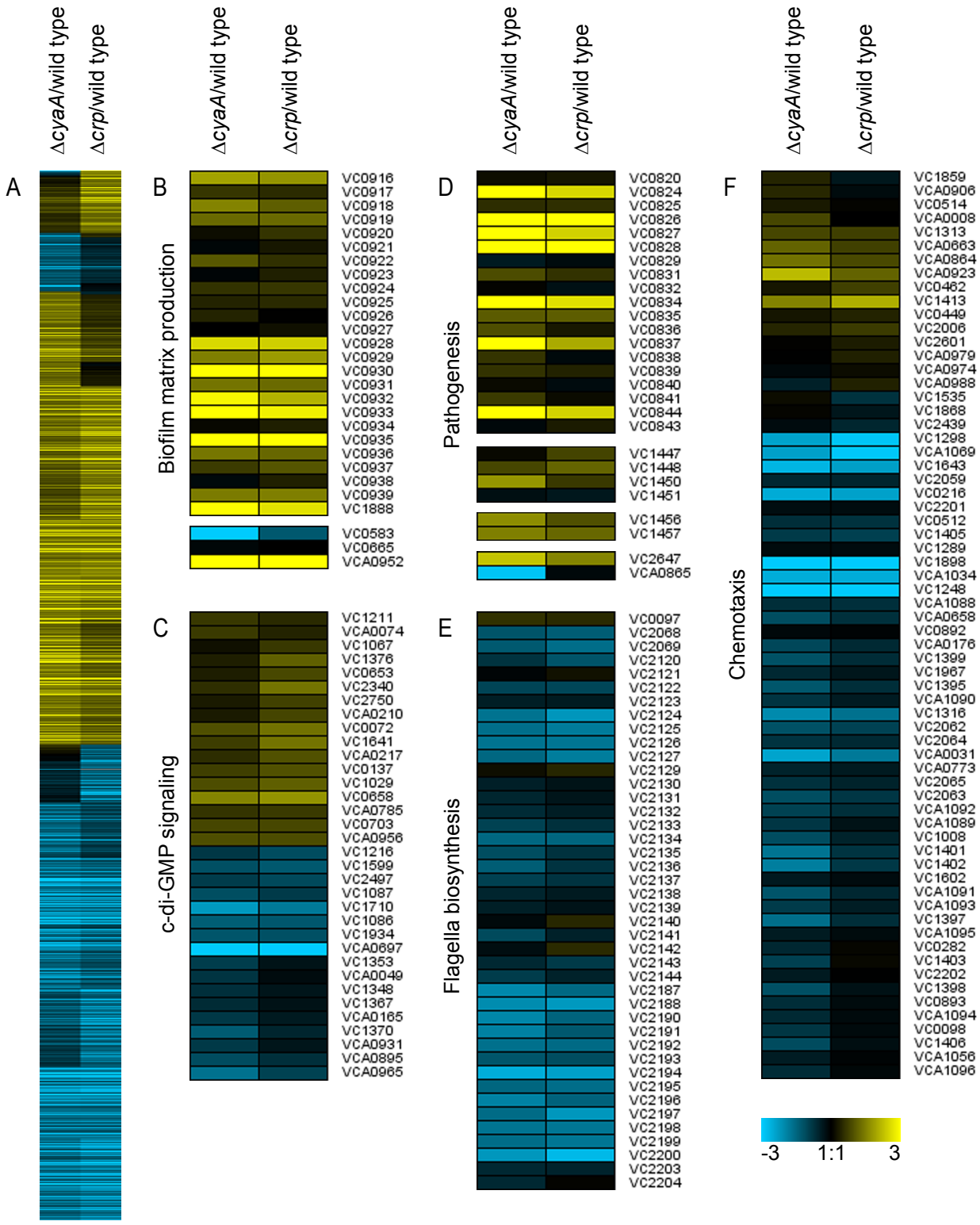


**Figure S1. Transcriptome analysis of cAMP-CRP regulation.**
(A) A compact view of all differentially-expressed genes in Δ*cyaA* and Δ*crp* relative to wild type. The expression profiles of (B) genes involved in biofilm matrix production, (C) genes encoding predicted DGEs and PDEs, (D) genes involved in pathogenesis, (E) flagella biosynthesis and (F) chemotaxis are also shown. Yellow represents induction and blue represents repression.

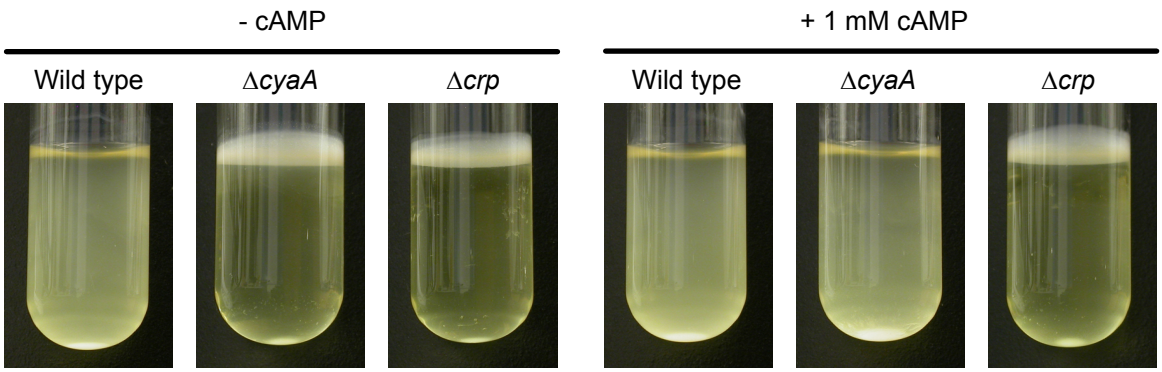


**Figure S2. Phenotypic analysis of the effect of exogenous cAMP on pellicle formation.** Addition of 1 mM exogenous cAMP abolishes the enhanced pellicle forming capacity of Δ*cyaA* but not that of Δ*crp*. Pellicle formation of wild type, Δ*cyaA* and Δ*crp* grown at 30$^{o}$C for 2 days with and without the addition of exogenous cAMP are shown. Images are representative of assays repeated with two different biological replicates.

**Table S1.** Genes that are differentially expressed in Δ*cyaA* relative to wild type. Differentially expressed genes were determined using SAM software with ≥ 2.0 fold change in gene expression and False Discovery Rate (FDR) ≤ 1% as a criteria.

| Gene ID | Fold Change |
|---|---|
| VC0001 | 2.18 |
| VC0002 | 2.03 |
| VC0007 | 2.31 |
| VC0008 | 4.30 |
| VC0009 | 2.88 |
| VC0010 | 12.73 |
| VC0011 | 3.58 |
| VC0020 | 2.01 |
| VC0021 | 2.02 |
| VC0023 | 0.16 |
| VC0024 | 2.24 |
| VC0033 | 2.04 |
| VC0036 | 0.11 |
| VC0037 | 2.31 |
| VC0039 | 2.66 |
| VC0050 | 2.30 |
| VC0054 | 2.85 |
| VC0056 | 2.26 |
| VC0057 | 2.43 |
| VC0059 | 3.79 |
| VC0060 | 2.24 |
| VC0061 | 2.04 |
| VC0065 | 2.50 |
| VC0067 | 2.90 |
| VC0069 | 0.06 |
| VC0070 | 2.20 |
| VC0071 | 2.39 |
| VC0073 | 2.39 |
| VC0074 | 0.45 |
| VC0076 | 0.06 |
| VC0086 | 2.08 |
| VC0087 | 2.12 |
| VC0089 | 0.05 |
| VC0117 | 0.31 |
| VC0118 | 0.36 |
| VC0119 | 0.45 |
| VC0124 | 2.31 |
| VC0127 | 2.63 |
| VC0128 | 2.80 |
| VC0129 | 2.29 |
| VC0133 | 0.41 |
| VC0134 | 3.26 |
| VC0135 | 2.26 |

