

| Gene | Hours post induction (log ₂ (induced / un-induced)) | | | | | | | Gene Function |
|-------------|--|-------|-------|-------|-------|-------|-------|--|
| | 0.5 | 1 | 1.5 | 2 | 3 | 3.5 | 4 | |
| <i>aer</i> | -0.02 | -0.38 | -0.26 | -0.41 | -0.19 | 0.34 | -0.04 | "aerotaxis sensor receptor, flavoprotein [b3072]" |
| <i>chaC</i> | -0.09 | -0.10 | -0.18 | -0.48 | -0.58 | -0.54 | -0.87 | cation transport regulator [b1218] sensory transducer kinase between chemo- signal receptors and CheB and CheY |
| <i>cheA</i> | -0.10 | -0.08 | 0.11 | -0.40 | 0.04 | 0.62 | 0.30 | [b1888] |
| <i>cheB</i> | -0.06 | -0.24 | -0.01 | -0.14 | 0.22 | 0.25 | 0.36 | response regulator for chemotaxis [b1883] |
| <i>cheR</i> | -0.02 | -0.13 | -0.02 | -0.12 | 0.22 | 0.19 | 0.54 | response regulator for chemotaxis; protein glutamate methyltransferase [b1884] |
| <i>cheW</i> | -0.20 | -0.06 | -0.20 | 0.06 | -0.12 | -0.23 | -0.13 | positive regulator of CheA protein activity [b1887] chemotaxis regulator transmits chemoreceptor signals to flagellar motor components |
| <i>cheY</i> | -0.16 | -0.41 | -0.31 | -0.38 | -0.29 | 0.81 | 0.76 | [b1882] |
| <i>cheZ</i> | -0.30 | -0.02 | -0.08 | -0.23 | 0.72 | 0.66 | 0.55 | Chemotaxis protein cheZ [c_2296] "carbon storage regulator; controls glycogen synthesis, gluconeogenesis, cell size and |
| <i>csrA</i> | -1.61 | -1.10 | -1.14 | -1.26 | -1.75 | -1.27 | -2.05 | surface properties [b2696]" reoxidizes DsbA protein following formation of disulfide bond in P-ring of flagella. |
| <i>dsbB</i> | -0.88 | -1.47 | 0.12 | 0.82 | 0.14 | 0.40 | 0.24 | [b1185] |
| <i>flgA</i> | -0.08 | 0.20 | 0.07 | -0.11 | -0.05 | 0.11 | 0.00 | flagellar biosynthesis; assembly of basal-body periplasmic P ring [b1072] |
| <i>flgB</i> | -0.05 | 0.04 | 0.07 | -0.22 | 0.09 | 0.34 | -0.08 | "flagellar biosynthesis, cell-proximal portion of basal-body rod [b1073]" |
| <i>flgC</i> | 0.01 | 0.04 | 0.07 | -0.31 | 0.02 | 0.56 | 0.19 | "flagellar biosynthesis, cell-proximal portion of basal-body rod [b1074]" |
| <i>flgD</i> | -0.07 | -0.01 | 0.03 | -0.55 | 0.10 | 0.48 | 0.23 | "flagellar biosynthesis, initiation of hook assembly [b1075]" |
| <i>flgE</i> | -0.11 | -0.16 | -0.14 | -0.33 | 0.13 | 0.23 | 0.28 | "flagellar biosynthesis, hook protein [b1076]" |
| <i>flgF</i> | -0.04 | 0.35 | 0.14 | -0.15 | -0.40 | -0.08 | -0.21 | "flagellar biosynthesis, cell-proximal portion of basal-body rod [b1077]" |
| <i>flgG</i> | 0.14 | 0.20 | 0.12 | -0.20 | 0.13 | -0.23 | 0.24 | "flagellar biosynthesis, cell-distal portion of basal-body rod [b1078]" |
