

**Table S2.** Identification of altered total proteins by liquid chromatography-tandem mass spectrometry.

| <b>Protein name</b>                                          | <b>Description</b>                                                          | <b>Fold Change*</b> | <b>P value</b> |
|--------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|----------------|
| <b>Downregulated protein in <math>\Delta</math>prc-RS218</b> |                                                                             |                     |                |
| K3J1Q6                                                       | Uncharacterized protein                                                     | (-)100              | 3.12E-02       |
| DctA                                                         | C4-dicarboxylate transport protein                                          | (-)100              | 1.75E-02       |
| NarG                                                         | Nitrate reductase, alpha subunit                                            | (-)100              | 1.59E-02       |
| FadD                                                         | Long-chain-fatty-acid--CoA ligase                                           | (-)100              | 1.15E-02       |
| GrxB                                                         | Glutaredoxin-2                                                              | (-)100              | 7.30E-03       |
| BglA                                                         | 6-phospho-beta-glucosidase BglA                                             | (-)100              | 5.49E-03       |
| M8NDU5                                                       | Glycosyl hydrolase 1 family protein                                         | (-)100              | 5.49E-03       |
| GyrB                                                         | DNA gyrase subunit B                                                        | (-)100              | 2.31E-03       |
| F1ZQG5                                                       | Putative uncharacterized protein                                            | (-)100              | 1.62E-03       |
| PepB                                                         | Peptidase B                                                                 | (-)100              | 1.09E-03       |
| SlyB                                                         | Outer membrane lipoprotein SlyB                                             | (-)100              | 5.30E-04       |
| PrfC                                                         | Peptide chain release factor 3                                              | (-)100              | 4.10E-04       |
| FliC                                                         | Flagellin                                                                   | (-)100              | 2.50E-04       |
| AtpA                                                         | ATP synthase subunit alpha                                                  | (-)100              | 1.60E-04       |
| FadE                                                         | Acyl-CoA dehydrogenase                                                      | (-)100              | 5.00E-05       |
| RfaE                                                         | Heptose 1-phosphate<br>adenyltransferase                                    | (-)6.37             | 4.78E-02       |
| RplA                                                         | 50S ribosomal protein L1                                                    | (-)5.12             | 2.93E-02       |
| FdhE                                                         | Formate dehydrogenase formation<br>protein                                  | (-)5                | 4.11E-02       |
| ProX                                                         | Glycine betaine/proline ABC<br>transporter - periplasmic binding<br>protein | (-)4.75             | 2.82E-02       |
| DapA                                                         | 4-hydroxy-tetrahydrodipicolinate<br>synthase                                | (-)4.6              | 4.27E-02       |
| Dxs                                                          | 1-deoxy-D-xylulose-5-phosphate<br>synthase                                  | (-)4.45             | 4.34E-02       |
| NuoC                                                         | NADH-quinone oxidoreductase<br>subunit C/D                                  | (-)3.99             | 4.64E-02       |
| EF-Tu                                                        | Elongation factor Tu 2                                                      | (-)2.71             | 5.70E-04       |
| GdhA                                                         | Glutamate dehydrogenase                                                     | (-)2.28             | 2.35E-02       |
| B3Y1K2                                                       | AidA-I adhesin-like protein                                                 | (-)2.06             | 3.51E-02       |
| <b>Upregulated protein in <math>\Delta</math>prc-RS218</b>   |                                                                             |                     |                |
| AsnS                                                         | Asparagine--tRNA ligase                                                     | (+)100              | 3.44E-02       |

|        |                                                       |         |          |
|--------|-------------------------------------------------------|---------|----------|
| ArgT   | Lysine-arginine-ornithine-binding periplasmic protein | (+)100  | 1.98E-02 |
| MetQ   | Methionine ABC transporter substrate-binding protein  | (+)100  | 1.05E-02 |
| Hfq    | RNA-binding protein Hfq                               | (+)100  | 7.90E-03 |
| W1D8I5 | Dienelactone hydrolase and related enzymes            | (+)100  | 6.82E-03 |
| ThrC   | Threonine synthase                                    | (+)100  | 3.29E-03 |
| AphA   | Class B acid phosphatase                              | (+)100  | 3.26E-03 |
| IcdA   | Isocitrate dehydrogenase                              | (+)100  | 2.70E-03 |
| FkpA   | FKBP-type peptidyl-prolyl cis-trans isomerase         | (+)100  | 1.13E-03 |
| Spr    | Murein DD-endopeptidase                               | (+)100  | 1.10E-03 |
| YraP   | Phospholipid-binding domain protein                   | (+)100  | 8.40E-04 |
| NanA   | N-acetylneuraminate lyase                             | (+)100  | 7.80E-04 |
| Ag43   | Antigen 43                                            | (+)100  | 7.80E-04 |
| GlgC   | Glucose-1-phosphate adenylyltransferase               | (+)100  | 5.10E-04 |
| FumA   | Fumarate hydratase class I, aerobic                   | (+)100  | 3.40E-04 |
| BamA   | Outer membrane protein assembly factor                | (+)100  | 3.30E-04 |
| FabD   | Malonyl CoA-acyl carrier protein transacylase         | (+)100  | 2.40E-04 |
| HsdR   | Type I restriction enzyme EcoKI R protein             | (+)100  | 1.40E-04 |
| V6FBZ4 | PF12082 domain protein                                | (+)100  | 1.40E-04 |
| ArgF   | Ornithine carbamoyltransferase                        | (+)100  | 1.10E-04 |
| GlmS   | Glutamine--fructose-6-phosphate aminotransferase      | (+)100  | 6.00E-05 |
| GudD   | Glucarate dehydratase                                 | (+)100  | 1.00E-05 |
| Tsx    | Nucleoside-specific channel-forming protein           | (+)100  | 9.78E-07 |
| DadA   | D-amino acid dehydrogenase small subunit              | (+)5.07 | 2.98E-02 |
| MinD   | Septum site-determining protein MinD                  | (+)3.34 | 1.16E-02 |
| TraT   | Conjugal transfer surface exclusion protein TraT      | (+)3.17 | 1.55E-02 |
| KatG   | Catalase-peroxidase                                   | (+)2.94 | 2.91E-02 |

|        |                                            |         |          |
|--------|--------------------------------------------|---------|----------|
| HisG   | ATP phosphoribosyltransferase              | (+)2.71 | 4.17E-02 |
| ThrA   | Aspartokinase I-homoserine dehydrogenase I | (+)2.7  | 6.90E-04 |
| L3TFU9 | ChvD family ATP-binding cassette protein   | (+)2.38 | 2.87E-03 |
| TolC   | Outer membrane channel protein TolC        | (+)2.21 | 4.47E-03 |
| NagA   | N-acetylneuraminate synthase               | (+)2.12 | 9.40E-04 |

\* (-), indicates that the protein was downregulated in  $\Delta prc$ -RS218 compared to in WT-RS218.

(+), indicates that the protein was upregulated in  $\Delta prc$ -RS218 compared to in WT-RS218.