| Gene ID | Fold Change |
|---|---|
| VC0136 | 2.70 |
| VC0142 | 0.23 |
| VC0146 | 0.39 |
| VC0151 | 0.47 |
| VC0156 | 2.47 |
| VC0159 | 0.35 |
| VC0162 | 0.36 |
| VC0168 | 0.33 |
| VC0176 | 0.45 |
| VC0177 | 0.10 |
| VC0186 | 2.25 |
| VC0187 | 2.17 |
| VC0190 | 2.01 |
| VC0191 | 3.09 |
| VC0195 | 2.82 |
| VC0196 | 3.45 |
| VC0197 | 3.75 |
| VC0210 | 2.39 |
| VC0215 | 2.78 |
| VC0216 | 0.17 |
| VC0218 | 2.36 |
| VC0219 | 2.56 |
| VC0227 | 2.15 |
| VC0228 | 3.51 |
| VC0232 | 2.07 |
| VC0238 | 2.17 |
| VC0240 | 2.77 |
| VC0268 | 2.51 |
| VC0278 | 2.66 |
| VC0290 | 2.31 |
| VC0291 | 3.50 |
| VC0292 | 2.66 |
| VC0298 | 0.30 |
| VC0299 | 0.20 |
| VC0300 | 0.18 |
| VC0303 | 0.47 |
| VC0313 | 3.36 |
| VC0325 | 2.15 |
| VC0330 | 0.45 |
| VC0335 | 2.07 |
| VC0341 | 2.76 |
| VC0359 | 2.30 |
| VC0360 | 2.13 |

| Gene ID | Fold Change |
|---|---|
| VC0364 | 0.12 |
| VC0379 | 2.06 |
| VC0383 | 4.49 |
| VC0384 | 9.29 |
| VC0385 | 11.57 |
| VC0386 | 8.94 |
| VC0387 | 2.09 |
| VC0391 | 8.35 |
| VC0412 | 0.50 |
| VC0428 | 2.42 |
| VC0430 | 5.54 |
| VC0432 | 0.14 |
| VC0435 | 2.02 |
| VC0438 | 2.44 |
| VC0446 | 2.02 |
| VC0451 | 2.56 |
| VC0453 | 2.26 |
| VC0454 | 2.48 |
| VC0458 | 2.21 |
| VC0469 | 2.43 |
| VC0473 | 2.42 |
| VC0475 | 2.59 |
| VC0476 | 2.67 |
| VC0477 | 2.60 |
| VC0478 | 3.38 |
| VC0479 | 4.07 |
| VC0480 | 4.28 |
| VC0484 | 2.77 |
| VC0487 | 3.63 |
| VC0488 | 0.39 |
| VC0490 | 0.23 |
| VC0491 | 0.07 |
| VC0492 | 0.09 |
| VC0511 | 4.48 |
| VC0525 | 2.11 |
| VC0534 | 2.25 |
| VC0537 | 3.16 |
| VC0538 | 9.90 |
| VC0539 | 3.16 |
| VC0541 | 4.88 |
| VC0547 | 0.30 |
| VC0557 | 3.17 |
| VC0561 | 2.36 |

| Gene ID | Fold Change |
|---|---|
| VC0562 | 2.31 |
| VC0563 | 2.73 |
| VC0564 | 3.29 |
| VC0574 | 0.44 |
| VC0578 | 2.04 |
| VC0583 | 0.11 |
| VC0592 | 2.08 |
| VC0594 | 3.74 |
| VC0602 | 2.54 |
| VC0605 | 2.28 |
| VC0608 | 0.15 |
| VC0622 | 0.31 |
| VC0626 | 2.86 |
| VC0640 | 2.19 |
| VC0646 | 3.75 |
| VC0649 | 0.44 |
| VC0656 | 2.47 |
| VC0658 | 2.95 |
| VC0660 | 2.18 |
| VC0662 | 2.00 |
| VC0663 | 2.76 |
| VC0664 | 2.45 |
| VC0667 | 5.60 |
| VC0679 | 3.63 |
| VC0681 | 2.22 |
| VC0682 | 2.29 |
| VC0695 | 3.21 |
| VC0696 | 2.04 |
| VC0697 | 0.36 |
| VC0707 | 0.44 |
| VC0712 | 2.24 |
| VC0717 | 2.93 |
| VC0722 | 0.43 |
| VC0723 | 0.44 |
| VC0737 | 0.40 |
| VC0739 | 2.80 |
| VC0746 | 2.19 |
| VC0752 | 2.21 |
| VC0763 | 2.93 |
| VC0764 | 3.13 |
| VC0765 | 3.85 |
| VC0773 | 0.49 |
| VC0774 | 0.34 |
| VC0784 | 0.41 |
| VC0808 | 3.48 |
| VC0811 | 0.48 |
| VC0823 | 2.98 |

| Gene ID | Fold Change |
|---|---|
| VC0824 | 11.82 |
| VC0826 | 13.27 |
| VC0827 | 9.20 |
| VC0834 | 19.24 |
| VC0837 | 9.65 |
| VC0847 | 2.15 |
| VC0857 | 0.48 |
| VC0864 | 2.10 |
| VC0868 | 2.60 |
| VC0870 | 2.02 |
| VC0875 | 3.12 |
| VC0877 | 2.77 |
| VC0880 | 3.60 |
| VC0881 | 2.40 |
| VC0883 | 0.30 |
| VC0894 | 2.02 |
| VC0903 | 2.19 |
| VC0905 | 5.18 |
| VC0906 | 3.10 |
| VC0916 | 3.76 |
| VC0918 | 2.93 |
| VC0919 | 2.36 |
| VC0922 | 2.04 |
| VC0928 | 5.89 |
| VC0929 | 2.83 |
| VC0930 | 21.04 |
| VC0931 | 2.30 |
| VC0932 | 7.46 |
| VC0933 | 5.89 |
| VC0935 | 12.75 |
| VC0936 | 2.63 |
| VC0939 | 2.73 |
| VC0945 | 5.28 |
| VC0951 | 2.72 |
| VC0956 | 2.42 |
| VC0957 | 0.15 |
| VC0962 | 2.83 |
| VC0963 | 2.09 |
| VC0965 | 4.99 |
| VC0966 | 2.41 |
| VC0968 | 8.57 |
| VC0969 | 2.83 |
| VC0972 | 0.38 |
| VC0977 | 3.55 |
| VC0985 | 3.25 |
| VC0988 | 2.12 |
| VC0998 | 0.38 |

| Gene ID | Fold Change |
|---|---|
| VC1008 | 0.46 |
| VC1010 | 3.81 |
| VC1018 | 2.05 |
| VC1024 | 2.55 |
| VC1031 | 0.46 |
| VC1032 | 0.48 |
| VC1034 | 0.12 |
| VC1036 | 2.65 |
| VC1043 | 0.17 |
| VC1046 | 0.19 |
| VC1047 | 0.16 |
| VC1051 | 3.36 |
| VC1052 | 2.45 |
| VC1054 | 2.09 |
| VC1059 | 0.28 |
| VC1075 | 9.74 |
| VC1078 | 2.11 |
| VC1080 | 0.32 |
| VC1081 | 0.49 |
| VC1082 | 0.47 |
| VC1083 | 0.47 |
| VC1084 | 0.39 |
| VC1085 | 0.47 |
| VC1086 | 0.38 |
| VC1087 | 0.43 |
| VC1091 | 0.43 |
| VC1094 | 0.44 |
| VC1097 | 2.91 |
| VC1099 | 2.24 |
| VC1106 | 3.18 |
| VC1109 | 2.18 |
| VC1121 | 0.48 |
| VC1122 | 0.42 |
| VC1125 | 0.47 |
| VC1126 | 3.17 |
| VC1127 | 2.45 |
| VC1128 | 3.50 |
| VC1139 | 2.30 |
| VC1140 | 2.51 |
| VC1147 | 0.24 |
| VC1148 | 0.40 |
| VC1150 | 0.28 |
| VC1153 | 0.47 |
| VC1155 | 0.02 |
| VC1156 | 0.18 |
| VC1157 | 0.21 |
| VC1164 | 2.93 |

| Gene ID | Fold Change |
|---|---|
| VC1165 | 2.71 |
| VC1166 | 2.29 |
| VC1169 | 2.05 |
| VC1176 | 0.44 |
| VC1182 | 2.41 |
| VC1194 | 3.31 |
| VC1195 | 2.10 |
| VC1201 | 2.44 |
| VC1208 | 2.01 |
| VC1209 | 2.09 |
| VC1212 | 2.13 |
| VC1215 | 2.25 |
| VC1221 | 0.44 |
| VC1222 | 0.46 |
| VC1224 | 0.31 |
| VC1235 | 9.46 |
| VC1242 | 0.07 |
| VC1246 | 3.25 |
| VC1247 | 0.17 |
| VC1248 | 0.03 |
| VC1249 | 0.10 |
| VC1262 | 0.07 |
| VC1264 | 0.25 |
| VC1265 | 0.33 |
| VC1266 | 0.25 |
| VC1267 | 0.45 |
| VC1268 | 2.50 |
| VC1269 | 0.34 |
| VC1270 | 0.47 |
| VC1277 | 0.42 |
| VC1280 | 0.14 |
| VC1281 | 0.10 |
| VC1291 | 2.18 |
| VC1293 | 4.90 |
| VC1298 | 0.19 |
| VC1300 | 0.46 |
| VC1301 | 0.40 |
| VC1302 | 0.42 |
| VC1314 | 0.19 |
| VC1315 | 0.50 |
| VC1316 | 0.25 |
| VC1318 | 5.35 |
| VC1325 | 0.09 |
| VC1327 | 0.18 |
| VC1334 | 0.31 |
| VC1343 | 2.54 |
| VC1344 | 0.43 |

