

| Gene    | SNP rs number | Chromosome | Probe Set ID on Affymetrix Genome-Wide SNP array 6.0 |
|---------|---------------|------------|--|
| HFE     | rs2071303     | 6          | SNP_A-4273092  |
| HFE     | rs707889      | 6          | SNP_A-2150639  |
| HFE     | rs2858996     | 6          | SNP_A-8440531  |
| HFE     | rs1800562     | 6          | SNP_A-1905121  |
|         |               |            |  |
| SLC40A1 | rs13404407    | 2          | SNP_A-8481584  |
| SLC40A1 | rs1123109     | 2          | SNP_A-8475616  |
| SLC40A1 | rs11568351    | 2          | SNP_A-4293724  |
| SLC40A1 | rs4667287     | 2          | SNP_A-2027694  |
| SLC40A1 | rs3792079     | 2          | SNP_A-8321976  |
| SLC40A1 | rs2352262     | 2          | SNP_A-8602895  |
| SLC40A1 | rs930373      | 2          | SNP_A-4217598  |
| SLC40A1 | rs1123110     | 2          | SNP_A-4218292  |
| SLC40A1 | rs11568350    | 2          | SNP_A-8354595  |
| SLC40A1 | rs2304704     | 2          | SNP_A-2027959  |
|         |               |            |  |
| SLC11A1 | rs2276631     | 2          | SNP_A-8369368  |
| SLC11A1 | rs2695343     | 2          | SNP_A-2095550  |
| SLC11A1 | rs13062       | 2          | SNP_A-1950973  |
| SLC11A1 | rs7576974     | 2          | SNP_A-1788623  |
|         |               |            |  |
| HFE2    | rs7540883     | 1          | SNP_A-8652915  |
| HFE2    | rs10218795    | 1          | SNP_A-2259589  |
|         |               |            |  |
| HAMP    | rs10414846    | 19         | SNP_A-2139930  |
| HAMP    | rs10421768    | 19         | SNP_A-4276731  |
| HAMP    | rs8101606     | 19         | SNP_A-8449520  |
|         |               |            |  |
| TF      | rs8177232     | 3          | SNP_A-2209195  |
| TF      | rs8177224     | 3          | SNP_A-8440993  |
| TF      | rs1799852     | 3          | SNP_A-1931871  |
| TF      | rs8177248     | 3          | SNP_A-8565154  |
| TF      | rs2715627     | 3          | SNP_A-1913594  |
| TF      | rs8177262     | 3          | SNP_A-8647674  |
| TF      | rs8177203     | 3          | SNP_A-1841130  |
| TF      | rs8177220     | 3          | SNP_A-4195301  |
| TF      | rs8177191     | 3          | SNP_A-8657424  |
| TF      | rs8177277     | 3          | SNP_A-2283755  |
| TF      | rs3811657     | 3          | SNP_A-8708020  |
| TF      | rs1525892     | 3          | SNP_A-8618559  |
| TF      | rs8177238     | 3          | SNP_A-4237109  |
| TF      | Rs8177272     | 3          | SNP_A-A4280184                                       |

