 541928 | 542998 | 357 | 225.8 | + | 744781485 | threonine synthase | S. hyicus | 0E+00 |
| 536 | 542995 | 543915 | 307 | 160.4 | + | 744781484 | homoserine kinase | S. hyicus | 0E+00 |
| 537 | 544119 | 544934 | 272 | 162.5 | + | 744781483 | HAD family hydrolase | S. hyicus | 9E-180 |
| 538 | 545215 | 545529 | 105 | 52.7 | - | 744781482 | hypothetical protein SHYC\_07735 | S. hyicus | 1E-69 |
| 539 | 545666 | 547126 | 487 | 215.7 | - | 744781481 | amino acid permease | S. hyicus | 0E+00 |
| 540 | 547329 | 548825 | 499 | 305.6 | + | 744781480 | catalase | S. hyicus | 0E+00 |
| 541 | 549181 | 549330 | 50 | 17.9 | - | 744781479 | 50S ribosomal protein L33 | S. hyicus | 8E-29 |
| 542 | 549516 | 549785 | 90 | 60.6 | + | 744781478 | 30S ribosomal protein S14 | S. hyicus | 9E-58 |
| 543 | 549860 | 550837 | 326 | 190.8 | + | 744781477 | guanosine 5'-monophosphate oxidoreductase | S. hyicus | 0E+00 |
| 544 | 550942 | 551865 | 308 | 126.1 | + | 744781476 | secretion protein | S. hyicus | 0E+00 |
| 545 | 551918 | 552022 | 35 | 12.4 | + |  | No Significant Match |  |  |
| 546 | 552586 | 553233 | 216 | 31.9 | + |  | No Significant Match |  |  |
| 547 | 553305 | 553940 | 212 | 40.9 | + |  | No Significant Match |  |  |
| 548 | 554064 | 554711 | 216 | 42.1 | + |  | No Significant Match |  |  |
| 549 | 554775 | 555086 | 104 | 71.3 | + |  | No Significant Match |  |  |
| 550 | 555160 | 555783 | 208 | 122.2 | - | 744781475 | LexA repressor | S. hyicus | 2E-148 |
| 551 | 555927 | 556151 | 75 | 34.6 | + | 744781474 | hypothetical protein SHYC\_07685 | S. hyicus | 3E-43 |
| 552 | 556366 | 556602 | 79 | 49 | + | 744781473 | hypothetical protein SHYC\_07680 | S. hyicus | 3E-47 |
| 553 | 556691 | 558679 | 663 | 427.6 | + | 744781472 | transketolase | S. hyicus | 0E+00 |
| 554 | 558866 | 559105 | 80 | 29.2 | + | 744781471 | hypothetical protein SHYC\_07670 | S. hyicus | 2E-49 |
| 555 | 559268 | 559741 | 158 | 68.8 | + | 744781470 | cytochrome C biogenesis protein CcdC | S. hyicus | 2E-103 |
| 556 | 559872 | 560990 | 373 | 147.9 | + | 744781469 | exonuclease SbcCD subunit D | S. hyicus | 0E+00 |
| 557 | 560993 | 564025 | 1011 | 521.5 | + | 744781468 | exonuclease SbcCD subunit C | S. hyicus | 0E+00 |
| 558 | 564100 | 564465 | 122 | 70.9 | - | 744781467 | mechanosensitive ion channel protein MscL | S. hyicus | 5E-56 |
| 559 | 564701 | 566335 | 545 | 257.8 | + | 744781466 | glycine betaine transporter | S. hyicus | 0E+00 |
| 560 | 566679 | 569378 | 900 | 593.1 | + | 744781465 | aconitate hydratase | S. hyicus | 0E+00 |
| 561 | 569520 | 569975 | 152 | 85.5 | + | 744781464 | thioesterase family protein | S. hyicus | 2E-99 |
| 562 | 570308 | 570607 | 100 | 70.7 | - | 744781463 | hypothetical protein SHYC\_07630 | S. hyicus | 1E-61 |
| 563 | 570687 | 571274 | 196 | 65.5 | - | 744781462 | glycerol-3-phosphate acyltransferase | S. hyicus | 6E-127 |
| 564 | 571481 | 573475 | 665 | 387.5 | + | 744781461 | DNA topoisomerase IV subunit B | S. hyicus | 0E+00 |
| 565 | 573475 | 575886 | 804 | 455.7 | + | 744781460 | DNA gyrase subunit A | S. hyicus | 0E+00 |
| 566 | 575992 | 577461 | 490 | 249.7 | + | 744781459 | sodium:alanine symporter | S. hyicus | 0E+00 |
| 567 | 577637 | 578488 | 284 | 132.2 | + | 744781458 | ptsG operon antiterminator GlcT | S. hyicus | 0E+00 |
| 568 | 578597 | 580627 | 677 | 398.3 | + | 744781457 | PTS system glucose-specific transporter subunit IICBA | S. hyicus | 0E+00 |
| 569 | 581115 | 582341 | 409 | 190.9 | + | 744781456 | membrane protein | S. hyicus | 0E+00 |
| 570 | 582491 | 585010 | 840 | 338 | + | 744781455 | phosphatidylglycerol lysyltransferase | S. hyicus | 0E+00 |
| 571 | 585052 | 585564 | 171 | 69.2 | - | 744781454 | peptide methionine sulfoxide reductase MsrA | S. hyicus | 5E-120 |
| 572 | 585708 | 586679 | 324 | 186.5 | + | 744781453 | regulatory protein MsrR | S. hyicus | 0E+00 |
| 573 | 586839 | 587024 | 62 | 48.2 | - | 744781452 | 4-oxalocrotonate tautomerase | S. hyicus | 1E-34 |
| 574 | 587173 | 587583 | 137 | 84.2 | + | 744781451 | hypothetical protein SHYC\_07570 | S. hyicus | 1E-87 |
| 575 | 587780 | 589000 | 407 | 163.4 | + | 744781449 | DNA repair protein | S. hyicus | 0E+00 |
| 576 | 589131 | 590225 | 365 | 188 | - | 744781448 | prephenate dehydrogenase | S. hyicus | 0E+00 |
| 577 | 590344 | 591402 | 353 | 162.7 | + | 744781447 | deblocking aminopeptidase, M42 family | S. hyicus | 0E+00 |
| 578 | 591760 | 593019 | 420 | 225.1 | + | 744781446 | aminoacyltransferase FemA | S. hyicus | 0E+00 |
| 579 | 593044 | 594303 | 420 | 229.7 | + | 744781445 | aminoacyltransferase FemB | S. hyicus | 0E+00 |
| 580 | 594666 | 594989 | 108 | 33.9 | - | 744781444 | membrane protein | S. hyicus | 3E-57 |
| 581 | 595120 | 596922 | 601 | 313.1 | + | 744781443 | oligoendopeptidase F | S. hyicus | 0E+00 |
| 582 | 597064 | 598008 | 315 | 158.3 | + | 744781442 | tagatose-6-phosphate kinase | S. hyicus | 0E+00 |
| 583 | 598104 | 599012 | 303 | 171.3 | - | 744781441 | RNA-binding protein | S. hyicus | 0E+00 |
| 584 | 599169 | 600776 | 536 | 330.7 | + | 744781440 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 585 | 601219 | 602202 | 328 | 175.4 | + | 744781439 | aspartate-semialdehyde dehydrogenase | S. hyicus | 0E+00 |
| 586 | 602226 | 603104 | 293 | 176.2 | + | 744781438 | dihydrodipicolinate synthase | S. hyicus | 0E+00 |
| 587 | 603101 | 603823 | 241 | 111.1 | + | 744781437 | dihydrodipicolinate reductase | S. hyicus | 1E-150 |
| 588 | 603840 | 604559 | 240 | 164.2 | + | 744781436 | 2,3,4,5-tetrahydropyridine-2,6-carboxylate N-succinyltransferase | S. hyicus | 8E-161 |
| 589 | 604698 | 605846 | 383 | 185.8 | + | 744781435 | amidohydrolase family protein | S. hyicus | 0E+00 |
| 590 | 605849 | 606922 | 358 | 147.3 | + | 744781434 | alanine racemase 2 | S. hyicus | 0E+00 |
| 591 | 606919 | 608184 | 422 | 207 | + | 744781433 | diaminopimelate decarboxylase | S. hyicus | 0E+00 |
| 592 | 608425 | 608625 | 67 | 43.3 | - | Q49XK3 | Cold shock protein CspA | S. saprophyticus | 3E-40 |
| 593 | 608804 | 609112 | 103 | 24.8 | - | 744781430 | hypothetical protein SHYC\_07465 | S. hyicus | 9E-68 |
| 594 | 609503 | 609772 | 90 | 53.4 | + | 744781429 | acylphosphatase | S. hyicus | 1E-48 |
| 595 | 609795 | 610430 | 212 | 81.8 | + | 744781428 | 5-bromo-4-chloroindolyl phosphate hydrolase | S. hyicus | 3E-144 |
| 596 | 610427 | 611620 | 398 | 251.2 | + | 744781427 | tellurite resistance protein TelA | S. hyicus | 0E+00 |
| 597 | 611678 | 613024 | 449 | 214.2 | - | 744781426 | branched-chain amino acid ABC transporter substrate-binding protein | S. hyicus | 0E+00 |
| 598 | 613144 | 615033 | 630 | 315 | - | 744781425 | NorD family protein | S. hyicus | 0E+00 |
| 599 | 615045 | 615839 | 265 | 138.8 | - | 744781424 | hypothetical protein SHYC\_07435 | S. hyicus | 1E-180 |
| 600 | 615914 | 616117 | 68 | 28.6 | - | 744781423 | hypothetical protein SHYC\_07430 | S. hyicus | 3E-39 |
| 601 | 616129 | 616944 | 272 | 148.6 | - | 744781422 | putative ring-cleaving dioxygenase | S. hyicus | 1E-163 |
| 602 | 617254 | 618495 | 414 | 280.2 | - | 744781421 | 2-oxoglutarate dehydrogenase, E2 component | S. hyicus | 0E+00 |
| 603 | 618509 | 621298 | 930 | 505.1 | - | 744781420 | 2-oxoglutarate dehydrogenase E1 component | S. hyicus | 0E+00 |
| 604 | 621390 | 622760 | 457 | 184.4 | - | 744781419 | histidine kinase | S. hyicus | 0E+00 |
| 605 | 622757 | 623434 | 226 | 123.9 | - | 744781418 | two-component response regulator ArlR | S. hyicus | 7E-154 |
| 606 | 624012 | 624626 | 205 | 67.4 | - | 744781417 | PAP2 family phosphatase | S. hyicus | 2E-142 |
| 607 | 624638 | 625711 | 358 | 200.2 | - | 744781416 | UDP-diphospho-muramoylpentapeptide beta-N- acetylglucosaminyltransferase | S. hyicus | 0E+00 |
| 608 | 625721 | 626230 | 170 | 85.3 | - | 744781415 | acetyltransferase | S. hyicus | 3E-105 |
| 609 | 626227 | 627669 | 481 | 266.2 | - | 744781414 | carboxy-terminal processing proteinase CtpA | S. hyicus | 0E+00 |
| 610 | 627838 | 628059 | 74 | 30.6 | - | 744781413 | hypothetical protein SHYC\_07380 | S. hyicus | 5E-45 |
| 611 | 628059 | 628562 | 168 | 115.6 | - | 744781412 | PTS glucose transporter subunit IIA | S. hyicus | 3E-105 |
| 612 | 628573 | 629001 | 143 | 81.7 | - | 744781411 | peptide methionine sulfoxide reductase B | S. hyicus | 2E-98 |
| 613 | 628994 | 629521 | 176 | 65.5 | - | 744781410 | peptide methionine sulfoxide reductase MsrA | S. hyicus | 8E-123 |
| 614 | 629536 | 630384 | 283 | 164.3 | - | 744781409 | DegV family protein FakB2 | S. hyicus | 0E+00 |
| 615 | 630402 | 630878 | 159 | 76.7 | - | 744781408 | dihydrofolate reductase | S. hyicus | 2E-107 |
| 616 | 630949 | 631902 | 318 | 131.9 | - | 744781407 | thymidylate synthase | S. hyicus | 0E+00 |
| 617 | 632044 | 632484 | 147 | 79.8 | - | 744781406 | disulfide isomerase | S. hyicus | 2E-95 |
| 618 | 632497 | 633612 | 372 | 194.8 | - | 744781405 | virulence factor | S. hyicus | 0E+00 |
| 619 | 633624 | 633809 | 62 | 6.9 | - | 744781404 | hypothetical protein SHYC\_07335 | S. hyicus | 1E-35 |
| 620 | 634103 | 634807 | 235 | 85 | + | 744781403 | YhhQ family membrane protein | S. hyicus | 1E-154 |
| 621 | 634895 | 635296 | 134 | 54.1 | + | 744781402 | ribonuclease H-like protein | S. hyicus | 7E-77 |
| 622 | 635483 | 636367 | 295 | 135.8 | - | 744781401 | 5'-3' exonuclease | S. hyicus | 0E+00 |
| 623 | 636360 | 639821 | 1154 | 520.4 | - | 744781400 | hypothetical protein SHYC\_07315 | S. hyicus | 0E+00 |
| 624 | 640186 | 641100 | 305 | 102.8 | - | 744781399 | permease RarD | S. hyicus | 0E+00 |
| 625 | 641244 | 642377 | 378 | 234.3 | - | 744781398 | ribosomal RNA large subunit methyltransferase L | S. hyicus | 0E+00 |
| 626 | 642856 | 642948 | 31 | 3.1 | - |  | No Significant Match |  |  |
| 627 | 643030 | 643365 | 112 | 76.1 | - | 744781397 | cell division protein GpsB | S. hyicus | 4E-73 |
| 628 | 643387 | 643944 | 186 | 87.1 | - | 744781396 | hypothetical protein SHYC\_07295 | S. hyicus | 6E-122 |
| 629 | 643937 | 644272 | 112 | 42.8 | - | 744781395 | hypothetical protein SHYC\_07290 | S. hyicus | 1E-48 |
| 630 | 644645 | 645211 | 189 | 81.8 | + | 744781394 | Holliday junction resolvase | S. hyicus | 1E-125 |
| 631 | 645208 | 647427 | 740 | 392.9 | + | 744781393 | transglycosylase | S. hyicus | 0E+00 |
| 632 | 647516 | 647848 | 111 | 59.2 | - | 744781392 | hypothetical protein SHYC\_07275 | S. hyicus | 9E-53 |
| 633 | 647845 | 648516 | 224 | 103.3 | - | 744781391 | endonuclease III | S. hyicus | 1E-158 |
| 634 | 648506 | 649198 | 231 | 113.5 | - | 744781390 | chromosome replication protein DnaD | S. hyicus | 1E-152 |
| 635 | 649279 | 650571 | 431 | 259.3 | - | 744781389 | asparagine--tRNA ligase | S. hyicus | 0E+00 |
| 636 | 650670 | 653357 | 896 | 379.4 | - | 744781388 | DnaQ family exonuclease/DinG family helicase | S. hyicus | 0E+00 |
| 637 | 653380 | 654351 | 324 | 115.2 | - | 744781387 | bifunctional repressor/biotin--acetyl-CoA-carboxylase ligase | S. hyicus | 0E+00 |
| 638 | 654338 | 655540 | 401 | 196 | - | 744781386 | tRNA CCA-pyrophosphorylase | S. hyicus | 0E+00 |
| 639 | 655533 | 656669 | 379 | 198.9 | - | 744781385 | N-acetyl-alpha-D-glucosaminyl L-malate synthase | S. hyicus | 0E+00 |
| 640 | 656684 | 657004 | 107 | 64.2 | - | 744781384 | nucleoside triphosphate pyrophosphohydrolase | S. hyicus | 4E-67 |
| 641 | 657255 | 658811 | 519 | 152.5 | + |  | No Significant Match |  |  |
| 642 | 658929 | 659624 | 232 | 125.9 | - | 744781383 | zinc metallopeptidase | S. hyicus | 4E-166 |
| 643 | 659661 | 660263 | 201 | 36.1 | - | 744781382 | membrane protein | S. hyicus | 2E-92 |
| 644 | 660294 | 660827 | 178 | 64.8 | - | 744781381 | hypothetical protein SHYC\_07220 | S. hyicus | 2E-87 |
| 645 | 660837 | 662078 | 414 | 252.7 | - | 744781380 | TPR-repeat-containing protein | S. hyicus | 0E+00 |
| 646 | 662080 | 663369 | 430 | 165.8 | - | 744781379 | 3-phosphoshikimate 1-carboxyvinyltransferase | S. hyicus | 0E+00 |
| 647 | 663369 | 664433 | 355 | 159.4 | - | 744781378 | 3-dehydroquinate synthase | S. hyicus | 0E+00 |
| 648 | 664445 | 665611 | 389 | 225.5 | - | 744781377 | chorismate synthase | S. hyicus | 0E+00 |
| 649 | 665863 | 666312 | 150 | 94.5 | - | 744781376 | nucleoside diphosphate kinase | S. hyicus | 9E-102 |
| 650 | 666394 | 667350 | 319 | 171.5 | - | 744781375 | heptaprenyl diphosphate synthase component 2 | S. hyicus | 0E+00 |
| 651 | 667368 | 668078 | 237 | 109.6 | - | 744781374 | ubiquinone biosynthesis methyltransferase UbiE | S. hyicus | 1E-172 |
| 652 | 668079 | 668657 | 193 | 68.8 | - | 744781373 | heptaprenyl diphosphate synthase subunit 1 | S. hyicus | 4E-104 |
| 653 | 668876 | 669148 | 91 | 75.5 | - | 744781372 | DNA-binding protein HU | S. hyicus | 3E-57 |
| 654 | 669435 | 670433 | 333 | 190.3 | - | 744781371 | glycerol-3-phosphate dehydrogenase | S. hyicus | 0E+00 |
| 655 | 670450 | 671760 | 437 | 244.3 | - | 744781370 | GTP-binding protein Der | S. hyicus | 0E+00 |
| 656 | 671995 | 673182 | 396 | 258.9 | - | 744781369 | 30S ribosomal protein S1 | S. hyicus | 0E+00 |
| 657 | 673410 | 674084 | 225 | 142 | - | 744781368 | cytidylate kinase | S. hyicus | 7E-144 |
| 658 | 674157 | 675119 | 321 | 161.7 | + | 744781367 | asparaginase | S. hyicus | 0E+00 |
| 659 | 675162 | 676148 | 329 | 155.1 | - | 744781366 | pyridine nucleotide-disulfide oxidoreductase family protein | S. hyicus | 0E+00 |
| 660 | 676395 | 678338 | 648 | 338.3 | - | 744781365 | hypothetical protein SHYC\_07140 | S. hyicus | 2E-74 |
| 661 | 678519 | 679895 | 459 | 179.2 | - | 744781364 | ATP-dependent DNA helicase RecQ-1 | S. hyicus | 0E+00 |
| 662 | 679885 | 680838 | 318 | 92.2 | - | 744781363 | hypothetical protein SHYC\_07130 | S. hyicus | 1E-166 |
| 663 | 680944 | 681192 | 83 | 47.5 | + | 744781362 | ferredoxin | S. hyicus | 8E-51 |
| 664 | 681311 | 681859 | 183 | 73.8 | - | 744781361 | riboflavin transporter RibU | S. hyicus | 4E-113 |
| 665 | 681978 | 683720 | 581 | 283.4 | - | 744781360 | signal transduction histidine kinase SrrB | S. hyicus | 0E+00 |
| 666 | 683704 | 684429 | 242 | 159.1 | - | 744781359 | transcriptional regulatory protein SrrA | S. hyicus | 2E-173 |
| 667 | 684557 | 685297 | 247 | 134.9 | - | 744781358 | pseudouridine synthase | S. hyicus | 8E-172 |
| 668 | 685294 | 685839 | 182 | 114.8 | - | 744781357 | segregation and condensation protein B | S. hyicus | 1E-106 |
| 669 | 685823 | 686557 | 245 | 144.2 | - | 744781356 | segregation and condensation protein A | S. hyicus | 2E-157 |
| 670 | 686654 | 687157 | 168 | 63 | + | 744781355 | putative hydrolase | S. hyicus | 7E-92 |
| 671 | 687178 | 688065 | 296 | 120 | - | 744781354 | tyrosine recombinase XerD | S. hyicus | 0E+00 |
| 672 | 688102 | 688554 | 151 | 68.5 | - | 744781353 | ferric uptake regulation protein Fur | S. hyicus | 5E-104 |
| 673 | 688658 | 689200 | 181 | 110.8 | - | 744781352 | ADP-ribose pyrophosphatase | S. hyicus | 2E-107 |
| 674 | 689279 | 690187 | 303 | 165.2 | + | 744781351 | oxidoreductase | S. hyicus | 0E+00 |
| 675 | 690259 | 694314 | 1352 | 714.1 | - | Q53654 | Collagen adhesin | S. aureus | 0E+00 |
| 676 | 694657 | 695475 | 273 | 147 | + | 744781349 | pyrroline-5-carboxylate reductase | S. hyicus | 0E+00 |
| 677 | 695583 | 696500 | 306 | 163.1 | - | 744781348 | ribonuclease Z | S. hyicus | 0E+00 |
| 678 | 696661 | 698145 | 495 | 259.4 | + | 744781347 | glucose-6-phosphate 1-dehydrogenase | S. hyicus | 0E+00 |
| 679 | 698248 | 699105 | 286 | 123.5 | + | 744781346 | AraC family transcriptional regulator | S. hyicus | 0E+00 |
| 680 | 699153 | 700556 | 468 | 311.5 | - | 744781345 | 6-phosphogluconate dehydrogenase | S. hyicus | 0E+00 |
| 681 | 700633 | 701745 | 371 | 229.9 | - | 744781344 | peptidase T-like protein | S. hyicus | 0E+00 |
| 682 | 702067 | 703044 | 326 | 138.1 | - | 744781343 | membrane protein | S. hyicus | 0E+00 |
| 683 | 703056 | 703493 | 146 | 95.6 | - | 744781342 | disulfide isomerase | S. hyicus | 4E-101 |
| 684 | 703570 | 704850 | 427 | 231.5 | - | 744781341 | 2-oxoglutarate dehydrogenase subunit E2 | S. hyicus | 0E+00 |
| 685 | 704862 | 705845 | 328 | 215.4 | - | 744781340 | 2-oxoisovalerate dehydrogenase subunit beta | S. hyicus | 0E+00 |
| 686 | 705838 | 706836 | 333 | 201.6 | - | 744781339 | 2-oxoisovalerate dehydrogenase subunit alpha | S. hyicus | 0E+00 |
| 687 | 706860 | 708278 | 473 | 274.6 | - | 744781338 | dihydrolipoamide dehydrogenase | S. hyicus | 0E+00 |
| 688 | 708291 | 709349 | 353 | 176.2 | - | 744781337 | butyrate kinase | S. hyicus | 0E+00 |
| 689 | 709402 | 710310 | 303 | 111.2 | - | 744781336 | phosphate butyryltransferase | S. hyicus | 0E+00 |
| 690 | 710320 | 711993 | 558 | 302.1 | - | 744781335 | DNA recombination protein RecN | S. hyicus | 0E+00 |
| 691 | 712006 | 712458 | 151 | 84.3 | - | 744781334 | arginine repressor | S. hyicus | 3E-106 |
| 692 | 712720 | 714609 | 630 | 325.6 | - | 744781333 | 1-deoxy-D-xylulose-5-phosphate synthase | S. hyicus | 0E+00 |
| 693 | 714645 | 715529 | 295 | 171.1 | - | 744781332 | geranyl transferase | S. hyicus | 3E-164 |
| 694 | 715507 | 715731 | 75 | 37.7 | - | 744781331 | exodeoxyribonuclease VII small subunit | S. hyicus | 3E-37 |
| 695 | 715715 | 717061 | 449 | 192.1 | - | 744781330 | exodeoxyribonuclease VII large subunit | S. hyicus | 0E+00 |
| 696 | 717070 | 717462 | 131 | 67.9 | - | 744781329 | transcription antitermination factor NusB | S. hyicus | 3E-87 |
| 697 | 717481 | 717858 | 126 | 62.5 | - | 744781328 | hypothetical protein SHYC\_06950 | S. hyicus | 4E-87 |
| 698 | 717880 | 719235 | 452 | 254.4 | - | 744781327 | acetyl-CoA carboxylase biotin carboxylase subunit | S. hyicus | 0E+00 |
| 699 | 719237 | 719692 | 152 | 107.2 | - | 744781326 | acetyl-CoA carboxylase, biotin carboxyl carrier protein | S. hyicus | 5E-96 |
| 700 | 719964 | 720521 | 186 | 118.3 | - | 744781325 | elongation factor P | S. hyicus | 4E-134 |
| 701 | 720550 | 721611 | 354 | 185.3 | - | 744781324 | peptidase M24 | S. hyicus | 0E+00 |
| 702 | 721706 | 722308 | 201 | 103.6 | + | 744781323 | lipoprotein | S. hyicus | 4E-115 |
| 703 | 722321 | 722545 | 75 | 28.8 | + | 744781322 | membrane protein | S. hyicus | 4E-36 |
| 704 | 722608 | 723438 | 277 | 137.8 | - | 744781321 | octanoyltransferase LipM | S. hyicus | 0E+00 |
| 705 | 723577 | 723963 | 129 | 65.2 | + | 744781320 | rhodanese family protein | S. hyicus | 8E-88 |
| 706 | 724096 | 725571 | 492 | 311.4 | - | 744781319 | glycine dehydrogenase subunit 2 | S. hyicus | 0E+00 |
| 707 | 725561 | 726910 | 450 | 260.8 | - | 744781318 | glycine dehydrogenase subunit 1 | S. hyicus | 0E+00 |
| 708 | 726922 | 728013 | 364 | 249.6 | - | 744781317 | glycine cleavage system aminomethyltransferase T | S. hyicus | 0E+00 |
| 709 | 728165 | 728689 | 175 | 63.5 | - | 744781316 | shikimate kinase | S. hyicus | 2E-87 |
| 710 | 728673 | 728840 | 56 | 0.6 | - | 746619818 | hypothetical protein | S. hyicus | 2E-22 |
| 711 | 728854 | 729336 | 161 | 21.2 | - | 744781314 | competence protein ComGF | S. hyicus | 3E-69 |
| 712 | 729528 | 729959 | 144 | 17.3 | - | 744781312 | competence protein ComGD | S. hyicus | 5E-68 |
| 713 | 729949 | 730269 | 107 | 56.7 | - | 744781311 | competence protein ComGC | S. hyicus | 3E-52 |
| 714 | 730281 | 731009 | 243 | 56 | - | 744781310 | competence protein ComGB | S. hyicus | 5E-130 |
| 715 | 730993 | 731322 | 110 | 30.2 | - | 744781310 | competence protein ComGB | S. hyicus | 6E-48 |
| 716 | 731291 | 732265 | 325 | 130.8 | - | 744781309 | competence protein ComGA | S. hyicus | 0E+00 |
| 717 | 732322 | 732945 | 208 | 109.9 | - | 744781308 | metallo-beta-lactamase superfamily protein | S. hyicus | 4E-130 |
| 718 | 732960 | 733271 | 104 | 72.1 | - | 744781307 | hypothetical protein SHYC\_06850 | S. hyicus | 6E-63 |
| 719 | 733272 | 734258 | 329 | 172.2 | - | 744781306 | glucokinase | S. hyicus | 0E+00 |
| 720 | 734255 | 734458 | 68 | 18.9 | - | 744781305 | hypothetical protein SHYC\_06840 | S. hyicus | 5E-40 |
| 721 | 734460 | 735899 | 480 | 192.1 | - | 744781304 | rhomboid family protein | S. hyicus | 0E+00 |
| 722 | 735917 | 736456 | 180 | 88.4 | - | 744781303 | 5-formyltetrahydrofolate cyclo-ligase | S. hyicus | 1E-98 |
| 723 | 736569 | 736718 | 50 | 21.4 | - | 744781302 | 50S ribosomal protein L33 | S. hyicus | 1E-28 |
| 724 | 736789 | 737448 | 220 | 94 | - | 744781301 | phosphate transport system regulatory protein PhoU | S. hyicus | 2E-143 |
| 725 | 737441 | 738307 | 289 | 146.1 | - | 744781300 | phosphate ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 726 | 738340 | 739218 | 293 | 140.2 | - | 744781299 | phosphate ABC transporter permease | S. hyicus | 1E-168 |
| 727 | 739220 | 740146 | 309 | 142.1 | - | 744781298 | phosphate ABC transporter permease | S. hyicus | 0E+00 |
| 728 | 740228 | 741193 | 322 | 208.8 | - | 744781297 | phosphate ABC transporter substrate-binding protein | S. hyicus | 0E+00 |
| 729 | 741388 | 743427 | 680 | 354.9 | - | 744781296 | penicillin-binding protein 3 | S. hyicus | 0E+00 |
| 730 | 743700 | 744299 | 200 | 136.5 | - | 744781295 | superoxide dismutase | S. hyicus | 7E-144 |
| 731 | 744696 | 745778 | 361 | 239.2 | + | 744781294 | 4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase | S. hyicus | 0E+00 |
| 732 | 745845 | 746255 | 137 | 44.8 | - | 744781293 | zinc-specific metallo-regulatory protein | S. hyicus | 4E-93 |
| 733 | 746218 | 747105 | 296 | 117.6 | - | 744781292 | zinc ABC transporter permease | S. hyicus | 0E+00 |
| 734 | 747102 | 747872 | 257 | 106.3 | - | 744781291 | zinc ABC transporter ATP-binding protein | S. hyicus | 7E-167 |
| 735 | 748127 | 749020 | 298 | 173.2 | - | 744781290 | endonuclease IV | S. hyicus | 0E+00 |
| 736 | 749034 | 750374 | 447 | 261.4 | - | 744781289 | DEAD/DEAH box RNA helicase | S. hyicus | 0E+00 |
| 737 | 750551 | 751528 | 326 | 172.1 | + | 744781288 | 4-hydroxy-3-methylbut-2-enyl diphosphate reductase | S. hyicus | 0E+00 |
| 738 | 751562 | 752665 | 368 | 189.2 | - | 744781287 | putative GTP cyclohydrolase 1 | S. hyicus | 0E+00 |
| 739 | 752652 | 753335 | 228 | 121.9 | - | 744781286 | tRNA (adenine(22)-N(1))-methyltransferase | S. hyicus | 4E-139 |
| 740 | 753462 | 754571 | 370 | 250.5 | - | 744781285 | RNA polymerase sigma factor SigA | S. hyicus | 0E+00 |
| 741 | 754589 | 756373 | 595 | 237.8 | - | 744781284 | DNA primase | S. hyicus | 0E+00 |
| 742 | 756440 | 757264 | 275 | 146.7 | - | 744781283 | phosphotransferase | S. hyicus | 0E+00 |
| 743 | 757280 | 757771 | 164 | 47.3 | - | 744781282 | transcriptional repressor CcpN | S. hyicus | 4E-105 |
| 744 | 758325 | 759716 | 464 | 272.1 | + | 744781281 | glycyl-tRNA synthetase | S. hyicus | 0E+00 |
| 745 | 759916 | 760698 | 261 | 100.5 | - | 744781280 | DNA repair protein RecO | S. hyicus | 4E-152 |
| 746 | 760722 | 761618 | 299 | 171.8 | - | 744781279 | GTPase Era | S. hyicus | 0E+00 |
| 747 | 761620 | 762024 | 135 | 44.7 | - | 744781278 | cytidine deaminase | S. hyicus | 5E-95 |
| 748 | 762037 | 762375 | 113 | 46.1 | - | 744781277 | diacylglycerol kinase | S. hyicus | 3E-56 |
| 749 | 762372 | 762836 | 155 | 102.1 | - | 744781276 | rRNA maturation factor YbeY | S. hyicus | 2E-98 |
| 750 | 762836 | 763783 | 316 | 196.5 | - | 744781275 | phosphate starvation protein PhoH | S. hyicus | 0E+00 |
| 751 | 764027 | 764638 | 204 | 103.4 | - | 744781274 | hypothetical protein SHYC\_06685 | S. hyicus | 2E-82 |
| 752 | 764651 | 765649 | 333 | 237.8 | - | 744781273 | hypothetical protein SHYC\_06680 | S. hyicus | 0E+00 |
| 753 | 765664 | 766371 | 236 | 94.9 | - | 744781272 | serine protease | S. hyicus | 3E-136 |
| 754 | 766556 | 766732 | 59 | 33.2 | - | 744781271 | 30S ribosomal protein S21 | S. hyicus | 1E-31 |
| 755 | 766863 | 768209 | 449 | 234.9 | - | 744781270 | threonylcarbamoyladenosine tRNA methylthiotransferase MtaB | S. hyicus | 0E+00 |
| 756 | 768228 | 768977 | 250 | 97.5 | - | 744781269 | ribosomal RNA small subunit methyltransferase E | S. hyicus | 4E-154 |
| 757 | 768983 | 769912 | 310 | 151.8 | - | 744781268 | 50S ribosomal protein L11 methyltransferase | S. hyicus | 0E+00 |
| 758 | 769916 | 771046 | 377 | 211.4 | - | 744781267 | molecular chaperone DnaJ | S. hyicus | 0E+00 |
| 759 | 771164 | 772993 | 610 | 462.6 | - | 744781266 | molecular chaperone DnaK | S. hyicus | 0E+00 |
| 760 | 773058 | 773687 | 210 | 147 | - | 744781265 | heat shock protein GrpE | S. hyicus | 3E-144 |
| 761 | 773724 | 774707 | 328 | 128.9 | - | 744781264 | heat-inducible transcription repressor HrcA | S. hyicus | 0E+00 |
| 762 | 774808 | 775929 | 374 | 163.8 | - | 744781263 | coproporphyrinogen III oxidase | S. hyicus | 0E+00 |
| 763 | 775995 | 777818 | 608 | 340.6 | - | 744781262 | translation elongation factor LepA | S. hyicus | 0E+00 |
| 764 | 778059 | 778307 | 83 | 48.8 | + | 744781261 | 30S ribosomal protein S20 | S. hyicus | 6E-50 |
| 765 | 778470 | 779447 | 326 | 169.6 | - | 744781260 | DNA polymerase III subunit delta | S. hyicus | 0E+00 |
| 766 | 779526 | 781757 | 744 | 180 | - | 744781259 | ComEC family protein | S. hyicus | 0E+00 |
| 767 | 781758 | 782225 | 156 | 61.7 | - | 744781258 | deoxycytidylate deaminase | S. hyicus | 3E-109 |
| 768 | 782327 | 782968 | 214 | 78.9 | - | 744781257 | ComEA family DNA binding protein | S. hyicus | 9E-84 |
| 769 | 783018 | 783740 | 241 | 77 | - | 744781256 | methyltransferase | S. hyicus | 5E-136 |
| 770 | 783740 | 784096 | 119 | 68.8 | - | 744781255 | ribosomal silencing factor RsfS | S. hyicus | 2E-74 |
| 771 | 784108 | 784680 | 191 | 102.1 | - | 744781254 | NAD metabolism-related HD hydrolase | S. hyicus | 8E-130 |
| 772 | 784673 | 785239 | 189 | 67.7 | - | 744781253 | nicotinate-nucleotide adenylyltransferase | S. hyicus | 4E-111 |
| 773 | 785242 | 785535 | 98 | 64.5 | - | 744781252 | YhbY family RNA-binding protein | S. hyicus | 8E-58 |