| Gene ID | Fold Change |
|---|---|
| VC1345 | 0.40 |
| VC1346 | 0.47 |
| VC1352 | 0.23 |
| VC1362 | 0.45 |
| VC1364 | 2.30 |
| VC1365 | 4.20 |
| VC1366 | 2.77 |
| VC1368 | 2.41 |
| VC1369 | 0.40 |
| VC1370 | 0.37 |
| VC1373 | 2.06 |
| VC1378 | 2.06 |
| VC1379 | 2.42 |
| VC1395 | 0.41 |
| VC1396 | 0.33 |
| VC1397 | 0.32 |
| VC1398 | 0.44 |
| VC1399 | 0.43 |
| VC1400 | 0.43 |
| VC1401 | 0.30 |
| VC1402 | 0.27 |
| VC1406 | 0.46 |
| VC1413 | 2.92 |
| VC1420 | 0.34 |
| VC1421 | 3.66 |
| VC1422 | 11.24 |
| VC1438 | 0.32 |
| VC1439 | 0.43 |
| VC1440 | 0.39 |
| VC1441 | 0.34 |
| VC1442 | 0.34 |
| VC1449 | 4.10 |
| VC1450 | 3.37 |
| VC1453 | 2.34 |
| VC1456 | 3.07 |
| VC1457 | 2.83 |
| VC1461 | 2.59 |
| VC1462 | 4.26 |
| VC1480 | 0.30 |
| VC1481 | 0.19 |
| VC1482 | 0.46 |
| VC1491 | 2.28 |
| VC1492 | 0.43 |
| VC1495 | 4.89 |
| VC1506 | 0.43 |
| VC1508 | 2.06 |
| VC1509 | 0.45 |

| Gene ID | Fold Change |
|---|---|
| VC1523 | 0.49 |
| VC1524 | 0.41 |
| VC1531 | 2.30 |
| VC1532 | 0.48 |
| VC1534 | 2.68 |
| VC1539 | 0.10 |
| VC1540 | 2.31 |
| VC1544 | 0.44 |
| VC1545 | 0.38 |
| VC1548 | 0.45 |
| VC1555 | 0.45 |
| VC1556 | 0.30 |
| VC1558 | 0.35 |
| VC1559 | 0.18 |
| VC1560 | 0.21 |
| VC1572 | 0.48 |
| VC1573 | 0.35 |
| VC1577 | 7.25 |
| VC1578 | 25.62 |
| VC1579 | 7.51 |
| VC1583 | 2.03 |
| VC1590 | 0.33 |
| VC1591 | 0.49 |
| VC1595 | 0.34 |
| VC1599 | 0.44 |
| VC1604 | 0.34 |
| VC1605 | 0.25 |
| VC1612 | 0.22 |
| VC1613 | 0.40 |
| VC1617 | 0.17 |
| VC1618 | 0.16 |
| VC1619 | 0.36 |
| VC1620 | 0.42 |
| VC1623 | 2.98 |
| VC1624 | 2.26 |
| VC1625 | 2.53 |
| VC1628 | 3.75 |
| VC1629 | 2.24 |
| VC1630 | 4.00 |
| VC1633 | 2.93 |
| VC1635 | 2.35 |
| VC1640 | 2.55 |
| VC1642 | 3.34 |
| VC1643 | 0.15 |
| VC1644 | 0.50 |
| VC1645 | 0.04 |
| VC1646 | 2.47 |

| Gene ID | Fold Change |
|---|---|
| VC1659 | 0.44 |
| VC1661 | 5.46 |
| VC1664 | 0.42 |
| VC1671 | 2.50 |
| VC1673 | 0.42 |
| VC1674 | 0.31 |
| VC1675 | 0.37 |
| VC1678 | 0.47 |
| VC1686 | 2.25 |
| VC1696 | 0.08 |
| VC1700 | 3.50 |
| VC1701 | 2.81 |
| VC1703 | 0.41 |
| VC1704 | 0.27 |
| VC1707 | 0.29 |
| VC1710 | 0.21 |
| VC1718 | 0.30 |
| VC1719 | 3.38 |
| VC1721 | 2.02 |
| VC1727 | 0.44 |
| VC1731 | 2.89 |
| VC1732 | 2.31 |
| VC1739 | 2.08 |
| VC1754 | 0.47 |
| VC1761 | 0.40 |
| VC1763 | 0.35 |
| VC1766 | 0.34 |
| VC1770 | 0.34 |
| VC1771 | 0.27 |
| VC1772 | 0.39 |
| VC1787 | 0.18 |
| VC1788 | 0.48 |
| VC1831 | 0.17 |
| VC1832 | 2.02 |
| VC1834 | 2.03 |
| VC1842 | 0.44 |
| VC1843 | 0.40 |
| VC1844 | 0.29 |
| VC1849 | 3.81 |
| VC1852 | 2.36 |
| VC1854 | 0.08 |
| VC1855 | 2.35 |
| VC1869 | 2.16 |
| VC1871 | 2.60 |
| VC1885 | 2.64 |
| VC1888 | 7.84 |
| VC1892 | 6.50 |

| Gene ID | Fold Change |
|---|---|
| VC1898 | 0.11 |
| VC1905 | 2.19 |
| VC1919 | 0.43 |
| VC1927 | 0.11 |
| VC1928 | 0.06 |
| VC1929 | 0.05 |
| VC1934 | 0.42 |
| VC1938 | 0.26 |
| VC1947 | 4.54 |
| VC1959 | 2.15 |
| VC1963 | 2.55 |
| VC1968 | 2.08 |
| VC1971 | 6.06 |
| VC1981 | 2.68 |
| VC1982 | 6.25 |
| VC1983 | 2.20 |
| VC1984 | 0.42 |
| VC1985 | 0.26 |
| VC1990 | 2.11 |
| VC1992 | 4.46 |
| VC1993 | 0.12 |
| VC2001 | 2.08 |
| VC2002 | 2.11 |
| VC2003 | 2.13 |
| VC2007 | 0.25 |
| VC2010 | 0.23 |
| VC2013 | 0.34 |
| VC2019 | 2.92 |
| VC2021 | 2.14 |
| VC2022 | 3.17 |
| VC2023 | 4.54 |
| VC2024 | 6.48 |
| VC2025 | 2.49 |
| VC2026 | 2.25 |
| VC2027 | 2.34 |
| VC2031 | 3.13 |
| VC2044 | 3.95 |
| VC2047 | 0.10 |
| VC2062 | 0.43 |
| VC2063 | 0.47 |
| VC2068 | 0.42 |
| VC2069 | 0.40 |
| VC2070 | 0.25 |
| VC2074 | 2.27 |
| VC2076 | 0.38 |
| VC2077 | 0.36 |
| VC2084 | 0.46 |

| Gene ID | Fold Change |
|---|---|
| VC2085 | 0.30 |
| VC2086 | 0.25 |
| VC2087 | 0.25 |
| VC2088 | 0.19 |
| VC2089 | 0.20 |
| VC2090 | 0.39 |
| VC2091 | 0.27 |
| VC2092 | 0.28 |
| VC2095 | 0.46 |
| VC2096 | 0.50 |
| VC2104 | 0.39 |
| VC2105 | 0.18 |
| VC2113 | 2.63 |
| VC2117 | 5.07 |
| VC2122 | 0.49 |
| VC2124 | 0.30 |
| VC2125 | 0.32 |
| VC2126 | 0.31 |
| VC2127 | 0.35 |
| VC2134 | 0.34 |
| VC2135 | 0.45 |
| VC2136 | 0.38 |
| VC2141 | 0.49 |
| VC2145 | 3.87 |
| VC2146 | 5.13 |
| VC2148 | 2.02 |
| VC2149 | 2.48 |
| VC2150 | 3.40 |
| VC2152 | 2.57 |
| VC2154 | 2.09 |
| VC2157 | 2.23 |
| VC2158 | 2.37 |
| VC2163 | 2.63 |
| VC2168 | 2.35 |
| VC2173 | 2.10 |
| VC2174 | 0.25 |
| VC2183 | 3.58 |
| VC2187 | 0.25 |
| VC2188 | 0.24 |
| VC2189 | 0.24 |
| VC2190 | 0.25 |
| VC2191 | 0.26 |
| VC2192 | 0.33 |
| VC2193 | 0.42 |
| VC2194 | 0.19 |
| VC2195 | 0.35 |
| VC2196 | 0.26 |

