| Gene ID         | Samples (TPM) | Fold change in upregulated expression (log2FC) | P-value | FDR   |
|----------------|--------------|-----------------------------------------------|---------|-------|
| Reduction      | BT36+Cr(VI)  | Cr(VI)                                        |         |       |
| comp52998_c0_seq | 6357.047     | 0                                               | 0.9497  | 12.7086 8.34E-28 2.71E-24 |
| comp53032_c0_seq | 2012.036     | 0                                               | 0       | 10.9744 2.00E-24 2.29E-21 |
| comp53086_c0_seq | 1439.4555    | 0                                               | 0.2006  | 12.8091 1.49E-31 3.47E-27 |
| comp15415_c0_seq | 1388.7344    | 0.1859                                          | 4.6896  | 8.2101 6.46E-22 3.92E-19 |
| comp53108_c0_seq | 1361.5582    | 0                                               | 0.435   | 11.6121 1.40E-24 1.64E-21 |
| comp53172_c0_seq | 820.2077     | 0                                               | 0       | 9.6798 9.33E-22 5.45E-19 |
| comp53183_c0_seq | 593.2969     | 0                                               | 1.0101  | 9.2126 2.46E-22 1.69E-19 |
| comp53349_c0_seq | 440.417      | 0                                               | 0.1675  | 11.3601 8.85E-24 8.63E-21 |
| comp53349_c0_seq | 441.3075     | 0                                               | 0       | 8.7856 4.08E-24 4.28E-21 |
| comp53221_c0_seq | 413.5606     | 36.138                                          | 83.1198 | 2.3148 3.73E-05 5.25E-04 |
| comp53404_c0_seq | 388.5555     | 0                                               | 0       | 8.602 2.19E-22 1.55E-19 |
| comp53492_c0_seq | 350.9119     | 0                                               | 0       | 8.455 7.63E-23 6.12E-20 |
| comp55818_c0_seq | 294.7384     | 0                                               | 0       | 8.2033 2.53E-16 3.88E-14 |
| comp53616_c0_seq | 241.6433     | 0                                               | 0       | 7.9167 1.45E-17 2.94E-15 |
| comp53541_c0_seq | 230.1523     | 3.8874                                          | 51.4973 | 2.16 6.51E-05 8.53E-04 |
| comp67228_c0_seq | 189.2899     | 4.0733                                          | 36.2718 | 2.3387 4.34E-05 6.06E-04 |
| comp53832_c0_seq | 157.7314     | 1.5786                                          | 32.7598 | 2.2675 4.89E-05 6.65E-04 |
| comp53911_c0_seq | 138.4604     | 0                                               | 0       | 7.1133 1.66E-17 3.33E-15 |
| comp15333_c0_seq | 136.9528     | 0                                               | 0       | 7.0975 4.61E-21 2.22E-18 |
| comp54344_c0_seq | 125.2589     | 15.8389                                         | 61.2375 | 1.0324 9.29E-13 7.13E-11 |
| Antioxidation   |              |                                                |         |       |
| comp52978_c0_seq | 6170.3658    | 0.4838                                          | 0.5083  | 13.5675 1.97E-30 1.83E-26 |
| comp53028_c0_seq | 1593.492     | 0                                               | 0       | 10.638 4.82E-25 6.23E-22 |
| comp65675_c0_seq | 377.6587     | 1.3331                                          | 58.7155 | 2.6853 3.40E-06 6.49E-05 |
| comp12431_c0_seq | 296.261644   | 2.2786                                          | 78.0226 | 1.9249 2.11E-04 2.36E-03 |
| comp53635_c0_seq | 249.7676     | 5.8681                                          | 28.7589 | 3.1185 3.76E-07 9.09E-06 |
| comp12870_c0_seq | 246.5176     | 0.9605                                          | 1.0165  | 7.9219 9.09E-16 1.22E-13 |
| comp53711_c0_seq | 196.1017     | 69.8265                                         | 77.0592 | 1.3476 3.31E-03 2.25E-02 |
| comp53822_c0_seq | 199.0934     | 3.7531                                          | 75.6673 | 1.3957 2.61E-03 1.90E-02 |
| comp10887_c0_seq | 121.2359     | 28.7508                                         | 57.3308 | 1.0804 9.30E-03 4.97E-02 |
| comp53541_c0_seq | 230.1523     | 3.8874                                          | 51.4974 | 2.16 6.51E-05 8.53E-04 |
| comp15505_c0_seq | 183.3457     | 31.7524                                         | 45.7509 | 2.0027 1.55E-04 1.82E-03 |
| comp53861_c0_seq | 144.6550877  | 2.8594                                          | 57.7457 | 1.3248 3.38E-03 2.30E-02 |
| comp51497_c0_seq | 112.1898     | 22.6301                                         | 38.5    | 1.543 1.53E-03 1.21E-02 |
| comp10887_c0_seq | 121.2359     | 28.7508                                         | 57.3308 | 1.0804 1.28E-16 2.09E-14 |
| Unknown function |              |                                                |         |       |
| comp53346_c0_seq | 525.5945     | 0                                               | 0       | 9.0378 3.71E-20 1.40E-17 |
| comp53095_c0_seq | 1263.5387    | 0                                               | 0       | 10.3033 3.06E-20 1.18E-17 |
| comp24337_c0_seq | 909.9861     | 0                                               | 0       | 9.83 5.58E-19 1.55E-16 |
| comp53087_c0_seq | 1160.4648    | 0                                               | 0       | 10.1805 2.20E-20 8.91E-18 |
| comp53032_c0_seq | 2012.036     | 0                                               | 0       | 10.9744 2.00E-24 2.29E-21 |
| comp53431_c0_seq | 336.5851     | 0                                               | 0       | 8.3948 1.91E-18 4.62E-16 |
| comp53299_c0_seq | 407.1865     | 0.8095                                          | 0       | 9.7308 1.16E-16 1.92E-14 |
| comp52516_c2_seq | 849.6734     | 0                                               | 0       | 8.9744 1.14E-24 1.39E-21 |
| comp53047_c0_seq | 1353.387     | 0.1519                                          | 0       | 9.806 2.36E-21 1.23E-18 |
| comp51796_c0_seq | 179.5021     | 0.812                                           | 4.2684  | 5.3942 4.14E-11 2.31E-09 |
Species information