| 774 | 785545 | 786351 | 269 | 142.3 | - | 744781251 | shikimate 5-dehydrogenase | S. hyicus | 1E-164 |
| 775 | 786363 | 787463 | 367 | 181 | - | 744781250 | ribosome biogenesis GTPase YqeH | S. hyicus | 0E+00 |
| 776 | 787467 | 787991 | 175 | 92.7 | - | 744781249 | HAD superfamily hydrolase | S. hyicus | 1E-117 |
| 777 | 788059 | 788751 | 231 | 127.4 | - | 744781248 | 5'-methylthioadenosine/S-adenosylhomocysteine nucleosidase | S. hyicus | 6E-138 |
| 778 | 788928 | 790166 | 413 | 224.6 | - | 744781247 | transporter MntH | S. hyicus | 0E+00 |
| 779 | 790170 | 790931 | 254 | 149 | - | 744781246 | LamB/YcsF family protein | S. hyicus | 4E-157 |
| 780 | 790924 | 792288 | 455 | 258.7 | - | 744781245 | acetyl-CoA carboxylase biotin carboxylase subunit | S. hyicus | 0E+00 |
| 781 | 792301 | 792744 | 148 | 96.1 | - | 744781244 | acetyl-CoA carboxylase biotin carboxyl carrier protein | S. hyicus | 2E-69 |
| 782 | 792735 | 793760 | 342 | 136.6 | - | 744781243 | allophanate hydrolase subunit 2 | S. hyicus | 0E+00 |
| 783 | 793750 | 794481 | 244 | 123.6 | - | 744781242 | allophanate hydrolase subunit 1 | S. hyicus | 2E-154 |
| 784 | 794845 | 795321 | 159 | 97.4 | - | 744781241 | transcription elongation factor GreA | S. hyicus | 4E-109 |
| 785 | 795349 | 795975 | 209 | 113.5 | - | 744781240 | uridine kinase | S. hyicus | 7E-151 |
| 786 | 795980 | 797245 | 422 | 220.9 | - | 744781239 | peptidase U32 family protein | S. hyicus | 0E+00 |
| 787 | 797281 | 798210 | 310 | 177.2 | - | 744781238 | peptidase U32 family protein | S. hyicus | 0E+00 |
| 788 | 798203 | 798847 | 215 | 83.4 | - | 744781237 | O-methyltransferase | S. hyicus | 4E-137 |
| 789 | 799178 | 799498 | 107 | 95.2 | - | 744781236 | hypothetical protein SHYC\_06495 | S. hyicus | 7E-66 |
| 790 | 799513 | 799941 | 143 | 74.6 | - | 744781235 | putative Holliday junction resolvase | S. hyicus | 8E-94 |
| 791 | 799934 | 800206 | 91 | 54.9 | - | 744781234 | hypothetical protein SHYC\_06485 | S. hyicus | 4E-61 |
| 792 | 800270 | 802900 | 877 | 535.1 | - | 744781233 | alanyl-tRNA synthetase | S. hyicus | 0E+00 |
| 793 | 803133 | 805505 | 791 | 405 | - | 744781232 | RecD/TraA family helicase | S. hyicus | 0E+00 |
| 794 | 805509 | 806183 | 225 | 135.1 | - | 744781231 | TPR domain-containing protein | S. hyicus | 6E-134 |
| 795 | 806222 | 807331 | 370 | 204.4 | - | 744781230 | thiouridylase | S. hyicus | 0E+00 |
| 796 | 807334 | 808473 | 380 | 191.9 | - | 744781229 | cysteine desulfurase | S. hyicus | 0E+00 |
| 797 | 808694 | 809704 | 337 | 161 | + | 744781228 | luciferase family oxidoreductase | S. hyicus | 0E+00 |
| 798 | 809756 | 809920 | 55 | 41.6 | - | 744781227 | hypothetical protein SHYC\_06450 | S. hyicus | 2E-17 |
| 799 | 810006 | 810191 | 62 | 43.7 | - | 744781226 | CsbD-like protein | S. hyicus | 2E-29 |
| 800 | 810258 | 811088 | 277 | 137.4 | - | 744781225 | 2,5-diketo-D-gluconic acid reductase | S. hyicus | 5E-174 |
| 801 | 811163 | 811582 | 140 | 90.7 | - | 744781224 | HTH-type transcriptional regulator CymR | S. hyicus | 2E-93 |
| 802 | 811725 | 812981 | 419 | 227.5 | + | 744781223 | recombinase RarA | S. hyicus | 0E+00 |
| 803 | 813090 | 813857 | 256 | 123.5 | - | 744781222 | tRNA threonylcarbamoyladenosine dehydratase | S. hyicus | 8E-172 |
| 804 | 814164 | 815930 | 589 | 384.6 | - | 744781221 | aspartyl-tRNA synthase | S. hyicus | 0E+00 |
| 805 | 815930 | 817201 | 424 | 238.8 | - | 744781220 | histidyl-tRNA synthetase | S. hyicus | 0E+00 |
| 806 | 817526 | 818401 | 292 | 150 | - | 744781219 | N-acetylmuramoyl-L-alanine amidase | S. hyicus | 0E+00 |
| 807 | 818398 | 818850 | 151 | 74.2 | - | 744781218 | D-tyrosyl-tRNA(Tyr) deacylase | S. hyicus | 2E-94 |
| 808 | 818862 | 821051 | 730 | 377.6 | - | 744781217 | GTP pyrophosphokinase | S. hyicus | 0E+00 |
| 809 | 821463 | 821981 | 173 | 122.5 | - | 744781216 | adenine phosphoribosyltransferase | S. hyicus | 9E-121 |
| 810 | 821993 | 824275 | 761 | 390.2 | - | 744781215 | single-stranded-DNA exonuclease RecJ | S. hyicus | 0E+00 |
| 811 | 824368 | 826647 | 760 | 383.1 | - | 744781214 | preprotein translocase subunit SecD/SecF | S. hyicus | 0E+00 |
| 812 | 826956 | 827219 | 88 | 65.2 | - | 744781213 | preprotein translocase subunit YajC | S. hyicus | 9E-47 |
| 813 | 827236 | 828375 | 380 | 178.5 | - | 744781212 | queuine tRNA-ribosyltransferase | S. hyicus | 0E+00 |
| 814 | 828389 | 829414 | 342 | 155 | - | 744781211 | S-adenosylmethionine tRNA ribosyltransferase-isomerase | S. hyicus | 0E+00 |
| 815 | 829428 | 830423 | 332 | 177.6 | - | 744781210 | Holliday junction ATP-dependent DNA helicase RuvB | S. hyicus | 0E+00 |
| 816 | 830439 | 831038 | 200 | 120.4 | - | 744781209 | Holliday junction ATP-dependent DNA helicase RuvA | S. hyicus | 3E-122 |
| 817 | 831051 | 831494 | 148 | 56.5 | - | 744781208 | ACT domain-containing protein | S. hyicus | 8E-97 |
| 818 | 831510 | 832799 | 430 | 253.8 | - | 744781207 | Obg family GTPase CgtA | S. hyicus | 0E+00 |
| 819 | 832968 | 833252 | 95 | 72.2 | - | 744781206 | 50S ribosomal protein L27 | S. hyicus | 1E-60 |
| 820 | 833263 | 833583 | 107 | 37.5 | - | 744781205 | phage-related ribosomal protease Prp | S. hyicus | 1E-71 |
| 821 | 833586 | 833894 | 103 | 66.3 | - | 744781204 | 50S ribosomal protein L21 | S. hyicus | 1E-67 |
| 822 | 834008 | 834532 | 175 | 37.4 | - | 744781203 | rod shape-determining protein MreD | S. hyicus | 6E-84 |
| 823 | 834529 | 835365 | 279 | 131.8 | - | 744781202 | cell shape-determining protein MreC | S. hyicus | 0E+00 |
| 824 | 835639 | 835782 | 48 | 15.4 | - | 744781201 | hypothetical protein SHYC\_06320 | S. hyicus | 1E-19 |
| 825 | 835853 | 836311 | 153 | 79.8 | - | 744781200 | hypothetical protein SHYC\_06315 | S. hyicus | 6E-90 |
| 826 | 836648 | 837331 | 228 | 103.2 | - | 744781198 | DNA repair protein RadC | S. hyicus | 1E-145 |
| 827 | 837328 | 838041 | 238 | 29.7 | - | 744781197 | peptidase | S. hyicus | 9E-101 |
| 828 | 838212 | 839474 | 421 | 237.1 | - | 744781196 | folylpolyglutamate synthase | S. hyicus | 0E+00 |
| 829 | 839486 | 842116 | 877 | 526.6 | - | 744781195 | valyl-tRNA synthetase | S. hyicus | 0E+00 |
| 830 | 842424 | 842975 | 184 | 80.8 | + | 744781194 | DNA-3-methyladenine glycosylase | S. hyicus | 1E-111 |
| 831 | 843031 | 844101 | 357 | 121.5 | - | 744781193 | putative ammonia monooxygenase | S. hyicus | 0E+00 |
| 832 | 844317 | 845603 | 429 | 252.9 | - | 744781192 | glutamate-1-semialdehyde aminotransferase | S. hyicus | 0E+00 |
| 833 | 845619 | 846596 | 326 | 188.5 | - | 744781191 | delta-aminolevulinic acid dehydratase | S. hyicus | 0E+00 |
| 834 | 846593 | 847273 | 227 | 96.9 | - | 744781190 | uroporphyrinogen III synthase | S. hyicus | 9E-109 |
| 835 | 847284 | 848210 | 309 | 172.3 | - | 744781189 | porphobilinogen deaminase | S. hyicus | 0E+00 |
| 836 | 848231 | 849067 | 279 | 35.3 | - | 744781188 | cytochrome C assembly protein | S. hyicus | 2E-176 |
| 837 | 849082 | 850422 | 447 | 241.6 | - | 744781187 | glutamyl-tRNA reductase | S. hyicus | 0E+00 |
| 838 | 850545 | 851132 | 196 | 98.1 | - | 744781186 | GTP-binding protein YsxC (EngB) | S. hyicus | 3E-125 |
| 839 | 851202 | 852464 | 421 | 276.9 | - | 744781185 | ATP-dependent Clp protease ATP-binding subunit ClpX | S. hyicus | 0E+00 |
| 840 | 852677 | 853990 | 438 | 380.6 | - | 744781184 | trigger factor | S. hyicus | 0E+00 |
| 841 | 854075 | 854998 | 308 | 134 | - | 744781183 | hypothetical protein SHYC\_06235 | S. hyicus | 0E+00 |
| 842 | 855008 | 855619 | 204 | 110.5 | - | 744781182 | MutT/nudix family protein | S. hyicus | 5E-144 |
| 843 | 855839 | 856195 | 119 | 76.9 | - | 744781181 | 50S ribosomal protein L20 | S. hyicus | 6E-78 |
| 844 | 856255 | 856455 | 67 | 31.1 | - | 744781180 | 50S ribosomal protein L35 | S. hyicus | 4E-39 |
| 845 | 856483 | 857058 | 192 | 102.7 | - | 744781179 | translation initiation factor IF-3 | S. hyicus | 2E-136 |
| 846 | 857212 | 858720 | 503 | 231.7 | - | 744781178 | lysine permease | S. hyicus | 0E+00 |
| 847 | 859070 | 861007 | 646 | 401.1 | - | 744781177 | threonyl-tRNA synthetase | S. hyicus | 0E+00 |
| 848 | 861300 | 862223 | 308 | 137.8 | - | 744781176 | primosomal protein DnaI | S. hyicus | 0E+00 |
| 849 | 862220 | 863587 | 456 | 212.1 | - | 744781175 | chromosome replication protein DnaB | S. hyicus | 0E+00 |
| 850 | 863589 | 864056 | 156 | 45.8 | - | 744781174 | transcriptional regulator NrdR | S. hyicus | 3E-111 |
| 851 | 864223 | 865233 | 337 | 216.7 | - | 744781173 | glyceraldehyde-3-phosphate dehydrogenase | S. hyicus | 0E+00 |
| 852 | 865551 | 866159 | 203 | 133.5 | - | 744781172 | dephospho-CoA kinase | S. hyicus | 5E-137 |
| 853 | 866176 | 867048 | 291 | 122.2 | - | 744781171 | formamidopyrimidine-DNA glycosylase | S. hyicus | 0E+00 |
| 854 | 867064 | 869691 | 876 | 499 | - | 744781170 | DNA polymerase I | S. hyicus | 0E+00 |
| 855 | 869812 | 871512 | 567 | 267.8 | - | 744781169 | alkaline phosphatase synthesis sensor protein PhoR | S. hyicus | 0E+00 |
| 856 | 871513 | 872217 | 235 | 156.5 | - | 744781168 | PhoP family transcriptional regulator | S. hyicus | 5E-166 |
| 857 | 872520 | 873782 | 421 | 285 | - | 744781167 | isocitrate dehydrogenase | S. hyicus | 0E+00 |
| 858 | 873832 | 874950 | 373 | 201.7 | - | 744781166 | citrate synthase | S. hyicus | 0E+00 |
| 859 | 875348 | 877108 | 587 | 388 | - | 744781165 | pyruvate kinase | S. hyicus | 0E+00 |
| 860 | 877125 | 878096 | 324 | 198.2 | - | 744781164 | 6-phosphofructokinase | S. hyicus | 0E+00 |
| 861 | 878435 | 879382 | 316 | 207.9 | - | 744781163 | acetyl-CoA carboxylase subunit alpha | S. hyicus | 0E+00 |
| 862 | 879382 | 880242 | 287 | 150.7 | - | 744781162 | acetyl-CoA carboxyl transferase subunit beta | S. hyicus | 0E+00 |
| 863 | 880275 | 881504 | 410 | 258.8 | - | 744781161 | NAD-dependent malic enzyme | S. hyicus | 0E+00 |
| 864 | 881622 | 884813 | 1064 | 490.5 | - | 744781160 | DNA polymerase III subunit alpha | S. hyicus | 0E+00 |
| 865 | 884828 | 885763 | 312 | 148.2 | - | 744781159 | bifunctional oligoribonuclease and PAP phosphatase NrnA | S. hyicus | 0E+00 |
| 866 | 885776 | 887071 | 432 | 227.3 | - | 744781158 | CBS domain protein | S. hyicus | 0E+00 |
| 867 | 887258 | 887671 | 138 | 86 | + | 744781157 | universal stress protein family protein | S. hyicus | 6E-88 |
| 868 | 887796 | 888488 | 231 | 126.1 | - | 744781156 | metal-dependent hydrolase | S. hyicus | 6E-153 |
| 869 | 888608 | 889663 | 352 | 190.3 | + | 744781155 | metallopeptidase | S. hyicus | 0E+00 |
| 870 | 889989 | 891104 | 372 | 254.9 | - | 744781154 | alanine dehydrogenase 2 | S. hyicus | 0E+00 |
| 871 | 891252 | 891752 | 167 | 109 | + | 744781153 | universal stress protein UspA | S. hyicus | 6E-119 |
| 872 | 891843 | 893039 | 399 | 265.1 | - | 744781152 | acetate kinase | S. hyicus | 0E+00 |
| 873 | 893123 | 894070 | 316 | 165.3 | - | 744781151 | adenine DNA methyltransferase | S. hyicus | 0E+00 |
| 874 | 894205 | 894702 | 166 | 104.9 | - | 744781150 | thiol peroxidase | S. hyicus | 4E-112 |
| 875 | 894771 | 895325 | 185 | 70 | - | 746621850 | RDD family protein | S. hyicus | 1E-92 |
| 876 | 895335 | 896324 | 330 | 210.7 | - | 744781148 | protease | S. hyicus | 0E+00 |
| 877 | 896501 | 897274 | 258 | 96.7 | - | 744781147 | membrane protein | S. hyicus | 6E-139 |
| 878 | 897296 | 898516 | 407 | 255.9 | - | 744781146 | putative tRNA sulfurtransferase | S. hyicus | 0E+00 |
| 879 | 898513 | 899652 | 380 | 190 | - | 744781145 | aminotransferase | S. hyicus | 0E+00 |
| 880 | 899820 | 901523 | 568 | 353 | - | 744781144 | septation ring formation regulator EzrA | S. hyicus | 0E+00 |
| 881 | 901703 | 902158 | 152 | 80.6 | + | 744781143 | free methionine-R-sulfoxide reductase | S. hyicus | 1E-90 |
| 882 | 902386 | 902988 | 201 | 140.7 | + | 744781142 | 30S ribosomal protein S4 | S. hyicus | 1E-144 |
| 883 | 903110 | 904066 | 319 | 158.7 | + | 744781141 | ornithine cyclodeaminase | S. hyicus | 0E+00 |
| 884 | 904196 | 904939 | 248 | 134.7 | - | 744781140 | glycerophosphodiester phosphodiesterase | S. hyicus | 9E-167 |
| 885 | 905016 | 905462 | 149 | 57.6 | + | 744781139 | peroxiredoxin | S. hyicus | 7E-71 |
| 886 | 905552 | 906712 | 387 | 183.8 | + | 744781138 | aminotransferase class V | S. hyicus | 0E+00 |
| 887 | 906702 | 908294 | 531 | 304.2 | + | 744781137 | D-3-phosphoglycerate dehydrogenase | S. hyicus | 0E+00 |
| 888 | 908384 | 909517 | 378 | 208.5 | - | 744781136 | HAD family hydrolase | S. hyicus | 0E+00 |
| 889 | 909638 | 910255 | 206 | 109.2 | - | 744781135 | acyl-phosphate glycerol 3-phosphate acyltransferase | S. hyicus | 7E-135 |
| 890 | 910411 | 911637 | 409 | 225.6 | + | 744781134 | serine protease | S. hyicus | 0E+00 |
| 891 | 911684 | 912946 | 421 | 266.1 | - | 744781133 | tyrosyl-tRNA synthetase | S. hyicus | 0E+00 |
| 892 | 913291 | 914172 | 294 | 131.7 | + | 744781132 | transglycosylase | S. hyicus | 0E+00 |
| 893 | 914325 | 915992 | 556 | 386.9 | - | 744781131 | formate--tetrahydrofolate ligase | S. hyicus | 0E+00 |
| 894 | 916209 | 917918 | 570 | 310.7 | - | 744781130 | acetyl-CoA synthetase | S. hyicus | 0E+00 |
| 895 | 918073 | 918705 | 211 | 105.7 | + | 744781129 | acetyltransferase AcuA | S. hyicus | 1E-148 |
| 896 | 918720 | 919877 | 386 | 183.5 | + | 744781128 | acetoin utilization protein AcuC | S. hyicus | 0E+00 |
| 897 | 919973 | 920965 | 331 | 189.7 | - | 744781127 | catabolite control protein A | S. hyicus | 0E+00 |
| 898 | 921163 | 922254 | 364 | 197.5 | - | 744781126 | 3-deoxy-7-phosphoheptulonate synthase/chorismate mutase | S. hyicus | 0E+00 |
| 899 | 922520 | 923515 | 332 | 223 | - | 744781125 | hypothetical protein SHYC\_05945 | S. hyicus | 2E-132 |
| 900 | 923608 | 924213 | 202 | 114 | - | 744781124 | hypothetical protein SHYC\_05940 | S. hyicus | 2E-119 |
| 901 | 924290 | 925603 | 438 | 246.5 | - | 744781123 | UDP-N-acetylmuramate--alanine ligase | S. hyicus | 0E+00 |
| 902 | 925626 | 928841 | 1072 | 562 | - | 744781122 | FtsK/SpoIIIE family protein | S. hyicus | 0E+00 |
| 903 | 928856 | 929455 | 200 | 121.2 | - | 744781121 | tRNA-binding protein | S. hyicus | 1E-124 |
| 904 | 929472 | 930332 | 287 | 154.2 | - | 744781120 | hypothetical protein SHYC\_05920 | S. hyicus | 0E+00 |
| 905 | 930425 | 930733 | 103 | 57 | - | 744781119 | thioredoxin-like protein | S. hyicus | 8E-63 |
| 906 | 930748 | 931818 | 357 | 207.1 | - | 744781118 | peptidase M42-family protein | S. hyicus | 0E+00 |
| 907 | 931912 | 932238 | 109 | 49.6 | + | 744781117 | hypothetical protein SHYC\_05905 | S. hyicus | 1E-66 |
| 908 | 932306 | 933133 | 276 | 130.2 | - | 744781116 | lactonase YtnP family protein | S. hyicus | 2E-176 |
| 909 | 933233 | 933898 | 222 | 104.2 | - | 744781115 | tRNA (guanine-N7)-methyltransferase | S. hyicus | 4E-148 |
| 910 | 933913 | 934704 | 264 | 111.7 | - | 744781114 | phosphotransferase family protein | S. hyicus | 0E+00 |
| 911 | 934933 | 935781 | 283 | 159.7 | - | 744781113 | D-alanine aminotransferase | S. hyicus | 0E+00 |
| 912 | 935783 | 937192 | 470 | 282.6 | - | 744781112 | dipeptidase PepV | S. hyicus | 0E+00 |
| 913 | 937377 | 937796 | 140 | 91.3 | - | 744781111 | hypothetical protein SHYC\_05875 | S. hyicus | 2E-87 |
| 914 | 937868 | 938575 | 236 | 109.8 | - | 744781110 | ribosomal small subunit pseudouridine synthase A | S. hyicus | 5E-123 |
| 915 | 938575 | 940215 | 547 | 214.3 | - | 744781109 | O-antigen, teichoic acid lipoteichoic acids export-related membrane protein | S. hyicus | 0E+00 |
| 916 | 940332 | 941594 | 421 | 197.9 | + | 744781108 | NAD(FAD)-utilizing dehydrogenase | S. hyicus | 0E+00 |
| 917 | 941637 | 941948 | 104 | 57.6 | - | 744781107 | putative sulfurtransferase | S. hyicus | 6E-64 |
| 918 | 941971 | 944382 | 804 | 461.1 | - | 744781106 | leucyl-tRNA synthetase | S. hyicus | 0E+00 |
| 919 | 944743 | 945924 | 394 | 167.4 | - | 744781105 | MFS transporter | S. hyicus | 0E+00 |
| 920 | 946036 | 946995 | 320 | 131.4 | + | 744781104 | radical SAM protein | S. hyicus | 0E+00 |
| 921 | 946992 | 947555 | 188 | 65.4 | + | 744781103 | rRNA methyltransferase | S. hyicus | 4E-107 |
| 922 | 947653 | 948063 | 137 | 61 | - | 744781102 | HTH-type transcriptional regulator Rot | S. hyicus | 8E-86 |
| 923 | 948206 | 949159 | 318 | 222.4 | - | 744781101 | lactate dehydrogenase | S. hyicus | 0E+00 |
| 924 | 949288 | 950109 | 274 | 126.8 | - | 744781100 | lysophospholipase | S. hyicus | 0E+00 |
| 925 | 950245 | 950577 | 111 | 43.9 | - | 744781099 | hypothetical protein SHYC\_05810 | S. hyicus | 9E-62 |
| 926 | 950781 | 950894 | 38 | 0.8 | + |  | No Significant Match |  |  |
| 927 | 951112 | 952152 | 347 | 173.1 | + | 744781098 | proline dehydrogenase | S. hyicus | 0E+00 |
| 928 | 952250 | 952708 | 153 | 108.6 | - | 744781097 | 6,7-dimethyl-8-ribityllumazine synthase | S. hyicus | 2E-101 |
| 929 | 952720 | 953901 | 394 | 229.8 | - | 744781096 | 3,4-dihydroxy-2-butanone 4- phosphate synthase/GTP cyclohydrolase II | S. hyicus | 0E+00 |
| 930 | 953915 | 954544 | 210 | 102.9 | - | 744781095 | riboflavin synthase subunit alpha | S. hyicus | 2E-135 |
| 931 | 954549 | 955595 | 349 | 129.9 | - | 744781094 | diaminohydroxyphosphoribosylaminopyrimidine deaminase | S. hyicus | 0E+00 |
| 932 | 955981 | 957705 | 575 | 261.9 | - | 744781093 | pyridine nucleotide-disulfide oxidoreductase | S. hyicus | 0E+00 |
| 933 | 958012 | 958878 | 289 | 151.7 | - | 744781092 | glucosaminidase | S. hyicus | 0E+00 |
| 934 | 959042 | 959266 | 75 | 39.6 | - | 744781091 | hypothetical protein SHYC\_05765 | S. hyicus | 2E-43 |
| 935 | 959467 | 959928 | 154 | 21.9 | + | 744781090 | RNA polymerase sigma factor SigS | S. hyicus | 5E-64 |
| 936 | 959944 | 960378 | 145 | 21.1 | + | 744781089 | hypothetical protein SHYC\_05755 | S. hyicus | 5E-67 |
| 937 | 960361 | 960810 | 150 | 55.4 | - | 744781088 | membrane protein | S. hyicus | 2E-65 |
| 938 | 960904 | 961614 | 237 | 167 | - | 744781087 | transaldolase | S. hyicus | 3E-162 |
| 939 | 961768 | 962070 | 101 | 33 | + | 744781086 | membrane protein | S. hyicus | 1E-44 |
| 940 | 962091 | 962456 | 122 | 33.8 | + | 744781085 | CrcB-like protein | S. hyicus | 1E-48 |
| 941 | 962453 | 962818 | 122 | 22.1 | + | 744781084 | CrcB-like protein | S. hyicus | 3E-39 |
| 942 | 963003 | 963839 | 279 | 135.6 | - | 744781083 | oxidoreductase, aldo/keto reductase family | S. hyicus | 5E-154 |
| 943 | 964053 | 964961 | 303 | 145.8 | - | 744781082 | hypothetical protein SHYC\_05720 | S. hyicus | 0E+00 |
| 944 | 965050 | 966249 | 400 | 265.7 | - | 744781081 | S-adenosylmethionine synthetase | S. hyicus | 0E+00 |
| 945 | 966681 | 968261 | 527 | 295.7 | + | 744781080 | phosphoenolpyruvate carboxykinase | S. hyicus | 0E+00 |
| 946 | 968286 | 969071 | 262 | 116.2 | - | 744781079 | dipeptidyl aminopeptidase | S. hyicus | 3E-143 |
| 947 | 969052 | 969522 | 157 | 46.8 | - | 744781078 | nucleoside triphosphatase | S. hyicus | 5E-87 |
| 948 | 969585 | 969815 | 77 | 9.2 | + | 744781077 | putative membrane protein insertion efficiency factor | S. hyicus | 1E-46 |
| 949 | 969812 | 970801 | 330 | 156.1 | - | 744781076 | O-succinylbenzoic acid synthetase | S. hyicus | 1E-172 |
| 950 | 970798 | 972204 | 469 | 211.3 | - | 744781075 | 2-succinylbenzoate--CoA ligase | S. hyicus | 0E+00 |
| 951 | 972481 | 972774 | 98 | 64.7 | + | 744781074 | hypothetical protein SHYC\_05680 | S. hyicus | 5E-56 |
| 952 | 973281 | 973772 | 164 | 122.5 | - | 744781073 | alkaline shock protein 23 | S. hyicus | 6E-114 |
| 953 | 973810 | 974052 | 81 | 23.9 | - | 744781072 | membrane protein | S. hyicus | 5E-48 |
| 954 | 974073 | 974618 | 182 | 71.2 | - | 744781071 | hypothetical protein SHYC\_05665 | S. hyicus | 6E-111 |
| 955 | 975180 | 976034 | 285 | 105.7 | - | 744781070 | membrane protein | S. hyicus | 0E+00 |
| 956 | 976748 | 977593 | 282 | 94.8 | - | 744781069 | membrane protein | S. hyicus | 0E+00 |
| 957 | 978688 | 979131 | 148 | 69.1 | - |  | No Significant Match |  |  |
| 958 | 979121 | 979345 | 75 | 22 | - |  | No Significant Match |  |  |
| 959 | 979637 | 980374 | 246 | 65.2 | - | 746621664 | hypothetical protein, partial | S. hyicus | 1E-08 |
| 960 | 980956 | 982425 | 490 | 223.7 | - | P24556 | Autolysin | S. aureus | 2E-59 |
| 961 | 982427 | 982675 | 83 | 48.2 | - |  | No Significant Match |  |  |
| 962 | 982815 | 983159 | 115 | 36.8 | - |  | No Significant Match |  |  |
| 963 | 983208 | 983522 | 105 | 66.9 | - |  | No Significant Match |  |  |
| 964 | 983565 | 983714 | 50 | 31.5 | - |  | No Significant Match |  |  |
| 965 | 983724 | 987206 | 1161 | 557.2 | - |  | No Significant Match |  |  |
| 966 | 987208 | 988695 | 496 | 219.1 | - |  | No Significant Match |  |  |
| 967 | 988692 | 993503 | 1604 | 702.4 | - | E7DNB6 | Tape measure protein | Pneumococcus phage | 3E-81 |
| 968 | 993520 | 993663 | 48 | 1.5 | - |  | No Significant Match |  |  |
| 969 | 993723 | 994094 | 124 | 86.4 | - |  | No Significant Match |  |  |
| 970 | 994162 | 994341 | 60 | 31.4 | - |  | No Significant Match |  |  |
| 971 | 994359 | 994982 | 208 | 149.7 | - |  | No Significant Match |  |  |
| 972 | 994995 | 995390 | 132 | 47 | - |  | No Significant Match |  |  |
| 973 | 995411 | 995800 | 130 | 70.7 | - |  | No Significant Match |  |  |
| 974 | 995790 | 996158 | 123 | 37.8 | - |  | No Significant Match |  |  |
| 975 | 996142 | 996429 | 96 | 24.8 | - |  | No Significant Match |  |  |
| 976 | 996447 | 997646 | 400 | 246.7 | - |  | No Significant Match |  |  |
| 977 | 997658 | 998377 | 240 | 148.1 | - | Q6ME32 | ATP-dependent Clp protease proteolytic subunit 1 | Protochlamydia amoebophila | 5E-13 |
| 978 | 998334 | 999512 | 393 | 170 | - |  | No Significant Match |  |  |
| 979 | 999532 | 1001199 | 556 | 247.3 | - | P59217 | Putative terminase large subunit | Shigella phage | 2E-13 |
| 980 | 1001186 | 1001569 | 128 | 63.2 | - |  | No Significant Match |  |  |
| 981 | 1001706 | 1002434 | 243 | 62.5 | - |  | No Significant Match |  |  |
| 982 | 1002488 | 1002883 | 132 | 68.2 | - | Q7MZD8 | Antitoxin HicB 2 | Photorhabdus luminescens | 5E-05 |
| 983 | 1002918 | 1003103 | 62 | 25.6 | - |  | No Significant Match |  |  |
| 984 | 1003276 | 1003704 | 143 | 42.5 | - |  | No Significant Match |  |  |
| 985 | 1003722 | 1003832 | 37 | 10.1 | - |  | No Significant Match |  |  |
| 986 | 1004002 | 1004517 | 172 | 67.8 | - |  | No Significant Match |  |  |
| 987 | 1004696 | 1004791 | 32 | 4.7 | - |  | No Significant Match |  |  |
| 988 | 1004796 | 1004984 | 63 | 17.6 | - |  | No Significant Match |  |  |
| 989 | 1005035 | 1005337 | 101 | 50.4 | - | P51714 | Uncharacterized 18.2 kDa protein in rep-hol intergenic region | Haemophilus phage | 4E-10 |
| 990 | 1005338 | 1005697 | 120 | 63.1 | - | 746621824 | hypothetical protein, partial | S. hyicus | 1E-35 |
| 991 | 1005684 | 1006004 | 107 | 29.5 | - | 744780981 | hypothetical protein SHYC\_05135 | S. hyicus | 7E-18 |
| 992 | 1006001 | 1006396 | 132 | 56.5 | - | 744780979 | hypothetical protein SHYC\_05125 | S. hyicus | 1E-15 |
| 993 | 1006409 | 1006621 | 71 | 18.7 | - |  | No Significant Match |  |  |
| 994 | 1006618 | 1007109 | 164 | 80.4 | - | 744781020 | putative nucleoside 2-deoxyribosyltransferase | S. hyicus | 6E-24 |
| 995 | 1007106 | 1007336 | 77 | 35.7 | - |  | No Significant Match |  |  |
| 996 | 1007329 | 1007514 | 62 | 21.7 | - |  | No Significant Match |  |  |
| 997 | 1007511 | 1007933 | 141 | 49.5 | - |  | No Significant Match |  |  |
| 998 | 1007935 | 1008357 | 141 | 36.9 | - | P45911 | Uncharacterized protein YqaN | Bacillus subtilis | 4E-07 |
| 999 | 1008344 | 1008562 | 73 | 25 | - | 739689061 | hypothetical protein | S. pseudintermedius | 8E-32 |
| 1000 | 1008562 | 1009809 | 416 | 139.7 | - | P45256 | Replicative DNA helicase | Haemophilus influenzae | 4E-47 |
| 1001 | 1009796 | 1010146 | 117 | 41.4 | - |  | No Significant Match |  |  |
| 1002 | 1010146 | 1010871 | 242 | 108.4 | - |  | No Significant Match |  |  |
| 1003 | 1010858 | 1011541 | 228 | 40.5 | - |  | No Significant Match |  |  |
| 1004 | 1011556 | 1011954 | 133 | 74.8 | - | P59933 | Single-stranded DNA-binding protein | Wolinella succinogenes | 3E-19 |
| 1005 | 1011954 | 1012616 | 221 | 86.7 | - |  | No Significant Match |  |  |
| 1006 | 1012617 | 1013102 | 162 | 79.9 | - | 744781027 | hypothetical protein SHYC\_05375 | S. hyicus | 4E-09 |
| 1007 | 1013099 | 1013365 | 89 | 51.9 | - |  | No Significant Match |  |  |
| 1008 | 1013446 | 1013619 | 58 | 8.4 | - |  | No Significant Match |  |  |
| 1009 | 1013616 | 1013942 | 109 | 35.5 | - |  | No Significant Match |  |  |
| 1010 | 1013955 | 1014236 | 94 | 45.8 | - | 505961606 | hypothetical protein | S. epidermidis | 2E-10 |
| 1011 | 1014277 | 1014519 | 81 | 37.7 | - |  | No Significant Match |  |  |
| 1012 | 1014568 | 1014903 | 112 | 52.9 | + |  | No Significant Match |  |  |
| 1013 | 1014889 | 1015122 | 78 | 27.8 | - |  | No Significant Match |  |  |
| 1014 | 1015164 | 1015478 | 105 | 46.6 | - |  | No Significant Match |  |  |
| 1015 | 1015489 | 1016076 | 196 | 105.5 | - |  | No Significant Match |  |  |
| 1016 | 1016079 | 1017002 | 308 | 128.9 | - |  | No Significant Match |  |  |
| 1017 | 1017018 | 1017287 | 90 | 38.2 | - | O28646 | Uncharacterized HTH-type transcriptional regulator AF\_1627 | Archaeoglobus fulgidus | 2E-05 |
| 1018 | 1017422 | 1018126 | 235 | 111.9 | + | Q314F2 | LexA repressor | Desulfovibrio desulfuricans | 2E-07 |
| 1019 | 1018691 | 1018882 | 64 | 36.7 | + |  | No Significant Match |  |  |
| 1020 | 1018987 | 1019703 | 239 | 51.5 | + |  | No Significant Match |  |  |
| 1021 | 1019897 | 1020928 | 344 | 109.3 | + | P96629 | ICEBs1 integrase | Bacillus subtilis | 2E-10 |
| 1022 | 1022173 | 1022727 | 185 | 73.6 | - | 744781065 | putative hydrolase | S. hyicus | 1E-119 |