| <i>flgH</i> | -0.02 | -0.09 | -0.03 | -0.25 | -0.12 | 0.60 | 0.30 | "flagellar biosynthesis, basal-body outer-membrane L [b1079]" |
| <i>flgI</i> | -0.09 | 0.18 | -0.15 | -0.47 | -0.12 | 0.55 | 0.45 | homolog of Salmonella P-ring of flagella basal body [b1080] |
| <i>flgJ</i> | 0.00 | 0.06 | 0.03 | -0.27 | -0.05 | 0.49 | 0.25 | flagellar biosynthesis [b1081] |
| <i>flgK</i> | -0.12 | -0.39 | 0.04 | -0.17 | 0.00 | -0.10 | -0.21 | "flagellar biosynthesis, hook-filament junction protein 1 [b1082]" |
| <i>flgL</i> | -0.18 | -0.26 | -0.04 | -0.14 | -0.16 | 0.01 | 0.23 | flagellar biosynthesis; hook-filament junction protein [b1083] |
| <i>flgM</i> | -0.85 | -0.11 | -0.59 | -0.59 | -0.66 | -0.65 | -0.84 | anti-FliA [b1071] |
| <i>flgN</i> | -0.33 | -0.23 | -0.87 | -0.80 | -0.89 | -0.89 | -1.35 | protein of flagellar biosynthesis [b1070] |
| <i>flhA</i> | 0.04 | 0.00 | 0.13 | -0.05 | -0.05 | 0.37 | 0.04 | flagellar biosynthesis; possible export of flagellar proteins [b1879] regulator of flagellar biosynthesis acting on class 2 operons; transcription initiation |
| <i>flhC</i> | -0.43 | -0.19 | 2.11 | 2.29 | 1.20 | 2.74 | 1.84 | factor [b1891] "regulator of flagellar biosynthesis, acting on class 2 operons; transcriptional initiation |
| <i>flhD</i> | -0.46 | -0.49 | 1.91 | 2.13 | 1.12 | 3.80 | 3.22 | factor [b1892]" flagellar biosynthesis; alternative sigma factor 28; regulation of flagellar operons |
| <i>fliA</i> | 0.00 | 0.05 | 0.22 | 0.01 | 0.03 | 0.39 | 0.18 | [b1922] |

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|-------------|-------|-------|-------|-------|-------|-------|-------|--|
| <i>fliC</i> | 0.03 | 0.00 | -0.10 | 0.08 | 0.28 | 0.12 | 0.12 | Flagellin [c_2338] |
| <i>fliD</i> | 0.03 | 0.43 | 0.09 | -0.24 | -0.10 | 0.36 | 0.05 | flagellar biosynthesis; filament capping protein; enables filament assembly [b1924] |
| <i>fliE</i> | -0.04 | 0.38 | 0.07 | -0.17 | 0.43 | 0.35 | 0.46 | "flagellar biosynthesis; basal-body component, possibly at [b1937]" |
| <i>fliF</i> | 0.11 | 0.03 | -0.06 | -0.08 | 0.30 | 0.12 | 0.23 | flagellar biosynthesis; basal-body MS [b1938] |
| <i>fliG</i> | 0.00 | 0.29 | -0.10 | -0.15 | 0.10 | 0.46 | 0.06 | "flagellar biosynthesis, component of motor switching and energizing, enabling rotation and determining its direction [b1939]" |
| <i>fliH</i> | 0.05 | 0.27 | -0.05 | -0.28 | 0.06 | 0.22 | 0.09 | flagellar biosynthesis; export of flagellar proteins? [b1940] |
| <i>fliJ</i> | 0.00 | 0.00 | -0.07 | -0.16 | -0.06 | 0.46 | 0.51 | flagellar fliJ protein [b1942] |
| <i>fliK</i> | 0.14 | 0.01 | 0.02 | -0.13 | -0.07 | 0.18 | 0.23 | flagellar hook-length control protein [b1943] |