| Gene ID | Fold Change |
|---|---|
| VC2197 | 0.32 |
| VC2198 | 0.30 |
| VC2199 | 0.35 |
| VC2200 | 0.22 |
| VC2206 | 0.39 |
| VC2207 | 0.20 |
| VC2208 | 0.43 |
| VC2210 | 0.31 |
| VC2212 | 2.84 |
| VC2213 | 2.33 |
| VC2214 | 2.52 |
| VC2236 | 2.09 |
| VC2239 | 2.13 |
| VC2241 | 0.47 |
| VC2261 | 2.65 |
| VC2264 | 0.24 |
| VC2267 | 2.06 |
| VC2275 | 0.45 |
| VC2279 | 2.83 |
| VC2306 | 0.40 |
| VC2317 | 2.35 |
| VC2318 | 2.09 |
| VC2334 | 2.01 |
| VC2338 | 0.46 |
| VC2341 | 0.45 |
| VC2342 | 2.59 |
| VC2345 | 2.38 |
| VC2347 | 2.18 |
| VC2356 | 2.15 |
| VC2357 | 0.11 |
| VC2358 | 0.38 |
| VC2378 | 0.30 |
| VC2391 | 2.65 |
| VC2420 | 2.13 |
| VC2432 | 0.48 |
| VC2433 | 0.36 |
| VC2434 | 0.31 |
| VC2441 | 2.04 |
| VC2442 | 2.12 |
| VC2447 | 5.46 |
| VC2448 | 3.64 |
| VC2449 | 2.98 |
| VC2467 | 0.47 |
| VC2471 | 0.46 |
| VC2472 | 2.67 |
| VC2473 | 0.16 |
| VC2476 | 2.29 |

| Gene ID | Fold Change |
|---|---|
| VC2478 | 2.25 |
| VC2480 | 2.41 |
| VC2481 | 2.05 |
| VC2484 | 3.48 |
| VC2485 | 2.56 |
| VC2503 | 2.71 |
| VC2516 | 2.04 |
| VC2517 | 2.04 |
| VC2519 | 2.10 |
| VC2523 | 2.29 |
| VC2543 | 0.15 |
| VC2544 | 0.20 |
| VC2546 | 3.27 |
| VC2548 | 2.05 |
| VC2550 | 0.43 |
| VC2558 | 4.08 |
| VC2559 | 5.27 |
| VC2562 | 0.32 |
| VC2568 | 3.43 |
| VC2569 | 2.52 |
| VC2600 | 2.10 |
| VC2602 | 2.31 |
| VC2603 | 0.36 |
| VC2604 | 2.37 |
| VC2605 | 3.27 |
| VC2610 | 2.31 |
| VC2619 | 3.25 |
| VC2626 | 2.38 |
| VC2628 | 2.60 |
| VC2632 | 0.38 |
| VC2640 | 2.05 |
| VC2644 | 0.36 |
| VC2647 | 4.62 |
| VC2648 | 3.01 |
| VC2654 | 2.53 |
| VC2656 | 0.45 |
| VC2657 | 0.23 |
| VC2658 | 0.13 |
| VC2659 | 0.07 |
| VC2660 | 3.10 |
| VC2662 | 2.96 |
| VC2663 | 2.55 |
| VC2667 | 10.15 |
| VC2670 | 2.56 |
| VC2672 | 2.10 |
| VC2679 | 7.23 |
| VC2681 | 3.13 |

| Gene ID | Fold Change |
|---|---|
| VC2698 | 0.07 |
| VC2699 | 0.47 |
| VC2700 | 0.48 |
| VC2702 | 0.18 |
| VC2704 | 0.07 |
| VC2705 | 0.15 |
| VC2708 | 2.01 |
| VC2709 | 2.37 |
| VC2738 | 0.27 |
| VC2743 | 2.05 |
| VC2744 | 6.99 |
| VC2746 | 5.72 |
| VC2749 | 0.41 |
| VC2753 | 4.24 |
| VC2758 | 0.34 |
| VC2761 | 0.37 |
| VC2772 | 0.44 |
| VCA0005 | 2.58 |
| VCA0010 | 2.38 |
| VCA0014 | 0.45 |
| VCA0016 | 0.10 |
| VCA0017 | 0.50 |
| VCA0025 | 0.28 |
| VCA0031 | 0.19 |
| VCA0032 | 0.34 |
| VCA0037 | 0.38 |
| VCA0052 | 0.36 |
| VCA0055 | 2.98 |
| VCA0075 | 8.74 |
| VCA0083 | 2.47 |
| VCA0087 | 25.06 |
| VCA0091 | 2.31 |
| VCA0124 | 2.94 |
| VCA0125 | 3.94 |
| VCA0128 | 0.50 |
| VCA0130 | 0.31 |
| VCA0136 | 4.26 |
| VCA0141 | 0.33 |
| VCA0152 | 0.29 |
| VCA0154 | 0.49 |
| VCA0161 | 0.02 |
| VCA0166 | 3.06 |
| VCA0167 | 3.87 |
| VCA0176 | 0.48 |
| VCA0180 | 2.34 |
| VCA0190 | 2.32 |
| VCA0198 | 2.51 |

| Gene ID | Fold Change |
|---|---|
| VCA0205 | 0.31 |
| VCA0223 | 0.12 |
| VCA0224 | 0.45 |
| VCA0225 | 2.46 |
| VCA0227 | 0.18 |
| VCA0274 | 0.46 |
| VCA0278 | 0.42 |
| VCA0280 | 0.33 |
| VCA0281 | 0.14 |
| VCA0292 | 0.18 |
| VCA0297 | 0.43 |
| VCA0298 | 0.25 |
| VCA0299 | 0.35 |
| VCA0300 | 0.47 |
| VCA0304 | 0.35 |
| VCA0306 | 0.50 |
| VCA0307 | 0.44 |
| VCA0308 | 0.45 |
| VCA0312 | 2.49 |
| VCA0316 | 0.37 |
| VCA0317 | 0.26 |
| VCA0321 | 0.41 |
| VCA0322 | 0.32 |
| VCA0328 | 0.38 |
| VCA0330 | 0.28 |
| VCA0333 | 2.14 |
| VCA0337 | 0.26 |
| VCA0345 | 0.21 |
| VCA0350 | 0.26 |
| VCA0357 | 0.48 |
| VCA0358 | 0.48 |
| VCA0376 | 0.49 |
| VCA0378 | 0.33 |
| VCA0383 | 0.23 |
| VCA0384 | 0.50 |
| VCA0395 | 0.19 |
| VCA0406 | 0.22 |
| VCA0407 | 0.48 |
| VCA0409 | 0.47 |
| VCA0410 | 0.43 |
| VCA0412 | 0.45 |
| VCA0429 | 0.47 |
| VCA0431 | 0.49 |
| VCA0435 | 0.40 |
| VCA0436 | 0.39 |
| VCA0439 | 0.31 |
| VCA0443 | 0.34 |

| Gene ID | Fold Change |
|---|---|
| VCA0445 | 2.32 |
| VCA0448 | 0.15 |
| VCA0467 | 0.49 |
| VCA0491 | 0.47 |
| VCA0492 | 0.30 |
| VCA0494 | 0.27 |
| VCA0502 | 0.45 |
| VCA0505 | 0.49 |
| VCA0511 | 0.23 |
| VCA0512 | 0.45 |
| VCA0516 | 0.37 |
| VCA0518 | 0.38 |
| VCA0522 | 0.49 |
| VCA0523 | 0.30 |
| VCA0525 | 3.61 |
| VCA0537 | 0.47 |
| VCA0545 | 2.08 |
| VCA0546 | 3.03 |
| VCA0549 | 2.40 |
| VCA0558 | 0.25 |
| VCA0574 | 0.17 |
| VCA0576 | 0.15 |
| VCA0582 | 3.31 |
| VCA0594 | 0.16 |
| VCA0609 | 0.18 |
| VCA0610 | 0.34 |
| VCA0616 | 3.10 |
| VCA0623 | 0.33 |
| VCA0625 | 0.37 |
| VCA0628 | 0.08 |
| VCA0638 | 0.44 |
| VCA0639 | 0.29 |
| VCA0644 | 0.45 |
| VCA0646 | 0.48 |
| VCA0647 | 0.39 |
| VCA0648 | 0.44 |
| VCA0658 | 0.45 |
| VCA0663 | 2.25 |
| VCA0678 | 0.41 |
| VCA0685 | 0.05 |
| VCA0686 | 0.44 |
| VCA0687 | 0.25 |
| VCA0688 | 0.02 |
| VCA0689 | 0.01 |
| VCA0690 | 0.01 |
| VCA0691 | 0.01 |
| VCA0694 | 3.07 |