| 1023 | 1022810 | 1024213 | 468 | 213.9 | - | 744781064 | protoporphyrinogen oxidase | S. hyicus | 0E+00 |
| 1024 | 1024227 | 1025150 | 308 | 161.1 | - | 744781063 | ferrochelatase | S. hyicus | 0E+00 |
| 1025 | 1025173 | 1026216 | 348 | 175.7 | - | 744781062 | uroporphyrinogen decarboxylase | S. hyicus | 0E+00 |
| 1026 | 1026413 | 1026943 | 177 | 92.7 | + | 744781061 | signal transduction protein TRAP | S. hyicus | 9E-118 |
| 1027 | 1026991 | 1028205 | 405 | 127.1 | - | 744781060 | EcsB-related ABC transporter protein | S. hyicus | 0E+00 |
| 1028 | 1028202 | 1028939 | 246 | 119.3 | - | 744781059 | ABC transporter ATP-binding protein | S. hyicus | 3E-171 |
| 1029 | 1029071 | 1029499 | 143 | 78.9 | + | 744781058 | histidine triad (HIT) protein | S. hyicus | 3E-93 |
| 1030 | 1029579 | 1029935 | 119 | 68.1 | + | 744781057 | hypothetical protein SHYC\_05535 | S. hyicus | 2E-74 |
| 1031 | 1030035 | 1030565 | 177 | 81 | + | 744781056 | HTH-type transcriptional regulator Hpr | S. hyicus | 1E-127 |
| 1032 | 1030618 | 1031157 | 180 | 38.6 | + | 744781055 | hypothetical protein SHYC\_05525 | S. hyicus | 2E-106 |
| 1033 | 1031154 | 1031246 | 31 | 0.2 | + |  | No Significant Match |  |  |
| 1034 | 1031370 | 1032338 | 323 | 218.8 | + | 744781054 | foldase protein PrsA | S. hyicus | 0E+00 |
| 1035 | 1032499 | 1033440 | 314 | 167 | - | 744781053 | 3'-5' exonuclease YhaM | S. hyicus | 0E+00 |
| 1036 | 1033459 | 1036386 | 976 | 546.7 | - | 744781052 | hypothetical protein SHYC\_05510 | S. hyicus | 0E+00 |
| 1037 | 1036390 | 1037577 | 396 | 221.6 | - | 744781051 | DNA repair exonuclease | S. hyicus | 0E+00 |
| 1038 | 1037811 | 1038155 | 115 | 84.3 | - | 744781050 | putative regulatory protein | S. hyicus | 5E-73 |
| 1039 | 1038241 | 1039371 | 377 | 190.6 | - | 744781049 | membrane protein | S. hyicus | 0E+00 |
| 1040 | 1039524 | 1039988 | 155 | 66.7 | - | 744781048 | transcriptional regulator | S. hyicus | 1E-111 |
| 1041 | 1040379 | 1040621 | 81 | 18.8 | + | 744781047 | hypothetical protein SHYC\_05485 | S. hyicus | 3E-36 |
| 1042 | 1040761 | 1040979 | 73 | 11.2 | - | 744781605 | membrane protein | S. hyicus | 2E-13 |
| 1043 | 1041058 | 1041351 | 98 | 35.7 | - | 744781046 | hypothetical protein SHYC\_05475 | S. hyicus | 1E-22 |
| 1044 | 1041617 | 1043842 | 742 | 382.7 | - | 744781045 | fibronectin-binding protein | S. hyicus | 0E+00 |
| 1045 | 1044230 | 1044808 | 193 | 104.6 | - | 744781044 | thioredoxin family protein | S. hyicus | 3E-115 |
| 1046 | 1045034 | 1046764 | 577 | 291.2 | - | 744781771 | fibronectin-binding protein | S. hyicus | 9E-95 |
| 1047 | 1046704 | 1047462 | 253 | 98.7 | - | 744781771 | fibronectin-binding protein | S. hyicus | 8E-37 |
| 1048 | 1047428 | 1047739 | 104 | 38.9 | - | 744781498 | fibronectin-binding protein | S. hyicus | 2E-13 |
| 1049 | 1048309 | 1049595 | 429 | 231.7 | - | 744780916 | sodium:dicarboxylate symporter family protein | S. hyicus | 0E+00 |
| 1050 | 1049772 | 1050329 | 186 | 63.3 | - | 744780911 | signal peptidase IB | S. hyicus | 2E-104 |
| 1051 | 1050365 | 1050580 | 72 | 15.9 | - |  | No Significant Match |  |  |
| 1052 | 1050767 | 1052758 | 664 | 369.4 | - | 744780910 | hypothetical protein SHYC\_04765 | S. hyicus | 0E+00 |
| 1053 | 1053057 | 1053926 | 290 | 125.9 | + | 744780909 | cation efflux family protein | S. hyicus | 0E+00 |
| 1054 | 1054004 | 1057660 | 1219 | 655.4 | - | 746619106 | hypothetical protein | S. hyicus | 0E+00 |
| 1055 | 1058070 | 1058696 | 209 | 112.2 | - | 744780907 | response regulator protein | S. hyicus | 3E-137 |
| 1056 | 1058697 | 1059818 | 374 | 172.4 | - | 744780906 | signal transduction histidine kinase | S. hyicus | 0E+00 |
| 1057 | 1059998 | 1060828 | 277 | 163.1 | + | 744780905 | RluD subfamily ribosomal large subunit pseudouridine synthase | S. hyicus | 0E+00 |
| 1058 | 1060866 | 1063028 | 721 | 349.6 | - | 744780904 | polyphosphate kinase | S. hyicus | 0E+00 |
| 1059 | 1063123 | 1064649 | 509 | 268.3 | - | 744780903 | exopolyphosphatase | S. hyicus | 0E+00 |
| 1060 | 1064671 | 1066056 | 462 | 278.8 | - | 744780902 | fumarate hydratase | S. hyicus | 0E+00 |
| 1061 | 1066213 | 1066614 | 134 | 35.6 | - | 744780901 | membrane protein | S. hyicus | 2E-70 |
| 1062 | 1066773 | 1066928 | 52 | 6.4 | - | 744780900 | hypothetical protein SHYC\_04715 | S. hyicus | 3E-23 |
| 1063 | 1066947 | 1067546 | 200 | 132.3 | - | 744780899 | glucosamine-6-phosphate isomerase | S. hyicus | 1E-134 |
| 1064 | 1067564 | 1068733 | 390 | 221.1 | - | 744780898 | N-acetylglucosamine-6-phosphate deacetylase | S. hyicus | 0E+00 |
| 1065 | 1068748 | 1069218 | 157 | 89.6 | - | 744780897 | tRNA (cytidine(34)-2'-O)-methyltransferase | S. hyicus | 6E-113 |
| 1066 | 1069221 | 1070348 | 376 | 187.2 | - | 744780896 | epoxyqueuosine reductase | S. hyicus | 0E+00 |
| 1067 | 1070521 | 1071243 | 241 | 130.6 | - | 744780895 | glutamine ABC transporter ATP-binding protein | S. hyicus | 1E-153 |
| 1068 | 1071236 | 1072693 | 486 | 268.3 | - | 744780894 | amino acid ABC transporter substrate-binding/permease protein | S. hyicus | 0E+00 |
| 1069 | 1072811 | 1073869 | 353 | 152.5 | - | 744780893 | PfoR family protein | S. hyicus | 0E+00 |
| 1070 | 1082112 | 1082573 | 154 | 64.8 | - | 744780892 | peroxide-responsive repressor PerR | S. hyicus | 9E-109 |
| 1071 | 1082658 | 1083608 | 317 | 165.6 | - | 744780891 | 2-hydroxyacid dehydrogenase | S. hyicus | 1E-175 |
| 1072 | 1083614 | 1084072 | 153 | 88.6 | - | 744780890 | putative peroxiredoxin | S. hyicus | 6E-97 |
| 1073 | 1084153 | 1085454 | 434 | 279.3 | + | 744780889 | glutamate-1-semialdehyde-2,1-aminomutase | S. hyicus | 0E+00 |
| 1074 | 1085789 | 1086886 | 366 | 140.3 | + | 744780888 | membrane protein | S. hyicus | 0E+00 |
| 1075 | 1086991 | 1088571 | 527 | 263.5 | - | 744780887 | glutamate synthase domain protein | S. hyicus | 0E+00 |
| 1076 | 1088732 | 1090468 | 579 | 292.3 | - | 744780886 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1077 | 1090583 | 1091137 | 185 | 43.1 | - | 744780885 | RNAse G and E associated protein | S. hyicus | 8E-133 |
| 1078 | 1091185 | 1092237 | 351 | 133 | - | 744780884 | adenine glycosylase | S. hyicus | 0E+00 |
| 1079 | 1092326 | 1093303 | 326 | 132.8 | + | 744780883 | membrane bound metal dependent hydrolase | S. hyicus | 0E+00 |
| 1080 | 1093704 | 1094474 | 257 | 59.2 | - | 744780882 | teichoic acid translocation permease | S. hyicus | 1E-149 |
| 1081 | 1094483 | 1096009 | 509 | 242.2 | - | 744780881 | teichoic acid ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1082 | 1096024 | 1096335 | 104 | 50.7 | - | 744780880 | hypothetical protein SHYC\_04475 | S. hyicus | 2E-62 |
| 1083 | 1096325 | 1097131 | 269 | 133.9 | - | 744780879 | RecX family transcriptional regulator | S. hyicus | 1E-142 |
| 1084 | 1097221 | 1098027 | 269 | 125.3 | - | 744780878 | glycosyltransferase | S. hyicus | 2E-172 |
| 1085 | 1098195 | 1099940 | 582 | 303.8 | + | 744780877 | pyruvate oxidase | S. hyicus | 0E+00 |
| 1086 | 1100158 | 1100676 | 173 | 113.3 | - | 744780875 | PfpI family protein | S. hyicus | 5E-112 |
| 1087 | 1100744 | 1100905 | 54 | 30.5 | - | 744780874 | hypothetical protein SHYC\_04445 | S. hyicus | 5E-29 |
| 1088 | 1101017 | 1102150 | 378 | 133 | + | 744780873 | hypothetical protein SHYC\_04440 | S. hyicus | 0E+00 |
| 1089 | 1102292 | 1102810 | 173 | 86.2 | - | 744780872 | acyl-CoA hydrolase | S. hyicus | 2E-118 |
| 1090 | 1102823 | 1104058 | 412 | 232.9 | - | 744780871 | aminopeptidase PepS | S. hyicus | 0E+00 |
| 1091 | 1104075 | 1104284 | 70 | 41.1 | - | 744780870 | hypothetical protein SHYC\_04425 | S. hyicus | 1E-31 |
| 1092 | 1104417 | 1104875 | 153 | 63.6 | + | 744780869 | protein tyrosine phosphatase | S. hyicus | 1E-104 |
| 1093 | 1104883 | 1105158 | 92 | 51.5 | + | 744780868 | hypothetical protein SHYC\_04415 | S. hyicus | 2E-58 |
| 1094 | 1105274 | 1106545 | 424 | 199.3 | + | 744780867 | BrkB family protein | S. hyicus | 0E+00 |
| 1095 | 1106581 | 1107150 | 190 | 112.5 | + | 744780866 | carbonic anhydrase | S. hyicus | 1E-130 |
| 1096 | 1107216 | 1107845 | 210 | 129 | - | 744780865 | response regulator protein VraR | S. hyicus | 6E-145 |
| 1097 | 1107835 | 1108878 | 348 | 183.2 | - | 744780864 | sensor protein VraS | S. hyicus | 0E+00 |
| 1098 | 1108875 | 1109576 | 234 | 71.6 | - | 744780863 | hypothetical protein SHYC\_04390 | S. hyicus | 3E-162 |
| 1099 | 1109589 | 1109975 | 129 | 46 | - | 746619020 | hypothetical protein | S. hyicus | 1E-63 |
| 1100 | 1110074 | 1110832 | 253 | 161.9 | - | 744780861 | methionine aminopeptidase | S. hyicus | 2E-177 |
| 1101 | 1111061 | 1111378 | 106 | 0.4 | + |  | No Significant Match |  |  |
| 1102 | 1111498 | 1112529 | 344 | 143.7 | + | 744780860 | membrane protein | S. hyicus | 0E+00 |
| 1103 | 1112619 | 1113350 | 244 | 141.6 | - | 744780859 | CobB/CobQ-like glutamine amidotransferase | S. hyicus | 3E-169 |
| 1104 | 1113351 | 1114661 | 437 | 239.7 | - | 744780858 | UDP-N-acetylmuramate--alanine ligase | S. hyicus | 0E+00 |
| 1105 | 1114809 | 1115312 | 168 | 94.9 | + | 744780857 | ferritin | S. hyicus | 1E-106 |
| 1106 | 1115411 | 1115971 | 187 | 68 | + | 744780856 | DNA polymerase III subunit epsilon | S. hyicus | 4E-126 |
| 1107 | 1115966 | 1117036 | 357 | 166.4 | - | 744780855 | DNA polymerase IV | S. hyicus | 0E+00 |
| 1108 | 1117195 | 1117734 | 180 | 53.4 | - | 744780854 | hypothetical protein SHYC\_04345 | S. hyicus | 9E-94 |
| 1109 | 1117821 | 1119134 | 438 | 212.8 | - | 744780853 | carboxylesterase | S. hyicus | 0E+00 |
| 1110 | 1119147 | 1120517 | 457 | 204.2 | - | 744780852 | TrmA family RNA methyltransferase | S. hyicus | 0E+00 |
| 1111 | 1120613 | 1121545 | 311 | 191.8 | - | 744780851 | diacylglycerol kinase | S. hyicus | 0E+00 |
| 1112 | 1121786 | 1123213 | 476 | 327.6 | - | 744780850 | glutamyl-tRNA amidotransferase subunit B | S. hyicus | 0E+00 |
| 1113 | 1123227 | 1124687 | 487 | 314.5 | - | 744780849 | glutamyl-tRNA amidotransferase subunit A | S. hyicus | 0E+00 |
| 1114 | 1124690 | 1124992 | 101 | 72.9 | - | 744780848 | glutamyl-tRNA amidotransferase subunit C | S. hyicus | 3E-67 |
| 1115 | 1125390 | 1126934 | 515 | 278.4 | + | 744780847 | proline:sodium symporter PutP | S. hyicus | 0E+00 |
| 1116 | 1127079 | 1128275 | 399 | 232.5 | - | 744780846 | CamS precursor related lipoprotein | S. hyicus | 0E+00 |
| 1117 | 1128293 | 1130290 | 666 | 346.6 | - | 744780845 | NAD-dependent DNA ligase LigA | S. hyicus | 0E+00 |
| 1118 | 1130296 | 1132485 | 730 | 389.1 | - | 744780844 | ATP-dependent DNA helicase PcrA | S. hyicus | 0E+00 |
| 1119 | 1132485 | 1133174 | 230 | 114.3 | - | 744780843 | geranylgeranylglyceryl phosphate synthase | S. hyicus | 7E-152 |
| 1120 | 1133335 | 1133637 | 101 | 44.4 | - | 744780842 | Trp repressor family protein | S. hyicus | 2E-68 |
| 1121 | 1133708 | 1135003 | 432 | 257.8 | - | 744780841 | adenylosuccinate lyase | S. hyicus | 0E+00 |
| 1122 | 1135268 | 1135444 | 59 | 21.2 | - | 744780840 | NETI family protein | S. hyicus | 2E-29 |
| 1123 | 1135434 | 1136003 | 190 | 102.1 | - | 744780839 | membrane protein | S. hyicus | 2E-134 |
| 1124 | 1136070 | 1136897 | 276 | 174.7 | - | 744780838 | NAD synthetase | S. hyicus | 1E-177 |
| 1125 | 1136884 | 1138359 | 492 | 274.7 | - | 744780837 | nicotinate phosphoribosyltransferase | S. hyicus | 0E+00 |
| 1126 | 1138517 | 1139587 | 357 | 131.2 | + | 744780836 | nitric oxide synthase | S. hyicus | 0E+00 |
| 1127 | 1139632 | 1140426 | 265 | 126.4 | + | 744780835 | prephenate dehydratase | S. hyicus | 2E-164 |
| 1128 | 1140511 | 1141620 | 370 | 161.7 | - | 744780834 | hypothetical protein SHYC\_04245 | S. hyicus | 0E+00 |
| 1129 | 1141703 | 1142254 | 184 | 89.9 | + | 744780833 | isochorismatase family protein | S. hyicus | 9E-130 |
| 1130 | 1142317 | 1143240 | 308 | 203.9 | + | 744780832 | manganese-dependent inorganic pyrophosphatase | S. hyicus | 0E+00 |
| 1131 | 1143261 | 1143542 | 94 | 48 | + | 744780831 | GNAT family acetyltransferase | S. hyicus | 7E-52 |
| 1132 | 1143613 | 1144995 | 461 | 200.1 | + | 744780830 | aldehyde dehydrogenase | S. hyicus | 0E+00 |
| 1133 | 1145105 | 1146154 | 350 | 179.3 | - | 744780829 | 6-phosphogluconolactonase | S. hyicus | 0E+00 |
| 1134 | 1146221 | 1146796 | 192 | 76.6 | - | 744780828 | hypothetical protein SHYC\_04215 | S. hyicus | 4E-113 |
| 1135 | 1146915 | 1147088 | 58 | 32.8 | - | 744780827 | hypothetical protein SHYC\_04210 | S. hyicus | 4E-31 |
| 1136 | 1147261 | 1147641 | 127 | 58.5 | + | 744780826 | hypothetical protein SHYC\_04205 | S. hyicus | 2E-73 |
| 1137 | 1147909 | 1148949 | 347 | 136.3 | + | 744780825 | Ntn-choloylglycine hydrolase family protein | S. hyicus | 0E+00 |
| 1138 | 1149013 | 1149855 | 281 | 114.1 | - | 744780824 | hypothetical protein SHYC\_04195 | S. hyicus | 1E-163 |
| 1139 | 1149852 | 1150415 | 188 | 84.2 | - | 744780823 | hypothetical protein SHYC\_04190 | S. hyicus | 8E-109 |
| 1140 | 1150599 | 1151150 | 184 | 89.8 | + | 744780822 | thioredoxin-like protein | S. hyicus | 2E-118 |
| 1141 | 1151200 | 1151610 | 137 | 75.8 | - | 744780821 | hypothetical protein SHYC\_04180 | S. hyicus | 2E-73 |
| 1142 | 1151661 | 1153022 | 454 | 200.8 | - | 744780820 | gluconate permease | S. hyicus | 0E+00 |
| 1143 | 1153012 | 1154583 | 524 | 214.2 | - | 744780819 | gluconate kinase | S. hyicus | 0E+00 |
| 1144 | 1154583 | 1155263 | 227 | 85.3 | - | 744780818 | gluconate operon transcriptional repressor | S. hyicus | 6E-145 |
| 1145 | 1155470 | 1156198 | 243 | 98.6 | - | 744780817 | membrane protein | S. hyicus | 2E-145 |
| 1146 | 1156195 | 1157070 | 292 | 141.3 | - | 744780816 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1147 | 1157638 | 1157814 | 59 | 10.4 | - | 744780815 | membrane protein | S. hyicus | 3E-27 |
| 1148 | 1157974 | 1159263 | 430 | 206.6 | + | 744780814 | aspartate aminotransferase | S. hyicus | 0E+00 |
| 1149 | 1159347 | 1160162 | 272 | 105.3 | + | 744780813 | DNA photolyase | S. hyicus | 3E-171 |
| 1150 | 1160177 | 1160701 | 175 | 76.6 | + | 744780812 | methylated-DNA--protein-cysteine methyltransferase | S. hyicus | 5E-68 |
| 1151 | 1160817 | 1161257 | 147 | 64.8 | - | 744780811 | ASC domain protein | S. hyicus | 5E-61 |
| 1152 | 1161264 | 1161368 | 35 | 2 | - |  | No Significant Match |  |  |
| 1153 | 1161694 | 1162203 | 170 | 68.1 | + | P0AAA1 | Inner membrane protein YagU | Escherichia coli | 3E-18 |
| 1154 | 1162666 | 1162899 | 78 | 47 | - | 686412286 | hypothetical protein | S. aureus | 3E-42 |
| 1155 | 1162989 | 1163297 | 103 | 37.5 | - |  | No Significant Match |  |  |
| 1156 | 1163684 | 1165327 | 548 | 202.6 | - | P59217 | Putative terminase large subunit | Shigella phage | 1E-56 |
| 1157 | 1165320 | 1165640 | 107 | 46.5 | - |  | No Significant Match |  |  |
| 1158 | 1165780 | 1166070 | 97 | 0.3 | - |  | No Significant Match |  |  |
| 1159 | 1166063 | 1166344 | 94 | 25.5 | - |  | No Significant Match |  |  |
| 1160 | 1166404 | 1167633 | 410 | 249.6 | - |  | No Significant Match |  |  |
| 1161 | 1167635 | 1168201 | 189 | 83.4 | - | P49860 | Putative prohead protease | Enterobacteria phage | 6E-07 |
| 1162 | 1168188 | 1169432 | 415 | 120.3 | - | P49859 | Portal protein | Enterobacteria phage | 5E-06 |
| 1163 | 1169480 | 1169812 | 111 | 37.1 | - |  | No Significant Match |  |  |
| 1164 | 1170123 | 1171571 | 483 | 168.8 | - | Q196T9 | Putative helicase 121R | Invertebrate iridescent | 3E-08 |
| 1165 | 1171564 | 1172466 | 301 | 83.5 | - |  | No Significant Match |  |  |
| 1166 | 1172498 | 1172794 | 99 | 49.1 | - |  | No Significant Match |  |  |
| 1167 | 1172794 | 1173207 | 138 | 75.6 | - |  | No Significant Match |  |  |
| 1168 | 1173209 | 1173412 | 68 | 29.3 | - |  | No Significant Match |  |  |
| 1169 | 1173409 | 1173714 | 102 | 40.9 | - |  | No Significant Match |  |  |
| 1170 | 1173715 | 1174344 | 210 | 101.7 | - | P44189 | Uncharacterized protein HI\_1418 | Haemophilus influenzae | 2E-11 |
| 1171 | 1174348 | 1174566 | 73 | 26.8 | - | Q58564 | Putative HTH-type transcriptional regulatory protein MJ1164 | Methanocaldococcus jannaschii | 1E-05 |
| 1172 | 1174662 | 1175249 | 196 | 83.6 | + |  | No Significant Match |  |  |
| 1173 | 1175259 | 1176428 | 390 | 151.4 | + | P20709 | Integrase | S. phage L54a | 6E-29 |
| 1174 | 1176497 | 1178116 | 540 | 424.5 | - | 744780809 | molecular chaperone GroEL | S. hyicus | 0E+00 |
| 1175 | 1178181 | 1178468 | 96 | 70.9 | - | 744780808 | molecular chaperone GroES | S. hyicus | 6E-54 |
| 1176 | 1178639 | 1179391 | 251 | 94.9 | + | 744780807 | metal-dependent membrane protease | S. hyicus | 1E-155 |
| 1177 | 1179472 | 1180635 | 388 | 119.9 | - | 744780806 | hypothetical protein SHYC\_04105 | S. hyicus | 1E-143 |
| 1178 | 1180806 | 1181603 | 266 | 115.3 | + | 744780805 | hydrolase | S. hyicus | 2E-159 |
| 1179 | 1182251 | 1182814 | 188 | 51.1 | + | 744780803 | accessory regulator protein B | S. hyicus | 4E-117 |
| 1180 | 1182817 | 1182951 | 45 | 6.9 | + | 744780802 | accessory gene regulator AgrD | S. hyicus | 1E-19 |
| 1181 | 1182981 | 1184279 | 433 | 142.4 | + | 744780801 | accessory gene regulator protein C | S. hyicus | 0E+00 |
| 1182 | 1184293 | 1185015 | 241 | 93.8 | + | 744780800 | accessory gene regulator protein A | S. hyicus | 1E-174 |
| 1183 | 1185082 | 1186572 | 497 | 235.4 | - | 744780799 | sucrose-6-phosphate hydrolase | S. hyicus | 0E+00 |
| 1184 | 1186925 | 1187152 | 76 | 48.5 | - | 744780798 | hypothetical protein SHYC\_04065 | S. hyicus | 3E-47 |
| 1185 | 1187175 | 1188260 | 362 | 161.7 | - | 744780797 | membrane protein | S. hyicus | 0E+00 |
| 1186 | 1188443 | 1189078 | 212 | 127 | - | 744780796 | redox-sensing transcriptional repressor Rex | S. hyicus | 5E-148 |
| 1187 | 1189354 | 1191294 | 647 | 342.9 | + | 744780795 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1188 | 1191639 | 1193270 | 544 | 207.2 | + | 746621774 | DNA mismatch repair protein MutS, partial | S. hyicus | 0E+00 |
| 1189 | 1193287 | 1194309 | 341 | 177 | - | 744780794 | tRNA N6-adenosine threonylcarbamoyltransferase | S. hyicus | 0E+00 |
| 1190 | 1194306 | 1194770 | 155 | 74.1 | - | 744780793 | ribosomal-protein-alanine acetyltransferase | S. hyicus | 1E-90 |
| 1191 | 1194740 | 1195405 | 222 | 94.2 | - | 744780792 | tRNA threonylcarbamoyladenosine biosynthesis protein TsaB | S. hyicus | 5E-120 |
| 1192 | 1195398 | 1195847 | 150 | 77.2 | - | 744780791 | ATPase | S. hyicus | 8E-94 |
| 1193 | 1196275 | 1197963 | 563 | 322.5 | + | 744780790 | dihydroxy-acid dehydratase | S. hyicus | 0E+00 |
| 1194 | 1197981 | 1199735 | 585 | 314.3 | + | 744780789 | acetolactate synthase catalytic subunit | S. hyicus | 0E+00 |
| 1195 | 1199732 | 1200205 | 158 | 83.4 | + | 744780788 | acetolactate synthase small subunit | S. hyicus | 5E-93 |
| 1196 | 1200240 | 1201244 | 335 | 211.9 | + | 744780787 | ketol-acid reductoisomerase | S. hyicus | 0E+00 |
| 1197 | 1201272 | 1202807 | 512 | 270.2 | + | 744780786 | 2-isopropylmalate synthase | S. hyicus | 0E+00 |
| 1198 | 1202800 | 1203849 | 350 | 149.3 | + | 744780785 | 3-isopropylmalate dehydrogenase | S. hyicus | 0E+00 |
| 1199 | 1203852 | 1205228 | 459 | 250.7 | + | 744780784 | 3-isopropylmalate dehydratase large subunit | S. hyicus | 0E+00 |
| 1200 | 1205225 | 1205806 | 194 | 80.6 | + | 744780783 | isopropylmalate isomerase | S. hyicus | 6E-117 |
| 1201 | 1205812 | 1207080 | 423 | 200.2 | + | 744780782 | threonine dehydratase | S. hyicus | 0E+00 |
| 1202 | 1213374 | 1215539 | 722 | 383.5 | - | 744780780 | S1 RNA-binding domain-containing transcription accessory protein | S. hyicus | 0E+00 |
| 1203 | 1215761 | 1216531 | 257 | 159.6 | - | 744780779 | RNA polymerase sigma factor SigB | S. hyicus | 0E+00 |
| 1204 | 1216506 | 1216985 | 160 | 91.1 | - | 744780778 | serine-protein kinase RsbW | S. hyicus | 1E-110 |
| 1205 | 1216988 | 1217314 | 109 | 59.5 | - | 744780777 | anti-sigma-B factor antagonist | S. hyicus | 7E-71 |
| 1206 | 1217395 | 1218399 | 335 | 155.2 | - | 744780776 | phosphoserine phosphatase RsbU | S. hyicus | 0E+00 |
| 1207 | 1218459 | 1218812 | 118 | 57.5 | - | 744780775 | mRNA interferase MazF | S. hyicus | 2E-79 |
| 1208 | 1218813 | 1218983 | 57 | 18.7 | - | 744780774 | antitoxin MazE | S. hyicus | 8E-32 |
| 1209 | 1219068 | 1220216 | 383 | 162 | - | 744780773 | alanine racemase | S. hyicus | 0E+00 |
| 1210 | 1220322 | 1220672 | 117 | 69.7 | - | 744780772 | 4'-phosphopantetheinyl transferase | S. hyicus | 1E-73 |
| 1211 | 1220744 | 1221250 | 169 | 54.2 | - | 744780771 | membrane protein | S. hyicus | 3E-85 |
| 1212 | 1221234 | 1222721 | 496 | 170.5 | - | 744780770 | hypothetical protein SHYC\_03895 | S. hyicus | 0E+00 |
| 1213 | 1222714 | 1223190 | 159 | 46.6 | - | 744780769 | hypothetical protein SHYC\_03890 | S. hyicus | 7E-81 |
| 1214 | 1223674 | 1225161 | 496 | 306.8 | - | 744780768 | RNA helicase | S. hyicus | 0E+00 |
| 1215 | 1225469 | 1226839 | 457 | 251.1 | - | 744780767 | UDP-N-acetylmuramoylalanyl-D-glutamyl-2, 6-diaminopimelate--D-alanyl-D-alanine ligase | S. hyicus | 0E+00 |
| 1216 | 1226851 | 1227921 | 357 | 202.8 | - | 744780766 | D-alanine--D-alanine ligase | S. hyicus | 0E+00 |
| 1217 | 1228086 | 1229285 | 400 | 146.2 | + | 744780765 | cell division protein FtsW | S. hyicus | 0E+00 |
| 1218 | 1229440 | 1229595 | 52 | 2.9 | - | 744780764 | hypothetical protein SHYC\_03865 | S. hyicus | 2E-29 |
| 1219 | 1229665 | 1231845 | 727 | 382.4 | - | 744780763 | copper-exporting P-type ATPase A | S. hyicus | 0E+00 |
| 1220 | 1231970 | 1232173 | 68 | 50 | - | 744780762 | copper chaperone CopZ | S. hyicus | 1E-37 |
| 1221 | 1232166 | 1232399 | 78 | 44.6 | - | 744780761 | hypothetical protein SHYC\_03850 | S. hyicus | 4E-32 |
| 1222 | 1232412 | 1232699 | 96 | 42.9 | - | 744780760 | copper-sensing transcriptional repressor CsoR | S. hyicus | 6E-62 |
| 1223 | 1232835 | 1234325 | 497 | 199.8 | + | 744780759 | cardiolipin synthase | S. hyicus | 0E+00 |
| 1224 | 1234338 | 1234970 | 211 | 98.2 | + | 744780758 | HD superfamily hydrolase | S. hyicus | 2E-118 |
| 1225 | 1235018 | 1235884 | 289 | 120.9 | - | 744780757 | preprotein translocase subunit YidC | S. hyicus | 8E-168 |
| 1226 | 1235973 | 1236611 | 213 | 97.5 | - | 744780756 | thiamine-phosphate pyrophosphorylase | S. hyicus | 3E-139 |
| 1227 | 1236608 | 1237405 | 266 | 135.6 | - | 744780755 | hydroxyethylthiazole kinase | S. hyicus | 2E-167 |
| 1228 | 1237407 | 1238213 | 269 | 133.9 | - | 744780754 | phosphomethylpyrimidine kinase | S. hyicus | 2E-174 |
| 1229 | 1238206 | 1238895 | 230 | 122.2 | - | 744780753 | thiaminase | S. hyicus | 5E-135 |
| 1230 | 1239145 | 1239888 | 248 | 157.3 | - | 744780752 | hypothetical protein SHYC\_03805 | S. hyicus | 1E-162 |
| 1231 | 1240502 | 1240864 | 121 | 6.3 | - | 744780751 | single-stranded DNA-binding protein | S. hyicus | 1E-55 |
| 1232 | 1241054 | 1241494 | 147 | 81.8 | + | 744780750 | YwpF family protein | S. hyicus | 2E-99 |
| 1233 | 1241726 | 1242166 | 147 | 84.6 | - | 744780749 | 3-hydroxyacyl-ACP dehydratase | S. hyicus | 9E-101 |
| 1234 | 1242356 | 1243627 | 424 | 282.6 | - | 744780747 | UDP-N-acetylglucosamine 1-carboxyvinyltransferase | S. hyicus | 0E+00 |
| 1235 | 1243710 | 1243943 | 78 | 13.3 | - | 744780746 | membrane protein | S. hyicus | 2E-44 |
| 1236 | 1244194 | 1244598 | 135 | 94.7 | - | 744780745 | F0F1 ATP synthase subunit epsilon | S. hyicus | 2E-93 |
| 1237 | 1244620 | 1246032 | 471 | 345.9 | - | 744780744 | F0F1 ATP synthase subunit beta | S. hyicus | 0E+00 |
| 1238 | 1246057 | 1246923 | 289 | 149.5 | - | 744780743 | F0F1 ATP synthase subunit gamma | S. hyicus | 0E+00 |
| 1239 | 1246958 | 1248466 | 503 | 342.7 | - | 744780742 | F0F1 ATP synthase subunit alpha | S. hyicus | 0E+00 |
| 1240 | 1248494 | 1249033 | 180 | 87.6 | - | 744780741 | F0F1 ATP synthase subunit delta | S. hyicus | 4E-120 |
| 1241 | 1249033 | 1249551 | 173 | 108.6 | - | 744780740 | F0F1 ATP synthase subunit B | S. hyicus | 4E-121 |
| 1242 | 1249849 | 1250061 | 71 | 55 | - | 744780739 | F0F1 ATP synthase subunit C | S. hyicus | 6E-39 |
| 1243 | 1250101 | 1250820 | 240 | 92.1 | - | 744780738 | F0F1 ATP synthase subunit A | S. hyicus | 9E-171 |
| 1244 | 1250839 | 1251204 | 122 | 15.6 | - | 744780737 | ATP synthase I chain | S. hyicus | 3E-79 |
| 1245 | 1251363 | 1252502 | 380 | 219.3 | - | 744780736 | UDP-N-acetylglucosamine 2-epimerase | S. hyicus | 0E+00 |
| 1246 | 1252529 | 1253158 | 210 | 152.2 | - | 744780735 | uracil phosphoribosyltransferase | S. hyicus | 3E-149 |
| 1247 | 1253181 | 1254422 | 414 | 246.9 | - | 744780734 | serine hydroxymethyltransferase | S. hyicus | 0E+00 |
| 1248 | 1254445 | 1254972 | 176 | 98.1 | - | 744780733 | hypothetical protein SHYC\_03710 | S. hyicus | 2E-117 |
| 1249 | 1255099 | 1255518 | 140 | 65.4 | - | 744780732 | low molecular weight protein-tyrosine-phosphatase PtpB | S. hyicus | 4E-76 |
| 1250 | 1255515 | 1256567 | 351 | 161.7 | - | 744780731 | Sua5/YciO/YrdC/YwlC family protein | S. hyicus | 0E+00 |
| 1251 | 1256651 | 1257493 | 281 | 126 | - | 744780730 | release factor-specific (glutamine-N5) methyltransferase | S. hyicus | 1E-137 |
| 1252 | 1257483 | 1258559 | 359 | 241.4 | - | 744780729 | peptide chain release factor 1 | S. hyicus | 0E+00 |
| 1253 | 1258559 | 1259161 | 201 | 104.8 | - | 744780728 | thymidine kinase | S. hyicus | 2E-146 |
| 1254 | 1259334 | 1259588 | 85 | 40.7 | - | 744780727 | 50S ribosomal protein L31 type B | S. hyicus | 2E-57 |
| 1255 | 1259710 | 1261026 | 439 | 227.9 | - | 744780726 | transcription termination factor Rho | S. hyicus | 0E+00 |
| 1256 | 1261205 | 1262632 | 476 | 320.4 | - | 744780725 | aldehyde dehydrogenase | S. hyicus | 0E+00 |
| 1257 | 1262816 | 1263142 | 109 | 55.8 | - | 744780724 | transcriptional regulator | S. hyicus | 4E-69 |