| <b>Gene</b> | <b>SNP rs number</b> | <b>Chromosome</b> | <b>Probe Set ID on Affymetrix Genome-Wide SNP array 6.0</b> |
|-------------|----------------------|-------------------|---|
| TF          | rs2715632            | 3                 | SNP_A-4277378   |
| TF          | rs2718796            | 3                 | SNP_A-8335105   |
| TF          | rs2715631            | 3                 | SNP_A-2241618   |
| TF          | rs6778321            | 3                 | SNP_A-2147949   |
| TF          | rs8177253            | 3                 | SNP_A-8406526   |
| TF          | rs8177306            | 3                 | SNP_A-1883149   |
| TF          | rs7645538            | 3                 | SNP_A-8654418   |
| TF          | rs8177235            | 3                 | SNP_A-2306486   |
| TF          | rs8177215            | 3                 | SNP_A-8675996   |
| TF          | rs1800277            | 3                 | SNP_A-2182363   |
| TF          | rs1049296            | 3                 | SNP_A-1891036   |
|             |                      |                   |   |
| TFRC        | rs3933               | 3                 | SNP_A-1956928   |
| TFRC        | rs4927866            | 3                 | SNP_A-8371201   |
| TFRC        | rs17788379           | 3                 | SNP_A-8572471   |
| TFRC        | rs17091382           | 3                 | SNP_A-8549536   |
| TFRC        | rs12330245           | 3                 | SNP_A-8625844   |
| TFRC        | rs17788373           | 3                 | SNP_A-8412514   |
| TFRC        | rs3804141            | 3                 | SNP_A-1975790   |
| TFRC        | rs17091378           | 3                 | SNP_A-1855480   |
| TFRC        | rs480760             | 3                 | SNP_A-8620139   |
|             |                      |                   |   |
| TFR2        | rs4521695            | 7                 | SNP_A-8447015   |
|             |                      |                   |   |
| BMP2        | rs7270163            | 20                | SNP_A-2280450   |
| BMP2        | rs1979855            | 20                | SNP_A-2114967   |
| BMP2        | rs235767             | 20                | SNP_A-8561610   |
| BMP2        | rs6107869            | 20                | SNP_A-2082410   |
|             |                      |                   |   |
| BMP6        | rs10498672           | 6                 | SNP_A-8666903   |
| BMP6        | rs911753             | 6                 | SNP_A-4200956   |
| BMP6        | rs1225924            | 6                 | SNP_A-8297217   |
| BMP6        | rs4371882            | 6                 | SNP_A-4203185   |
| BMP6        | rs169123             | 6                 | SNP_A-8551124   |
| BMP6        | rs267190             | 6                 | SNP_A-8666907   |
| BMP6        | rs267170             | 6                 | SNP_A-8428785   |
| BMP6        | rs267202             | 6                 | SNP_A-1984984   |
| BMP6        | rs267806             | 6                 | SNP_A-2088998   |
| BMP6        | rs267186             | 6                 | SNP_A-2237158   |
| BMP6        | rs13196371           | 6                 | SNP_A-8388290   |
| BMP6        | rs6938135            | 6                 | SNP_A-1831240   |
| BMP6        | rs270398             | 6                 | SNP_A-2098774   |