| Gene ID | Fold Change |
|---|---|
| VCA0696 | 0.48 |
| VCA0697 | 0.09 |
| VCA0698 | 0.23 |
| VCA0699 | 0.44 |
| VCA0702 | 0.36 |
| VCA0710 | 2.73 |
| VCA0721 | 4.78 |
| VCA0728 | 0.42 |
| VCA0730 | 0.46 |
| VCA0736 | 0.47 |
| VCA0738 | 0.26 |
| VCA0741 | 2.27 |
| VCA0742 | 2.38 |
| VCA0745 | 0.36 |
| VCA0752 | 2.07 |
| VCA0757 | 0.47 |
| VCA0758 | 0.36 |
| VCA0759 | 0.38 |
| VCA0760 | 0.23 |
| VCA0764 | 3.53 |
| VCA0765 | 3.16 |
| VCA0769 | 3.83 |
| VCA0770 | 7.75 |
| VCA0771 | 9.72 |
| VCA0772 | 2.02 |
| VCA0774 | 0.37 |
| VCA0798 | 0.09 |
| VCA0799 | 3.33 |
| VCA0801 | 8.22 |
| VCA0804 | 2.84 |
| VCA0812 | 0.24 |
| VCA0839 | 0.32 |
| VCA0840 | 3.39 |
| VCA0842 | 2.19 |
| VCA0843 | 0.35 |
| VCA0849 | 3.10 |
| VCA0860 | 0.40 |
| VCA0864 | 2.53 |
| VCA0865 | 0.13 |
| VCA0866 | 0.21 |
| VCA0871 | 2.54 |
| VCA0877 | 0.16 |
| VCA0878 | 0.12 |
| VCA0879 | 0.31 |
| VCA0880 | 0.24 |
| VCA0881 | 0.06 |
| VCA0882 | 0.08 |

| Gene ID | Fold Change |
|---|---|
| VCA0883 | 0.03 |
| VCA0884 | 0.25 |
| VCA0892 | 0.06 |
| VCA0895 | 0.46 |
| VCA0896 | 4.49 |
| VCA0897 | 4.08 |
| VCA0898 | 2.25 |
| VCA0908 | 0.16 |
| VCA0910 | 0.23 |
| VCA0911 | 0.49 |
| VCA0916 | 0.27 |
| VCA0917 | 0.28 |
| VCA0918 | 0.16 |
| VCA0923 | 4.62 |
| VCA0925 | 2.38 |
| VCA0931 | 0.48 |
| VCA0936 | 2.02 |
| VCA0943 | 0.42 |
| VCA0945 | 0.14 |

| Gene ID | Fold Change |
|---|---|
| VCA0952 | 74.62 |
| VCA0953 | 2.96 |
| VCA0965 | 0.31 |
| VCA0970 | 4.45 |
| VCA0980 | 0.39 |
| VCA0981 | 0.48 |
| VCA0986 | 0.43 |
| VCA0994 | 0.26 |
| VCA1004 | 0.22 |
| VCA1024 | 0.47 |
| VCA1025 | 2.55 |
| VCA1027 | 0.33 |
| VCA1028 | 0.40 |
| VCA1033 | 0.23 |
| VCA1034 | 0.17 |
| VCA1041 | 0.34 |
| VCA1042 | 0.41 |
| VCA1043 | 0.49 |
| VCA1044 | 0.26 |

| Gene ID | Fold Change |
|---|---|
| VCA1045 | 0.37 |
| VCA1046 | 0.27 |
| VCA1050 | 0.49 |
| VCA1060 | 9.45 |
| VCA1065 | 0.18 |
| VCA1068 | 0.35 |
| VCA1069 | 0.18 |
| VCA1071 | 0.14 |
| VCA1072 | 0.44 |
| VCA1073 | 0.09 |
| VCA1076 | 0.33 |
| VCA1079 | 2.05 |
| VCA1085 | 0.23 |
| VCA1091 | 0.43 |
| VCA1103 | 0.47 |
| VCA1107 | 0.43 |
| VCA1113 | 0.25 |

**Table S2.** Genes that are differentially expressed in Δ*crp* relative to wild type. Differentially expressed genes were determined using SAM software with ≥ 2.0 fold change in gene expression and False Discovery Rate (FDR) ≤ 1% as a criteria.

| Gene ID | Fold Change |
|---|---|
| VC0008 | 4.83 |
| VC0010 | 8.32 |
| VC0011 | 3.38 |
| VC0015 | 0.48 |
| VC0017 | 0.22 |
| VC0018 | 3.09 |
| VC0023 | 0.22 |
| VC0024 | 2.17 |
| VC0027 | 0.39 |
| VC0029 | 0.13 |
| VC0030 | 0.11 |
| VC0031 | 0.09 |
| VC0036 | 0.11 |
| VC0045 | 2.57 |
| VC0050 | 2.43 |
| VC0054 | 2.34 |
| VC0056 | 2.26 |
| VC0057 | 2.35 |
| VC0059 | 6.59 |
| VC0061 | 2.93 |
| VC0064 | 2.47 |
| VC0065 | 2.52 |
| VC0067 | 2.22 |
| VC0069 | 0.08 |
| VC0070 | 2.94 |
| VC0072 | 2.53 |
| VC0073 | 3.31 |
| VC0074 | 0.49 |
| VC0076 | 0.11 |
| VC0078 | 2.27 |
| VC0079 | 2.43 |
| VC0080 | 2.24 |
| VC0083 | 2.39 |
| VC0086 | 2.33 |
| VC0087 | 2.38 |
| VC0089 | 0.05 |
| VC0102 | 0.42 |
| VC0107 | 3.22 |
| VC0113 | 4.73 |
| VC0117 | 0.23 |
| VC0118 | 0.35 |
| VC0119 | 0.45 |
| VC0122 | 6.05 |

| Gene ID | Fold Change |
|---|---|
| VC0128 | 2.65 |
| VC0131 | 2.75 |
| VC0133 | 0.38 |
| VC0134 | 4.14 |
| VC0135 | 2.58 |
| VC0141 | 2.03 |
| VC0142 | 0.37 |
| VC0146 | 0.32 |
| VC0154 | 2.20 |
| VC0159 | 0.30 |
| VC0162 | 0.25 |
| VC0168 | 0.17 |
| VC0170 | 0.35 |
| VC0172 | 0.43 |
| VC0175 | 0.19 |
| VC0178 | 2.41 |
| VC0186 | 2.22 |
| VC0187 | 3.02 |
| VC0191 | 2.36 |
| VC0195 | 3.07 |
| VC0196 | 2.28 |
| VC0197 | 2.30 |
| VC0210 | 3.88 |
| VC0216 | 0.19 |
| VC0218 | 2.76 |
| VC0219 | 2.79 |
| VC0222 | 2.35 |
| VC0227 | 2.48 |
| VC0228 | 2.40 |
| VC0236 | 0.34 |
| VC0268 | 2.47 |
| VC0277 | 2.01 |
| VC0290 | 4.92 |
| VC0291 | 5.72 |
| VC0292 | 3.61 |
| VC0298 | 0.29 |
| VC0299 | 0.25 |
| VC0300 | 0.32 |
| VC0307 | 2.35 |
| VC0314 | 2.53 |
| VC0323 | 2.02 |
| VC0325 | 2.08 |
| VC0330 | 0.41 |

| Gene ID | Fold Change |
|---|---|
| VC0342 | 2.22 |
| VC0359 | 2.77 |
| VC0364 | 0.20 |
| VC0365 | 2.12 |
| VC0366 | 2.43 |
| VC0369 | 2.19 |
| VC0383 | 6.35 |
| VC0384 | 9.58 |
| VC0385 | 10.19 |
| VC0386 | 6.46 |
| VC0387 | 4.68 |
| VC0391 | 8.25 |
| VC0400 | 0.49 |
| VC0421 | 2.12 |
| VC0423 | 2.14 |
| VC0424 | 3.14 |
| VC0430 | 2.65 |
| VC0432 | 0.12 |
| VC0438 | 2.11 |
| VC0440 | 2.05 |
| VC0447 | 2.20 |
| VC0451 | 2.99 |
| VC0453 | 3.38 |
| VC0454 | 7.42 |
| VC0456 | 2.32 |
| VC0457 | 2.08 |
| VC0458 | 2.80 |
| VC0461 | 3.06 |
| VC0468 | 2.52 |
| VC0469 | 2.14 |
| VC0475 | 2.14 |
| VC0476 | 2.70 |
| VC0478 | 2.01 |
| VC0479 | 3.40 |
| VC0480 | 2.31 |
| VC0484 | 2.90 |
| VC0488 | 0.36 |
| VC0490 | 0.23 |
| VC0491 | 0.04 |
| VC0492 | 0.07 |
| VC0537 | 2.84 |
| VC0538 | 10.26 |
| VC0539 | 3.04 |