| 1258 | 1263188 | 1264453 | 422 | 254 | - | 744780723 | UDP-N-acetylglucosamine 1-carboxyvinyltransferase | S. hyicus | 0E+00 |
| 1259 | 1264779 | 1265651 | 291 | 197.2 | - | 744780722 | fructose-bisphosphate aldolase | S. hyicus | 0E+00 |
| 1260 | 1265867 | 1266388 | 174 | 84.2 | + | 744780721 | hypothetical protein SHYC\_03650 | S. hyicus | 2E-111 |
| 1261 | 1266577 | 1268184 | 536 | 337.8 | - | 744780720 | CTP synthetase | S. hyicus | 0E+00 |
| 1262 | 1268533 | 1269063 | 177 | 135 | - | 744780719 | DNA-directed RNA polymerase subunit delta | S. hyicus | 4E-87 |
| 1263 | 1269219 | 1270079 | 287 | 137.3 | - | 744780718 | acetyltransferase | S. hyicus | 0E+00 |
| 1264 | 1270168 | 1271766 | 533 | 194.7 | + | 744780717 | betaine/carnitine/choline transporter (BCCT) family transporter | S. hyicus | 0E+00 |
| 1265 | 1271878 | 1272246 | 123 | 59.2 | - | 744780716 | hypothetical protein SHYC\_03625 | S. hyicus | 2E-72 |
| 1266 | 1272354 | 1273151 | 266 | 156 | + | 744780715 | pantothenate kinase | S. hyicus | 1E-171 |
| 1267 | 1273233 | 1273904 | 224 | 124.4 | - | 744780714 | hypothetical protein SHYC\_03615 | S. hyicus | 2E-159 |
| 1268 | 1274060 | 1275241 | 394 | 222.8 | - | 744780713 | hypothetical protein SHYC\_03610 | S. hyicus | 0E+00 |
| 1269 | 1275242 | 1276426 | 395 | 208.2 | - | 744780712 | amidohydrolase | S. hyicus | 0E+00 |
| 1270 | 1276858 | 1277328 | 157 | 92.9 | + | 744780711 | S-ribosylhomocysteinase | S. hyicus | 3E-107 |
| 1271 | 1277713 | 1278066 | 118 | 29 | - | 744780710 | membrane protein | S. hyicus | 1E-60 |
| 1272 | 1278076 | 1279377 | 434 | 323.1 | - | 744780709 | pyrimidine-nucleoside phosphorylase | S. hyicus | 0E+00 |
| 1273 | 1279583 | 1280293 | 237 | 156.6 | + | 744780708 | purine nucleoside phosphorylase | S. hyicus | 9E-175 |
| 1274 | 1280421 | 1280846 | 142 | 39 | - | 744780707 | hypothetical protein SHYC\_03580 | S. hyicus | 3E-92 |
| 1275 | 1280959 | 1282386 | 476 | 212.9 | - | 744780706 | Na+/H+ antiporter NhaC | S. hyicus | 0E+00 |
| 1276 | 1282745 | 1284115 | 457 | 259.8 | - | 744780705 | hypothetical protein SHYC\_03570 | S. hyicus | 0E+00 |
| 1277 | 1284160 | 1284402 | 81 | 29.7 | - | 744780704 | membrane protein | S. hyicus | 2E-40 |
| 1278 | 1284418 | 1285356 | 313 | 167.4 | - | 744780703 | mannose-6-phosphate isomerase | S. hyicus | 0E+00 |
| 1279 | 1285520 | 1286218 | 233 | 126 | - | 744780702 | transcriptional regulator | S. hyicus | 5E-157 |
| 1280 | 1286436 | 1287323 | 296 | 83.8 | + | 744780701 | hypothetical protein SHYC\_03550 | S. hyicus | 2E-109 |
| 1281 | 1287399 | 1288250 | 284 | 131.5 | - | 744780700 | HAD family hydrolase | S. hyicus | 0E+00 |
| 1282 | 1288330 | 1289109 | 260 | 117.1 | - | 744780699 | ABC transporter ATP-binding protein | S. hyicus | 6E-175 |
| 1283 | 1289214 | 1291016 | 601 | 407.9 | - | 744780698 | glucosamine--fructose-6-phosphate aminotransferase | S. hyicus | 0E+00 |
| 1284 | 1291551 | 1292900 | 450 | 316.1 | - | 744780697 | phosphoglucosamine mutase | S. hyicus | 0E+00 |
| 1285 | 1292927 | 1293859 | 311 | 163.4 | - | 744780696 | hypothetical protein SHYC\_03525 | S. hyicus | 0E+00 |
| 1286 | 1293860 | 1294666 | 269 | 147.4 | - | 744780695 | DisA domain protein | S. hyicus | 0E+00 |
| 1287 | 1294830 | 1295735 | 302 | 184.3 | - | 744780694 | arginase | S. hyicus | 0E+00 |
| 1288 | 1302329 | 1303393 | 355 | 225.2 | - | 744780693 | ATP-binding protein | S. hyicus | 0E+00 |
| 1289 | 1303496 | 1304926 | 477 | 185.2 | - | 744780692 | MFS transporter | S. hyicus | 0E+00 |
| 1290 | 1305266 | 1305733 | 156 | 39 | - | 744780691 | hypothetical protein SHYC\_03455 | S. hyicus | 4E-101 |
| 1291 | 1305778 | 1307097 | 440 | 131 | - | 744780690 | MFS transporter | S. hyicus | 0E+00 |
| 1292 | 1307198 | 1307395 | 66 | 10.6 | - | 744780689 | hypothetical protein SHYC\_03447 | S. hyicus | 5E-17 |
| 1293 | 1307408 | 1308094 | 229 | 69.3 | - | 744780688 | hemolysin III family protein | S. hyicus | 3E-152 |
| 1294 | 1308105 | 1309295 | 397 | 234.3 | - | 744780687 | putative UDP-N-acetylglucosamine pyrophosphorylase | S. hyicus | 0E+00 |
| 1295 | 1309345 | 1309848 | 168 | 51.3 | - | 744780686 | membrane protein | S. hyicus | 1E-105 |
| 1296 | 1310036 | 1310296 | 87 | 40.1 | + | 744780685 | hypothetical protein SHYC\_03430 | S. hyicus | 2E-55 |
| 1297 | 1310439 | 1311401 | 321 | 144.6 | - | 744780684 | iron compound ABC transporter permease | S. hyicus | 0E+00 |
| 1298 | 1311398 | 1312423 | 342 | 135.8 | - | 744780683 | iron compound ABC transporter permease | S. hyicus | 0E+00 |
| 1299 | 1312478 | 1313464 | 329 | 213.9 | - | 744780682 | iron compound ABC transporter substrate-binding protein | S. hyicus | 0E+00 |
| 1300 | 1313530 | 1314600 | 357 | 171.2 | - | 744780681 | amino acid racemase | S. hyicus | 0E+00 |
| 1301 | 1314604 | 1316367 | 588 | 252.9 | - | 744780680 | siderophore synthetase component | S. hyicus | 0E+00 |
| 1302 | 1316354 | 1317535 | 394 | 90.7 | - | 744780679 | major facilitator family transporter | S. hyicus | 0E+00 |
| 1303 | 1317637 | 1319583 | 649 | 235.1 | + | 744780678 | IucA/IucC family siderophore biosynthesis protein | S. hyicus | 0E+00 |
| 1304 | 1319821 | 1320969 | 383 | 166.3 | + | 744780677 | major facilitator family transporter | S. hyicus | 0E+00 |
| 1305 | 1321138 | 1322664 | 509 | 191.6 | - | 744780676 | betaine/carnitine/choline transporter (BCCT) family transporter | S. hyicus | 0E+00 |
| 1306 | 1322736 | 1323743 | 336 | 164.1 | - | 744780675 | zinc-binding alcohol dehydrogenase family protein | S. hyicus | 0E+00 |
| 1307 | 1323911 | 1325314 | 468 | 278.5 | - | 744780674 | 6-phospho-beta-galactosidase | S. hyicus | 0E+00 |
| 1308 | 1325330 | 1327057 | 576 | 334.4 | - | 744780673 | PTS system lactose-specific transporter subunits IICB | S. hyicus | 0E+00 |
| 1309 | 1327063 | 1327377 | 105 | 79.9 | - | 744780672 | PTS system lactose-specific transporter subunit IIA | S. hyicus | 9E-70 |
| 1310 | 1327417 | 1328382 | 322 | 225.1 | - | 744780671 | tagatose-bisphosphate aldolase | S. hyicus | 0E+00 |
| 1311 | 1328489 | 1329004 | 172 | 110.6 | - | 744780670 | galactose-6-phosphate isomerase subunit LacB | S. hyicus | 5E-121 |
| 1312 | 1329020 | 1329448 | 143 | 80 | - | 744780669 | galactose-6-phosphate isomerase subunit LacA | S. hyicus | 2E-97 |
| 1313 | 1329721 | 1330473 | 251 | 104.9 | - | 744780668 | lactose phosphotransferase system repressor | S. hyicus | 2E-173 |
| 1314 | 1330655 | 1331233 | 193 | 101.4 | - | 744780667 | hypothetical protein SHYC\_03340 | S. hyicus | 3E-115 |
| 1315 | 1331505 | 1332200 | 232 | 107.8 | - | 744780666 | hydrolase | S. hyicus | 3E-139 |
| 1316 | 1332308 | 1332934 | 209 | 91 | - | Q8GXU8 | 1-acyl-sn-glycerol-3-phosphate acyltransferase 1, chloroplastic | Arabidopsis thaliana | 2E-09 |
| 1317 | 1332952 | 1333890 | 313 | 113 | - | P76091 | Uncharacterized protein YnbB | Escherichia coli | 6E-77 |
| 1318 | 1333877 | 1334494 | 206 | 90.7 | - | P76090 | Inner membrane protein YnbA | Escherichia coli | 4E-36 |
| 1319 | 1334610 | 1335146 | 179 | 59.3 | + |  | No Significant Match |  |  |
| 1320 | 1335302 | 1336063 | 254 | 111.3 | + | 744780665 | SAM-dependent methyltransferase | S. hyicus | 2E-178 |
| 1321 | 1336134 | 1336862 | 243 | 97.4 | - | 744780664 | MerR family transcriptional regulator | S. hyicus | 3E-159 |
| 1322 | 1336841 | 1337746 | 302 | 118.5 | - | 744780663 | metallopeptidase | S. hyicus | 0E+00 |
| 1323 | 1337904 | 1338302 | 133 | 89.5 | - | 744780662 | 30S ribosomal protein S9 | S. hyicus | 1E-89 |
| 1324 | 1338316 | 1338753 | 146 | 87.4 | - | 744780661 | 50S ribosomal protein L13 | S. hyicus | 1E-104 |
| 1325 | 1338942 | 1339772 | 277 | 99.1 | - | 744780660 | tRNA pseudouridine synthase A | S. hyicus | 0E+00 |
| 1326 | 1339787 | 1340590 | 268 | 68.8 | - | 744780659 | cobalt ABC transporter permease | S. hyicus | 2E-163 |
| 1327 | 1340580 | 1341446 | 289 | 136.2 | - | 746618707 | ATP-binding protein | S. hyicus | 0E+00 |
| 1328 | 1341443 | 1342246 | 268 | 151.2 | - | 744780657 | cobalt transporter ATP-binding subunit | S. hyicus | 4E-177 |
| 1329 | 1342639 | 1343007 | 123 | 96.7 | - | 744780656 | 50S ribosomal protein L17 | S. hyicus | 3E-80 |
| 1330 | 1343024 | 1343968 | 315 | 206.3 | - | 744780655 | DNA-directed RNA polymerase subunit alpha | S. hyicus | 0E+00 |
| 1331 | 1344052 | 1344441 | 130 | 82.2 | - | 744780654 | 30S ribosomal protein S11 | S. hyicus | 1E-89 |
| 1332 | 1344466 | 1344831 | 122 | 83.1 | - | 744780653 | 30S ribosomal protein S13 | S. hyicus | 3E-80 |
| 1333 | 1344854 | 1344967 | 38 | 10.1 | - | Q18CI1 | 50S ribosomal protein L36 | Clostridium difficile | 2E-17 |
| 1334 | 1345000 | 1345218 | 73 | 50.7 | - | Q49ZE6 | Translation initiation factor IF-1 | S. saprophyticus | 1E-46 |
| 1335 | 1345386 | 1346036 | 217 | 141.9 | - | 744780650 | adenylate kinase | S. hyicus | 1E-154 |
| 1336 | 1346054 | 1347346 | 431 | 223.7 | - | 744780649 | preprotein translocase subunit SecY | S. hyicus | 0E+00 |
| 1337 | 1347346 | 1347786 | 147 | 113.5 | - | 744780648 | 50S ribosomal protein L15 | S. hyicus | 4E-99 |
| 1338 | 1347803 | 1347982 | 60 | 40.1 | - | 744780647 | 50S ribosomal protein L30 | S. hyicus | 4E-34 |
| 1339 | 1348000 | 1348500 | 167 | 130.5 | - | 744780646 | 30S ribosomal protein S5 | S. hyicus | 1E-113 |
| 1340 | 1348522 | 1348881 | 120 | 69.2 | - | 744780645 | 50S ribosomal protein L18 | S. hyicus | 4E-80 |
| 1341 | 1348912 | 1349448 | 179 | 131.8 | - | 744780644 | 50S ribosomal protein L6 | S. hyicus | 2E-123 |
| 1342 | 1349478 | 1349876 | 133 | 97.8 | - | 744780643 | 30S ribosomal protein S8 | S. hyicus | 3E-90 |
| 1343 | 1349908 | 1350093 | 62 | 17.7 | - | 744780642 | 30S ribosomal protein S14 | S. hyicus | 1E-37 |
| 1344 | 1350115 | 1350654 | 180 | 110.4 | - | 744780641 | 50S ribosomal protein L5 | S. hyicus | 9E-127 |
| 1345 | 1350679 | 1350996 | 106 | 76 | - | 744780640 | 50S ribosomal protein L24 | S. hyicus | 3E-67 |
| 1346 | 1351035 | 1351403 | 123 | 89.7 | - | 744780639 | 50S ribosomal protein L14 | S. hyicus | 1E-80 |
| 1347 | 1351434 | 1351697 | 88 | 41.7 | - | 744780638 | 30S ribosomal protein S17 | S. hyicus | 2E-55 |
| 1348 | 1351722 | 1351931 | 70 | 36.3 | - | 744780637 | 50S ribosomal protein L29 | S. hyicus | 3E-40 |
| 1349 | 1351921 | 1352355 | 145 | 100.5 | - | 744780636 | 50S ribosomal protein L16 | S. hyicus | 2E-100 |
| 1350 | 1352358 | 1353011 | 218 | 137.6 | - | 744780635 | 30S ribosomal protein S3 | S. hyicus | 1E-155 |
| 1351 | 1353034 | 1353387 | 118 | 68.2 | - | 744780634 | 50S ribosomal protein L22 | S. hyicus | 6E-79 |
| 1352 | 1353420 | 1353698 | 93 | 45.6 | - | 744780633 | 30S ribosomal protein S19 | S. hyicus | 2E-62 |
| 1353 | 1353763 | 1354596 | 278 | 184 | - | 744780632 | 50S ribosomal protein L2 | S. hyicus | 0E+00 |
| 1354 | 1354626 | 1354901 | 92 | 55.4 | - | 744780631 | 50S ribosomal protein L23 | S. hyicus | 2E-59 |
| 1355 | 1354901 | 1355524 | 208 | 133.9 | - | 744780630 | 50S ribosomal protein L4 | S. hyicus | 1E-148 |
| 1356 | 1355551 | 1356210 | 220 | 135.7 | - | 744780629 | 50S ribosomal protein L3 | S. hyicus | 2E-157 |
| 1357 | 1356238 | 1356546 | 103 | 63.4 | - | P66336 | 30S ribosomal protein S10 | S. epidermidis | 1E-68 |
| 1358 | 1357002 | 1358336 | 445 | 224.8 | - | 744780627 | permease | S. hyicus | 0E+00 |
| 1359 | 1358450 | 1360582 | 711 | 340.4 | - | 744780626 | DNA topoisomerase III | S. hyicus | 0E+00 |
| 1360 | 1360704 | 1361564 | 287 | 123.3 | + | 744780625 | GNAT family acetyltransferase | S. hyicus | 0E+00 |
| 1361 | 1361679 | 1362596 | 306 | 97.7 | - | 744780624 | transporter | S. hyicus | 6E-176 |
| 1362 | 1362721 | 1362921 | 67 | 43 | + | 744780623 | hypothetical protein SHYC\_03115 | S. hyicus | 5E-24 |
| 1363 | 1362941 | 1363258 | 106 | 32.7 | + | 744780622 | membrane protein | S. hyicus | 1E-49 |
| 1364 | 1363371 | 1364525 | 385 | 188.4 | - | 744780621 | N-succinyldiaminopimelate aminotransferase | S. hyicus | 0E+00 |
| 1365 | 1364722 | 1367883 | 1054 | 483 | - | 744780620 | RND efflux transporter | S. hyicus | 0E+00 |
| 1366 | 1368034 | 1369284 | 417 | 227.6 | - | 744780619 | FemAB family protein | S. hyicus | 0E+00 |
| 1367 | 1369402 | 1369656 | 85 | 36.3 | + | 744780618 | hypothetical protein SHYC\_03090 | S. hyicus | 4E-31 |
| 1368 | 1369653 | 1370414 | 254 | 117.5 | - | 744780617 | hypothetical protein SHYC\_03085 | S. hyicus | 8E-176 |
| 1369 | 1370585 | 1371034 | 150 | 61.8 | + | 744780616 | MarR family transcriptional regulator | S. hyicus | 2E-96 |
| 1370 | 1371353 | 1373191 | 613 | 291.6 | + | 744780615 | endonuclease/exonuclease/phosphatase family protein | S. hyicus | 0E+00 |
| 1371 | 1373362 | 1374384 | 341 | 160.3 | - | 744780614 | molybdenum cofactor biosynthesis protein A | S. hyicus | 0E+00 |
| 1372 | 1374405 | 1375007 | 201 | 86.2 | - | 744780613 | molybdopterin-guanine dinucleotide biosynthesis protein A | S. hyicus | 6E-121 |
| 1373 | 1375017 | 1375250 | 78 | 40.7 | - | 744780612 | molybdopterin synthase small subunit | S. hyicus | 2E-45 |
| 1374 | 1375247 | 1375702 | 152 | 67.3 | - | 744780611 | molybdopterin synthase subunit 2 | S. hyicus | 3E-101 |
| 1375 | 1375704 | 1376183 | 160 | 85.8 | - | 744780610 | molybdopterin-guanine dinucleotide biosynthesis protein B | S. hyicus | 2E-91 |
| 1376 | 1376180 | 1377439 | 420 | 229.6 | - | 744780609 | molybdopterin molybdenumtransferase | S. hyicus | 0E+00 |
| 1377 | 1377507 | 1377995 | 163 | 78.5 | + | 744780608 | molybdenum cofactor biosynthesis protein C | S. hyicus | 4E-110 |
| 1378 | 1378087 | 1378587 | 167 | 81.2 | - | 744780607 | molybdenum cofactor biosynthesis protein B | S. hyicus | 2E-106 |
| 1379 | 1378599 | 1379603 | 335 | 142.4 | - | 746621756 | molybdopterin biosynthesis protein MoeB | S. hyicus | 0E+00 |
| 1380 | 1379871 | 1380485 | 205 | 81.7 | - | 744780605 | molybdenum ABC transporter ATP-binding protein | S. hyicus | 5E-118 |
| 1381 | 1380486 | 1381157 | 224 | 80 | - | 744780604 | molybdenum ABC transporter permease | S. hyicus | 2E-146 |
| 1382 | 1381169 | 1381921 | 251 | 124.1 | - | 744780603 | molybdenum ABC transporter substrate-binding protein | S. hyicus | 1E-141 |
| 1383 | 1382101 | 1382898 | 266 | 110.6 | + | 744780602 | formate dehydrogenase family accessory protein FdhD | S. hyicus | 6E-180 |
| 1384 | 1383020 | 1383775 | 252 | 123.8 | - | 744780601 | hypothetical protein SHYC\_03005 | S. hyicus | 9E-133 |
| 1385 | 1383798 | 1384361 | 188 | 84.8 | - | 744780600 | BioY family protein | S. hyicus | 6E-115 |
| 1386 | 1384483 | 1385343 | 287 | 125.3 | - | 744780599 | N-acetylmannosamine kinase | S. hyicus | 3E-154 |
| 1387 | 1385324 | 1385980 | 219 | 97.7 | - | 744780598 | transcriptional regulator | S. hyicus | 6E-136 |
| 1388 | 1386140 | 1387021 | 294 | 184.2 | + | 744780597 | N-acetylneuraminate lyase | S. hyicus | 0E+00 |
| 1389 | 1387091 | 1388605 | 505 | 199.3 | + | 744780596 | putative sialic acid transporter | S. hyicus | 0E+00 |
| 1390 | 1388809 | 1389726 | 306 | 193.1 | - | 744780595 | iron compound ABC transporter substrate-binding lipoprotein | S. hyicus | 0E+00 |
| 1391 | 1390010 | 1390402 | 131 | 46.6 | - | 744780594 | hypothetical protein SHYC\_02970 | S. hyicus | 1E-74 |
| 1392 | 1390886 | 1391302 | 139 | 44.9 | - |  | No Significant Match |  |  |
| 1393 | 1391427 | 1391849 | 141 | 28.6 | - |  | No Significant Match |  |  |
| 1394 | 1392067 | 1393329 | 421 | 94.1 | - | Q57772 | Putative permease MJ0326 | Methanocaldococcus jannaschii | 5E-69 |
| 1395 | 1393319 | 1393600 | 94 | 0.3 | - |  | No Significant Match |  |  |
| 1396 | 1393581 | 1394492 | 304 | 85.8 | - | O34926 | Putative cytochrome P450 CypX | Bacillus subtilis | 3E-06 |
| 1397 | 1394511 | 1395254 | 248 | 78.5 | - |  | No Significant Match |  |  |
| 1398 | 1395683 | 1396189 | 169 | 70.6 | - | P10548 | Lysostaphin | S. staphylolyticus | 6E-20 |
| 1399 | 1396301 | 1396696 | 132 | 28.6 | - | P24556 | Autolysin | S. aureus | 6E-21 |
| 1400 | 1396653 | 1396913 | 87 | 30.4 | - | O34433 | Putative phage-related protein YobO | Bacillus subtilis | 4E-13 |
| 1401 | 1397188 | 1397535 | 116 | 45.3 | - | 744780592 | MarR family transcriptional regulator | S. hyicus | 5E-67 |
| 1402 | 1397799 | 1398152 | 118 | 85.3 | - | 744780591 | hypothetical protein SHYC\_02955 | S. hyicus | 1E-64 |
| 1403 | 1398177 | 1399226 | 350 | 190.5 | - | 744780590 | LLM family oxidoreductase | S. hyicus | 0E+00 |
| 1404 | 1399630 | 1399953 | 108 | 61 | - | 744780589 | hypothetical protein SHYC\_02945 | S. hyicus | 3E-58 |
| 1405 | 1400415 | 1401143 | 243 | 104.1 | + | 744780588 | hypothetical protein SHYC\_02940 | S. hyicus | 8E-138 |
| 1406 | 1401186 | 1401659 | 158 | 26.3 | - | 744780587 | hypothetical protein SHYC\_02935 | S. hyicus | 2E-86 |
| 1407 | 1401766 | 1403175 | 470 | 202.9 | - | 744780586 | sodium:proton antiporter | S. hyicus | 0E+00 |
| 1408 | 1403195 | 1404271 | 359 | 197.9 | - | 744780585 | NAD/NADP octopine/nopaline dehydrogenase family protein | S. hyicus | 0E+00 |
| 1409 | 1404467 | 1404847 | 127 | 47.1 | + | 744780584 | membrane protein | S. hyicus | 2E-63 |
| 1410 | 1405258 | 1405827 | 190 | 98.2 | + | 744780583 | hypothetical protein SHYC\_02915 | S. hyicus | 1E-101 |
| 1411 | 1405993 | 1406949 | 319 | 203 | + | 744780582 | 2-hydroxyacid dehydrogenase | S. hyicus | 0E+00 |
| 1412 | 1407010 | 1408134 | 375 | 201.9 | - | 744780581 | hypothetical protein SHYC\_02905 | S. hyicus | 0E+00 |
| 1413 | 1408193 | 1408975 | 261 | 138.1 | - | 744780580 | glucosaminidase family protein | S. hyicus | 7E-149 |
| 1414 | 1409006 | 1409248 | 81 | 30.6 | - | 744780579 | membrane protein | S. hyicus | 3E-21 |
| 1415 | 1409521 | 1409985 | 155 | 93.5 | - | 744780578 | hypothetical protein SHYC\_02890 | S. hyicus | 7E-104 |
| 1416 | 1409985 | 1412921 | 979 | 502.2 | - | 744780577 | putative formate dehydrogenase | S. hyicus | 0E+00 |
| 1417 | 1413098 | 1413739 | 214 | 83.5 | - | 744780576 | pyrrolidone-carboxylate peptidase | S. hyicus | 6E-101 |
| 1418 | 1413832 | 1414785 | 318 | 176.1 | - | 744780575 | LytR family transcriptional regulator | S. hyicus | 0E+00 |
| 1419 | 1414894 | 1415685 | 264 | 132.6 | - | 744780574 | inositol monophosphatase family protein | S. hyicus | 1E-179 |
| 1420 | 1416169 | 1416864 | 232 | 103.1 | + | 744780573 | DeoR faimly transcriptional regulator | S. hyicus | 2E-138 |
| 1421 | 1417087 | 1417818 | 244 | 47.3 | - | 744780572 | putative metal-dependent membrane protease | S. hyicus | 4E-114 |
| 1422 | 1417913 | 1418248 | 112 | 17.9 | + | 744780571 | hypothetical protein SHYC\_02855 | S. hyicus | 7E-44 |
| 1423 | 1418332 | 1419378 | 349 | 110.8 | + |  | No Significant Match |  |  |
| 1424 | 1419378 | 1420274 | 299 | 156.8 | + | Q88SC3 | N-acetylmuramic acid 6-phosphate etherase 1 | Lactobacillus plantarum | 8E-112 |
| 1425 | 1420288 | 1421697 | 470 | 226.1 | + | Q4L8H5 | PTS system EIIBC component SH0741 | S. haemolyticus | 0E+00 |
| 1426 | 1421791 | 1423182 | 464 | 217.3 | - | 744780570 | gamma-aminobutyrate permease family protein | S. hyicus | 0E+00 |
| 1427 | 1423512 | 1424342 | 277 | 118.4 | + | 744780569 | formate/nitrite transporter | S. hyicus | 0E+00 |
| 1428 | 1424396 | 1424734 | 113 | 32.8 | + | 744780568 | membrane protein | S. hyicus | 2E-41 |
| 1429 | 1424734 | 1424919 | 62 | 30.3 | + | 744780567 | membrane protein | S. hyicus | 7E-22 |
| 1430 | 1424972 | 1425163 | 64 | 21.3 | - | 744780566 | membrane protein | S. hyicus | 2E-34 |
| 1431 | 1425160 | 1425804 | 215 | 115.8 | - | 744780565 | HAD family hydrolase | S. hyicus | 2E-126 |
| 1432 | 1425870 | 1426697 | 276 | 124.2 | - | 746621747 | glyoxalase | S. hyicus | 2E-134 |
| 1433 | 1426760 | 1427029 | 90 | 6.8 | - | 744780563 | hypothetical protein SHYC\_02815 | S. hyicus | 3E-39 |
| 1434 | 1427353 | 1428315 | 321 | 129.7 | - | 744780562 | sodium bile acid symporter family protein | S. hyicus | 0E+00 |
| 1435 | 1428496 | 1429026 | 177 | 77.3 | + | 744780561 | hypothetical protein SHYC\_02805 | S. hyicus | 1E-100 |
| 1436 | 1429184 | 1429693 | 170 | 93.2 | - | 744780560 | hypothetical protein SHYC\_02800 | S. hyicus | 5E-103 |
| 1437 | 1429952 | 1431250 | 433 | 216.1 | - | 744780559 | sodium:proton antiporter | S. hyicus | 0E+00 |
| 1438 | 1431492 | 1432619 | 376 | 191 | - | 744780558 | N-acetyl-L,L-diaminopimelate deacetylase | S. hyicus | 0E+00 |
| 1439 | 1432846 | 1434081 | 412 | 233.9 | - | 744780557 | imidazolonepropionase | S. hyicus | 0E+00 |
| 1440 | 1434081 | 1435748 | 556 | 365.9 | - | 744780556 | urocanate hydratase | S. hyicus | 0E+00 |
| 1441 | 1435768 | 1437096 | 443 | 133.6 | - | 744780259 | membrane protein | S. hyicus | 9E-48 |
| 1442 | 1437298 | 1438176 | 293 | 115.8 | + | 744780555 | LysR family transcriptional regulator | S. hyicus | 0E+00 |
| 1443 | 1438414 | 1439346 | 311 | 130 | - | 744780554 | formimidoylglutamase | S. hyicus | 0E+00 |
| 1444 | 1439660 | 1440694 | 345 | 146.9 | + | 744780553 | hypothetical protein SHYC\_02765 | S. hyicus | 0E+00 |
| 1445 | 1440822 | 1441508 | 229 | 163.2 | - | 744780552 | ribose 5-phosphate isomerase | S. hyicus | 2E-151 |
| 1446 | 1441639 | 1442289 | 217 | 107.6 | + | 744780551 | hypothetical protein SHYC\_02755 | S. hyicus | 4E-141 |
| 1447 | 1442392 | 1442592 | 67 | 33.6 | - | 744780550 | XRE family transcriptional regulator | S. hyicus | 1E-36 |
| 1448 | 1442624 | 1443631 | 336 | 144.4 | - | 744780549 | aldose 1-epimerase | S. hyicus | 0E+00 |
| 1449 | 1443664 | 1443996 | 111 | 48.4 | - | 744780548 | membrane protein | S. hyicus | 1E-57 |
| 1450 | 1444165 | 1445397 | 411 | 172.7 | - | 744780547 | sodium ABC transporter permease | S. hyicus | 0E+00 |
| 1451 | 1445390 | 1446289 | 300 | 148.3 | - | 744780546 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1452 | 1446463 | 1447110 | 216 | 60.3 | - | 744780545 | membrane protein | S. hyicus | 6E-64 |
| 1453 | 1447311 | 1447919 | 203 | 115.2 | + | 744780544 | 3-methyladenine DNA glycosylase | S. hyicus | 5E-138 |
| 1454 | 1447959 | 1449281 | 441 | 244.3 | - | 744780543 | sodium:proton antiporter | S. hyicus | 0E+00 |
| 1455 | 1449417 | 1450262 | 282 | 124.7 | - | 744780542 | hypothetical protein SHYC\_02710 | S. hyicus | 9E-147 |
| 1456 | 1450392 | 1451216 | 275 | 85.2 | + | 744780541 | AraC family transcriptional regulator | S. hyicus | 1E-180 |
| 1457 | 1451369 | 1452580 | 404 | 183 | + | 744780540 | sodium:glutamate symporter | S. hyicus | 0E+00 |
| 1458 | 1452610 | 1453812 | 401 | 249.4 | - | 744780539 | cobalamin biosynthesis protein CobW | S. hyicus | 0E+00 |
| 1459 | 1454136 | 1455170 | 345 | 150.6 | - | 744780538 | isopentenyl pyrophosphate isomerase | S. hyicus | 0E+00 |
| 1460 | 1455294 | 1455773 | 160 | 93.2 | + | 744780537 | 3-hydroxyacyl-CoA dehydrogenase | S. hyicus | 4E-101 |
| 1461 | 1456115 | 1457146 | 344 | 188.4 | - | 744780536 | transcriptional regulator | S. hyicus | 0E+00 |
| 1462 | 1457385 | 1458290 | 302 | 117.3 | - | 744780535 | esterase | S. hyicus | 0E+00 |
| 1463 | 1458620 | 1459240 | 207 | 56.1 | + | 744780534 | membrane protein | S. hyicus | 4E-103 |
| 1464 | 1459331 | 1459888 | 186 | 50.7 | - | 744780533 | TetR family transcriptional regulator | S. hyicus | 9E-122 |
| 1465 | 1460297 | 1461691 | 465 | 212.2 | - | 744780532 | membrane protein | S. hyicus | 0E+00 |
| 1466 | 1461736 | 1462251 | 172 | 74.6 | - | 746618497 | MarR family transcriptional regulator | S. hyicus | 4E-103 |
| 1467 | 1462456 | 1463400 | 315 | 72.8 | + | 744780530 | YdcF family membrane protein | S. hyicus | 3E-143 |
| 1468 | 1463477 | 1465015 | 513 | 230.8 | + | P46133 | p-aminobenzoyl-glutamate transport protein | Escherichia coli | 3E-109 |
| 1469 | 1465169 | 1465840 | 224 | 134.8 | - | 744780529 | ABC transporter ATP-binding protein | S. hyicus | 4E-155 |
| 1470 | 1465840 | 1466901 | 354 | 192.6 | - | 744780528 | ABC transporter permease | S. hyicus | 0E+00 |
| 1471 | 1467126 | 1467803 | 226 | 132.1 | + | 744780527 | heme response regulator HssR | S. hyicus | 4E-160 |
| 1472 | 1467796 | 1469169 | 458 | 187.5 | + | 744780526 | signal transduction histidine kinase HssS | S. hyicus | 0E+00 |
| 1473 | 1469708 | 1471210 | 501 | 259.9 | - | 744780525 | malate:quinone oxidoreductase | S. hyicus | 0E+00 |
| 1474 | 1471484 | 1472647 | 388 | 184.4 | + | 744780524 | glycosyltransferase | S. hyicus | 0E+00 |
| 1475 | 1472761 | 1474362 | 534 | 289.9 | - | 744780523 | L-lactate permease | S. hyicus | 0E+00 |
| 1476 | 1474714 | 1475331 | 206 | 105.8 | - | 744780522 | lipoprotein | S. hyicus | 3E-97 |
| 1477 | 1475411 | 1475926 | 172 | 79.2 | - | 744780521 | hypothetical protein SHYC\_02605 | S. hyicus | 2E-89 |
| 1478 | 1476050 | 1477036 | 329 | 180.6 | + | 744780520 | putative quinone oxidoreductase | S. hyicus | 0E+00 |
| 1479 | 1477210 | 1478544 | 445 | 247.1 | + | 744780519 | major facilitator transporter | S. hyicus | 0E+00 |
| 1480 | 1478679 | 1479707 | 343 | 162.3 | + | 744780518 | ferredoxin--NADP reductase | S. hyicus | 9E-150 |
| 1481 | 1479938 | 1480381 | 148 | 63.6 | - | 744780516 | membrane protein | S. hyicus | 4E-90 |
| 1482 | 1480448 | 1481074 | 209 | 103.5 | - | 744780515 | hypothetical protein SHYC\_02575 | S. hyicus | 2E-96 |
| 1483 | 1481087 | 1482328 | 414 | 97.6 | - | 744780514 | copper resistance CopC family protein | S. hyicus | 2E-151 |
| 1484 | 1482523 | 1484190 | 556 | 329.9 | - | 744780513 | Na/Pi cotransporter | S. hyicus | 0E+00 |
| 1485 | 1484471 | 1484950 | 160 | 63.9 | + | 744780512 | MarR family transcriptional regulator | S. hyicus | 2E-109 |
| 1486 | 1484931 | 1485869 | 313 | 114.7 | + | 744780511 | magnesium transporter CorA | S. hyicus | 0E+00 |
| 1487 | 1486376 | 1488502 | 709 | 233.2 | + | 744780510 | AraC family transcriptional regulator | S. hyicus | 0E+00 |
| 1488 | 1488590 | 1489477 | 296 | 196.3 | + | 744780509 | UTP--glucose-1-phosphate uridylyltransferase | S. hyicus | 0E+00 |