| <b>Gene</b> | <b>SNP rs number</b> | <b>Chromosome</b> | <b>Probe Set ID on Affymetrix Genome-Wide SNP array 6.0</b> |
|-------------|----------------------|-------------------|---|
| BMP6        | rs270374             | 6                 | SNP_A-2130301   |
| BMP6        | rs270377             | 6                 | SNP_A-1849374   |
| BMP6        | rs270400             | 6                 | SNP_A-2113463   |
| BMP6        | rs881891             | 6                 | SNP_A-8468880   |
| BMP6        | rs1235192            | 6                 | SNP_A-8478865   |
| BMP6        | rs270397             | 6                 | SNP_A-8608073   |
| BMP6        | rs267807             | 6                 | SNP_A-2067023   |
| BMP6        | rs911749             | 6                 | SNP_A-1828739   |
| BMP6        | rs7768784            | 6                 | SNP_A-8666908   |
| BMP6        | rs270383             | 6                 | SNP_A-2313678   |
| BMP6        | rs911750             | 6                 | SNP_A-4294782   |
| BMP6        | rs267840             | 6                 | SNP_A-1857627   |
| BMP6        | rs11960967           | 6                 | SNP_A-8522587   |
| BMP6        | rs9379137            | 6                 | SNP_A-1829613   |
| BMP6        | rs267196             | 6                 | SNP_A-2169074   |
| BMP6        | rs270388             | 6                 | SNP_A-8465811   |
| BMP6        | rs267207             | 6                 | SNP_A-1922269   |
| BMP6        | rs376308             | 6                 | SNP_A-8401116   |
| BMP6        | rs12215656           | 6                 | SNP_A-8446085   |
| BMP6        | rs1226102            | 6                 | SNP_A-8426870   |
| BMP6        | rs1358892            | 6                 | SNP_A-1950172   |
| BMP6        | rs267203             | 6                 | SNP_A-2257015   |
| BMP6        | rs1226101            | 6                 | SNP_A-2011551   |
| BMP6        | rs267205             | 6                 | SNP_A-2108180   |
| BMP6        | rs267184             | 6                 | SNP_A-1909474   |
| BMP6        | rs6919067            | 6                 | SNP_A-2221499   |
| BMP6        | rs1043784            | 6                 | SNP_A-8377968   |
| BMP6        | rs1225929            | 6                 | SNP_A-8666909   |
| BMP6        | rs267206             | 6                 | SNP_A-4291007   |
| BMP6        | rs267183             | 6                 | SNP_A-8666906   |
| BMP6        | rs13212191           | 6                 | SNP_A-8615178   |
| BMP6        | rs13192135           | 6                 | SNP_A-1917742   |
| BMP6        | rs267195             | 6                 | SNP_A-4194688   |
| BMP6        | rs6913143            | 6                 | SNP_A-8418101   |
| BMP6        | rs1107495            | 6                 | SNP_A-1891031   |
| BMP6        | rs11243204           | 6                 | SNP_A-2236932   |
| BMP6        | rs2876117            | 6                 | SNP_A-2035994   |
| BMP6        | rs2116238            | 6                 | SNP_A-8641411   |
| BMP6        | rs7768988            | 6                 | SNP_A-8433147   |
| BMP6        | rs267180             | 6                 | SNP_A-8507535   |
| BMP6        | rs17673852           | 6                 | SNP_A-8518107   |
|             |                      |                   |   |
| Slc11A2     | rs17125212           | 12                | SNP_A-1880618   |
| Slc11A2     | rs224446             | 12                | SNP_A-2067039   |
| Slc11A2     | rs2269683            | 12                | SNP_A-1945877   |

| <b>Gene</b> | <b>SNP rs number</b> | <b>Chromosome</b> | <b>Probe Set ID on Affymetrix Genome-Wide SNP array 6.0</b> |
|-------------|----------------------|-------------------|---|
| Slc11A2     | rs224573             | 12                | SNP_A-4218203   |
| Slc11A2     | rs150909             | 12                | SNP_A-2058555   |
| Slc11A2     | rs224568             | 12                | SNP_A-8457497   |
| Slc11A2     | rs224589             | 12                | SNP_A-8510392   |
| Slc11A2     | rs224572             | 12                | SNP_A-2058598   |
|             |                      |                   |   |
| CP          | rs773050             | 3                 | SNP_A-8654751   |
| CP          | rs772908             | 3                 | SNP_A-2023463   |
| CP          | rs17787768           | 3                 | SNP_A-1786245   |
| CP          | rs1879169            | 3                 | SNP_A-8570079   |
| CP          | rs16861577           | 3                 | SNP_A-8393392   |
| CP          | rs4974389            | 3                 | SNP_A-2179747   |
| CP          | rs17838831           | 3                 | SNP_A-2235980   |
| CP          | rs16861598           | 3                 | SNP_A-2064503   |
| CP          | rs16861634           | 3                 | SNP_A-2167565   |
| CP          | rs16861590           | 3                 | SNP_A-2178014   |
| CP          | rs13072552           | 3                 | SNP_A-8319180   |
| CP          | rs9853335            | 3                 | SNP_A-8563286   |
| CP          | rs11924961           | 3                 | SNP_A-8715775   |
| CP          | rs13075921           | 3                 | SNP_A-8465773   |
| CP          | rs16861579           | 3                 | SNP_A-8680655   |
| CP          | rs3816893            | 3                 | SNP_A-2009215   |
| CP          | rs701755             | 3                 | SNP_A-2304646   |
|             |                      |                   |   |
| FXN         | rs2498430            | 9                 | SNP_A-8470004   |
| FXN         | rs7860403            | 9                 | SNP_A-2276496   |
| FXN         | rs3793451            | 9                 | SNP_A-8363027   |
| FXN         | rs4744787            | 9                 | SNP_A-8644254   |
| FXN         | rs7047274            | 9                 | SNP_A-4292586   |
| FXN         | rs2498419            | 9                 | SNP_A-8522000   |
| FXN         | rs2498431            | 9                 | SNP_A-8292147   |
| FXN         | rs17060788           | 9                 | SNP_A-2064166   |
| FXN         | rs12001326           | 9                 | SNP_A-1946335   |
| FXN         | rs11145043           | 9                 | SNP_A-8630238   |
| FXN         | rs9411170            | 9                 | SNP_A-8345218   |
| FXN         | rs1411675            | 9                 | SNP_A-8283077   |
| FXN         | rs2498434            | 9                 | SNP_A-2134314   |
| FXN         | rs7870295            | 9                 | SNP_A-4255749   |
| FXN         | rs7871596            | 9                 | SNP_A-8453359   |
| FXN         | rs2498432            | 9                 | SNP_A-8621987   |
| FXN         | rs2309393            | 9                 | SNP_A-8401321   |
|             |                      |                   |   |
| FTMT        | rs13358715           | 5                 | SNP_A-8361993   |
|             |                      |                   |   |
| FTH1        | rs17156609           | 11                | SNP_A-8365828   |