| Gene ID | Fold Change |
|---|---|
| VC0541 | 3.93 |
| VC0547 | 0.22 |
| VC0548 | 0.48 |
| VC0556 | 2.77 |
| VC0557 | 3.05 |
| VC0561 | 2.52 |
| VC0562 | 2.55 |
| VC0563 | 2.93 |
| VC0564 | 3.06 |
| VC0574 | 0.23 |
| VC0575 | 0.35 |
| VC0583 | 0.48 |
| VC0592 | 2.13 |
| VC0594 | 3.57 |
| VC0608 | 0.20 |
| VC0622 | 0.23 |
| VC0633 | 0.12 |
| VC0640 | 3.15 |
| VC0646 | 3.68 |
| VC0647 | 0.48 |
| VC0649 | 0.40 |
| VC0656 | 2.90 |
| VC0658 | 3.34 |
| VC0660 | 3.05 |
| VC0667 | 6.40 |
| VC0679 | 2.12 |
| VC0693 | 0.39 |
| VC0695 | 2.20 |
| VC0707 | 0.44 |
| VC0712 | 3.75 |
| VC0713 | 2.47 |
| VC0716 | 2.16 |
| VC0717 | 4.14 |
| VC0723 | 0.34 |
| VC0731 | 2.21 |
| VC0739 | 2.75 |
| VC0746 | 2.21 |
| VC0748 | 3.31 |
| VC0749 | 2.86 |
| VC0752 | 2.51 |
| VC0757 | 2.20 |
| VC0763 | 2.72 |
| VC0764 | 2.76 |
| VC0765 | 2.77 |
| VC0786 | 4.07 |
| VC0789 | 2.42 |
| VC0808 | 2.54 |

| Gene ID | Fold Change |
|---|---|
| VC0815 | 0.48 |
| VC0823 | 5.83 |
| VC0824 | 5.80 |
| VC0826 | 9.85 |
| VC0827 | 5.41 |
| VC0834 | 3.40 |
| VC0837 | 4.56 |
| VC0842 | 2.43 |
| VC0851 | 2.40 |
| VC0855 | 2.78 |
| VC0856 | 2.50 |
| VC0873 | 2.05 |
| VC0875 | 3.04 |
| VC0879 | 0.24 |
| VC0881 | 2.10 |
| VC0883 | 0.36 |
| VC0894 | 2.75 |
| VC0895 | 2.08 |
| VC0905 | 2.65 |
| VC0906 | 2.62 |
| VC0916 | 3.35 |
| VC0918 | 2.16 |
| VC0919 | 2.37 |
| VC0928 | 5.45 |
| VC0929 | 3.57 |
| VC0930 | 8.01 |
| VC0932 | 4.27 |
| VC0933 | 5.99 |
| VC0935 | 8.06 |
| VC0936 | 2.32 |
| VC0939 | 2.84 |
| VC0945 | 16.02 |
| VC0946 | 2.55 |
| VC0951 | 2.13 |
| VC0953 | 2.11 |
| VC0956 | 4.29 |
| VC0957 | 0.38 |
| VC0961 | 2.07 |
| VC0962 | 2.03 |
| VC0965 | 2.62 |
| VC0968 | 5.87 |
| VC0969 | 2.42 |
| VC0972 | 0.47 |
| VC0977 | 3.23 |
| VC0981 | 2.15 |
| VC0985 | 3.46 |
| VC0998 | 0.33 |

| Gene ID | Fold Change |
|---|---|
| VC1010 | 2.00 |
| VC1029 | 2.17 |
| VC1034 | 0.08 |
| VC1037 | 2.26 |
| VC1043 | 0.25 |
| VC1046 | 0.18 |
| VC1047 | 0.19 |
| VC1051 | 3.27 |
| VC1052 | 2.75 |
| VC1059 | 0.22 |
| VC1075 | 16.28 |
| VC1077 | 2.12 |
| VC1080 | 0.31 |
| VC1086 | 0.40 |
| VC1091 | 0.32 |
| VC1094 | 0.23 |
| VC1095 | 0.30 |
| VC1099 | 2.48 |
| VC1105 | 2.71 |
| VC1106 | 2.98 |
| VC1112 | 3.87 |
| VC1113 | 3.79 |
| VC1114 | 2.41 |
| VC1127 | 3.09 |
| VC1128 | 4.02 |
| VC1140 | 3.02 |
| VC1142 | 2.31 |
| VC1146 | 2.32 |
| VC1147 | 0.32 |
| VC1148 | 0.36 |
| VC1150 | 0.37 |
| VC1156 | 0.24 |
| VC1157 | 0.23 |
| VC1158 | 0.37 |
| VC1164 | 2.49 |
| VC1165 | 2.84 |
| VC1166 | 2.36 |
| VC1177 | 3.00 |
| VC1189 | 0.32 |
| VC1191 | 2.38 |
| VC1193 | 2.15 |
| VC1194 | 4.27 |
| VC1197 | 0.22 |
| VC1201 | 2.18 |
| VC1206 | 2.32 |
| VC1215 | 2.65 |
| VC1216 | 0.45 |

| Gene ID | Fold Change |
|---|---|
| VC1235 | 4.46 |
| VC1242 | 0.07 |
| VC1246 | 3.79 |
| VC1247 | 0.38 |
| VC1248 | 0.03 |
| VC1249 | 0.23 |
| VC1258 | 0.43 |
| VC1259 | 8.75 |
| VC1262 | 0.10 |
| VC1263 | 2.23 |
| VC1264 | 0.39 |
| VC1266 | 0.28 |
| VC1268 | 2.17 |
| VC1277 | 0.46 |
| VC1281 | 0.17 |
| VC1293 | 3.78 |
| VC1298 | 0.13 |
| VC1300 | 0.33 |
| VC1301 | 0.13 |
| VC1302 | 0.45 |
| VC1304 | 0.43 |
| VC1307 | 0.49 |
| VC1314 | 0.22 |
| VC1316 | 0.31 |
| VC1318 | 6.52 |
| VC1323 | 2.15 |
| VC1324 | 0.36 |
| VC1325 | 0.07 |
| VC1327 | 0.20 |
| VC1334 | 0.38 |
| VC1340 | 2.18 |
| VC1344 | 0.42 |
| VC1345 | 0.43 |
| VC1346 | 0.47 |
| VC1350 | 2.16 |
| VC1352 | 0.33 |
| VC1362 | 0.32 |
| VC1364 | 2.59 |
| VC1365 | 4.88 |
| VC1366 | 2.78 |
| VC1368 | 4.22 |
| VC1378 | 2.47 |
| VC1379 | 6.17 |
| VC1383 | 0.49 |
| VC1384 | 0.45 |
| VC1385 | 0.36 |
| VC1393 | 2.57 |

| Gene ID | Fold Change |
|---|---|
| VC1413 | 3.36 |
| VC1416 | 0.35 |
| VC1420 | 0.45 |
| VC1421 | 2.84 |
| VC1422 | 4.32 |
| VC1437 | 0.41 |
| VC1438 | 0.30 |
| VC1439 | 0.26 |
| VC1440 | 0.24 |
| VC1441 | 0.19 |
| VC1442 | 0.18 |
| VC1445 | 0.45 |
| VC1448 | 2.40 |
| VC1462 | 3.68 |
| VC1479 | 0.30 |
| VC1480 | 0.15 |
| VC1481 | 0.10 |
| VC1482 | 0.45 |
| VC1488 | 2.15 |
| VC1491 | 3.93 |
| VC1492 | 0.42 |
| VC1495 | 5.32 |
| VC1496 | 0.46 |
| VC1506 | 0.37 |
| VC1512 | 0.45 |
| VC1524 | 0.47 |
| VC1531 | 2.60 |
| VC1532 | 0.42 |
| VC1539 | 0.08 |
| VC1545 | 0.38 |
| VC1556 | 0.29 |
| VC1558 | 0.26 |
| VC1559 | 0.15 |
| VC1560 | 0.19 |
| VC1568 | 0.28 |
| VC1573 | 0.23 |
| VC1576 | 2.20 |
| VC1577 | 7.91 |
| VC1578 | 16.80 |
| VC1579 | 12.64 |
| VC1583 | 4.27 |
| VC1584 | 3.05 |
| VC1599 | 0.40 |
| VC1604 | 0.33 |
| VC1605 | 0.17 |
| VC1607 | 0.38 |
| VC1616 | 3.33 |