| <i>fliL</i> | -0.18 | 0.05 | 0.02 | -0.26 | 0.05 | 0.44 | 0.44 | flagellar biosynthesis [b1944] |
| <i>fliM</i> | 0.00 | 0.54 | 0.07 | -0.28 | 0.13 | 0.30 | 0.32 | "flagellar biosynthesis, component of motor switch and energizing, enabling rotation and determining its direction [b1945]" |
| <i>fliN</i> | -0.11 | -0.22 | -0.13 | -0.20 | 0.31 | 0.36 | 0.31 | "flagellar biosynthesis, component of motor switch and energizing, enabling rotation and determining its direction [b1946]" |
| <i>fliO</i> | -0.12 | -0.25 | 0.00 | -0.34 | 0.16 | 0.60 | 0.61 | flagellar biosynthesis [Z3037] |
| <i>fliP</i> | -0.01 | -0.13 | 0.03 | -0.19 | 0.28 | 0.56 | 0.51 | Flagellar biosynthetic protein fliP precursor [c_2365] |
| <i>fliS</i> | -0.09 | -0.05 | 0.02 | -0.16 | 0.06 | 0.46 | 0.44 | Flagellar protein fliS [c_2340] |
| <i>fliT</i> | 1.37 | 1.07 | 0.33 | 0.39 | 0.13 | -0.17 | 0.09 | flagellar biosynthesis; repressor of class 3a and 3b operons [b1926] |
| <i>malE</i> | -0.33 | 0.12 | -2.27 | -3.35 | -2.58 | -3.04 | -1.15 | periplasmic maltose-binding protein; substrate recognition for transport and chemotaxis [b4034] |
| <i>motA</i> | -0.01 | -0.17 | 0.65 | 0.92 | 0.56 | 1.03 | 1.03 | proton conductor component of motor; no effect on switching [b1890] |
| <i>motB</i> | 0.06 | -0.09 | 0.24 | 0.30 | 0.51 | 0.41 | 0.47 | "enables flagellar motor rotation, linking torque machinery to cell wall [b1889]" |
| <i>mqsR</i> | 0.14 | -0.61 | 0.54 | 0.39 | 0.16 | 0.42 | 0.66 | "orf, hypothetical protein [b3022]" |
| <i>nikA</i> | -0.02 | -0.13 | -0.02 | -0.01 | -0.05 | 0.26 | 0.17 | periplasmic binding protein for nickel [b3476] |
| <i>tap</i> | -0.02 | 0.01 | 0.11 | -0.34 | 0.03 | 0.44 | 0.16 | "methyl-accepting chemotaxis protein IV, peptide sensor receptor [b1885]" |
| <i>tar</i> | -0.02 | 0.13 | -0.05 | -0.39 | 0.31 | 0.06 | 0.04 | "methyl-accepting chemotaxis protein II, aspartate sensor receptor [b1886]" |
| <i>trg</i> | 0.14 | 0.05 | -0.07 | -0.04 | -0.36 | 0.13 | -0.10 | "methyl-accepting chemotaxis protein III, ribose sensor receptor [b1421]" |
| <i>tsr</i> | -0.05 | -0.02 | -0.04 | -0.02 | -0.07 | 0.27 | 0.02 | Methyl-accepting chemotaxis protein I [c_5430] |
| <i>ycgR</i> | -0.10 | -0.06 | -0.16 | -0.28 | 0.13 | 0.48 | 0.28 | "orf, hypothetical protein [b1194]" |
| <i>yehP</i> | 0.00 | 0.20 | -0.04 | 0.02 | -0.21 | 0.24 | -0.05 | "orf, hypothetical protein [b2121]" |
| <i>yeiA</i> | -0.23 | -0.28 | -1.36 | -0.99 | -1.87 | -2.10 | -2.18 | putative oxidoreductase [b2147] |
| <i>yhjH</i> | 0.02 | -0.51 | 0.02 | -0.10 | 0.32 | 0.37 | 0.47 | "orf, hypothetical protein [b3525]" |