|      |          |    |               |
|------|----------|----|---------------|
| FTH1 | rs195154 | 11 | SNP_A-8600815 |
|------|----------|----|---------------|

| Gene    | SNP rs number | Chromosome | Probe Set ID on Affymetrix Genome-Wide SNP array 6.0 |
|---------|---------------|------------|--|
| ATP13A2 | rs3738815     | 1          | SNP_A-2090089  |
| ATP13A2 | rs6684770     | 1          | SNP_A-2146554  |
|         |               |            |  |
| ACO1    | rs13302577    | 9          | SNP_A-8345067  |
| ACO1    | rs10813818    | 9          | SNP_A-1951915  |
| ACO1    | rs10970972    | 9          | SNP_A-8553411  |
| ACO1    | rs7033149     | 9          | SNP_A-8547242  |
| ACO1    | rs16918276    | 9          | SNP_A-2125665  |
| ACO1    | rs7022554     | 9          | SNP_A-8391453  |
| ACO1    | rs10738885    | 9          | SNP_A-2093675  |
| ACO1    | rs10813816    | 9          | SNP_A-1925443  |
| ACO1    | rs10435797    | 9          | SNP_A-1869485  |
| ACO1    | rs13292540    | 9          | SNP_A-8709558  |
| ACO1    | rs7866419     | 9          | SNP_A-8373829  |
| ACO1    | rs3780473     | 9          | SNP_A-4267458  |
| ACO1    | rs4879583     | 9          | SNP_A-8457046  |
| ACO1    | rs1028932     | 9          | SNP_A-1868464  |
| ACO1    | rs2026739     | 9          | SNP_A-1955609  |
| ACO1    | rs4495514     | 9          | SNP_A-8324358  |
| ACO1    | rs10970974    | 9          | SNP_A-8653123  |
| ACO1    | rs13293491    | 9          | SNP_A-1930244  |
| ACO1    | rs3780474     | 9          | SNP_A-4267457  |
| ACO1    | rs7019520     | 9          | SNP_A-8688496  |
| ACO1    | rs7032871     | 9          | SNP_A-2040065  |
|         |               |            |  |
| ACO2    | rs6002390     | 22         | SNP_A-8412401  |
| ACO2    | rs5751114     | 22         | SNP_A-8391252  |
| ACO2    | rs9611598     | 22         | SNP_A-8653122  |
|         |               |            |  |
| B2M     | rs2254835     | 15         | SNP_A-4242772  |
| B2M     | rs1690313     | 15         | SNP_A-8602380  |
| B2M     | rs1901531     | 15         | SNP_A-8418019  |
| B2M     | rs16966334    | 15         | SNP_A-8527362  |
| B2M     | rs16966424    | 15         | SNP_A-1894070  |

**Table 1.** Iron-related genes and variants evaluated in relation to neuropathy in CHARTER.