**Table S2.** Genes up-regulated in early log phase by Ax21

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|  |  |  | **Fold up-regulated** |
| **Locus ID** | **Common name** | **COG ID** | **Early log** | **Mid log** | **Late log** |
| PXO\_00026 | MotA | COG1291N | 2.20 |  |  |
| PXO\_00027 | OmpA | COG1360N | 3.14 |  |  |
| PXO\_00389 | superoxide dismutase (SodM) | COG0605P | 3.29 |  | 2.71 |
| PXO\_00451 | polar amino acid transporter | COG4535P | 1.80 |  |  |
| PXO\_00958 | flagellar biosynthesis switch protein (FleN) | COG0455D | 1.89 |  |  |
| PXO\_01000 | flagellar protein | COG1345N | 4.76 |  | 1.77 |
| PXO\_01016 | flagellar protein (FlgM) |  | 4.19 |  | 1.82 |
| PXO\_01017 | conserved hypothetical protein |  | 2.82 |  |  |
| PXO\_01138 | protein U (Pru) | COG5430S | 1.76 |  |  |
| PXO\_01391 | exopolysaccharide xanthan biosynthesis (GumB) | COG1596M | 2.79 |  |  |
| PXO\_01395 | exopolysaccharide xanthan biosynthesis (GumE) |  | 1.96 |  |  |
| PXO\_01400 | exopolysaccharide xanthan biosynthesis (GumJ) | COG2244R | 1.76 |  |  |
| PXO\_01602 | PilG | COG0745TK | 1.76 |  |  |
| PXO\_01659 | conserved hypothetical protein |  | 2.46 |  |  |
| PXO\_02431 | cellulase S |  | 2.79 |  | 1.76 |
| PXO\_02830 | catalase | COG0753P | 2.00 |  |  |
| PXO\_02851 | conserved hypothetical protein | COG5510S | 2.78 |  | 1.76 |
| PXO\_02852 | entericidin family (EcnA/B) |  | 4.02 |  | 2.55 |
| PXO\_02931 | conserved hypothetical protein |  | 2.04 |  |  |
| PXO\_03037 | conserved hypothetical protein |  | 1.99 |  |  |
| PXO\_03185 | DNA-binding protein | COG2916R | 1.82 |  |  |
| PXO\_03604 | conserved hypothetical protein | COG5481S | 1.81 |  |  |
| PXO\_03892 | DNA-binding protein |  | 1.80 |  |  |
| PXO\_04410 | lipoprotein, putative |  | 2.40 |  |  |
| PXO\_04458 | conserved hypothetical protein |  | 2.46 |  |  |
| PXO\_04714 | lipoprotein, putative | COG1262S | 3.00 |  | 2.45 |
| PXO\_06137 | ClpS | COG2127S | 1.76 |  |  |
| PXO\_06165 | flagellar protein | COG1344N | 3.31 |  |  |