| Gene ID | Fold Change |
|---|---|
| VC1617 | 0.28 |
| VC1618 | 0.21 |
| VC1619 | 0.46 |
| VC1620 | 0.41 |
| VC1623 | 2.91 |
| VC1628 | 3.75 |
| VC1629 | 2.14 |
| VC1630 | 6.12 |
| VC1633 | 2.10 |
| VC1635 | 2.58 |
| VC1640 | 2.35 |
| VC1641 | 2.56 |
| VC1642 | 2.47 |
| VC1643 | 0.21 |
| VC1644 | 0.49 |
| VC1645 | 0.04 |
| VC1646 | 2.07 |
| VC1661 | 8.58 |
| VC1663 | 0.39 |
| VC1664 | 0.43 |
| VC1673 | 0.35 |
| VC1674 | 0.27 |
| VC1682 | 0.40 |
| VC1684 | 0.42 |
| VC1685 | 0.46 |
| VC1696 | 0.08 |
| VC1700 | 5.04 |
| VC1704 | 0.20 |
| VC1707 | 0.40 |
| VC1708 | 2.11 |
| VC1710 | 0.29 |
| VC1716 | 0.18 |
| VC1718 | 0.25 |
| VC1721 | 2.91 |
| VC1725 | 2.75 |
| VC1727 | 0.26 |
| VC1731 | 2.65 |
| VC1736 | 3.39 |
| VC1741 | 0.42 |
| VC1754 | 0.22 |
| VC1760 | 0.25 |
| VC1761 | 0.26 |
| VC1763 | 0.44 |
| VC1765 | 0.33 |
| VC1766 | 0.32 |
| VC1768 | 0.33 |
| VC1769 | 0.35 |

| Gene ID | Fold Change |
|---|---|
| VC1770 | 0.30 |
| VC1771 | 0.14 |
| VC1787 | 0.21 |
| VC1819 | 0.32 |
| VC1831 | 0.10 |
| VC1833 | 2.80 |
| VC1834 | 2.17 |
| VC1841 | 0.44 |
| VC1842 | 0.40 |
| VC1843 | 0.40 |
| VC1844 | 0.24 |
| VC1849 | 3.49 |
| VC1852 | 2.80 |
| VC1854 | 0.09 |
| VC1855 | 3.02 |
| VC1865 | 0.31 |
| VC1866 | 0.47 |
| VC1867 | 0.45 |
| VC1871 | 2.19 |
| VC1873 | 0.49 |
| VC1885 | 3.25 |
| VC1888 | 6.28 |
| VC1892 | 4.08 |
| VC1898 | 0.09 |
| VC1905 | 2.21 |
| VC1907 | 0.44 |
| VC1909 | 0.26 |
| VC1913 | 2.51 |
| VC1918 | 0.50 |
| VC1919 | 0.17 |
| VC1922 | 0.43 |
| VC1925 | 0.30 |
| VC1927 | 0.13 |
| VC1928 | 0.09 |
| VC1929 | 0.19 |
| VC1934 | 0.44 |
| VC1938 | 0.29 |
| VC1947 | 7.35 |
| VC1950 | 0.21 |
| VC1951 | 0.26 |
| VC1963 | 3.06 |
| VC1968 | 2.29 |
| VC1975 | 0.49 |
| VC1981 | 4.01 |
| VC1982 | 7.90 |
| VC1983 | 3.03 |
| VC1984 | 0.39 |

| Gene ID | Fold Change |
|---|---|
| VC1985 | 0.14 |
| VC1992 | 2.95 |
| VC1993 | 0.10 |
| VC2002 | 3.68 |
| VC2007 | 0.26 |
| VC2010 | 0.23 |
| VC2011 | 0.45 |
| VC2013 | 0.17 |
| VC2019 | 3.76 |
| VC2021 | 2.27 |
| VC2022 | 2.59 |
| VC2023 | 4.34 |
| VC2024 | 6.28 |
| VC2031 | 4.08 |
| VC2037 | 0.37 |
| VC2042 | 2.09 |
| VC2044 | 4.87 |
| VC2047 | 0.15 |
| VC2068 | 0.38 |
| VC2069 | 0.35 |
| VC2070 | 0.35 |
| VC2074 | 2.53 |
| VC2076 | 0.37 |
| VC2077 | 0.30 |
| VC2084 | 0.25 |
| VC2085 | 0.27 |
| VC2086 | 0.12 |
| VC2087 | 0.17 |
| VC2088 | 0.18 |
| VC2089 | 0.16 |
| VC2090 | 0.39 |
| VC2091 | 0.22 |
| VC2092 | 0.26 |
| VC2102 | 0.22 |
| VC2105 | 0.25 |
| VC2108 | 2.55 |
| VC2113 | 2.95 |
| VC2120 | 0.42 |
| VC2122 | 0.48 |
| VC2124 | 0.22 |
| VC2125 | 0.28 |
| VC2126 | 0.30 |
| VC2127 | 0.28 |
| VC2134 | 0.37 |
| VC2145 | 2.79 |
| VC2146 | 4.67 |
| VC2150 | 2.88 |

| Gene ID | Fold Change |
|---|---|
| VC2152 | 2.51 |
| VC2154 | 2.74 |
| VC2163 | 2.92 |
| VC2168 | 2.50 |
| VC2169 | 2.16 |
| VC2174 | 0.31 |
| VC2183 | 4.81 |
| VC2187 | 0.37 |
| VC2188 | 0.21 |
| VC2189 | 0.17 |
| VC2190 | 0.36 |
| VC2191 | 0.35 |
| VC2192 | 0.35 |
| VC2193 | 0.45 |
| VC2194 | 0.20 |
| VC2195 | 0.29 |
| VC2196 | 0.36 |
| VC2197 | 0.21 |
| VC2198 | 0.30 |
| VC2199 | 0.31 |
| VC2200 | 0.16 |
| VC2206 | 0.44 |
| VC2207 | 0.21 |
| VC2208 | 0.43 |
| VC2210 | 0.33 |
| VC2223 | 0.31 |
| VC2227 | 0.45 |
| VC2261 | 2.27 |
| VC2264 | 0.26 |
| VC2290 | 0.41 |
| VC2291 | 0.43 |
| VC2293 | 0.38 |
| VC2294 | 0.46 |
| VC2295 | 0.44 |
| VC2331 | 3.62 |
| VC2337 | 0.33 |
| VC2340 | 2.57 |
| VC2341 | 0.49 |
| VC2345 | 2.16 |
| VC2357 | 0.09 |
| VC2358 | 0.47 |
| VC2361 | 0.27 |
| VC2362 | 0.39 |
| VC2364 | 0.49 |
| VC2365 | 2.54 |
| VC2367 | 0.34 |
| VC2368 | 0.47 |

| Gene ID | Fold Change |
|---|---|
| VC2378 | 0.35 |
| VC2389 | 0.46 |
| VC2390 | 0.38 |
| VC2391 | 2.09 |
| VC2395 | 2.29 |
| VC2398 | 0.47 |
| VC2415 | 2.03 |
| VC2420 | 2.02 |
| VC2431 | 0.49 |
| VC2433 | 0.41 |
| VC2434 | 0.32 |
| VC2447 | 2.34 |
| VC2448 | 2.12 |
| VC2450 | 2.20 |
| VC2459 | 2.03 |
| VC2471 | 0.27 |
| VC2473 | 0.36 |
| VC2476 | 2.10 |
| VC2477 | 2.02 |
| VC2478 | 3.90 |
| VC2479 | 2.10 |
| VC2480 | 3.01 |
| VC2497 | 0.47 |
| VC2507 | 2.28 |
| VC2543 | 0.15 |
| VC2544 | 0.24 |
| VC2546 | 3.67 |
| VC2548 | 2.10 |
| VC2558 | 2.66 |
| VC2559 | 4.15 |
| VC2568 | 2.21 |
| VC2585 | 2.18 |
| VC2586 | 2.33 |
| VC2602 | 2.49 |
| VC2603 | 0.44 |
| VC2604 | 2.00 |
| VC2605 | 2.91 |
| VC2610 | 2.07 |
| VC2618 | 0.46 |
| VC2622 | 2.14 |
| VC2626 | 2.08 |
| VC2628 | 2.37 |
| VC2644 | 0.30 |
| VC2647 | 2.86 |
| VC2648 | 2.23 |
| VC2654 | 2.70 |
| VC2657 | 0.28 |