| 1489 | 1489518 | 1490723 | 402 | 130.2 | - | 744780508 | permease | S. hyicus | 0E+00 |
| 1490 | 1490926 | 1491144 | 73 | 12.1 | - | 744780507 | hypothetical protein SHYC\_02535 | S. hyicus | 3E-40 |
| 1491 | 1491340 | 1491684 | 115 | 77.4 | + | 744780506 | hypothetical protein SHYC\_02530 | S. hyicus | 1E-72 |
| 1492 | 1492073 | 1492972 | 300 | 118.7 | - | 744780505 | transporter | S. hyicus | 0E+00 |
| 1493 | 1493136 | 1494209 | 358 | 204.8 | - | 744780504 | M42 family peptidase | S. hyicus | 0E+00 |
| 1494 | 1494380 | 1494736 | 119 | 52.6 | - | 744780503 | hypothetical protein SHYC\_02515 | S. hyicus | 2E-77 |
| 1495 | 1494936 | 1496537 | 534 | 265.4 | + | 744780502 | arginine utilization protein RocB | S. hyicus | 0E+00 |
| 1496 | 1496686 | 1497846 | 387 | 172.1 | - | 744780501 | nitrate transporter NarT | S. hyicus | 0E+00 |
| 1497 | 1498112 | 1498786 | 225 | 106.4 | - | 744780500 | LuxR family transcriptional regulator | S. hyicus | 3E-154 |
| 1498 | 1498740 | 1499822 | 361 | 160.6 | - | 744780499 | two-component sensor histidine kinase NreB | S. hyicus | 0E+00 |
| 1499 | 1499822 | 1500289 | 156 | 40.8 | - | 744780498 | nitrogen regulation-related NreA protein | S. hyicus | 1E-105 |
| 1500 | 1500304 | 1500981 | 226 | 67.7 | - | 744780497 | nitrate reductase subunit gamma | S. hyicus | 2E-160 |
| 1501 | 1500974 | 1501549 | 192 | 87.5 | - | 744780496 | nitrate reductase subunit delta | S. hyicus | 2E-139 |
| 1502 | 1501542 | 1503098 | 519 | 256.6 | - | 744780495 | nitrate reductase subunit beta | S. hyicus | 0E+00 |
| 1503 | 1503088 | 1506759 | 1224 | 637.7 | - | 744780494 | respiratory nitrate reductase subunit alpha | S. hyicus | 0E+00 |
| 1504 | 1507054 | 1509348 | 765 | 383.9 | - | 744780493 | 5'-nucleotidase | S. hyicus | 0E+00 |
| 1505 | 1509632 | 1510570 | 313 | 132.9 | - | 744780492 | uroporphyrin-III methyltransferase | S. hyicus | 0E+00 |
| 1506 | 1510561 | 1510878 | 106 | 54.8 | - | 746618424 | nitrite reductase | S. hyicus | 3E-66 |
| 1507 | 1510881 | 1513286 | 802 | 498.6 | - | 744780490 | nitrite reductase | S. hyicus | 0E+00 |
| 1508 | 1513279 | 1513740 | 154 | 69.7 | - | 744780489 | siroheme synthase | S. hyicus | 2E-97 |
| 1509 | 1513709 | 1514461 | 251 | 57.9 | - | 744780488 | putative sirohydrochlorin ferrochelatase | S. hyicus | 3E-142 |
| 1510 | 1514584 | 1515132 | 183 | 89.6 | - | 744780487 | acetyltransferase | S. hyicus | 3E-119 |
| 1511 | 1515235 | 1516053 | 273 | 122.9 | - | 744780486 | formate/nitrite transporter | S. hyicus | 5E-166 |
| 1512 | 1516305 | 1516487 | 61 | 26.7 | - | 744780485 | membrane protein | S. hyicus | 9E-32 |
| 1513 | 1516810 | 1518336 | 509 | 251.6 | - | 744780484 | transporter | S. hyicus | 0E+00 |
| 1514 | 1518506 | 1519522 | 339 | 153.9 | - | 744780483 | PTS sugar transporter subunit IIC | S. hyicus | 0E+00 |
| 1515 | 1520286 | 1521773 | 496 | 280.7 | + | 744780482 | aldehyde dehydrogenase | S. hyicus | 0E+00 |
| 1516 | 1522366 | 1523397 | 344 | 181.8 | + | 744780481 | transcriptional regulator | S. hyicus | 0E+00 |
| 1517 | 1523412 | 1524089 | 226 | 129.8 | + | 744780480 | L-serine dehydratase subunit beta | S. hyicus | 4E-159 |
| 1518 | 1524105 | 1525004 | 300 | 195.4 | + | 744780479 | serine dehydratase subunit alpha | S. hyicus | 0E+00 |
| 1519 | 1525048 | 1525305 | 86 | 19.5 | - | 744780478 | hypothetical protein SHYC\_02385 | S. hyicus | 2E-31 |
| 1520 | 1525562 | 1526698 | 379 | 167.1 | - | 744780477 | hypothetical protein SHYC\_02380 | S. hyicus | 0E+00 |
| 1521 | 1526917 | 1527810 | 298 | 153 | - | 744780476 | peptide ABC transporter permease | S. hyicus | 0E+00 |
| 1522 | 1527821 | 1528783 | 321 | 127.3 | - | 744780475 | peptide ABC transporter permease | S. hyicus | 0E+00 |
| 1523 | 1528780 | 1529769 | 330 | 174.5 | - | 744780474 | peptide ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1524 | 1529762 | 1530772 | 337 | 165.1 | - | 744780473 | peptide ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1525 | 1530898 | 1532619 | 574 | 369.5 | - | 744780472 | ABC transporter substrate-binding lipoprotein | S. hyicus | 0E+00 |
| 1526 | 1532951 | 1533616 | 222 | 130.6 | - | 744780471 | oxidoreductase | S. hyicus | 5E-141 |
| 1527 | 1533986 | 1536235 | 750 | 431.4 | + | 744780470 | formate acetyltransferase | S. hyicus | 0E+00 |
| 1528 | 1536277 | 1537041 | 255 | 79.5 | + | 744780469 | pyruvate formate lyase-activating protein | S. hyicus | 1E-175 |
| 1529 | 1537614 | 1538666 | 351 | 173 | - | 744780468 | putative regulator | S. hyicus | 0E+00 |
| 1530 | 1538910 | 1540001 | 364 | 212.2 | - | 744780467 | leucine dehydrogenase | S. hyicus | 0E+00 |
| 1531 | 1540329 | 1541006 | 226 | 129.7 | + | 744780466 | iron-sulfur cluster repair di-iron protein | S. hyicus | 7E-152 |
| 1532 | 1541142 | 1542281 | 380 | 197.9 | - | 744780465 | glycerate kinase | S. hyicus | 0E+00 |
| 1533 | 1542349 | 1542951 | 201 | 109 | - | 744780464 | sortase A | S. hyicus | 6E-137 |
| 1534 | 1543501 | 1544784 | 428 | 181.1 | - | 744780463 | major facilitator superfamily protein | S. hyicus | 0E+00 |
| 1535 | 1545018 | 1546199 | 394 | 148.2 | - | 744780462 | major facilitator superfamily protein | S. hyicus | 0E+00 |
| 1536 | 1546458 | 1548416 | 653 | 323.5 | + | 744780461 | fructose 1,6-bisphosphatase | S. hyicus | 0E+00 |
| 1537 | 1549053 | 1550441 | 463 | 230.4 | + | 744780460 | amino acid transporter | S. hyicus | 0E+00 |
| 1538 | 1550531 | 1550959 | 143 | 90.2 | + | 744780459 | general stress protein | S. hyicus | 2E-80 |
| 1539 | 1551004 | 1551375 | 124 | 76.1 | + | 744780458 | glyoxalase | S. hyicus | 1E-76 |
| 1540 | 1551534 | 1553309 | 592 | 263.4 | - | 744780457 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1541 | 1553302 | 1555083 | 594 | 277.3 | - | 744780456 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1542 | 1555183 | 1556454 | 424 | 140.5 | - | 744780455 | Fe-S oxidoreductase | S. hyicus | 0E+00 |
| 1543 | 1556447 | 1557856 | 470 | 247.7 | - | 744780454 | FAD-binding protein | S. hyicus | 0E+00 |
| 1544 | 1558073 | 1560352 | 760 | 323.8 | - | 744780453 | nitric oxide reductase large subunit | S. hyicus | 0E+00 |
| 1545 | 1560820 | 1561248 | 143 | 53.6 | + | 744780452 | 6-pyruvoyl tetrahydrobiopterin synthase | S. hyicus | 3E-93 |
| 1546 | 1561355 | 1562068 | 238 | 111.8 | - | 744780451 | HAD superfamily hydrolase | S. hyicus | 2E-157 |
| 1547 | 1562186 | 1562926 | 247 | 127.5 | - | 744780450 | tryptophan synthase subunit alpha | S. hyicus | 2E-139 |
| 1548 | 1562919 | 1564133 | 405 | 262.4 | - | 744780449 | tryptophan synthase subunit beta | S. hyicus | 0E+00 |
| 1549 | 1564130 | 1564759 | 210 | 76.1 | - | 744780448 | N-(5'-phosphoribosyl)anthranilate isomerase | S. hyicus | 1E-91 |
| 1550 | 1564750 | 1565541 | 264 | 100.8 | - | 744780447 | indole-3-glycerol phosphate synthase | S. hyicus | 3E-144 |
| 1551 | 1565525 | 1566541 | 339 | 145.7 | - | 744780446 | anthranilate phosphoribosyltransferase | S. hyicus | 0E+00 |
| 1552 | 1566543 | 1567109 | 189 | 86.5 | - | 744780445 | anthranilate synthase subunit II | S. hyicus | 6E-102 |
| 1553 | 1567106 | 1568509 | 468 | 199.4 | - | 744780444 | anthranilate synthase component I | S. hyicus | 0E+00 |
| 1554 | 1568991 | 1570628 | 546 | 320.7 | - | 744780443 | putative pyruvate decarboxylase | S. hyicus | 0E+00 |
| 1555 | 1571385 | 1572512 | 376 | 145.7 | + | 744780442 | sugar diacid utilization regulator | S. hyicus | 0E+00 |
| 1556 | 1572651 | 1573058 | 136 | 75.4 | + | 744780441 | hypothetical protein SHYC\_02200 | S. hyicus | 7E-79 |
| 1557 | 1573091 | 1573474 | 128 | 65.4 | - | 744780440 | MutT/NUDIX family protein | S. hyicus | 5E-66 |
| 1558 | 1573541 | 1574689 | 383 | 173.9 | - | 744780439 | pyridine nucleotide-disulfide oxidoreductase | S. hyicus | 0E+00 |
| 1559 | 1574813 | 1575667 | 285 | 141.5 | - | Q56623 | UDP-glucose 4-epimerase | Vibrio cholerae | 2E-22 |
| 1560 | 1575667 | 1576230 | 188 | 91.3 | - | P71062 | Uncharacterized sugar transferase EpsL | Bacillus subtilis | 7E-47 |
| 1561 | 1576245 | 1577450 | 402 | 163.9 | - | Q8KIU8 | Probable glycosyltransferase WbjE | Pseudomonas aeruginosa | 1E-20 |
| 1562 | 1577460 | 1578698 | 413 | 70 | - |  | No Significant Match |  |  |
| 1563 | 1578685 | 1579257 | 191 | 48.9 | - | Q552S7 | Putative acetyltransferase DDB\_G0275913 | Dictyostelium discoideum | 5E-21 |
| 1564 | 1579232 | 1580647 | 472 | 103 | - |  | No Significant Match |  |  |
| 1565 | 1580634 | 1581725 | 364 | 86.1 | - |  | No Significant Match |  |  |
| 1566 | 1581722 | 1582849 | 376 | 182.6 | - | 744780431 | UDP-N-acetylglucosamine 2-epimerase | S. hyicus | 0E+00 |
| 1567 | 1582852 | 1583961 | 370 | 154.4 | - | 744780430 | capsular biosynthesis protein | S. hyicus | 0E+00 |
| 1568 | 1583965 | 1584999 | 345 | 187.2 | - | 744780429 | UDP-glucose 4-epimerase | S. hyicus | 0E+00 |
| 1569 | 1585010 | 1586818 | 603 | 269.3 | - | 744780428 | polysaccharide biosynthesis protein | S. hyicus | 0E+00 |
| 1570 | 1586847 | 1587617 | 257 | 127.4 | - | 744780427 | capsular polysaccharide biosynthesis protein | S. hyicus | 1E-176 |
| 1571 | 1587614 | 1588321 | 236 | 107.5 | - | 744780426 | capsular polysaccharide biosynthesis protein | S. hyicus | 2E-143 |
| 1572 | 1588338 | 1589000 | 221 | 122.9 | - | 744780425 | capsular polysaccharide biosynthesis protein | S. hyicus | 2E-88 |
| 1573 | 1589461 | 1590918 | 486 | 115.2 | - | 744780423 | hypothetical protein SHYC\_02110 | S. hyicus | 0E+00 |
| 1574 | 1591301 | 1592182 | 294 | 193.2 | - | 744780422 | oxidoreductase | S. hyicus | 0E+00 |
| 1575 | 1592314 | 1592514 | 67 | 33.6 | + | 744780421 | hypothetical protein SHYC\_02100 | S. hyicus | 5E-38 |
| 1576 | 1592724 | 1592951 | 76 | 30.2 | + | 744780420 | hypothetical protein SHYC\_02095 | S. hyicus | 9E-27 |
| 1577 | 1593075 | 1594220 | 382 | 206.9 | - | 744780419 | Sodium:dicarboxylate symporter family protein | S. hyicus | 0E+00 |
| 1578 | 1594447 | 1595571 | 375 | 181.7 | - | 744780418 | hypothetical protein SHYC\_02085 | S. hyicus | 0E+00 |
| 1579 | 1595793 | 1597784 | 664 | 360.1 | + | 744780417 | catalase | S. hyicus | 0E+00 |
| 1580 | 1597812 | 1598678 | 289 | 177.3 | + | 744780416 | short-chain dehydrogenase | S. hyicus | 0E+00 |
| 1581 | 1599092 | 1599340 | 83 | 18.1 | - |  | No Significant Match |  |  |
| 1582 | 1599344 | 1600918 | 525 | 259.2 | - | 744780415 | hypothetical protein SHYC\_02070 | S. hyicus | 6E-65 |
| 1583 | 1601166 | 1602380 | 405 | 153.8 | - | 744780414 | major facilitator superfamily protein | S. hyicus | 0E+00 |
| 1584 | 1602441 | 1603058 | 206 | 110.5 | - | 744780413 | kynurenine formamidase | S. hyicus | 9E-119 |
| 1585 | 1603148 | 1604050 | 301 | 144.8 | - | 744780412 | esterase | S. hyicus | 0E+00 |
| 1586 | 1604165 | 1605583 | 473 | 225 | - | 744780411 | phosphate:AMP phosphotransferase | S. hyicus | 0E+00 |
| 1587 | 1606001 | 1606675 | 225 | 128.9 | + | 744780410 | putative transglycosylase | S. hyicus | 1E-151 |
| 1588 | 1607460 | 1608314 | 285 | 107 | + | 744780409 | secretory antigen precursor SsaA | S. hyicus | 1E-153 |
| 1589 | 1608475 | 1609035 | 187 | 72.7 | + | 744780408 | M23 family peptidase | S. hyicus | 5E-106 |
| 1590 | 1609083 | 1609796 | 238 | 93 | - | 744780407 | GTP pyrophosphokinase | S. hyicus | 1E-174 |
| 1591 | 1609901 | 1610521 | 207 | 116 | - | 744780406 | NAD(P)H nitroreductase | S. hyicus | 3E-147 |
| 1592 | 1610654 | 1611094 | 147 | 67.5 | + | 744780405 | transcriptional regulator | S. hyicus | 4E-99 |
| 1593 | 1611392 | 1612420 | 343 | 238.6 | - | 744780404 | iron ABC transporter substrate-binding lipoprotein | S. hyicus | 0E+00 |
| 1594 | 1612435 | 1613238 | 268 | 136 | - | 744780403 | iron ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1595 | 1613235 | 1614194 | 320 | 113 | - | 744780402 | iron ABC transporter permease | S. hyicus | 0E+00 |
| 1596 | 1614187 | 1615152 | 322 | 122 | - | 744780401 | iron ABC transporter permease | S. hyicus | 0E+00 |
| 1597 | 1615313 | 1615840 | 176 | 45.7 | - | 744780400 | hypothetical protein SHYC\_01990 | S. hyicus | 3E-116 |
| 1598 | 1616003 | 1616182 | 60 | 22.2 | - | 744780399 | hypothetical protein SHYC\_01985 | S. hyicus | 2E-24 |
| 1599 | 1616352 | 1617539 | 396 | 144.5 | + | 744780398 | membrane protein | S. hyicus | 0E+00 |
| 1600 | 1617584 | 1617937 | 118 | 46.3 | + | 744780397 | hypothetical protein SHYC\_01975 | S. hyicus | 2E-58 |
| 1601 | 1618061 | 1619368 | 436 | 126.4 | - | 744780396 | branched-chain amino acid transporter II carrier protein | S. hyicus | 0E+00 |
| 1602 | 1619653 | 1620075 | 141 | 59.9 | - | 744780395 | universal stress protein | S. hyicus | 1E-83 |
| 1603 | 1620347 | 1621246 | 300 | 146.8 | - | 744780394 | CobW/HypB/UreG family protein | S. hyicus | 0E+00 |
| 1604 | 1621246 | 1621791 | 182 | 90.9 | - | 744780393 | deoxycytidine triphosphate deaminase | S. hyicus | 6E-128 |
| 1605 | 1622077 | 1622619 | 181 | 95.9 | - | 744780392 | lipoprotein | S. hyicus | 5E-86 |
| 1606 | 1622633 | 1623193 | 187 | 100.4 | - | 744780391 | hypothetical protein SHYC\_01945 | S. hyicus | 8E-95 |
| 1607 | 1623404 | 1625119 | 572 | 344.7 | - | 744780390 | urease subunit alpha | S. hyicus | 0E+00 |
| 1608 | 1625116 | 1625472 | 119 | 63.5 | - | 744780389 | urease subunit beta | S. hyicus | 1E-76 |
| 1609 | 1625483 | 1625785 | 101 | 55.3 | - | 744780388 | urease subunit gamma | S. hyicus | 4E-67 |
| 1610 | 1626005 | 1626919 | 305 | 85.8 | + | 744780387 | urea transporter | S. hyicus | 1E-167 |
| 1611 | 1627093 | 1628028 | 312 | 131.2 | - | 744780386 | cation transporter | S. hyicus | 0E+00 |
| 1612 | 1628042 | 1628389 | 116 | 40 | - | 744780384 | histidine kinase | S. hyicus | 1E-53 |
| 1613 | 1628534 | 1628938 | 135 | 59.8 | - | 744780383 | two component transcriptional regulator | S. hyicus | 2E-70 |
| 1614 | 1629082 | 1629216 | 45 | 19.7 | - | 744780382 | hypothetical protein SHYC\_01900 | S. hyicus | 1E-14 |
| 1615 | 1629430 | 1630602 | 391 | 155 | - | 744780381 | 0utative penicillin-binding protein | S. hyicus | 0E+00 |
| 1616 | 1630652 | 1631629 | 326 | 136.4 | - | 744780380 | ABC transporter permease | S. hyicus | 0E+00 |
| 1617 | 1631944 | 1632429 | 162 | 33.5 | - | 744780376 | hypothetical protein SHYC\_01870 | S. hyicus | 5E-62 |
| 1618 | 1632446 | 1633315 | 290 | 158.5 | - | 744780375 | fructosamine kinase | S. hyicus | 1E-179 |
| 1619 | 1633468 | 1634133 | 222 | 106.6 | + | 744780374 | NAD(P)H nitroreductase | S. hyicus | 5E-145 |
| 1620 | 1634229 | 1636205 | 659 | 337.7 | - | 744780373 | lipase | S. hyicus | 0E+00 |
| 1621 | 1636729 | 1638198 | 490 | 209.2 | + | 744780372 | PTS transporter subunit IIBC | S. hyicus | 0E+00 |
| 1622 | 1638346 | 1639830 | 495 | 135.7 | - | 744780371 | membrane protein | S. hyicus | 0E+00 |
| 1623 | 1639925 | 1641337 | 471 | 172.4 | - | 744780370 | glycosyltransferase | S. hyicus | 0E+00 |
| 1624 | 1641443 | 1644643 | 1067 | 432.2 | + | 744780369 | CDP-glycerol:glycerophosphate glycerophosphotransferase | S. hyicus | 0E+00 |
| 1625 | 1644822 | 1646990 | 723 | 295.5 | + | 744780368 | CDP-glycerol:glycerophosphate glycerophosphotransferase | S. hyicus | 0E+00 |
| 1626 | 1647053 | 1647757 | 235 | 67.6 | - | Q8NWT6 | Putative oligopeptide transport ATP-binding protein oppF2 | S. aureus | 4E-52 |
| 1627 | 1647754 | 1648530 | 259 | 108.2 | - | Q7A5Q8 | Putative oligopeptide transport ATP-binding protein oppD2 | S. aureus | 1E-66 |
| 1628 | 1648532 | 1649335 | 268 | 107.1 | - | Q6GH26 | Putative oligopeptide transport system permease protein oppC2 | S. aureus | 3E-103 |
| 1629 | 1649335 | 1650318 | 328 | 105.9 | - | Q7A5Q6 | Putative oligopeptide transport system permease protein oppB2 | S. aureus | 5E-87 |
| 1630 | 1650308 | 1651795 | 496 | 222.7 | - | Q8X6V9 | Glutathione-binding protein GsiB | Escherichia coli | 4E-21 |
| 1631 | 1651933 | 1652655 | 241 | 120.1 | - | 744780367 | hypothetical protein SHYC\_01825 | S. hyicus | 3E-177 |
| 1632 | 1652903 | 1653121 | 73 | 11.7 | + | 744780366 | hypothetical protein SHYC\_01820 | S. hyicus | 4E-45 |
| 1633 | 1653352 | 1653810 | 153 | 81.6 | + | 744780365 | hypothetical protein SHYC\_01815 | S. hyicus | 3E-53 |
| 1634 | 1653885 | 1655633 | 583 | 242.5 | - | 744780364 | YhgE/Pip domain-containing protein | S. hyicus | 0E+00 |
| 1635 | 1655830 | 1657146 | 439 | 214.2 | + | 744780363 | N-acetylmuramoyl-L-alanine amidase domain-containing protein | S. hyicus | 0E+00 |
| 1636 | 1657248 | 1657829 | 194 | 85.6 | - | 744780362 | hypothetical protein SHYC\_01800 | S. hyicus | 1E-113 |
| 1637 | 1657955 | 1659151 | 399 | 127.2 | - | 744780361 | major facilitator family transporter | S. hyicus | 0E+00 |
| 1638 | 1659331 | 1661277 | 649 | 351.1 | - | 744780360 | PTS transporter subunit IIABC | S. hyicus | 0E+00 |
| 1639 | 1661496 | 1662221 | 242 | 108.8 | - | 744780359 | transcriptional regulator | S. hyicus | 4E-158 |
| 1640 | 1662253 | 1663206 | 318 | 119.5 | - | 744780358 | alpha/beta hydrolase | S. hyicus | 0E+00 |
| 1641 | 1663653 | 1663955 | 101 | 8.4 | - | 744780356 | hypothetical protein SHYC\_01770 | S. hyicus | 9E-60 |
| 1642 | 1663981 | 1665360 | 460 | 253.1 | - | 744780355 | succinate-semialdehyde dehydrogenase | S. hyicus | 0E+00 |
| 1643 | 1665532 | 1665882 | 117 | 71.7 | + | 744780354 | hypothetical protein SHYC\_01760 | S. hyicus | 8E-81 |
| 1644 | 1666036 | 1667277 | 414 | 181 | - | 744780353 | aminoacyltransferase FemB | S. hyicus | 0E+00 |
| 1645 | 1667581 | 1667946 | 122 | 80.5 | - | 744780352 | dihydroxyacetone kinase, phosphotransfer subunit | S. hyicus | 2E-78 |
| 1646 | 1667948 | 1668523 | 192 | 134.4 | - | 744780351 | dihydroxyacetone kinase subunit L | S. hyicus | 5E-129 |
| 1647 | 1668537 | 1669505 | 323 | 206.5 | - | 744780350 | dihydroxyacetone kinase | S. hyicus | 0E+00 |
| 1648 | 1670001 | 1671362 | 454 | 208.2 | + | 744780349 | glycerol-3-phosphate ABC transporter | S. hyicus | 0E+00 |
| 1649 | 1671470 | 1672645 | 392 | 242.7 | - | 744780348 | phosphopentomutase | S. hyicus | 0E+00 |
| 1650 | 1672675 | 1673337 | 221 | 161.5 | - | 744780164 | deoxyribose-phosphate aldolase | S. hyicus | 1E-152 |
| 1651 | 1673572 | 1674408 | 279 | 118.9 | + | 744780346 | ATP phosphoribosyltransferase regulatory subunit | S. hyicus | 3E-167 |
| 1652 | 1674396 | 1675010 | 205 | 94.7 | + | 744780345 | ATP phosphoribosyltransferase | S. hyicus | 4E-130 |
| 1653 | 1675000 | 1676250 | 417 | 185.3 | + | 744780344 | histidinol dehydrogenase | S. hyicus | 0E+00 |
| 1654 | 1676256 | 1677272 | 339 | 124.1 | + | 744780343 | histidinol-phosphate aminotransferase | S. hyicus | 0E+00 |
| 1655 | 1677250 | 1677825 | 192 | 88.3 | + | 744780342 | imidazoleglycerol-phosphate dehydratase | S. hyicus | 3E-136 |
| 1656 | 1677822 | 1678415 | 198 | 107.3 | + | 744780341 | imidazole glycerol phosphate synthase | S. hyicus | 3E-117 |
| 1657 | 1678390 | 1679094 | 235 | 106.3 | + | 746618142 | 1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino] imidazole-4-carboxamide isomerase | S. hyicus | 2E-147 |
| 1658 | 1679091 | 1679855 | 255 | 128.2 | + | 744780339 | imidazole glycerol phosphate synthase | S. hyicus | 4E-166 |
| 1659 | 1679846 | 1680475 | 210 | 101.8 | + | 744780338 | phosphoribosyl-AMP cyclohydrolase/phosphoribosyl-ATP pyrophosphatase | S. hyicus | 2E-141 |
| 1660 | 1680542 | 1681300 | 253 | 52.8 | - | Q8CU21 | Uncharacterized lipoprotein SE\_0142 | S. epidermidis | 9E-27 |
| 1661 | 1681257 | 1682222 | 322 | 127.1 | - | 744780337 | ornithine carbamoyltransferase | S. hyicus | 0E+00 |
| 1662 | 1682484 | 1683101 | 206 | 61 | - | 744780327 | hypothetical protein SHYC\_01615 | S. hyicus | 2E-23 |
| 1663 | 1683257 | 1684006 | 250 | 54.2 | + |  | No Significant Match |  |  |
| 1664 | 1684026 | 1685720 | 565 | 347.9 | - | 744780336 | choline dehydrogenase | S. hyicus | 0E+00 |
| 1665 | 1685742 | 1687241 | 500 | 334.7 | - | 744780335 | betaine-aldehyde dehydrogenase | S. hyicus | 0E+00 |
| 1666 | 1687525 | 1688085 | 187 | 112.1 | + | 744780334 | transcriptional regulator | S. hyicus | 8E-121 |
| 1667 | 1688333 | 1689967 | 545 | 229.9 | - | 744780333 | choline-glycine betaine transporter family protein | S. hyicus | 0E+00 |
| 1668 | 1690895 | 1691371 | 159 | 86.6 | - | 746618124 | hypothetical protein | S. hyicus | 7E-48 |
| 1669 | 1691395 | 1691493 | 33 | 3.5 | - |  | No Significant Match |  |  |
| 1670 | 1691628 | 1692335 | 236 | 115.2 | + | 744780331 | alpha-acetolactate decarboxylase | S. hyicus | 9E-167 |
| 1671 | 1692418 | 1693857 | 480 | 294.4 | - | 744780329 | alkaline phosphatase | S. hyicus | 0E+00 |
| 1672 | 1694132 | 1695571 | 480 | 298.1 | - | 744780328 | alkaline phosphatase | S. hyicus | 0E+00 |
| 1673 | 1695790 | 1696440 | 217 | 63.4 | + | 744780327 | hypothetical protein SHYC\_01615 | S. hyicus | 5E-111 |
| 1674 | 1696513 | 1697127 | 205 | 72 | - | 744780326 | putative alkaline phosphatase | S. hyicus | 1E-140 |
| 1675 | 1697137 | 1697241 | 35 | 2 | - |  | No Significant Match |  |  |
| 1676 | 1697245 | 1697655 | 137 | 57.9 | - | 744780325 | hypothetical protein SHYC\_01605 | S. hyicus | 2E-78 |
| 1677 | 1697917 | 1698189 | 91 | 33.5 | + | 744780324 | hypothetical protein SHYC\_01600 | S. hyicus | 8E-40 |
| 1678 | 1698594 | 1699604 | 337 | 113.8 | - | 744780322 | high-affinity nickel transport protein | S. hyicus | 0E+00 |
| 1679 | 1699818 | 1700495 | 226 | 110.6 | + | 744780321 | two-component system response regulator | S. hyicus | 5E-165 |
| 1680 | 1700488 | 1701972 | 495 | 196.9 | + | 744780320 | two-component system sensor histidine kinase | S. hyicus | 0E+00 |
| 1681 | 1702193 | 1702633 | 147 | 64.1 | - | 744780319 | hypothetical protein SHYC\_01575 | S. hyicus | 5E-78 |
| 1682 | 1702818 | 1704308 | 497 | 245.8 | - | 744780318 | phospholipase D/cardiolipin synthetase | S. hyicus | 0E+00 |
| 1683 | 1704746 | 1705705 | 320 | 151.3 | + | Q9RLV9 | Sphingomyelinase C | Listeria ivanovii | 2E-114 |
| 1684 | 1706415 | 1707575 | 387 | 179.6 | + | 744780317 | poly-gamma-glutamate synthase PgsB | S. hyicus | 0E+00 |
| 1685 | 1707578 | 1708030 | 151 | 53.1 | + | 744780316 | capsule biosynthesis protein CapC | S. hyicus | 3E-98 |
| 1686 | 1708045 | 1709115 | 357 | 166.1 | + | 744780315 | capsule biosynthesis protein CapA | S. hyicus | 0E+00 |
| 1687 | 1709105 | 1709398 | 98 | 39.8 | + | 744780314 | hypothetical protein SHYC\_01540 | S. hyicus | 1E-57 |
| 1688 | 1709382 | 1710980 | 533 | 300.3 | + | 744780313 | gamma-glutamyltranspeptidase | S. hyicus | 0E+00 |
| 1689 | 1711027 | 1711275 | 83 | 25.7 | - | 744780312 | hypothetical protein SHYC\_01530 | S. hyicus | 1E-16 |
| 1690 | 1711506 | 1714073 | 856 | 316.3 | - | 744780311 | membrane protein | S. hyicus | 0E+00 |
| 1691 | 1714364 | 1715071 | 236 | 96.1 | - | 744780310 | hypothetical protein SHYC\_01520 | S. hyicus | 3E-173 |
| 1692 | 1715659 | 1715892 | 78 | 34.2 | + | 744780309 | hypothetical protein SHYC\_01515 | S. hyicus | 2E-46 |
| 1693 | 1715950 | 1716192 | 81 | 20.5 | - | 744780308 | hypothetical protein SHYC\_01510 | S. hyicus | 2E-07 |
| 1694 | 1716569 | 1717057 | 163 | 72.3 | + | 744780307 | membrane protein | S. hyicus | 3E-112 |
| 1695 | 1717110 | 1718375 | 422 | 283.6 | - | 744780306 | membrane protein | S. hyicus | 0E+00 |
| 1696 | 1718493 | 1719677 | 395 | 167.8 | - | 744780305 | MFS transporter permease | S. hyicus | 0E+00 |
| 1697 | 1719953 | 1720309 | 119 | 87.9 | + | 744780304 | hypothetical protein SHYC\_01490 | S. hyicus | 2E-78 |
| 1698 | 1720504 | 1722102 | 533 | 261.9 | - | 744780303 | FGGY family carbohydrate kinase | S. hyicus | 0E+00 |
| 1699 | 1722703 | 1724061 | 453 | 228.1 | + | 744780302 | Na+/alanine symporter | S. hyicus | 0E+00 |
| 1700 | 1724333 | 1725727 | 465 | 209.7 | - | 744780301 | major facilitator superfamily permease | S. hyicus | 0E+00 |
| 1701 | 1725989 | 1727218 | 410 | 231 | - | 744780300 | ArgE/DapE family peptidase | S. hyicus | 0E+00 |
| 1702 | 1727244 | 1728668 | 475 | 202.2 | - | 744780299 | MFS transporter | S. hyicus | 0E+00 |
| 1703 | 1728871 | 1729806 | 312 | 206.1 | + | 744780298 | 2-dehydropantoate 2-reductase | S. hyicus | 0E+00 |
| 1704 | 1731258 | 1731533 | 92 | 20.7 | - | Q5WKY5 | 6-phospho-5-dehydro-2-deoxy-D-gluconate aldolase | Bacillus clausii | 9E-18 |
| 1705 | 1731693 | 1732097 | 135 | 63.2 | - | Q5WKY5 | 6-phospho-5-dehydro-2-deoxy-D-gluconate aldolase | Bacillus clausii | 7E-44 |
| 1706 | 1732117 | 1733112 | 332 | 175.5 | - | O05389 | Uncharacterized oxidoreductase YrbE | Bacillus subtilis | 2E-128 |
| 1707 | 1733114 | 1734718 | 535 | 217.4 | - | P31448 | Uncharacterized symporter YidK | Escherichia coli | 2E-138 |
| 1708 | 1734766 | 1735647 | 294 | 146.6 | - | B3W8L5 | Inosose dehydratase | Lactobacillus casei | 8E-146 |
| 1709 | 1735658 | 1736674 | 339 | 156.6 | - | P40332 | Uncharacterized oxidoreductase YisS | Bacillus subtilis | 9E-47 |
| 1710 | 1736693 | 1738603 | 637 | 326.2 | - | Q65D03 | 3D-(3,5/4)-trihydroxycyclohexane-1,2-dione hydrolase | Bacillus licheniformis | 0E+00 |
| 1711 | 1738609 | 1739577 | 323 | 163.4 | - | Q65D02 | 5-dehydro-2-deoxygluconokinase | Bacillus licheniformis | 7E-145 |
| 1712 | 1739590 | 1740405 | 272 | 134.3 | - | A7ZAI0 | 5-deoxy-glucuronate isomerase | Bacillus amyloliquefaciens | 5E-119 |
| 1713 | 1740417 | 1741871 | 485 | 281.1 | - | Q65D00 | methylmalonate-semialdehyde dehydrogenase | S. aureus | 0E+00 |
| 1714 | 1742070 | 1742828 | 253 | 111 | + | P46337 | HTH-type transcriptional regulator IolR | Bacillus subtilis | 2E-64 |
| 1715 | 1743197 | 1743769 | 191 | 67.3 | - | 744780297 | hypothetical protein SHYC\_01445 | S. hyicus | 2E-112 |
| 1716 | 1744229 | 1744471 | 81 | 10.6 | - |  | No Significant Match |  |  |
| 1717 | 1744543 | 1744866 | 108 | 17.7 | - |  | No Significant Match |  |  |
