

| 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 |

| Gene | SNP rs number | Chromosome | Probe Set ID on Affymetrix Genome-Wide SNP array 6.0 |
|-------------|----------------------|-------------------|---|
| 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 |

| Gene | SNP rs number | Chromosome | Probe Set ID on Affymetrix Genome-Wide SNP array 6.0 |
|-------------|----------------------|-------------------|---|
| 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 |

| Gene | SNP rs number | Chromosome | Probe Set ID on Affymetrix Genome-Wide SNP array 6.0 |
|---------|---------------|------------|--|
| 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.