| Gene ID | Fold Change |
|---|---|
| VC2658 | 0.14 |
| VC2659 | 0.03 |
| VC2663 | 2.23 |
| VC2664 | 2.88 |
| VC2665 | 4.01 |
| VC2666 | 2.11 |
| VC2667 | 8.00 |
| VC2679 | 2.47 |
| VC2695 | 2.06 |
| VC2698 | 0.06 |
| VC2702 | 0.26 |
| VC2704 | 0.09 |
| VC2705 | 0.21 |
| VC2708 | 3.85 |
| VC2709 | 2.15 |
| VC2738 | 0.18 |
| VC2744 | 2.68 |
| VC2746 | 2.99 |
| VC2749 | 0.39 |
| VC2753 | 6.22 |
| VC2758 | 0.32 |
| VC2761 | 0.28 |
| VC2763 | 0.25 |
| VC2764 | 0.39 |
| VC2765 | 0.29 |
| VC2766 | 0.27 |
| VC2767 | 0.28 |
| VC2768 | 0.31 |
| VC2769 | 0.27 |
| VC2770 | 0.38 |
| VC2772 | 0.39 |
| VC2773 | 0.38 |
| VCA0005 | 2.86 |
| VCA0012 | 2.56 |
| VCA0014 | 0.30 |
| VCA0016 | 0.09 |
| VCA0017 | 0.39 |
| VCA0025 | 0.31 |
| VCA0031 | 0.29 |
| VCA0032 | 0.43 |
| VCA0037 | 0.24 |
| VCA0055 | 2.37 |
| VCA0062 | 5.87 |
| VCA0075 | 7.62 |
| VCA0083 | 2.90 |
| VCA0087 | 38.28 |
| VCA0091 | 2.80 |

| Gene ID | Fold Change |
|---|---|
| VCA0124 | 2.23 |
| VCA0125 | 3.57 |
| VCA0130 | 0.18 |
| VCA0141 | 0.19 |
| VCA0152 | 0.31 |
| VCA0154 | 0.46 |
| VCA0161 | 0.02 |
| VCA0166 | 2.32 |
| VCA0167 | 2.48 |
| VCA0186 | 0.39 |
| VCA0189 | 2.26 |
| VCA0190 | 2.20 |
| VCA0198 | 2.62 |
| VCA0205 | 0.49 |
| VCA0223 | 0.15 |
| VCA0225 | 2.45 |
| VCA0227 | 0.30 |
| VCA0231 | 0.23 |
| VCA0244 | 0.40 |
| VCA0274 | 0.44 |
| VCA0278 | 0.47 |
| VCA0280 | 0.37 |
| VCA0281 | 0.14 |
| VCA0286 | 0.49 |
| VCA0292 | 0.24 |
| VCA0298 | 0.39 |
| VCA0300 | 0.48 |
| VCA0308 | 0.44 |
| VCA0310 | 0.46 |
| VCA0314 | 0.48 |
| VCA0317 | 0.21 |
| VCA0322 | 0.38 |
| VCA0328 | 0.46 |
| VCA0330 | 0.42 |
| VCA0337 | 0.34 |
| VCA0345 | 0.22 |
| VCA0350 | 0.33 |
| VCA0358 | 0.40 |
| VCA0362 | 8.70 |
| VCA0367 | 0.50 |
| VCA0378 | 0.44 |
| VCA0381 | 0.48 |
| VCA0384 | 0.50 |
| VCA0395 | 0.19 |
| VCA0406 | 0.17 |
| VCA0410 | 0.43 |
| VCA0412 | 0.45 |

| Gene ID | Fold Change |
|---|---|
| VCA0414 | 0.43 |
| VCA0433 | 2.06 |
| VCA0435 | 0.48 |
| VCA0436 | 0.39 |
| VCA0439 | 0.49 |
| VCA0446 | 2.06 |
| VCA0448 | 0.23 |
| VCA0492 | 0.22 |
| VCA0493 | 2.03 |
| VCA0494 | 0.34 |
| VCA0511 | 0.33 |
| VCA0516 | 0.50 |
| VCA0522 | 0.44 |
| VCA0523 | 0.35 |
| VCA0525 | 7.40 |
| VCA0533 | 2.38 |
| VCA0537 | 0.41 |
| VCA0539 | 0.43 |
| VCA0545 | 2.10 |
| VCA0546 | 2.85 |
| VCA0547 | 0.20 |
| VCA0558 | 0.18 |
| VCA0573 | 0.35 |
| VCA0574 | 0.12 |
| VCA0591 | 0.41 |
| VCA0594 | 0.14 |
| VCA0609 | 0.19 |
| VCA0610 | 0.38 |
| VCA0616 | 3.23 |
| VCA0623 | 0.27 |
| VCA0625 | 0.40 |
| VCA0628 | 0.12 |
| VCA0630 | 0.50 |
| VCA0633 | 2.08 |
| VCA0639 | 0.26 |
| VCA0644 | 0.43 |
| VCA0660 | 2.16 |
| VCA0678 | 0.42 |
| VCA0685 | 0.05 |
| VCA0686 | 0.40 |
| VCA0687 | 0.42 |
| VCA0688 | 0.04 |
| VCA0689 | 0.01 |
| VCA0690 | 0.01 |

| Gene ID | Fold Change |
|---|---|
| VCA0691 | 0.01 |
| VCA0697 | 0.11 |
| VCA0698 | 0.16 |
| VCA0699 | 0.38 |
| VCA0702 | 0.46 |
| VCA0721 | 3.93 |
| VCA0722 | 3.69 |
| VCA0728 | 0.42 |
| VCA0730 | 0.33 |
| VCA0732 | 2.30 |
| VCA0736 | 0.21 |
| VCA0757 | 0.42 |
| VCA0758 | 0.44 |
| VCA0759 | 0.19 |
| VCA0760 | 0.31 |
| VCA0764 | 3.12 |
| VCA0765 | 2.49 |
| VCA0768 | 2.63 |
| VCA0769 | 5.94 |
| VCA0770 | 6.72 |
| VCA0771 | 8.05 |
| VCA0774 | 0.34 |
| VCA0793 | 2.51 |
| VCA0796 | 2.25 |
| VCA0798 | 0.14 |
| VCA0799 | 3.73 |
| VCA0801 | 10.09 |
| VCA0804 | 4.87 |
| VCA0805 | 2.14 |
| VCA0812 | 0.41 |
| VCA0826 | 2.11 |
| VCA0839 | 0.34 |
| VCA0840 | 3.04 |
| VCA0843 | 0.45 |
| VCA0849 | 2.86 |
| VCA0860 | 0.33 |
| VCA0866 | 0.31 |
| VCA0877 | 0.20 |
| VCA0878 | 0.15 |
| VCA0879 | 0.41 |
| VCA0880 | 0.39 |
| VCA0881 | 0.11 |
| VCA0882 | 0.13 |
| VCA0883 | 0.05 |

| Gene ID | Fold Change |
|---|---|
| VCA0884 | 0.44 |
| VCA0886 | 0.42 |
| VCA0892 | 0.10 |
| VCA0896 | 3.10 |
| VCA0897 | 2.93 |
| VCA0908 | 0.16 |
| VCA0916 | 0.33 |
| VCA0917 | 0.29 |
| VCA0918 | 0.13 |
| VCA0922 | 2.67 |
| VCA0923 | 2.25 |
| VCA0925 | 2.17 |
| VCA0945 | 0.15 |
| VCA0952 | 48.70 |
| VCA0957 | 0.32 |
| VCA0969 | 2.18 |
| VCA0970 | 2.68 |
| VCA0980 | 0.35 |
| VCA0986 | 0.46 |
| VCA0994 | 0.35 |
| VCA1004 | 0.14 |
| VCA1021 | 2.32 |
| VCA1022 | 2.02 |
| VCA1027 | 0.18 |
| VCA1028 | 0.49 |
| VCA1033 | 0.21 |
| VCA1034 | 0.17 |
| VCA1041 | 0.36 |
| VCA1043 | 0.47 |
| VCA1044 | 0.19 |
| VCA1046 | 0.27 |
| VCA1050 | 0.34 |
| VCA1065 | 0.19 |
| VCA1069 | 0.13 |
| VCA1071 | 0.11 |
| VCA1072 | 0.08 |
| VCA1073 | 0.07 |
| VCA1075 | 0.36 |
| VCA1076 | 0.33 |
| VCA1085 | 0.32 |
| VCA1113 | 0.19 |