| 1718 | 1745319 | 1747121 | 601 | 230.9 | + | 744780296 | O-acetyltransferase OatA | S. hyicus | 0E+00 |
| 1719 | 1747271 | 1747981 | 237 | 119.3 | + | 744780295 | hypothetical protein SHYC\_01435 | S. hyicus | 1E-130 |
| 1720 | 1748059 | 1749438 | 460 | 203.1 | - | P0AGC2 | Hexose phosphate transport protein | Shigella flexneri | 2E-139 |
| 1721 | 1749772 | 1750335 | 188 | 90.4 | - | 744780294 | transcriptional regulator | S. hyicus | 7E-93 |
| 1722 | 1750319 | 1751128 | 270 | 127.2 | - | 744780293 | N-acetyltransferase | S. hyicus | 5E-147 |
| 1723 | 1751395 | 1751946 | 184 | 106.4 | + | 744780292 | isochorismatase family protein | S. hyicus | 5E-120 |
| 1724 | 1751957 | 1753150 | 398 | 104.7 | + | 744780291 | Bcr/CflA subfamily MFS protein | S. hyicus | 0E+00 |
| 1725 | 1753225 | 1753524 | 100 | 43.9 | - | 744780290 | hypothetical protein SHYC\_01410 | S. hyicus | 2E-34 |
| 1726 | 1753529 | 1753855 | 109 | 50.3 | - | 744780289 | hypothetical protein SHYC\_01405 | S. hyicus | 9E-63 |
| 1727 | 1753852 | 1755177 | 442 | 210.9 | - | 744780288 | membrane protein | S. hyicus | 0E+00 |
| 1728 | 1755170 | 1755925 | 252 | 77.1 | - | 744780285 | staphylococcus tandem lipoprotein family protein | S. hyicus | 2E-131 |
| 1729 | 1756123 | 1756575 | 151 | 60.9 | - | 746621707 | hypothetical protein, partial | S. hyicus | 2E-80 |
| 1730 | 1756568 | 1757314 | 249 | 61.6 | - | 744780285 | staphylococcus tandem lipoprotein family protein | S. hyicus | 3E-116 |
| 1731 | 1757549 | 1758442 | 298 | 200.4 | + | 744780279 | fructose-1,6-bisphosphate aldolase | S. hyicus | 0E+00 |
| 1732 | 1758481 | 1759539 | 353 | 235 | - | 744780278 | ABC transporter substrate-binding lipoprotein | S. hyicus | 0E+00 |
| 1733 | 1759739 | 1760755 | 339 | 147 | + | 744780277 | putative lipase LipA | S. hyicus | 0E+00 |
| 1734 | 1760775 | 1761962 | 396 | 123.2 | - | 744780276 | major facilitator superfamily protein | S. hyicus | 0E+00 |
| 1735 | 1762157 | 1762849 | 231 | 110.8 | - | 744780275 | ThiJ/PfpI family protein | S. hyicus | 2E-168 |
| 1736 | 1762969 | 1763133 | 55 | 16.7 | - | 744780274 | hypothetical protein SHYC\_01335 | S. hyicus | 1E-27 |
| 1737 | 1763147 | 1764427 | 427 | 227.5 | - | 744780273 | O-acetylhomoserine aminocarboxypropyltransferase | S. hyicus | 0E+00 |
| 1738 | 1764828 | 1765940 | 371 | 157.5 | + | 744780272 | pseudouridine kinase | S. hyicus | 0E+00 |
| 1739 | 1765924 | 1766835 | 304 | 188.7 | + | 744780271 | pseudouridine-5'-phosphate glycosidase | S. hyicus | 0E+00 |
| 1740 | 1766845 | 1768041 | 399 | 168.4 | + | 744780270 | pyrimidine nucleoside transporter NupC | S. hyicus | 0E+00 |
| 1741 | 1768200 | 1769546 | 449 | 199.1 | - | 744780269 | PTS transporter subunit IIC | S. hyicus | 0E+00 |
| 1742 | 1769563 | 1769847 | 95 | 65.6 | - | 744780268 | PTS transporter subunit IIB | S. hyicus | 1E-56 |
| 1743 | 1769849 | 1770292 | 148 | 74.7 | - | 744780267 | PTS transporter subunit IIA | S. hyicus | 8E-88 |
| 1744 | 1770283 | 1772235 | 651 | 251.8 | - | 744780266 | PTS multidomain regulator | S. hyicus | 0E+00 |
| 1745 | 1772432 | 1773847 | 472 | 162.7 | + | 744780265 | putative ethanolamine sensory transduction histidine kinase | S. hyicus | 0E+00 |
| 1746 | 1773849 | 1774424 | 192 | 93.1 | + | 744780264 | response regulator protein | S. hyicus | 2E-127 |
| 1747 | 1774506 | 1775738 | 411 | 180 | + | 744780263 | ethanolamine utilization protein EutH | S. hyicus | 0E+00 |
| 1748 | 1776027 | 1776794 | 256 | 133.6 | - | 744780262 | short-chain dehydrogenase | S. hyicus | 0E+00 |
| 1749 | 1776823 | 1778223 | 467 | 226.6 | - | P0C7B6 | Type-1 glutamine synthetase 2 | Dictyostelium discoideum | 4E-73 |
| 1750 | 1778240 | 1779667 | 476 | 230.9 | - | 744780261 | succinate-semialdehyde dehydrogenase | S. hyicus | 0E+00 |
| 1751 | 1779854 | 1780921 | 356 | 133 | + | 744780260 | ArgE/DapE family protein | S. hyicus | 0E+00 |
| 1752 | 1781043 | 1782422 | 460 | 204.7 | - | 744780259 | membrane protein | S. hyicus | 0E+00 |
| 1753 | 1782850 | 1784853 | 668 | 312.3 | - | 744780258 | NhaP-type Na+/H+ and K+/H+ antiporter | S. hyicus | 0E+00 |
| 1754 | 1784905 | 1785369 | 155 | 72.7 | - | 744780256 | methionine sulfoxide reductase A | S. hyicus | 5E-107 |
| 1755 | 1786257 | 1787171 | 305 | 162.7 | - | 744780255 | ribose ABC transporter ribose-binding lipoprotein rbsB | S. hyicus | 0E+00 |
| 1756 | 1787191 | 1788129 | 313 | 163.9 | - | 744780254 | ribose ABC transporter permease | S. hyicus | 0E+00 |
| 1757 | 1788110 | 1789606 | 499 | 289.6 | - | 744780253 | D-ribose ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 1758 | 1789619 | 1790008 | 130 | 50.4 | - | 744780252 | D-ribose pyranase | S. hyicus | 2E-77 |
| 1759 | 1790001 | 1790882 | 294 | 172.8 | - | 744780251 | ribokinase | S. hyicus | 0E+00 |
| 1760 | 1790879 | 1791850 | 324 | 147.2 | - | 744780250 | LacI family transcriptional regulator | S. hyicus | 0E+00 |
| 1761 | 1791987 | 1793330 | 448 | 239.1 | - | 744780249 | metallo-beta-lactamase superfamily protein | S. hyicus | 0E+00 |
| 1762 | 1793343 | 1794422 | 360 | 200.6 | - | 744780248 | DsrE/DsrF/DrsH-like family protein | S. hyicus | 0E+00 |
| 1763 | 1794560 | 1794820 | 87 | 55.6 | + | 744780247 | putative transcriptional regulator | S. hyicus | 7E-51 |
| 1764 | 1794823 | 1795575 | 251 | 103.5 | + | 744780246 | membrane protein | S. hyicus | 7E-170 |
| 1765 | 1795635 | 1796957 | 441 | 257.5 | - | 744780245 | pyridine nucleotide-disulfide oxidoreductase protein | S. hyicus | 0E+00 |
| 1766 | 1796954 | 1797382 | 143 | 47.1 | - | 744780244 | transcriptional regulator | S. hyicus | 3E-101 |
| 1767 | 1797879 | 1798337 | 153 | 56.9 | - | 744780243 | putative DNA topology modulation protein FlaR | S. hyicus | 4E-109 |
| 1768 | 1798348 | 1799013 | 222 | 113.6 | - | 744780242 | peptide ABC transporter ATP-binding protein | S. hyicus | 5E-147 |
| 1769 | 1799025 | 1800074 | 350 | 138.8 | - | 744780241 | peptide ABC transporter permease | S. hyicus | 0E+00 |
| 1770 | 1800277 | 1801851 | 525 | 226.2 | + | 744780240 | acyl-CoA transferase FadX | S. hyicus | 0E+00 |
| 1771 | 1801927 | 1803432 | 502 | 266.7 | + | 744780239 | long-chain fatty acid--CoA ligase | S. hyicus | 0E+00 |
| 1772 | 1803492 | 1804700 | 403 | 241.5 | + | 744780238 | glutaryl-CoA dehydrogenase | S. hyicus | 0E+00 |
| 1773 | 1804728 | 1806989 | 754 | 386.2 | + | 744780237 | 3-hydroxyacyl-CoA dehydrogenase | S. hyicus | 0E+00 |
| 1774 | 1807012 | 1808196 | 395 | 248.7 | + | 744780236 | acetyl-CoA acetyltransferase | S. hyicus | 0E+00 |
| 1775 | 1808255 | 1809145 | 297 | 139.5 | - | 744780235 | isomerase | S. hyicus | 1E-170 |
| 1776 | 1809413 | 1810753 | 447 | 202.9 | - | 744780234 | accessory Sec system glycosyltransferase GtfB | S. hyicus | 0E+00 |
| 1777 | 1810746 | 1812254 | 503 | 254.6 | - | 744780233 | accessory Sec system glycosylation protein GtfA | S. hyicus | 0E+00 |
| 1778 | 1812270 | 1814660 | 797 | 469.4 | - | 744780232 | accessory Sec system translocase SecA2 | S. hyicus | 0E+00 |
| 1779 | 1814650 | 1815555 | 302 | 77.6 | - | 744780231 | accessory secretory protein Asp3 | S. hyicus | 1E-157 |
| 1780 | 1815542 | 1817104 | 521 | 212.8 | - | 744780230 | accessory secretory protein Asp2 | S. hyicus | 0E+00 |
| 1781 | 1817094 | 1818650 | 519 | 200.2 | - | 744780229 | accessory secretory protein Asp1 | S. hyicus | 0E+00 |
| 1782 | 1818661 | 1819884 | 408 | 133.9 | - | 744780228 | accessory Sec system translocase SecY2 | S. hyicus | 0E+00 |
| 1783 | 1820226 | 1823033 | 936 | 560.2 | + |  | No Significant Match |  |  |
| 1784 | 1825742 | 1827334 | 531 | 264.1 | + | 744780226 | L-lactate permease | S. hyicus | 0E+00 |
| 1785 | 1827370 | 1828050 | 227 | 86.5 | - | 744780225 | 6-carboxyhexanoate--CoA ligase | S. hyicus | 5E-165 |
| 1786 | 1828043 | 1829155 | 371 | 110.1 | - | 744780224 | 8-amino-7-oxononanoate synthase | S. hyicus | 0E+00 |
| 1787 | 1829158 | 1830507 | 450 | 213.9 | - | 744780223 | adenosylmethionine-8-amino-7-oxononanoate aminotransferase | S. hyicus | 0E+00 |
| 1788 | 1830482 | 1831177 | 232 | 98.6 | - | 744780222 | ATP-dependent dethiobiotin synthetase | S. hyicus | 9E-163 |
| 1789 | 1831569 | 1831892 | 108 | 6.1 | - | P37248 | Transposase for insertion sequence element IS1086 | Ralstonia metallidurans | 4E-18 |
| 1790 | 1832077 | 1832589 | 171 | 76.3 | - |  | No Significant Match |  |  |
| 1791 | 1832700 | 1833053 | 118 | 69.3 | - |  | No Significant Match |  |  |
| 1792 | 1833113 | 1833703 | 197 | 90.6 | - |  | No Significant Match |  |  |
| 1793 | 1833708 | 1834757 | 350 | 176.6 | - | 746621932 | hypothetical protein, partial | S. hyicus | 1E-23 |
| 1794 | 1834747 | 1836642 | 632 | 217.6 | - | P96644 | Uncharacterized membrane protein YddG | Bacillus subtilis | 2E-40 |
| 1795 | 1836647 | 1836910 | 88 | 29.8 | - |  | No Significant Match |  |  |
| 1796 | 1836950 | 1837177 | 76 | 28 | - |  | No Significant Match |  |  |
| 1797 | 1837208 | 1838578 | 457 | 202.6 | - | P96634 | Ftsk domain-containing protein YdcQ | Bacillus subtilis | 1E-59 |
| 1798 | 1838605 | 1838883 | 93 | 21.9 | - |  | No Significant Match |  |  |
| 1799 | 1839154 | 1840332 | 393 | 182.2 | - | O31943 | SPBc2 prophage-derived uncharacterized HTH-type transcriptional regulator YonR | Bacillus subtilis | 6E-05 |
| 1800 | 1840355 | 1841092 | 246 | 119 | - |  | No Significant Match |  |  |
| 1801 | 1841206 | 1843701 | 832 | 406.8 | - | P96642 | Uncharacterized protein YddE | Bacillus subtilis | 0E+00 |
| 1802 | 1843738 | 1844121 | 128 | 24.9 | - |  | No Significant Match |  |  |
| 1803 | 1844128 | 1844388 | 87 | 51 | - |  | No Significant Match |  |  |
| 1804 | 1844393 | 1845445 | 351 | 146.9 | - | O31491 | Uncharacterized protein YddB | Bacillus subtilis | 5E-31 |
| 1805 | 1845518 | 1846597 | 360 | 106.5 | - | P96635 | Putative DNA relaxase NicK | Bacillus subtilis | 3E-69 |
| 1806 | 1846767 | 1847072 | 102 | 16.3 | - |  | No Significant Match |  |  |
| 1807 | 1847086 | 1847406 | 107 | 56.7 | - |  | No Significant Match |  |  |
| 1808 | 1847553 | 1847837 | 95 | 19.8 | - |  | No Significant Match |  |  |
| 1809 | 1847931 | 1848371 | 147 | 35 | + | 744780221 | LytTR family transcriptional regulator | S. hyicus | 1E-99 |
| 1810 | 1848368 | 1848826 | 153 | 50.8 | + | 744780220 | membrane protein | S. hyicus | 2E-103 |
| 1811 | 1849079 | 1849858 | 260 | 72.1 | + | 744780211 | glycosyl hydrolase | S. hyicus | 4E-173 |
| 1812 | 1850050 | 1850598 | 183 | 57.7 | + | 744780211 | glycosyl hydrolase | S. hyicus | 4E-118 |
| 1813 | 1850816 | 1852138 | 441 | 172.8 | + | 744780210 | manganese transporter | S. hyicus | 0E+00 |
| 1814 | 1852220 | 1853221 | 334 | 121.5 | - | 744780209 | hypothetical protein SHYC\_00980 | S. hyicus | 0E+00 |
| 1815 | 1853235 | 1853543 | 103 | 22.1 | - | Q1WVJ7 | CRISPR-associated endoribonuclease Cas2 | Lactobacillus salivarius | 2E-27 |
| 1816 | 1853548 | 1854450 | 301 | 124.4 | - | 744780208 | CRISPR-associated protein | S. hyicus | 0E+00 |
| 1817 | 1854450 | 1857617 | 1056 | 458.8 | - | 744780207 | CRISPR-associated protein Cas9/Csn1 | S. hyicus | 0E+00 |
| 1818 | 1860367 | 1860789 | 141 | 83 | + | 744780206 | small heat shock protein | S. hyicus | 2E-95 |
| 1819 | 1860858 | 1860995 | 46 | 23.2 | - |  | No Significant Match |  |  |
| 1820 | 1861177 | 1862838 | 554 | 255.6 | + | 744780205 | FAD-binding dehydrogenase | S. hyicus | 0E+00 |
| 1821 | 1863262 | 1864851 | 530 | 259 | - | 744780204 | acyl--CoA ligase | S. hyicus | 0E+00 |
| 1822 | 1865358 | 1866365 | 336 | 152.3 | - | Q6GDG8 | Ornithine carbamoyltransferase, catabolic | S. aureus | 2E-144 |
| 1823 | 1866763 | 1867083 | 107 | 67.9 | + | 744780203 | hypothetical protein SHYC\_00935 | S. hyicus | 8E-57 |
| 1824 | 1867315 | 1867941 | 209 | 118.2 | + | 744780202 | FMN-dependent NADH-azoreductase | S. hyicus | 6E-152 |
| 1825 | 1868179 | 1870140 | 654 | 267.8 | - | 744780201 | ABC transporter permease | S. hyicus | 0E+00 |
| 1826 | 1870142 | 1870891 | 250 | 127.8 | - | 744780200 | ABC transporter ATP-binding protein | S. hyicus | 1E-169 |
| 1827 | 1870981 | 1871886 | 302 | 110.5 | - | 744780199 | histidine kinase | S. hyicus | 0E+00 |
| 1828 | 1871901 | 1872566 | 222 | 87.1 | - | 744780198 | PhoB family transcriptional regulator | S. hyicus | 5E-151 |
| 1829 | 1872752 | 1873669 | 306 | 94.5 | - | 746621690 | hypothetical protein, partial | S. hyicus | 9E-56 |
| 1830 | 1873687 | 1874439 | 251 | 81.1 | - |  | No Significant Match |  |  |
| 1831 | 1874432 | 1875346 | 305 | 143.6 | - | P42332 | Bacitracin transport ATP-binding protein BcrA | Bacillus licheniformis | 4E-64 |
| 1832 | 1875429 | 1876097 | 223 | 92.6 | - | P45607 | Phosphate regulon transcriptional regulatory protein PhoB | Shigella flexneri | 7E-39 |
| 1833 | 1876343 | 1876969 | 209 | 113.7 | - | 744780196 | hypothetical protein SHYC\_00895 | S. hyicus | 2E-87 |
| 1834 | 1877066 | 1877866 | 267 | 67 | - | 744780195 | hypothetical protein SHYC\_00890 | S. hyicus | 3E-84 |
| 1835 | 1878488 | 1879288 | 267 | 58.4 | - |  | No Significant Match |  |  |
| 1836 | 1879851 | 1881233 | 461 | 195.9 | + | 744780194 | alanine glycine permease | S. hyicus | 0E+00 |
| 1837 | 1881525 | 1882025 | 167 | 64.5 | + | 744780193 | membrane protein | S. hyicus | 2E-104 |
| 1838 | 1882186 | 1883679 | 498 | 271.1 | + | 744780192 | malate:quinone oxidoreductase | S. hyicus | 0E+00 |
| 1839 | 1883697 | 1883807 | 37 | 19.5 | + | 744780191 | hypothetical protein SHYC\_00870 | S. hyicus | 3E-18 |
| 1840 | 1883919 | 1885091 | 391 | 155.7 | - | O31577 | Uncharacterized MFS-type transporter YfhI | Bacillus subtilis | 3E-88 |
| 1841 | 1885392 | 1885850 | 153 | 53.4 | + | 744780190 | ArgR family transcriptional regulator | S. hyicus | 3E-91 |
| 1842 | 1886093 | 1887325 | 411 | 214.1 | + | 744780189 | arginine deiminase | S. hyicus | 0E+00 |
| 1843 | 1887351 | 1888355 | 335 | 200.9 | + | 744780188 | ornithine carbamoyltransferase | S. hyicus | 0E+00 |
| 1844 | 1888444 | 1889862 | 473 | 172.2 | + | 744780187 | putative arginine/ornithine antiporter | S. hyicus | 0E+00 |
| 1845 | 1889879 | 1890820 | 314 | 169.4 | + | 744780186 | carbamate kinase | S. hyicus | 0E+00 |
| 1846 | 1890840 | 1891535 | 232 | 60.1 | + | 744780185 | Crp/Fnr family transcriptional regulator | S. hyicus | 3E-170 |
| 1847 | 1891882 | 1893231 | 450 | 121.6 | - | 744780184 | transporter | S. hyicus | 0E+00 |
| 1848 | 1893225 | 1894334 | 370 | 188.4 | - | 744780183 | pyridine nucleotide-disulfide oxidoreductase | S. hyicus | 0E+00 |
| 1849 | 1894480 | 1895247 | 256 | 126.6 | - | 744780182 | tributyrin esterase | S. hyicus | 8E-162 |
| 1850 | 1895263 | 1895940 | 226 | 112 | - | 744780181 | glycine betaine/carnitine/choline transport system permease protein | S. hyicus | 1E-155 |
| 1851 | 1895940 | 1896884 | 315 | 158.6 | - | 744780180 | glycine/betaine ABC transporter substrate-binding protein | S. hyicus | 0E+00 |
| 1852 | 1896900 | 1897535 | 212 | 101.6 | - | 744780179 | glycine betaine/carnitine/choline ABC transporter permease | S. hyicus | 3E-145 |
| 1853 | 1897532 | 1898713 | 394 | 221.8 | - | 744780178 | putative glycine betaine/carnitine/choline transport ATP-binding protein | S. hyicus | 0E+00 |
| 1854 | 1899041 | 1899607 | 189 | 98.5 | - | P39897 | HTH-type transcriptional regulator MtrR | Neisseria gonorrhoeae | 4E-05 |
| 1855 | 1899754 | 1901094 | 447 | 200.8 | - | P76350 | Shikimate transporter | Escherichia coli | 9E-89 |
| 1856 | 1901409 | 1901579 | 57 | 10.4 | + |  | No Significant Match |  |  |
| 1857 | 1901811 | 1902026 | 72 | 24.6 | - |  | No Significant Match |  |  |
| 1858 | 1902143 | 1902862 | 240 | 90.1 | - | 744780177 | membrane protein | S. hyicus | 3E-36 |
| 1859 | 1902859 | 1903062 | 68 | 33 | - | 744780176 | XRE family transcriptional regulator | S. hyicus | 1E-36 |
| 1860 | 1903186 | 1904382 | 399 | 173.3 | - | 744780175 | pyridine nucleotide-disulfide oxidoreductase | S. hyicus | 0E+00 |
| 1861 | 1904503 | 1905186 | 228 | 114 | + | 744780174 | hypothetical protein SHYC\_00785 | S. hyicus | 2E-114 |
| 1862 | 1905431 | 1906774 | 448 | 149.5 | - |  | No Significant Match |  |  |
| 1863 | 1906806 | 1908311 | 502 | 209.2 | - | 744780173 | deoxyribodipyrimidine photolyase | S. hyicus | 0E+00 |
| 1864 | 1908345 | 1908815 | 157 | 24.5 | - | 744780172 | TspO/MBR family protein | S. hyicus | 4E-78 |
| 1865 | 1908862 | 1910286 | 475 | 219.5 | - | 744780171 | NAD dependent epimerase/dehydratase | S. hyicus | 0E+00 |
| 1866 | 1910468 | 1910971 | 168 | 83.6 | - | 744780170 | hypothetical protein SHYC\_00765 | S. hyicus | 1E-92 |
| 1867 | 1911156 | 1911653 | 166 | 46.1 | - | 744780169 | hypothetical protein SHYC\_00760 | S. hyicus | 2E-46 |
| 1868 | 1911812 | 1912552 | 247 | 121.8 | + | 744780168 | NAD-dependent deacetylase | S. hyicus | 6E-137 |
| 1869 | 1912569 | 1913435 | 289 | 132.7 | - | 744780166 | alpha/beta hydrolase | S. hyicus | 3E-156 |
| 1870 | 1913563 | 1914738 | 392 | 240 | - | 744780348 | phosphopentomutase | S. hyicus | 0E+00 |
| 1871 | 1914768 | 1915430 | 221 | 158.7 | - | 744780164 | deoxyribose-phosphate aldolase | S. hyicus | 7E-154 |
| 1872 | 1915443 | 1916801 | 453 | 196.8 | - | 744780163 | major facilitator transporter | S. hyicus | 0E+00 |
| 1873 | 1916815 | 1917522 | 236 | 119.7 | - | 744780162 | purine-nucleoside phosphorylase | S. hyicus | 1E-172 |
| 1874 | 1917748 | 1918491 | 248 | 101.6 | - | 744780161 | GntR family transcriptional regulator | S. hyicus | 0E+00 |
| 1875 | 1918789 | 1919541 | 251 | 91.3 | - | 744780160 | putative CAAX protease | S. hyicus | 1E-160 |
| 1876 | 1919775 | 1920515 | 247 | 88.7 | - | 744780158 | CAAX amino terminal protease | S. hyicus | 1E-167 |
| 1877 | 1920542 | 1921597 | 352 | 94.9 | - | 744780157 | hypothetical protein SHYC\_00700 | S. hyicus | 0E+00 |
| 1878 | 1922145 | 1922621 | 159 | 58.4 | - | 744780156 | putative acetyltransferase | S. hyicus | 9E-111 |
| 1879 | 1922677 | 1923381 | 235 | 100.8 | - | 744780155 | GntR family transcriptional regulator | S. hyicus | 7E-169 |
| 1880 | 1923539 | 1924981 | 481 | 180.1 | + | 744780154 | 6-phospho-beta-glucosidase | S. hyicus | 0E+00 |
| 1881 | 1925169 | 1925375 | 69 | 29.8 | - | 744780153 | XRE family transcriptional regulator | S. hyicus | 3E-40 |
| 1882 | 1925386 | 1925853 | 156 | 66.5 | - | 744780152 | hypothetical protein SHYC\_00675 | S. hyicus | 2E-83 |
| 1883 | 1925981 | 1926478 | 166 | 68 | - | 746621660 | hypothetical protein, partial | S. hyicus | 4E-43 |
| 1884 | 1926691 | 1927557 | 289 | 131.6 | - | 744780151 | alpha/beta hydrolase | S. hyicus | 2E-154 |
| 1885 | 1927862 | 1928548 | 229 | 84.4 | + | P42421 | Transcriptional regulatory protein YxdJ | Bacillus subtilis | 4E-65 |
| 1886 | 1928538 | 1929527 | 330 | 121.1 | + | P42422 | Sensor histidine kinase YxdK | Bacillus subtilis | 3E-43 |
| 1887 | 1929714 | 1930469 | 252 | 131.4 | + | P42423 | ABC transporter ATP-binding protein YxdL | Bacillus subtilis | 2E-97 |
| 1888 | 1930456 | 1932309 | 618 | 129.6 | + | P42424 | ABC transporter permease protein YxdM | Bacillus subtilis | 1E-43 |
| 1889 | 1932528 | 1933517 | 330 | 199.1 | + | 744780149 | iron ABC transporter substrate-binding protein | S. hyicus | 0E+00 |
| 1890 | 1933529 | 1934524 | 332 | 121.3 | + | 744780148 | siderophore ABC transporter permease | S. hyicus | 0E+00 |
| 1891 | 1934521 | 1935519 | 333 | 117.2 | + | 744780147 | iron ABC transporter permease | S. hyicus | 0E+00 |
| 1892 | 1935836 | 1937368 | 511 | 260.5 | - | 744780146 | zinc ABC transporter substrate-binding protein | S. hyicus | 0E+00 |
| 1893 | 1937686 | 1939404 | 573 | 296.7 | + | 744780145 | putative IgG-binding protein | S. hyicus | 0E+00 |
| 1894 | 1939515 | 1940894 | 460 | 192.3 | + | 744780145 | putative IgG-binding protein | S. hyicus | 0E+00 |
| 1895 | 1940994 | 1942769 | 592 | 244 | - | 744780144 | hypothetical protein SHYC\_00630 | S. hyicus | 0E+00 |
| 1896 | 1942933 | 1943523 | 197 | 66.5 | + | 744780143 | TetR family transcriptional regulator | S. hyicus | 3E-140 |
| 1897 | 1943579 | 1946386 | 936 | 468.5 | - | 744780142 | hypothetical protein, similar to phage infection protein | S. hyicus | 0E+00 |
| 1898 | 1946596 | 1948539 | 648 | 249.8 | + | 744780141 | N-acetylmuramoyl-L-alanine amidase | S. hyicus | 0E+00 |
| 1899 | 1948591 | 1950255 | 555 | 228.9 | - | 744780140 | surface protein | S. hyicus | 0E+00 |
| 1900 | 1950653 | 1951438 | 262 | 98.9 | - | 744780135 | tandem lipoprotein | S. hyicus | 3E-106 |
| 1901 | 1951567 | 1952364 | 266 | 104.5 | - | 744780132 | tandem lipoprotein | S. hyicus | 1E-140 |
| 1902 | 1952734 | 1952847 | 38 | 13.1 | - | 744780139 | hypothetical protein SHYC\_00605 | S. hyicus | 5E-06 |
| 1903 | 1952847 | 1953491 | 215 | 70.8 | - | 744780136 | tandem lipoprotein | S. hyicus | 2E-103 |
| 1904 | 1953494 | 1953649 | 52 | 5 | - | 744780128 | hypothetical protein SHYC\_00550 | S. hyicus | 3E-08 |
| 1905 | 1954116 | 1954844 | 243 | 105.2 | - | 744780133 | tandem lipoprotein | S. hyicus | 2E-116 |
| 1906 | 1955294 | 1955710 | 139 | 58 | - | 744780127 | cytidine deaminase | S. hyicus | 4E-95 |
| 1907 | 1955723 | 1956301 | 193 | 82.1 | - | 744780126 | transcriptional regulator | S. hyicus | 6E-126 |
| 1908 | 1956884 | 1957582 | 233 | 119.2 | + | 744780124 | superantigen-like protein | S. hyicus | 1E-70 |
| 1909 | 1957610 | 1959703 | 698 | 418.4 | + | 744780123 | surface protein | S. hyicus | 0E+00 |
| 1910 | 1959935 | 1961452 | 506 | 293.8 | + | 744780122 | surface protein | S. hyicus | 0E+00 |
| 1911 | 1961592 | 1962308 | 239 | 95.2 | + | 744780121 | superantigen-like protein | S. hyicus | 3E-131 |
| 1912 | 1962665 | 1966216 | 1184 | 582.1 | + | 746621644 | hypothetical protein, partial | S. hyicus | 0E+00 |
| 1913 | 1966470 | 1967159 | 230 | 121.7 | + | 744780119 | superantigen-like protein | S. hyicus | 6E-140 |
| 1914 | 1967330 | 1968040 | 237 | 89.7 | + | 746621641 | hypothetical protein, partial | S. hyicus | 3E-153 |
| 1915 | 1968245 | 1968958 | 238 | 127 | + | 744780117 | superantigen-like protein | S. hyicus | 4E-164 |
| 1916 | 1969263 | 1969424 | 54 | 8.8 | - |  | No Significant Match |  |  |
| 1917 | 1969450 | 1969995 | 182 | 47.1 | - | 744780116 | ribonucleoside-triphosphate reductase activating protein | S. hyicus | 3E-114 |
| 1918 | 1969970 | 1971832 | 621 | 287.1 | - | 744780115 | ribonucleoside-triphosphate reductase | S. hyicus | 0E+00 |
| 1919 | 1972076 | 1973002 | 309 | 183.3 | - | 744780114 | L-lactate dehydrogenase | S. hyicus | 0E+00 |
| 1920 | 1973419 | 1974309 | 297 | 172.6 | - | 744780110 | acid phosphatase | S. hyicus | 0E+00 |
| 1921 | 1974665 | 1975165 | 167 | 38.1 | + | 744780109 | hypothetical protein SHYC\_00430 | S. hyicus | 6E-118 |
| 1922 | 1975259 | 1977487 | 743 | 252.6 | + | 744780108 | AraC family transcriptional regulator | S. hyicus | 0E+00 |
| 1923 | 1977626 | 1978813 | 396 | 236.4 | + | 744780107 | amidohydrolase | S. hyicus | 0E+00 |
| 1924 | 1978806 | 1980194 | 463 | 208 | + | 744780106 | Major Facilitator Superfamily protein | S. hyicus | 0E+00 |
| 1925 | 1980407 | 1981165 | 253 | 166.5 | + | 744780103 | 3-ketoacyl-ACP reductase | S. hyicus | 1E-173 |
| 1926 | 1981276 | 1982040 | 255 | 85.5 | - | 744780102 | siderophore biosynthesis protein SbnI | S. hyicus | 0E+00 |
| 1927 | 1982000 | 1983286 | 429 | 161 | - | 744780101 | siderophore staphylobactin biosynthesis protein SbnH | S. hyicus | 0E+00 |
| 1928 | 1983283 | 1984056 | 258 | 144.7 | - | 744780100 | siderophore biosynthesis protein SbnG | S. hyicus | 0E+00 |
| 1929 | 1984037 | 1985806 | 590 | 251.7 | - | 744780099 | siderophore biosynthesis protein SbnF | S. hyicus | 0E+00 |
| 1930 | 1985793 | 1987487 | 565 | 196.6 | - | 744780098 | siderophore biosynthesis protein SbnE | S. hyicus | 0E+00 |
| 1931 | 1987468 | 1988736 | 423 | 102 | - | 744780097 | siderophore biosynthesis protein SbnD | S. hyicus | 0E+00 |
| 1932 | 1988729 | 1990489 | 587 | 220.3 | - | 746617730 | siderophore biosynthesis protein SbnC | S. hyicus | 0E+00 |
| 1933 | 1990533 | 1991543 | 337 | 183.7 | - | 744780095 | 2,3-diaminopropionate biosynthesis protein SbnB | S. hyicus | 0E+00 |
| 1934 | 1991656 | 1992642 | 329 | 159.7 | - | 744780094 | 2,3-diaminopropionate biosynthesis protein SbnA | S. hyicus | 0E+00 |
| 1935 | 1992894 | 1993595 | 234 | 85.5 | - | 744780093 | two-component system, OmpR family, KDP operon response regulator KdpE | S. hyicus | 6E-172 |
| 1936 | 1993592 | 1996102 | 837 | 326.6 | - | 744780092 | Osmosensitive K+ channel histidine kinase KdpD | S. hyicus | 0E+00 |
| 1937 | 1996275 | 1996379 | 35 | 14.2 | + |  | No Significant Match |  |  |
| 1938 | 1996471 | 1998141 | 557 | 174.6 | + | 744780091 | potassium-transporting ATPase subunit A | S. hyicus | 0E+00 |
| 1939 | 1998138 | 2000132 | 665 | 295.8 | + | 744780090 | potassium-transporting ATPase subunit B | S. hyicus | 0E+00 |
| 1940 | 2000147 | 2000728 | 194 | 59.6 | + | 744780089 | potassium-transporting ATPase subunit C | S. hyicus | 2E-135 |
| 1941 | 2001246 | 2002679 | 478 | 249.1 | + | 744780088 | immunoglobulin G-binding protein | S. hyicus | 0E+00 |
| 1942 | 2003069 | 2003245 | 59 | 17.9 | - |  | No Significant Match |  |  |
| 1943 | 2003214 | 2003462 | 83 | 48.6 | - | 746621660 | hypothetical protein, partial | S. hyicus | 2E-26 |
| 1944 | 2003836 | 2004174 | 113 | 43.5 | - | Q9QY93 | dCTP pyrophosphatase 1 | Mus musculus | 9E-18 |
| 1945 | 2004167 | 2004502 | 112 | 22.2 | - | Q12179 | Uncharacterized protein YPL245W | Saccharomyces cerevisiae | 8E-14 |
| 1946 | 2004701 | 2005420 | 240 | 39.6 | - | Q45592 | Probable peptide export permease protein YydJ | Bacillus subtilis | 3E-81 |
| 1947 | 2005440 | 2006066 | 209 | 60.4 | - | Q45593 | Probable peptide export ATP-binding protein YydI | Bacillus subtilis | 1E-65 |