Thioredoxin [Faecalibaculum rodentium]
Desulfoferrodoxin [Faecalibaculum rodentium]
Pyruvate:ferredoxin (flavodoxin) oxidoreductase [Faecalibaculum rodentium]
Flavin reductase [Faecalibaculum rodentium]
Pyruvate:ferredoxin (flavodoxin) oxidoreductase [Eubacterium plexicaudatum]
Flavin reductase [Faecalibaculum rodentium]
FprA family A-type flavoprotein [Eubacterium plexicaudatum]
FAD/NAD(P)-binding oxidoreductase [Faecalibaculum rodentium]
FAD-dependent oxidoreductase [Faecalibaculum rodentium]
Thioredoxin-disulfide reductase [Faecalibaculum rodentium]
Desulfoferrodoxin [Eubacterium plexicaudatum]
NAD(P)H-dependent oxidoreductase [Faecalibaculum rodentium]
superoxide dismutase [Muribaculum intestinale]
Thioredoxin [Muribaculum intestinale]
MULTISPECIES: flavodoxin [unclassified muribaculaceae]
Nitroreductase family protein [Eubacterium plexicaudatum]
Rubredoxin family protein [Faecalibaculum rodentium]
Thioredoxin [Duncaniella muris]

Rubrerythrin family protein [Faecalibaculum rodentium]
Thiol peroxidase [Faecalibaculum rodentium]
Rubredoxin [Muribaculum intestinale]
Peroxiredoxin [Muribaculum intestinale]
Rubrerythrin family protein [Muribaculum intestinale]
NADH peroxidase [Lachnospiraceae bacterium A2]
Peroxiredoxin [Muribaculaceae bacterium DSM 103720]
Rubrerythrin [Muribaculum intestinale]
Rubrerythrin family protein [Parabacteroides distasonis]
Superoxide dismutase [Muribaculum intestinale]
Superoxide dismutase [Duncaniella muris]
MULTISPECIES: manganese catalase family protein [Bacteroidales]
MULTISPECIES: Rubrerythrin family protein [Enterorhabdus]
Rubrerythrin family protein [Parabacteroides distasonis]

hypothetical protein [Faecalibaculum rodentium]
hypothetical protein AALO17_17630 [Faecalibaculum rodentium]
hypothetical protein [Faecalibaculum rodentium]
hypothetical protein [Faecalibaculum rodentium]
hypothetical protein BVX94_00395 [bacterium B17]
hypothetical protein BO223_09690 [Faecalibaculum rodentium]
hypothetical protein [Faecalibaculum rodentium]
hypothetical protein [Faecalibaculum rodentium]
hypothetical protein [Eubacterium plexicaudatum]
Hypothetical protein [Lachnospiraceae bacterium 3-1]