| 1948 | 2006357 | 2006944 | 196 | 61.8 | + |  | No Significant Match |  |  |
| 1949 | 2007239 | 2007481 | 81 | 25 | + |  | No Significant Match |  |  |
| 1950 | 2008038 | 2011160 | 1041 | 547.2 | - | 744780073 | type I restriction-modification system endonuclease HsdR | S. hyicus | 0E+00 |
| 1951 | 2011144 | 2012439 | 432 | 167.9 | - | 744780072 | type I restriction-modification system specificity determinant protein | S. hyicus | 3E-63 |
| 1952 | 2012429 | 2013940 | 504 | 298.6 | - | 744780071 | type I restriction-modification system, M subunit | S. hyicus | 0E+00 |
| 1953 | 2014101 | 2015495 | 465 | 166.1 | + | 744780070 | hypothetical protein SHYC\_00225 | S. hyicus | 0E+00 |
| 1954 | 2015789 | 2016076 | 96 | 3.1 | - | 746617687 | hypothetical protein | S. hyicus | 2E-42 |
| 1955 | 2016414 | 2016806 | 131 | 11.3 | - |  | No Significant Match |  |  |
| 1956 | 2017034 | 2017513 | 160 | 75.8 | - | 744780069 | ribosomal RNA large subunit methyltransferase H | S. hyicus | 1E-112 |
| 1957 | 2017910 | 2018308 | 133 | 44.7 | - | 744780068 | arsenate reductase | S. hyicus | 8E-94 |
| 1958 | 2018326 | 2019615 | 430 | 151 | - | 744780067 | arsenical pump membrane protein ArsB | S. hyicus | 0E+00 |
| 1959 | 2019612 | 2019932 | 107 | 34.4 | - | 744780066 | ArsR family transcriptional regulator | S. hyicus | 8E-67 |
| 1960 | 2020045 | 2020827 | 261 | 105.4 | - | 744780065 | metallo-beta-lactamase family protein YycJ | S. hyicus | 0E+00 |
| 1961 | 2020853 | 2021629 | 259 | 101.1 | - | 744780064 | YycI family protein | S. hyicus | 0E+00 |
| 1962 | 2021626 | 2022912 | 429 | 165.8 | - | 744780063 | YycH family protein | S. hyicus | 0E+00 |
| 1963 | 2022953 | 2024785 | 611 | 314.7 | - | 744780062 | sensor histidine kinase | S. hyicus | 0E+00 |
| 1964 | 2024798 | 2025499 | 234 | 131.9 | - | 744780061 | PhoP family transcriptional regulator | S. hyicus | 5E-169 |
| 1965 | 2026208 | 2026321 | 38 | 10.3 | + | 744780060 | hypothetical protein SHYC\_00155 | S. hyicus | 6E-15 |
| 1966 | 2026570 | 2027856 | 429 | 286.6 | - | 744780059 | adenylosuccinate synthetase | S. hyicus | 0E+00 |
| 1967 | 2028161 | 2029561 | 467 | 270.1 | - | 744780058 | replicative DNA helicase | S. hyicus | 0E+00 |
| 1968 | 2029853 | 2030299 | 149 | 107.2 | - | 744780057 | 50S ribosomal protein L9 | S. hyicus | 1E-100 |
| 1969 | 2030296 | 2032263 | 656 | 371.4 | - | 744780056 | DHH family phosphoesterase | S. hyicus | 0E+00 |
| 1970 | 2032275 | 2033180 | 302 | 87.1 | - | 746617656 | membrane protein | S. hyicus | 0E+00 |
| 1971 | 2033520 | 2034557 | 346 | 113.3 | - | 744780054 | homoserine O-acetyltransferase | S. hyicus | 0E+00 |
| 1972 | 2034719 | 2035048 | 110 | 39.4 | - | 744780053 | putative branched-chain amino acid transport protein | S. hyicus | 1E-68 |
| 1973 | 2035045 | 2035737 | 231 | 103.7 | - | 744780052 | putative branched-chain amino acid permease | S. hyicus | 9E-162 |
| 1974 | 2036038 | 2036421 | 128 | 80.4 | - | 744780051 | gas vesicle protein GvpU | S. hyicus | 5E-86 |
| 1975 | 2036440 | 2037846 | 469 | 370.8 | - | 744780050 | hypothetical protein SHYC\_00105 | S. hyicus | 9E-10 |
| 1976 | 2037852 | 2038703 | 284 | 103.6 | - | 744780049 | hypothetical protein SHYC\_00100 | S. hyicus | 3E-123 |
| 1977 | 2038672 | 2039085 | 138 | 99.7 | - | 744780048 | gas vesicle protein GvpJ | S. hyicus | 5E-90 |
| 1978 | 2039111 | 2039401 | 97 | 67 | - | 744780047 | gas vesicle protein GvpK | S. hyicus | 1E-58 |
| 1979 | 2039340 | 2039645 | 102 | 55.4 | - | 744780046 | gas vesicle protein GvpS | S. hyicus | 3E-64 |
| 1980 | 2039664 | 2040473 | 270 | 135.5 | - | 744780045 | gas vesicle protein GvpL | S. hyicus | 0E+00 |
| 1981 | 2040475 | 2040729 | 85 | 60 | - | 744780044 | gas vesicle protein GvpG | S. hyicus | 1E-51 |
| 1982 | 2040729 | 2041496 | 256 | 155.8 | - | 744780043 | gas vesicle protein GvpL/GvpF | S. hyicus | 0E+00 |
| 1983 | 2041595 | 2041873 | 93 | 55.3 | - | 744780042 | gas vesicle protein GvpR | S. hyicus | 3E-60 |
| 1984 | 2041958 | 2042305 | 116 | 85 | - | 744780041 | gas vesicle synthesis protein GvpA | S. hyicus | 6E-74 |
| 1985 | 2042397 | 2042885 | 163 | 83.5 | - | 744780040 | gas vesicle protein GvpQ | S. hyicus | 4E-96 |
| 1986 | 2043770 | 2045050 | 427 | 283.1 | - | 744780039 | seryl-tRNA synthetase | S. hyicus | 0E+00 |
| 1987 | 2045356 | 2046858 | 501 | 290.4 | - | 744780038 | histidine ammonia-lyase | S. hyicus | 0E+00 |
| 1988 | 2047129 | 2047941 | 271 | 155.8 | + | 744780037 | carbohydrate kinase | S. hyicus | 0E+00 |
| 1989 | 2047984 | 2050644 | 887 | 562.7 | - | 744780036 | DNA gyrase subunit A | S. hyicus | 0E+00 |
| 1990 | 2050681 | 2052603 | 641 | 380.9 | - | 746617625 | DNA gyrase subunit B | S. hyicus | 0E+00 |
| 1991 | 2052625 | 2053740 | 372 | 158.2 | - | 744780034 | recombinase RecF | S. hyicus | 0E+00 |
| 1992 | 2053737 | 2053976 | 80 | 43.8 | - | 744780033 | S4 domain-containing protein | S. hyicus | 2E-50 |
| 1993 | 2054083 | 2054787 | 235 | 112.5 | - | 744780032 | protein-disulfide isomerase | S. hyicus | 2E-127 |
| 1994 | 2054933 | 2056066 | 378 | 197.4 | - | 744780031 | DNA polymerase III subunit beta | S. hyicus | 0E+00 |
| 1995 | 2056247 | 2057587 | 447 | 220.6 | - | 744780030 | chromosomal replication initiation protein | S. hyicus | 0E+00 |
| 1996 | 2058127 | 2058264 | 46 | 20.9 | + | Q49UI2 | 50S ribosomal protein L34 | S. saprophyticus | 3E-23 |
| 1997 | 2058416 | 2058763 | 116 | 32.4 | + | 744782306 | ribonuclease P protein component | S. hyicus | 1E-71 |
| 1998 | 2058947 | 2060329 | 461 | 297.8 | + | 744782305 | tRNA modification GTPase MnmE | S. hyicus | 0E+00 |
| 1999 | 2060346 | 2062220 | 625 | 403.7 | + | 744782304 | tRNA uridine 5-carboxymethylaminomethyl modification enzyme MnmG | S. hyicus | 0E+00 |
| 2000 | 2062221 | 2062940 | 240 | 128.6 | + | 744782303 | ribosomal RNA small subunit methyltransferase G | S. hyicus | 2E-166 |
| 2001 | 2062980 | 2063837 | 286 | 160.3 | + | 744782302 | nucleoid occlusion protein | S. hyicus | 0E+00 |
| 2002 | 2064189 | 2064716 | 176 | 93.6 | - | 744782301 | carboxylesterase/hydrolase MhqD | S. hyicus | 1E-115 |
| 2003 | 2064717 | 2065352 | 212 | 85.2 | - | 744782300 | hypothetical protein SHYC\_12010 | S. hyicus | 2E-143 |
| 2004 | 2065377 | 2066336 | 320 | 197 | - | 744782299 | putative ring-cleaving dioxygenase MhqA | S. hyicus | 0E+00 |
| 2005 | 2066412 | 2066840 | 143 | 73.5 | - | 744782298 | HTH-type transcriptional regulator MhqR | S. hyicus | 2E-97 |
| 2006 | 2067117 | 2068034 | 306 | 157.9 | + | 744782297 | glycyl-glycine endopeptidase LytM | S. hyicus | 0E+00 |
| 2007 | 2068199 | 2068594 | 132 | 73 | + | 744782295 | hypothetical protein SHYC\_11985 | S. hyicus | 6E-77 |
| 2008 | 2068871 | 2069368 | 166 | 46.3 | - | 744782294 | hypothetical protein SHYC\_11980 | S. hyicus | 5E-115 |
| 2009 | 2069687 | 2069791 | 35 | 14.3 | - | 744782294 | hypothetical protein SHYC\_11980 | S. hyicus | 3E-13 |
| 2010 | 2070024 | 2070539 | 172 | 109.4 | - | 744782293 | YceI domain protein | S. hyicus | 1E-116 |
| 2011 | 2070969 | 2072426 | 486 | 199.3 | + | O86233 | Uncharacterized membrane protein HI\_1126.1 | Haemophilus influenzae | 5E-87 |
| 2012 | 2072604 | 2073056 | 151 | 99.9 | + | 744782292 | urease accessory protein UreE | S. hyicus | 1E-97 |
| 2013 | 2073049 | 2073738 | 230 | 117.8 | + | 744782291 | urease accessory protein UreF | S. hyicus | 4E-160 |
| 2014 | 2073750 | 2074361 | 204 | 129.7 | + | 744782290 | urease accessory protein UreG | S. hyicus | 4E-144 |
| 2015 | 2074363 | 2075196 | 278 | 116.8 | + | 744782289 | urease accessory protein UreD | S. hyicus | 0E+00 |
| 2016 | 2075318 | 2076532 | 405 | 197.6 | - | 744782287 | hypothetical protein SHYC\_11945 | S. hyicus | 0E+00 |
| 2017 | 2076791 | 2077414 | 208 | 65.3 | - | 744782286 | LysE family L-lysine exporter | S. hyicus | 2E-128 |
| 2018 | 2077411 | 2077674 | 88 | 16.3 | - |  | No Significant Match |  |  |
| 2019 | 2077817 | 2078044 | 76 | 22.7 | - | 744782285 | membrane protein | S. hyicus | 3E-43 |
| 2020 | 2078364 | 2079107 | 248 | 113.9 | - | 744782284 | cyclase family protein | S. hyicus | 1E-173 |
| 2021 | 2079132 | 2081375 | 748 | 462.9 | - | 744782283 | 5-methyltetrahydropteroyltriglutamate-- homocysteine methyltransferase | S. hyicus | 0E+00 |
| 2022 | 2081372 | 2083213 | 614 | 251.7 | - | 744782282 | bifunctional homocysteine S-methyltransferase/5,10-methylenetetrahydrofolate reductase protein | S. hyicus | 0E+00 |
| 2023 | 2083167 | 2084342 | 392 | 169.6 | - | 744782281 | cystathionine beta-lyase MetC | S. hyicus | 0E+00 |
| 2024 | 2084339 | 2085442 | 368 | 191.3 | - | 744782280 | cystathionine gamma-synthase/O-acetylhomoserine (thiol)-lyase | S. hyicus | 0E+00 |
| 2025 | 2086001 | 2086828 | 276 | 127.5 | + | 744782279 | chromosome partitioning protein ParB | S. hyicus | 3E-174 |
| 2026 | 2086856 | 2087746 | 297 | 145.2 | + | 744782278 | mechanosensitive ion channel protein MscS | S. hyicus | 0E+00 |
| 2027 | 2087778 | 2087984 | 69 | 26.6 | + | 744782277 | hypothetical protein SHYC\_11895 | S. hyicus | 1E-42 |
| 2028 | 2087991 | 2089088 | 366 | 267.8 | + | 744782276 | ribosome-binding ATPase YchF | S. hyicus | 0E+00 |
| 2029 | 2089135 | 2089356 | 74 | 11 | - | 744782275 | hypothetical protein SHYC\_11888 | S. hyicus | 7E-43 |
| 2030 | 2089748 | 2090383 | 212 | 126.5 | - | 744782274 | NADH-flavin reductase family protein | S. hyicus | 7E-130 |
| 2031 | 2090593 | 2090889 | 99 | 57.8 | + | 744782273 | 30S ribosomal protein S6 | S. hyicus | 1E-63 |
| 2032 | 2090913 | 2091419 | 169 | 77 | + | 744782272 | single-stranded DNA-binding protein | S. hyicus | 1E-119 |
| 2033 | 2091465 | 2091707 | 81 | 55.2 | + | 744782271 | 30S ribosomal protein S18 | S. hyicus | 2E-52 |
| 2034 | 2091864 | 2092565 | 234 | 81.7 | + | 744782270 | putative metal-dependent membrane protease | S. hyicus | 3E-108 |
| 2035 | 2092638 | 2093015 | 126 | 61.9 | - | 744782269 | hypothetical protein SHYC\_11860 | S. hyicus | 2E-70 |
| 2036 | 2093170 | 2093472 | 101 | 46.5 | + | 744782268 | PadR family transcriptional regulator | S. hyicus | 3E-61 |
| 2037 | 2093485 | 2094642 | 386 | 166 | + | 744782267 | putative chromate transporter protein ChrA | S. hyicus | 0E+00 |
| 2038 | 2094766 | 2095962 | 399 | 233.2 | + | P42100 | Glycerate kinase | Bacillus subtilis | 1E-94 |
| 2039 | 2095964 | 2097361 | 466 | 130.3 | + | 744780484 | transporter | S. hyicus | 1E-24 |
| 2040 | 2097371 | 2098048 | 226 | 133.3 | + | O34903 | Uncharacterized transcriptional regulatory protein YkoG | Bacillus subtilis | 1E-84 |
| 2041 | 2098053 | 2099423 | 457 | 181.9 | + | O34638 | Sensor histidine kinase YkoH | Bacillus subtilis | 6E-91 |
| 2042 | 2099407 | 2100105 | 233 | 94.8 | + |  | No Significant Match |  |  |
| 2043 | 2100240 | 2101232 | 331 | 173.2 | + | 744782266 | biotin synthase | S. hyicus | 0E+00 |
| 2044 | 2101380 | 2102330 | 317 | 185.9 | + | 744782265 | hypothetical protein SHYC\_11840 | S. hyicus | 0E+00 |
| 2045 | 2102451 | 2102924 | 158 | 32.9 | - | 744782264 | BioX protein | S. hyicus | 3E-92 |
| 2046 | 2103136 | 2104659 | 508 | 321 | - | 744782263 | alkyl hydroperoxide reductase subunit F | S. hyicus | 0E+00 |
| 2047 | 2105001 | 2105570 | 190 | 116.3 | - | 744782262 | alkyl hydroperoxide reductase subunit C | S. hyicus | 2E-139 |
| 2048 | 2105940 | 2106716 | 259 | 127 | - | 744782261 | putative 2-keto-4-pentenoate hydratase | S. hyicus | 4E-164 |
| 2049 | 2106858 | 2107613 | 252 | 144.1 | + | 744782260 | NADPH-dependent oxidoreductase | S. hyicus | 7E-173 |
| 2050 | 2107654 | 2109045 | 464 | 230.1 | - | 744782259 | L-cystine uptake protein TcyP | S. hyicus | 0E+00 |
| 2051 | 2109120 | 2110226 | 369 | 163.7 | - | 744782258 | glycine oxidase | S. hyicus | 0E+00 |
| 2052 | 2110438 | 2111040 | 201 | 121.9 | - | 744782257 | hypothetical protein SHYC\_11800 | S. hyicus | 5E-136 |
| 2053 | 2111153 | 2111827 | 225 | 112.9 | - | 744782256 | hypothetical protein SHYC\_11795 | S. hyicus | 1E-154 |
| 2054 | 2111972 | 2112382 | 137 | 95.9 | - | 744782255 | hypothetical protein SHYC\_11790 | S. hyicus | 4E-92 |
| 2055 | 2112976 | 2113557 | 194 | 95.1 | + | 744782254 | xanthine phosphoribosyltransferase | S. hyicus | 7E-137 |
| 2056 | 2113557 | 2114825 | 423 | 216.8 | + | 744782253 | xanthine permease | S. hyicus | 0E+00 |
| 2057 | 2114861 | 2116327 | 489 | 347.1 | + | 744782252 | inosine-5-monophosphate dehydrogenase | S. hyicus | 0E+00 |
| 2058 | 2116348 | 2117889 | 514 | 312.1 | + | 744782251 | GMP synthase | S. hyicus | 0E+00 |
| 2059 | 2118053 | 2118355 | 101 | 49.4 | + |  | No Significant Match |  |  |
| 2060 | 2118817 | 2119374 | 186 | 106 | + |  | No Significant Match |  |  |
| 2061 | 2119392 | 2119583 | 64 | 8.2 | + |  | No Significant Match |  |  |
| 2062 | 2119771 | 2120094 | 108 | 40.9 | + |  | No Significant Match |  |  |
| 2063 | 2121219 | 2121683 | 155 | 82.3 | + |  | No Significant Match |  |  |
| 2064 | 2121903 | 2122427 | 175 | 38.9 | + |  | No Significant Match |  |  |
| 2065 | 2122424 | 2122513 | 30 | 2.9 | + |  | No Significant Match |  |  |
| 2066 | 2122696 | 2123616 | 307 | 79.4 | - | 9757655 | exfoliative toxin A | S. hyicus | 0E+00 |
| 2067 | 2123953 | 2124228 | 92 | 41.4 | + | 744782247 | hypothetical protein SHYC\_11750 | S. hyicus | 3E-49 |
| 2068 | 2124579 | 2125274 | 232 | 64.2 | - |  | No Significant Match |  |  |
| 2069 | 2125632 | 2125733 | 34 | 4.6 | - |  | No Significant Match |  |  |
| 2070 | 2125687 | 2126241 | 185 | 90.1 | - |  | No Significant Match |  |  |
| 2071 | 2126483 | 2127457 | 325 | 148.5 | + | 744782244 | catabolite control protein A | S. hyicus | 0E+00 |
| 2072 | 2127559 | 2128521 | 321 | 168.2 | + | 744782243 | putative fructokinase | S. hyicus | 0E+00 |
| 2073 | 2128538 | 2129956 | 473 | 240 | + | 744782242 | PTS sugar transporter subunit IIBC | S. hyicus | 0E+00 |
| 2074 | 2130061 | 2130669 | 203 | 50 | - | 744782241 | membrane protein | S. hyicus | 8E-142 |
| 2075 | 2130840 | 2133239 | 800 | 359.1 | + | 744782240 | hyaluronate lyase | S. hyicus | 0E+00 |
| 2076 | 2133489 | 2133587 | 33 | 0.8 | - |  | No Significant Match |  |  |
| 2077 | 2133712 | 2133963 | 84 | 42.1 | + |  | No Significant Match |  |  |
| 2078 | 2134232 | 2134570 | 113 | 47.6 | + | 744782239 | membrane protein | S. hyicus | 1E-60 |
| 2079 | 2134684 | 2135061 | 126 | 28.9 | + | 744782238 | hypothetical protein SHYC\_11700 | S. hyicus | 2E-61 |
| 2080 | 2135065 | 2135385 | 107 | 59.7 | + | 744782237 | heme-degrading monooxygenase IsdI | S. hyicus | 6E-74 |
| 2081 | 2135689 | 2136471 | 261 | 112.2 | + | 744782235 | iron complex transport system substrate-binding protein | S. hyicus | 0E+00 |
| 2082 | 2136738 | 2137529 | 264 | 97.8 | + | 744782234 | putative glutamyl-endopeptidase | S. hyicus | 4E-135 |
| 2083 | 2137823 | 2139316 | 498 | 255.9 | + | 744782233 | coagulase-related protein | S. hyicus | 0E+00 |
| 2084 | 2139878 | 2141380 | 501 | 255.2 | + | 744782232 | coagulase-related protein | S. hyicus | 1E-102 |
| 2085 | 2141632 | 2142315 | 228 | 87.2 | + | 744782231 | YjjG/YfnB family hydrolase | S. hyicus | 2E-154 |
| 2086 | 2142408 | 2142989 | 194 | 113 | - | 746621474 | hypothetical protein | S. hyicus | 3E-67 |
| 2087 | 2143252 | 2144061 | 270 | 83.1 | + | 744782230 | hypothetical protein SHYC\_11655 | S. hyicus | 0E+00 |
| 2088 | 2144071 | 2144820 | 250 | 125.8 | + | 744782229 | hypothetical protein SHYC\_11650 | S. hyicus | 2E-175 |
| 2089 | 2144893 | 2146185 | 431 | 170.8 | + | 744782228 | hypothetical protein SHYC\_11645 | S. hyicus | 0E+00 |
| 2090 | 2146214 | 2147812 | 533 | 313.7 | + | 744782227 | ABC-type dipeptide/oligopeptide/nickel transport systems, substrate binding lipoprotein | S. hyicus | 0E+00 |
| 2091 | 2147824 | 2148756 | 311 | 109 | + | 744782226 | ABC-type dipeptide/oligopeptide/nickel transport systems, permease component | S. hyicus | 0E+00 |
| 2092 | 2148757 | 2149623 | 289 | 121.3 | + | 744782225 | ABC-type dipeptide/oligopeptide/nickel transport systems, permease component | S. hyicus | 0E+00 |
| 2093 | 2149620 | 2150438 | 273 | 107.7 | + | 744782224 | ABC-type dipeptide/oligopeptide/nickel transport systems, ATP-binding protein | S. hyicus | 0E+00 |
| 2094 | 2150432 | 2151172 | 247 | 127.9 | + | 744782223 | ABC-type dipeptide/oligopeptide/nickel transport systems, ATP-binding protein | S. hyicus | 0E+00 |
| 2095 | 2151184 | 2152374 | 397 | 185.6 | + | 744782222 | major facilitator superfamily transporter | S. hyicus | 0E+00 |
| 2096 | 2152443 | 2153480 | 346 | 179.3 | - |  | No Significant Match |  |  |
| 2097 | 2153502 | 2154152 | 217 | 89.4 | - | 744782221 | hypothetical protein SHYC\_11610 | S. hyicus | 2E-07 |
| 2098 | 2154932 | 2155252 | 107 | 45.7 | + | 744782220 | small multidrug resistance protein SMR | S. hyicus | 3E-49 |
| 2099 | 2155253 | 2155567 | 105 | 46 | + | 744782219 | transporter related protein | S. hyicus | 3E-52 |
| 2100 | 2155598 | 2155783 | 62 | 24.8 | + | 744782218 | hypothetical protein SHYC\_11595 | S. hyicus | 9E-30 |
| 2101 | 2155860 | 2156417 | 186 | 78.8 | + | 744782217 | membrane protein | S. hyicus | 8E-128 |
| 2102 | 2156545 | 2157414 | 290 | 101.8 | - | 744782216 | 2-dehydropantoate 2-reductase | S. hyicus | 1E-173 |
| 2103 | 2157481 | 2158293 | 271 | 148.9 | + | 744782215 | 3-methyl-2-oxobutanoate hydroxymethyltransferase | S. hyicus | 0E+00 |
| 2104 | 2158286 | 2159143 | 286 | 115.1 | + | 744782214 | pantoate--beta-alanine ligase | S. hyicus | 0E+00 |
| 2105 | 2159140 | 2159523 | 128 | 73.7 | + | 744782213 | aspartate alpha-decarboxylase | S. hyicus | 1E-82 |
| 2106 | 2159572 | 2160447 | 292 | 89.3 | - | 744782212 | hypothetical protein SHYC\_11565 | S. hyicus | 0E+00 |
| 2107 | 2160751 | 2161044 | 98 | 68 | + | 744782211 | type VII secretion protein EsxA | S. hyicus | 3E-63 |
| 2108 | 2161246 | 2164323 | 1026 | 514.7 | + | 744782210 | type VII secretion protein EsaA | S. hyicus | 0E+00 |
| 2109 | 2164323 | 2164757 | 145 | 45.1 | + | 744782209 | type VII secretion protein EssA | S. hyicus | 1E-96 |
| 2110 | 2164735 | 2164986 | 84 | 18.4 | + | 744782208 | type VII secretion protein EsaB | S. hyicus | 8E-51 |
| 2111 | 2164999 | 2166315 | 439 | 238.9 | + | 744782207 | type VII secretion protein EssB | S. hyicus | 0E+00 |
| 2112 | 2166339 | 2170772 | 1478 | 743.3 | + | 744782206 | cell division protein FtsK | S. hyicus | 0E+00 |
| 2113 | 2170778 | 2171077 | 100 | 40.7 | + |  | No Significant Match |  |  |
| 2114 | 2171087 | 2171488 | 134 | 67.9 | + |  | No Significant Match |  |  |
| 2115 | 2171502 | 2173100 | 533 | 223.7 | + | 744782203 | transposase | S. hyicus | 4E-44 |
| 2116 | 2173112 | 2173792 | 227 | 49.5 | + |  | No Significant Match |  |  |
| 2117 | 2173815 | 2174264 | 150 | 67.3 | + | 744782201 | hypothetical protein SHYC\_11510 | S. hyicus | 4E-34 |
| 2118 | 2174257 | 2174706 | 150 | 63.9 | + | 744782200 | hypothetical protein SHYC\_11505 | S. hyicus | 3E-29 |
| 2119 | 2174720 | 2175328 | 203 | 87.5 | + | 744782198 | membrane protein | S. hyicus | 3E-08 |
| 2120 | 2175467 | 2176066 | 200 | 76.6 | + | 744782198 | membrane protein | S. hyicus | 5E-135 |
| 2121 | 2176435 | 2177085 | 217 | 62.2 | + | 744782202 | hypothetical protein SHYC\_11515 | S. hyicus | 3E-24 |
| 2122 | 2177212 | 2177877 | 222 | 47.9 | + | 744782202 | hypothetical protein SHYC\_11515 | S. hyicus | 1E-115 |
| 2123 | 2177889 | 2178554 | 222 | 49.4 | + | 744782202 | hypothetical protein SHYC\_11515 | S. hyicus | 4E-64 |
| 2124 | 2178566 | 2179231 | 222 | 70.6 | + | 744782202 | hypothetical protein SHYC\_11515 | S. hyicus | 3E-57 |
| 2125 | 2179519 | 2182143 | 875 | 549.5 | + | 744782197 | pyruvate phosphate dikinase | S. hyicus | 0E+00 |
| 2126 | 2182145 | 2182951 | 269 | 106.2 | + | 744782196 | kinase/pyrophosphorylase | S. hyicus | 0E+00 |
| 2127 | 2183160 | 2184488 | 443 | 190.4 | + | 744782195 | sodium-dependent transporter | S. hyicus | 0E+00 |
| 2128 | 2184596 | 2185933 | 446 | 131.3 | - | 744782194 | carboxylesterase | S. hyicus | 0E+00 |
| 2129 | 2185945 | 2186364 | 140 | 41.6 | - | 746621972 | GCN5 family acetyltransferase | S. hyicus | 4E-94 |
| 2130 | 2186524 | 2187435 | 304 | 165.8 | + | 744782192 | O-acetylserine dependent cystathionine beta-synthase | S. hyicus | 0E+00 |
| 2131 | 2187428 | 2188567 | 380 | 219 | + | 744782191 | cystathionine gamma-synthase | S. hyicus | 0E+00 |
| 2132 | 2188973 | 2189989 | 339 | 144.2 | + | 744782190 | N-acetylmuramoyl-L-alanine amidase Sle1 | S. hyicus | 0E+00 |
| 2133 | 2190211 | 2190483 | 91 | 37.2 | - | 744782189 | hypothetical protein SHYC\_11440 | S. hyicus | 7E-56 |
| 2134 | 2190710 | 2191216 | 169 | 103.2 | + | 744782188 | putative immunodominant staphylococcal antigen B | S. hyicus | 3E-104 |
| 2135 | 2191322 | 2193580 | 753 | 285.3 | - | 744782187 | excinuclease ABC subunit A related protein | S. hyicus | 0E+00 |
| 2136 | 2193621 | 2194403 | 261 | 90.1 | - | 744782186 | YibE/YibF family protein | S. hyicus | 9E-164 |
| 2137 | 2194400 | 2195512 | 371 | 134.7 | - | 744782185 | YibE/YibF family protein | S. hyicus | 0E+00 |
| 2138 | 2195525 | 2196427 | 301 | 116.1 | - | 744782184 | transcriptional regulatory protein GltC | S. hyicus | 0E+00 |
| 2139 | 2196526 | 2201028 | 1501 | 822.6 | + | 744782183 | glutamate synthase large subunit | S. hyicus | 0E+00 |
| 2140 | 2201042 | 2202499 | 486 | 269.4 | + | 744782182 | glutamate synthase subunit beta | S. hyicus | 0E+00 |
| 2141 | 2203013 | 2204449 | 479 | 256.9 | + | 744782181 | PTS system trehalose-specific transporter subunit IIBC | S. hyicus | 0E+00 |
| 2142 | 2204468 | 2206108 | 547 | 226.6 | + | 744782180 | trehalose-6-phosphate hydrolase | S. hyicus | 0E+00 |
| 2143 | 2206124 | 2206849 | 242 | 122.3 | + | 744782179 | trehalose operon transcriptional repressor | S. hyicus | 2E-170 |
| 2144 | 2207372 | 2207896 | 175 | 96.4 | + | 744782178 | acetyltransferase | S. hyicus | 1E-96 |
| 2145 | 2207962 | 2209644 | 561 | 299.4 | + | 744782177 | DNA polymerase III subunit gamma/tau | S. hyicus | 0E+00 |
| 2146 | 2209742 | 2210062 | 107 | 99.3 | + | 744782176 | YbaB/EbfC family DNA-binding protein | S. hyicus | 2E-68 |
| 2147 | 2210064 | 2210660 | 199 | 93.5 | + | 744782175 | recombination protein RecR | S. hyicus | 9E-143 |
| 2148 | 2216267 | 2216458 | 64 | 31.3 | - | 744782174 | hypothetical protein SHYC\_11345 | S. hyicus | 6E-39 |
| 2149 | 2216598 | 2217938 | 447 | 180.5 | + | 744782173 | Orn Lys Arg decarboxylase family protein | S. hyicus | 0E+00 |
| 2150 | 2217940 | 2218554 | 205 | 143.8 | + | 744782172 | thymidylate kinase | S. hyicus | 1E-126 |
| 2151 | 2218702 | 2219031 | 110 | 52.9 | + | 744782171 | hypothetical protein SHYC\_11330 | S. hyicus | 6E-74 |
| 2152 | 2219176 | 2220105 | 310 | 146.1 | + | 744782170 | DNA polymerase III subunit delta' | S. hyicus | 0E+00 |
| 2153 | 2220111 | 2220914 | 268 | 147.7 | + | 744782169 | signal peptidase II-like protein | S. hyicus | 2E-180 |
| 2154 | 2220927 | 2221283 | 119 | 60 | + | 744782168 | DNA replication protein YabA | S. hyicus | 2E-79 |
| 2155 | 2221326 | 2222051 | 242 | 95.4 | + | 744782167 | putative O-methyltransferase | S. hyicus | 7E-168 |
| 2156 | 2222044 | 2222298 | 85 | 45.2 | + | 744782166 | GIY-YIG nuclease family protein | S. hyicus | 1E-53 |
| 2157 | 2222295 | 2223131 | 279 | 130 | + | 744782165 | ribosomal RNA small subunit methyltransferase I | S. hyicus | 7E-180 |
| 2158 | 2223229 | 2225196 | 656 | 417 | + | 744782164 | methionyl-tRNA synthetase | S. hyicus | 0E+00 |
| 2159 | 2225360 | 2226130 | 257 | 161.7 | + | 744782163 | TatD family hydrolase | S. hyicus | 0E+00 |
| 2160 | 2226145 | 2226684 | 180 | 108.1 | + | 744782162 | ribonuclease M5 | S. hyicus | 3E-112 |
| 2161 | 2226691 | 2227581 | 297 | 157.7 | + | 744782161 | ribosomal RNA small subunit methyltransferase A | S. hyicus | 0E+00 |
| 2162 | 2227681 | 2227947 | 89 | 48.5 | + | 744782160 | Veg-related protein | S. hyicus | 6E-59 |
| 2163 | 2228207 | 2229055 | 283 | 140.5 | + | 744782159 | 4-diphosphocytidyl-2C-methyl-D-erythritol kinase | S. hyicus | 0E+00 |
| 2164 | 2229079 | 2229906 | 276 | 132.7 | + | 744782158 | purine operon repressor | S. hyicus | 0E+00 |
| 2165 | 2229925 | 2230305 | 127 | 80.6 | + | 744782157 | enamine/imine deaminase | S. hyicus | 3E-87 |
| 2166 | 2230370 | 2230684 | 105 | 53.5 | + | 744782156 | regulatory protein SpoVG | S. hyicus | 6E-69 |
| 2167 | 2231050 | 2232414 | 455 | 271.5 | + | 744782155 | bifunctional N-acetylglucosamine-1-phosphate uridyltransferase/glucosamine-1-phosphate acetyltransferase | S. hyicus | 0E+00 |
| 2168 | 2232484 | 2233449 | 322 | 210.1 | + | 744782154 | ribose-phosphate pyrophosphokinase | S. hyicus | 0E+00 |
| 2169 | 2233588 | 2234262 | 225 | 165.8 | + | 744782153 | 50S ribosomal protein L25 | S. hyicus | 3E-149 |
| 2170 | 2234643 | 2235212 | 190 | 113.8 | + | 744782152 | peptidyl-tRNA hydrolase | S. hyicus | 1E-129 |
| 2171 | 2235209 | 2238721 | 1171 | 647.8 | + | 744782151 | transcription-repair coupling factor | S. hyicus | 0E+00 |
| 2172 | 2238711 | 2240240 | 510 | 154.2 | + | 744782150 | MATE family protein | S. hyicus | 0E+00 |
| 2173 | 2240237 | 2241424 | 396 | 232.7 | + | 744782149 | tetrapyrrole methyltransferase/nucleoside triphosphate pyrophosphohydrolase | S. hyicus | 0E+00 |
| 2174 | 2241411 | 2241668 | 86 | 57.3 | + | 744782148 | RNA-binding S4 domain-containing protein | S. hyicus | 1E-51 |
| 2175 | 2241693 | 2242079 | 129 | 75.8 | + | 744782147 | cell division protein DivIC | S. hyicus | 1E-83 |
| 2176 | 2242283 | 2242660 | 126 | 74.3 | + | 744782146 | hypothetical protein SHYC\_11205 | S. hyicus | 1E-83 |
| 2177 | 2242733 | 2244013 | 427 | 145.5 | + | 744782145 | tRNA(Ile)-lysidine synthase | S. hyicus | 0E+00 |
| 2178 | 2244003 | 2244542 | 180 | 121.3 | + | 744782144 | hypoxanthine phosphoribosyltransferase | S. hyicus | 2E-124 |
| 2179 | 2244667 | 2246781 | 705 | 491.7 | + | 744782143 | ATP-dependent zinc metalloprotease FtsH | S. hyicus | 0E+00 |
| 2180 | 2246927 | 2247817 | 297 | 186.7 | + | 744782142 | heat shock protein Hsp33 | S. hyicus | 0E+00 |
| 2181 | 2247984 | 2248913 | 310 | 246.3 | + | 744782141 | cysteine synthase | S. hyicus | 0E+00 |
| 2182 | 2249309 | 2250100 | 264 | 177 | + | 744782140 | dihydropteroate synthase | S. hyicus | 0E+00 |
| 2183 | 2250090 | 2250461 | 124 | 60.8 | + | 744782139 | dihydroneopterin aldolase | S. hyicus | 4E-82 |
| 2184 | 2250454 | 2250933 | 160 | 84.4 | + | 744782138 | 2-amino-4-hydroxy-6- hydroxymethyldihydropteridine pyrophosphokinase | S. hyicus | 4E-103 |
| 2185 | 2251019 | 2252014 | 332 | 221.9 | + | 744782137 | tRNA-dihydrouridine synthase | S. hyicus | 0E+00 |
| 2186 | 2252034 | 2253521 | 496 | 335.2 | + | 744782136 | lysyl-tRNA synthetase | S. hyicus | 0E+00 |
| 2187 | 2260247 | 2262190 | 648 | 279.4 | + | 744782135 | membrane protein | S. hyicus | 0E+00 |
| 2188 | 2262273 | 2263688 | 472 | 170.6 | - | 744782134 | GntR family transcriptional regulator | S. hyicus | 0E+00 |
| 2189 | 2263798 | 2264685 | 296 | 211 | + | 744782133 | pyridoxal biosynthesis lyase PdxS | S. hyicus | 0E+00 |
| 2190 | 2264687 | 2265247 | 187 | 99.3 | + | 744782132 | glutamine amidotransferase subunit PdxT | S. hyicus | 2E-125 |
| 2191 | 2265442 | 2266647 | 402 | 223 | - | 744782131 | pyrimidine nucleoside transporter NupC | S. hyicus | 0E+00 |
| 2192 | 2266812 | 2267273 | 154 | 81.9 | + | 744782130 | transcriptional regulator CtsR | S. hyicus | 3E-108 |
| 2193 | 2267285 | 2267803 | 173 | 88.6 | + | 744782129 | hypothetical protein SHYC\_11035 | S. hyicus | 8E-109 |
| 2194 | 2267796 | 2268800 | 335 | 173.5 | + | 746621292 | ATP:guanido phosphotransferase | S. hyicus | 0E+00 |
| 2195 | 2268813 | 2271275 | 821 | 596.1 | + | 744782127 | ATP-dependent Clp protease ATP-binding subunit ClpC | S. hyicus | 0E+00 |
| 2196 | 2271477 | 2272847 | 457 | 226.7 | + | 744782126 | DNA repair protein RadA | S. hyicus | 0E+00 |
| 2197 | 2272862 | 2273923 | 354 | 179.3 | + | 744782125 | PIN domain-containing membrane protein | S. hyicus | 0E+00 |
| 2198 | 2273926 | 2274621 | 232 | 133.4 | + | 744782124 | 2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase | S. hyicus | 7E-170 |
| 2199 | 2274614 | 2275090 | 159 | 109.1 | + | 744782123 | 2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase | S. hyicus | 2E-109 |
| 2200 | 2275179 | 2276633 | 485 | 327.6 | + | 744782122 | glutamyl-tRNA synthetase | S. hyicus | 0E+00 |
| 2201 | 2276948 | 2277589 | 214 | 86.4 | + | 744782121 | serine acetyltransferase | S. hyicus | 3E-155 |
| 2202 | 2277573 | 2278973 | 467 | 267.9 | + | 744782120 | cysteinyl-tRNA synthetase | S. hyicus | 0E+00 |
| 2203 | 2278966 | 2279367 | 134 | 58.2 | + | 744782119 | mini-ribonuclease 3 | S. hyicus | 8E-92 |
| 2204 | 2279373 | 2280125 | 251 | 144.5 | + | 744782118 | TrmH family RNA methyltransferase | S. hyicus | 0E+00 |
| 2205 | 2280125 | 2280652 | 176 | 71.9 | + | 744782117 | NYN-YacP family protein | S. hyicus | 2E-125 |
| 2206 | 2280724 | 2281296 | 191 | 48.2 | + | 744782116 | putative RNA polymerase sigma factor | S. hyicus | 1E-132 |
| 2207 | 2281606 | 2281785 | 60 | 29.5 | + | 744782114 | preprotein translocase subunit SecE | S. hyicus | 1E-34 |
| 2208 | 2281804 | 2282352 | 183 | 131.3 | + | 744782113 | transcription termination/antitermination factor NusG | S. hyicus | 2E-129 |
| 2209 | 2282684 | 2283106 | 141 | 96 | + | 744782112 | 50S ribosomal protein L11 | S. hyicus | 2E-95 |
| 2210 | 2283319 | 2284017 | 233 | 158.8 | + | 744782111 | 50S ribosomal protein L1 | S. hyicus | 3E-167 |
| 2211 | 2284311 | 2284811 | 167 | 120.5 | + | 744782110 | 50S ribosomal protein L10 | S. hyicus | 8E-116 |
| 2212 | 2284865 | 2285230 | 122 | 113.6 | + | 744782109 | 50S ribosomal protein L7/L12 | S. hyicus | 5E-75 |
| 2213 | 2285309 | 2285917 | 203 | 76.7 | + | 744782108 | RNA methyltransferase | S. hyicus | 1E-139 |
| 2214 | 2286129 | 2289680 | 1184 | 707.7 | + | 744782107 | DNA-directed RNA polymerase subunit beta | S. hyicus | 0E+00 |
| 2215 | 2289855 | 2293472 | 1206 | 751.8 | + | 744782106 | DNA-directed RNA polymerase subunit beta' | S. hyicus | 0E+00 |
| 2216 | 2293617 | 2293871 | 85 | 32.5 | + | 744782105 | ribosomal protein L7Ae | S. hyicus | 4E-51 |
| 2217 | 2293970 | 2294383 | 138 | 71.3 | + | 744782104 | 30S ribosomal protein S12 | S. hyicus | 1E-95 |
| 2218 | 2294465 | 2294935 | 157 | 105.4 | + | 744782103 | 30S ribosomal protein S7 | S. hyicus | 1E-111 |
| 2219 | 2295079 | 2297160 | 694 | 429.8 | + | 744782102 | translation elongation factor G | S. hyicus | 0E+00 |
| 2220 | 2297352 | 2298539 | 396 | 256.9 | + | 744782101 | translation elongation factor Tu | S. hyicus | 0E+00 |
| 2221 | 2298937 | 2300100 | 388 | 197.6 | - | 744782100 | putative hydrolase | S. hyicus | 0E+00 |
| 2222 | 2300209 | 2301399 | 397 | 255.8 | + | 744782099 | 2-amino-3-ketobutyrate CoA ligase | S. hyicus | 0E+00 |
| 2223 | 2301563 | 2302528 | 322 | 185.5 | + | 744782098 | NAD dependent epimerase/dehydratase family protein | S. hyicus | 0E+00 |
| 2224 | 2302822 | 2303898 | 359 | 224 | + | 744782097 | branched-chain amino acid aminotransferase | S. hyicus | 0E+00 |
| 2225 | 2303949 | 2304416 | 156 | 63.9 | - | Q45584 | Uncharacterized protein YbbK | Bacillus subtilis | 1E-41 |
| 2226 | 2304619 | 2304954 | 112 | 27 | - | 744782095 | membrane protein | S. hyicus | 2E-34 |
| 2227 | 2305202 | 2305444 | 81 | 20 | + | P59291 | Metallothiol transferase FosB | S. epidermidis | 2E-26 |
| 2228 | 2305592 | 2306290 | 233 | 114.9 | + | 744782094 | HAD family hydrolase | S. hyicus | 1E-161 |
| 2229 | 2306320 | 2306985 | 222 | 119.7 | - | 744782093 | deoxyadenosine/deoxycytidine kinase | S. hyicus | 1E-164 |
| 2230 | 2306978 | 2307595 | 206 | 95.1 | - | 744782092 | deoxyguanosine kinase | S. hyicus | 4E-148 |
| 2231 | 2307683 | 2308159 | 159 | 51.1 | + | 744782091 | tRNA-specific adenosine deaminase | S. hyicus | 3E-108 |
| 2232 | 2308298 | 2309167 | 290 | 170.3 | + | 744782090 | HAD family hydrolase | S. hyicus | 0E+00 |
| 2233 | 2309185 | 2309751 | 189 | 95.5 | + | 744782089 | FMN-dependent NADH-azoreductase | S. hyicus | 1E-131 |
| 2234 | 2309859 | 2310737 | 293 | 162.3 | - | 744782088 | GTP cyclohydrolase | S. hyicus | 0E+00 |
| 2235 | 2310816 | 2311493 | 226 | 136.6 | - | 744782087 | deacetylase | S. hyicus | 1E-158 |
| 2236 | 2311506 | 2311865 | 120 | 58.5 | - | 744782086 | hypothetical protein SHYC\_10820 | S. hyicus | 2E-76 |
| 2237 | 2311975 | 2312784 | 270 | 129.5 | - | 744782085 | RpiR family transcriptional regulator | S. hyicus | 7E-169 |
| 2238 | 2312911 | 2314437 | 509 | 215.2 | + | 744782084 | PTS transporter subunit IIB | S. hyicus | 0E+00 |
| 2239 | 2314455 | 2315126 | 224 | 159 | + | 744782083 | N-acetylmannosamine-6-phosphate 2-epimerase | S. hyicus | 2E-161 |
| 2240 | 2315132 | 2315860 | 243 | 120.1 | + | 744782082 | glucosamine-6-phosphate deaminase | S. hyicus | 5E-175 |
| 2241 | 2315946 | 2316584 | 213 | 174.2 | + | 744782081 | 3-hexulose-6-phosphate synthase | S. hyicus | 1E-145 |
| 2242 | 2316526 | 2317131 | 202 | 94.1 | + | 744782080 | 6-phospho 3-hexuloisomerase | S. hyicus | 3E-128 |
| 2243 | 2317258 | 2318616 | 453 | 169.4 | + | 744782079 | long chain fatty acid-CoA ligase | S. hyicus | 0E+00 |
| 2244 | 2318609 | 2319748 | 380 | 137.7 | + | 744782078 | acetyl-CoA acetyltransferase | S. hyicus | 0E+00 |
| 2245 | 2319723 | 2320079 | 119 | 32.1 | + | 746621216 | hypothetical protein | S. hyicus | 2E-41 |
| 2246 | 2320076 | 2320336 | 87 | 30.2 | + | 744782077 | hypothetical protein SHYC\_10770 | S. hyicus | 2E-57 |
| 2247 | 2320719 | 2321015 | 99 | 49.2 | + |  | No Significant Match |  |  |
| 2248 | 2321329 | 2322216 | 296 | 147.9 | + | 744782076 | lipoprotein | S. hyicus | 0E+00 |
| 2249 | 2322475 | 2323305 | 277 | 181.7 | - | 744782075 | pyridoxal kinase | S. hyicus | 0E+00 |
| 2250 | 2323438 | 2324100 | 221 | 99.9 | + | 744782074 | uracil-DNA glycosylase | S. hyicus | 2E-163 |
| 2251 | 2324097 | 2324444 | 116 | 59.7 | + | 744782073 | hypothetical protein SHYC\_10745 | S. hyicus | 9E-71 |
| 2252 | 2324466 | 2324828 | 121 | 63.5 | + | 744782072 | membrane protein | S. hyicus | 2E-76 |
| 2253 | 2324956 | 2326407 | 484 | 188.7 | + | 744782071 | amino acid permease | S. hyicus | 0E+00 |
| 2254 | 2326733 | 2327284 | 184 | 84.7 | + | 744782070 | acetyltransferase | S. hyicus | 1E-132 |
| 2255 | 2327571 | 2328128 | 186 | 28.7 | - | 744782069 | TetR family transcriptional regulator | S. hyicus | 2E-129 |
| 2256 | 2328257 | 2328898 | 214 | 135.9 | + | 744782068 | efflux protein | S. hyicus | 1E-146 |
| 2257 | 2328914 | 2330656 | 581 | 225.9 | + | 744782067 | EmrB/QacA family MFS transporter | S. hyicus | 0E+00 |
| 2258 | 2330823 | 2331680 | 286 | 138 | - | 746621192 | lipoate--protein ligase | S. hyicus | 0E+00 |
| 2259 | 2331680 | 2332669 | 330 | 244.2 | - | 744782065 | phosphotransacetylase | S. hyicus | 0E+00 |
| 2260 | 2333029 | 2333778 | 250 | 136.9 | + | 744782064 | putative heme peroxidase | S. hyicus | 5E-177 |
| 2261 | 2334034 | 2335383 | 450 | 198.8 | + | 744782063 | serine/threonine exchanger SteT | S. hyicus | 0E+00 |
| 2262 | 2335410 | 2336171 | 254 | 104.8 | + | 744782062 | hypothetical protein SHYC\_10690 | S. hyicus | 4E-174 |
| 2263 | 2336175 | 2336642 | 156 | 48 | + | 744782061 | membrane protein | S. hyicus | 4E-102 |
| 2264 | 2336865 | 2338406 | 514 | 246.4 | + | 744782060 | sodium-dependent dicarboxylate transporter SdcS | S. hyicus | 0E+00 |
| 2265 | 2338507 | 2338848 | 114 | 45.3 | + | 744782059 | hypothetical protein SHYC\_10675 | S. hyicus | 5E-74 |
| 2266 | 2339064 | 2339612 | 183 | 84.9 | + | 744782058 | NAD(P)H-dependent oxidoreductase | S. hyicus | 2E-126 |
| 2267 | 2339759 | 2340241 | 161 | 92.9 | + | 744782057 | acetyltransferase | S. hyicus | 2E-103 |
| 2268 | 2340263 | 2341564 | 434 | 211.6 | + | 744782056 | HD superfamily phosphohydrolase | S. hyicus | 0E+00 |
| 2269 | 2341609 | 2342142 | 178 | 97.4 | + | 744782055 | YwhD family protein | S. hyicus | 3E-113 |
| 2270 | 2342616 | 2343029 | 138 | 62.8 | + | 744782054 | hypothetical protein SHYC\_10650 | S. hyicus | 4E-91 |
| 2271 | 2343016 | 2344674 | 553 | 347.1 | + | 744782053 | arginyl-tRNA synthetase | S. hyicus | 0E+00 |
| 2272 | 2344810 | 2345691 | 294 | 167.6 | + | 744782052 | putative iron compound ABC transporter substrate-binding lipoprotein | S. hyicus | 0E+00 |
| 2273 | 2345681 | 2346658 | 326 | 97 | + | 744782051 | putative iron compound ABC transporter permease | S. hyicus | 7E-166 |
| 2274 | 2346821 | 2347525 | 235 | 125.6 | + | 744782050 | HAD family hydrolase | S. hyicus | 2E-156 |
| 2275 | 2347525 | 2348325 | 267 | 134.1 | + | 744782049 | alpha/beta hydrolase | S. hyicus | 0E+00 |
| 2276 | 2348417 | 2348923 | 169 | 105.6 | + | 744782048 | hypothetical protein SHYC\_10620 | S. hyicus | 6E-115 |
| 2277 | 2349101 | 2349817 | 239 | 102.4 | + | 744782047 | membrane protein | S. hyicus | 5E-166 |
| 2278 | 2349978 | 2350349 | 124 | 43.4 | - | 744782046 | staphylococcal accessory transcriptional regulator family protein | S. hyicus | 4E-84 |
| 2279 | 2350643 | 2351539 | 299 | 84.8 | - | 744782045 | hypothetical protein SHYC\_10605 | S. hyicus | 2E-161 |
| 2280 | 2352062 | 2352988 | 309 | 67.7 | - |  | No Significant Match |  |  |
| 2281 | 2353203 | 2353430 | 76 | 6.1 | + | 744782044 | hypothetical protein SHYC\_10600 | S. hyicus | 8E-34 |
| 2282 | 2353683 | 2353898 | 72 | 36.3 | - | 744782043 | hypothetical protein SHYC\_10595 | S. hyicus | 7E-37 |
| 2283 | 2353914 | 2354117 | 68 | 34.2 | - | 744782042 | hypothetical protein SHYC\_10590 | S. hyicus | 3E-29 |
| 2284 | 2354261 | 2354812 | 184 | 68.8 | + | 744782041 | DNA integration/recombination/inversion protein | S. hyicus | 2E-123 |
| 2285 | 2354836 | 2357220 | 795 | 283.2 | + | 744782040 | monovalent cation/H+ antiporter subunit A | S. hyicus | 0E+00 |
| 2286 | 2357207 | 2357632 | 142 | 61.2 | + | 744782039 | monovalent cation/H+ antiporter subunit B | S. hyicus | 4E-89 |
| 2287 | 2357629 | 2357976 | 116 | 62.8 | + | 744782038 | monovalent cation/H+ antiporter subunit C | S. hyicus | 5E-73 |
| 2288 | 2357966 | 2359468 | 501 | 221.4 | + | 744782037 | monovalent cation/H+ antiporter subunit D | S. hyicus | 0E+00 |
| 2289 | 2359465 | 2359947 | 161 | 69 | + | 744782036 | monovalent cation/H+ antiporter subunit E | S. hyicus | 3E-100 |
| 2290 | 2359944 | 2360246 | 101 | 42.4 | + | 744782035 | monovalent cation/H+ antiporter subunit F | S. hyicus | 1E-60 |
| 2291 | 2360212 | 2360664 | 151 | 63.3 | + | 744782034 | monovalent cation/H+ antiporter subunit G | S. hyicus | 3E-98 |
| 2292 | 2360941 | 2361576 | 212 | 85.6 | + |  | No Significant Match |  |  |
| 2293 | 2361681 | 2362598 | 306 | 169.8 | - | 744782033 | putative manganese ABC transporter substrate-binding lipoprotein | S. hyicus | 0E+00 |
| 2294 | 2362595 | 2363434 | 280 | 88.4 | - | 744782032 | putative manganese ABC transporter permease | S. hyicus | 0E+00 |
| 2295 | 2363409 | 2364188 | 260 | 114.3 | - | 744782031 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 2296 | 2364309 | 2364959 | 217 | 114.7 | + | 744782030 | DtxR family transcriptional regulator | S. hyicus | 1E-150 |
| 2297 | 2365626 | 2366372 | 249 | 71.2 | - | 744782029 | membrane protein | S. hyicus | 3E-156 |
| 2298 | 2366940 | 2367764 | 275 | 142 | + | 744782028 | UDP-N-acetyl-D-mannosamine transferase | S. hyicus | 0E+00 |
| 2299 | 2367826 | 2368620 | 265 | 113 | - | 744782027 | teichoic acids export protein ATP-binding subunit | S. hyicus | 0E+00 |
| 2300 | 2369004 | 2369834 | 277 | 65.3 | + | 744782026 | teichoic acid translocation permease protein TagG | S. hyicus | 0E+00 |
| 2301 | 2370017 | 2371108 | 364 | 141.2 | + | 744782025 | teichoic acid biosynthesis protein B | S. hyicus | 0E+00 |
| 2302 | 2371238 | 2371636 | 133 | 73.6 | + | 744782024 | glycerol-3-phosphate cytidylyltransferase | S. hyicus | 4E-91 |
| 2303 | 2371676 | 2372956 | 427 | 190.1 | - | 744782023 | D-alanyl-D-alanine carboxypeptidase | S. hyicus | 0E+00 |
| 2304 | 2373174 | 2374898 | 575 | 283.3 | + | 744782022 | ABC transporter ATP-binding and permease protein | S. hyicus | 0E+00 |
| 2305 | 2374961 | 2375122 | 54 | 5.7 | - | 744782021 | hypothetical protein SHYC\_10485 | S. hyicus | 2E-26 |
| 2306 | 2375133 | 2377127 | 665 | 308.5 | - | 744782020 | ferrous iron transport protein B | S. hyicus | 0E+00 |
| 2307 | 2377120 | 2377356 | 79 | 24.1 | - | 744782019 | FeoA domain protein | S. hyicus | 8E-46 |
| 2308 | 2377624 | 2378850 | 409 | 201.2 | + | 744782018 | pyrimidine nucleoside transport protein | S. hyicus | 0E+00 |
| 2309 | 2379342 | 2380196 | 285 | 147.9 | + | 744782017 | membrane protein | S. hyicus | 0E+00 |
| 2310 | 2380396 | 2381202 | 269 | 152.5 | + | 744782016 | ferrichrome transport ATP-binding protein FhuC | S. hyicus | 0E+00 |
| 2311 | 2381224 | 2382225 | 334 | 154.4 | + | 744782015 | ferrichrome transport system permease FhuB | S. hyicus | 0E+00 |
| 2312 | 2382222 | 2383238 | 339 | 138.4 | + | 744782014 | ferrichrome transport system permease FhuG | S. hyicus | 0E+00 |
| 2313 | 2383379 | 2383879 | 167 | 92.8 | + | 744782013 | hypothetical protein SHYC\_10445 | S. hyicus | 2E-115 |
| 2314 | 2384260 | 2385327 | 356 | 178.2 | + | 744782010 | membrane protein | S. hyicus | 0E+00 |
| 2315 | 2385370 | 2386407 | 346 | 148.4 | + | 744782009 | lipase | S. hyicus | 0E+00 |
| 2316 | 2386596 | 2387102 | 169 | 67.7 | - | 744782008 | GNAT family acetyltransferase | S. hyicus | 2E-116 |
| 2317 | 2387215 | 2388147 | 311 | 100.9 | + | 744782007 | hypothetical protein SHYC\_10420 | S. hyicus | 0E+00 |
| 2318 | 2388904 | 2389521 | 206 | 110.5 | + | 744782006 | putative phosphate transport regulator | S. hyicus | 3E-149 |
| 2319 | 2389536 | 2390537 | 334 | 147.6 | + | 744782005 | inorganic phosphate transporter | S. hyicus | 0E+00 |
| 2320 | 2390826 | 2391647 | 274 | 132.6 | - | 744782002 | hypothetical protein SHYC\_10385 | S. hyicus | 0E+00 |
| 2321 | 2391925 | 2392563 | 213 | 52.5 | + | 744782001 | membrane protein | S. hyicus | 6E-110 |
| 2322 | 2392750 | 2393334 | 195 | 58.7 | + | 744782000 | thiamine monophosphate synthase | S. hyicus | 7E-77 |
| 2323 | 2393331 | 2393531 | 67 | 33.5 | + | 744781999 | sulfur carrier protein ThiS | S. hyicus | 3E-24 |
| 2324 | 2393533 | 2394300 | 256 | 149.6 | + | 744781998 | thiazole synthase | S. hyicus | 6E-166 |
| 2325 | 2394300 | 2395292 | 331 | 104.5 | + | 744781997 | HesA/MoeB/ThiF family protein | S. hyicus | 0E+00 |
| 2326 | 2395372 | 2396085 | 238 | 155.9 | + | 744781996 | YebC/PmpR family DNA-binding regulatory protein | S. hyicus | 1E-167 |
| 2327 | 2396387 | 2396950 | 188 | 63.5 | + | 744781995 | putative RNA-binding protein | S. hyicus | 3E-129 |
| 2328 | 2397054 | 2397923 | 290 | 136.2 | + | 744781994 | LysR family transcriptional regulator | S. hyicus | 0E+00 |
| 2329 | 2397937 | 2399139 | 401 | 168.6 | + | 744781993 | MFS sugar transporter | S. hyicus | 0E+00 |
| 2330 | 2399157 | 2399648 | 164 | 36.7 | + | 744781992 | membrane protein | S. hyicus | 1E-90 |
| 2331 | 2399800 | 2400507 | 236 | 80.2 | - | 744781991 | hypothetical protein SHYC\_10330 | S. hyicus | 4E-151 |
| 2332 | 2400594 | 2401064 | 157 | 56.2 | + | 744781990 | putative acetyltransferase | S. hyicus | 2E-61 |
| 2333 | 2401130 | 2401513 | 128 | 72 | + | 744781989 | hypothetical protein SHYC\_10320 | S. hyicus | 3E-37 |
| 2334 | 2401613 | 2401912 | 100 | 70.6 | + | 744781988 | hypothetical protein SHYC\_10315 | S. hyicus | 1E-62 |
| 2335 | 2401989 | 2402540 | 184 | 102.8 | + | 744781987 | GNAT family acetyltransferase | S. hyicus | 5E-116 |
| 2336 | 2402622 | 2403191 | 190 | 111.2 | - | 744781986 | decarboxylase family protein | S. hyicus | 1E-117 |
| 2337 | 2403184 | 2403654 | 157 | 45.6 | - | 744781985 | hypothetical protein SHYC\_10300 | S. hyicus | 4E-88 |
| 2338 | 2403656 | 2404942 | 429 | 253.5 | - | 744781984 | hypothetical protein SHYC\_10295 | S. hyicus | 0E+00 |
| 2339 | 2405148 | 2405504 | 119 | 55.1 | - | 744781983 | hypothetical protein SHYC\_10290 | S. hyicus | 3E-78 |
| 2340 | 2405536 | 2406183 | 216 | 39.8 | - | 744781982 | CAAX amino terminal protease family protein | S. hyicus | 8E-111 |
| 2341 | 2406590 | 2407444 | 285 | 147 | - | 744781981 | undecaprenyl pyrophosphate phosphatase | S. hyicus | 0E+00 |
| 2342 | 2407738 | 2409297 | 520 | 248.6 | + | 744781980 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 2343 | 2409369 | 2411018 | 550 | 249 | + | 744781979 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 2344 | 2411228 | 2411665 | 146 | 71.9 | - | 744781978 | HTH-type transcriptional regulator MgrA | S. hyicus | 4E-102 |
| 2345 | 2411887 | 2412807 | 307 | 114.1 | + | 744781977 | hypothetical protein SHYC\_10260 | S. hyicus | 0E+00 |
| 2346 | 2412831 | 2413739 | 303 | 136.4 | + | 744781976 | oxidoreductase, aldo/keto reductase family | S. hyicus | 0E+00 |
| 2347 | 2413762 | 2414046 | 95 | 31.3 | + | 744781975 | hypothetical protein SHYC\_10250 | S. hyicus | 6E-51 |
| 2348 | 2414198 | 2415142 | 315 | 175.5 | + | 744781974 | malate dehydrogenase | S. hyicus | 0E+00 |
| 2349 | 2415279 | 2415998 | 240 | 59.8 | - | 744781973 | metal-dependent membrane protease | S. hyicus | 8E-117 |
| 2350 | 2416028 | 2416291 | 88 | 0.8 | - | 744781972 | hypothetical protein SHYC\_10235 | S. hyicus | 2E-24 |
| 2351 | 2416288 | 2416905 | 206 | 57.5 | - | 744781971 | membrane protein | S. hyicus | 4E-127 |
| 2352 | 2417114 | 2418271 | 386 | 176.4 | + | 744781970 | MFS transporter | S. hyicus | 0E+00 |
| 2353 | 2418334 | 2420661 | 776 | 311.4 | + | 744781969 | CDP-glycerol:glycerophosphate glycerophosphotransferase | S. hyicus | 0E+00 |
| 2354 | 2420675 | 2421154 | 160 | 61.9 | + | 744781968 | Cys-tRNA(Pro)/Cys-tRNA(Cys) deacylase YbaK | S. hyicus | 3E-80 |
| 2355 | 2421309 | 2422064 | 252 | 142.6 | + | 744781967 | DeoR faimly transcriptional regulator | S. hyicus | 4E-169 |
| 2356 | 2422061 | 2422984 | 308 | 166.3 | + | 744781966 | 1-phosphofructokinase | S. hyicus | 0E+00 |
| 2357 | 2422986 | 2424899 | 638 | 414.9 | + | 744781965 | PTS system fructose-specific IIABC component | S. hyicus | 0E+00 |
| 2358 | 2425307 | 2426668 | 454 | 244 | + | 744781964 | CBS domains-containing protein | S. hyicus | 0E+00 |
| 2359 | 2426949 | 2427914 | 322 | 145.5 | + | 744781963 | glycosyltransferase/CsbB stress response protein | S. hyicus | 0E+00 |
| 2360 | 2428075 | 2428221 | 49 | 0.3 | + |  | No Significant Match |  |  |
| 2361 | 2428346 | 2428603 | 86 | 68.5 | - | 744781962 | membrane protein | S. hyicus | 3E-45 |
| 2362 | 2428680 | 2429267 | 196 | 44.2 | - | 744781961 | hypothetical protein SHYC\_10180 | S. hyicus | 4E-114 |
| 2363 | 2429367 | 2430080 | 238 | 112.3 | - | 744781960 | 7-carboxy-7-deazaguanine synthase | S. hyicus | 5E-168 |
| 2364 | 2430073 | 2430504 | 144 | 55.9 | - | 744781959 | 6-carboxy-5,6,7,8-tetrahydropterin synthase | S. hyicus | 4E-99 |
| 2365 | 2430504 | 2431172 | 223 | 103.3 | - | 744781958 | 7-cyano-7-deazaguanine synthase | S. hyicus | 2E-153 |
| 2366 | 2431629 | 2432222 | 198 | 66.6 | + | 744781957 | para-aminobenzoate synthase subunit II | S. hyicus | 5E-120 |
| 2367 | 2432206 | 2433339 | 378 | 155.8 | + | 744781956 | para-aminobenzoate synthase component I | S. hyicus | 0E+00 |
| 2368 | 2433343 | 2433951 | 203 | 79.9 | + | 744781955 | aminodeoxychorismate lyase | S. hyicus | 2E-94 |
| 2369 | 2434185 | 2434868 | 228 | 123.8 | + | 744781953 | allophanate hydrolase subunit 1 | S. hyicus | 2E-158 |
| 2370 | 2434865 | 2435869 | 335 | 188.4 | + | 744781952 | allophanate hydrolase subunit 2 | S. hyicus | 0E+00 |
| 2371 | 2436391 | 2438328 | 646 | 324 | + | 744781951 | glycerol phosphate lipoteichoic acid synthase | S. hyicus | 0E+00 |
| 2372 | 2438401 | 2439216 | 272 | 120.7 | - | 744781950 | ZIP family metal transporter | S. hyicus | 0E+00 |
| 2373 | 2439329 | 2441206 | 626 | 332.3 | + | 744781949 | ABC transporter ATP-binding protein | S. hyicus | 0E+00 |
| 2374 | 2441217 | 2443007 | 597 | 260.8 | + | 744781948 | ATP-dependent DNA helicase RecQ-2 | S. hyicus | 0E+00 |
| 2375 | 2443185 | 2444138 | 318 | 140.8 | + | 744781947 | glycine betaine/carnitine/choline transport ATP-binding protein | S. hyicus | 0E+00 |
| 2376 | 2444135 | 2445649 | 505 | 287.8 | + | 744781946 | glycine betaine/carnitine/choline transport system permease protein | S. hyicus | 0E+00 |
| 2377 | 2445955 | 2447004 | 350 | 200.5 | + | 744781945 | histidinol-phosphate aminotransferase | S. hyicus | 0E+00 |
| 2378 | 2447079 | 2447609 | 177 | 99.9 | + | 746621942 | 5'-3'-deoxyribonucleotidase | S. hyicus | 9E-124 |
| 2379 | 2447670 | 2448599 | 310 | 135 | - | 744781943 | lipid kinase | S. hyicus | 0E+00 |
| 2380 | 2448919 | 2450430 | 504 | 218.3 | - | 744781942 | dipeptide/tripeptide permease | S. hyicus | 0E+00 |
| 2381 | 2450842 | 2451342 | 167 | 73.7 | - | 744781941 | 7-cyano-7-deazaguanine reductase | S. hyicus | 2E-120 |
| 2382 | 2451356 | 2452240 | 295 | 117 | - | 744781940 | putative permease | S. hyicus | 0E+00 |
| 2383 | 2452951 | 2453340 | 130 | 51.7 | + | 744781939 | ribonucleotide reductase stimulatory protein | S. hyicus | 3E-88 |
| 2384 | 2453312 | 2455417 | 702 | 384.1 | + | 744781938 | ribonucleotide-diphosphate reductase subunit alpha | S. hyicus | 0E+00 |
| 2385 | 2455632 | 2456603 | 324 | 190.1 | + | 744781937 | ribonucleotide-diphosphate reductase subunit beta | S. hyicus | 0E+00 |
| 2386 | 2456660 | 2456974 | 105 | 20.8 | - | 744781936 | zinc finger CHY domain-containing protein | S. hyicus | 3E-70 |
| 2387 | 2456988 | 2457914 | 309 | 183.6 | - | 744781935 | UDP-N-acetylenolpyruvoylglucosamine reductase | S. hyicus | 0E+00 |
| 2388 | 2457987 | 2458508 | 174 | 59.6 | - | 744781934 | hypothetical protein SHYC\_10045 | S. hyicus | 6E-102 |
| 2389 | 2458607 | 2459503 | 299 | 173.2 | + | 744781933 | hypothetical protein SHYC\_10040 | S. hyicus | 6E-107 |
| 2390 | 2459644 | 2459961 | 106 | 48.4 | + | 744781932 | hypothetical protein SHYC\_10035 | S. hyicus | 6E-72 |
| 2391 | 2460081 | 2461193 | 371 | 198.8 | + | 744781931 | glycerate kinase | S. hyicus | 0E+00 |
| 2392 | 2461246 | 2462472 | 409 | 216.6 | - | 744781930 | peptidase T | S. hyicus | 0E+00 |
| 2393 | 2462485 | 2462988 | 168 | 53.8 | - | 744781929 | membrane protein | S. hyicus | 3E-116 |
| 2394 | 2463004 | 2463765 | 254 | 129.3 | - | 744781928 | membrane protein | S. hyicus | 1E-178 |
| 2395 | 2464139 | 2465209 | 357 | 159.8 | - | 744781927 | diguanylate cyclase (GGDEF) domain protein | S. hyicus | 0E+00 |
| 2396 | 2465573 | 2465893 | 107 | 27.1 | - | 744781926 | staphostatin A family protein | S. hyicus | 1E-37 |
| 2397 | 2465924 | 2467090 | 389 | 176.1 | - | 744781925 | staphopain A cysteine protease | S. hyicus | 0E+00 |
| 2398 | 2467796 | 2468842 | 349 | 123.1 | + | 746620942 | UDP-phosphate N-acetylglucosaminyl 1-phosphate transferase | S. hyicus | 0E+00 |
| 2399 | 2468889 | 2469527 | 213 | 100.7 | - | 746620940 | ABC transporter | S. hyicus | 2E-142 |
| 2400 | 2469844 | 2470707 | 288 | 152.3 | + | 746620939 | DegV family EDD domain-containing protein | S. hyicus | 0E+00 |
| 2401 | 2470850 | 2472136 | 429 | 128.5 | + | 746620936 | competence protein ComF | S. hyicus | 0E+00 |
| 2402 | 2472136 | 2472795 | 220 | 34.3 | + | 746620934 | Predicted amidophosphoribosyltransferases | S. hyicus | 2E-111 |
| 2403 | 2472858 | 2473427 | 190 | 109.9 | + | 739714069 | sigma-54 modulation protein | S. hyicus | 1E-133 |
| 2404 | 2473954 | 2474433 | 160 | 117.9 | + | 746620931 | preprotein translocase subunit SecA | S. hyicus | 3E-101 |