

Supplementary Data

SUPPLEMENTARY TABLE S1. FORTY-TWO GENES DIFFERENTIALLY EXPRESSED BETWEEN HUMAN T CELL LEUKEMIA VIRUS TYPE 1-ASSOCIATED MYELOPATHY/TROPICAL SPASTIC PARAPARESIS AND ASYMPTOMATIC HUMAN T CELL LEUKEMIA VIRUS TYPE 1 CARRIER IN MICROARRAY ANALYSIS

| <i>Genes</i> | <i>Probes</i> | <i>Fold change</i> |
|---------------------|---------------|--------------------|
| <i>Ankrd2</i> | A_24_P188116 | 2.08 |
| <i>Atp5e</i> | A_32_P123771 | 2.05 |
| <i>C1orf152</i> | A_23_P350059 | 3.30 |
| <i>C6orf124</i> | A_32_P334340 | 5.50 |
| <i>Capza2</i> | A_32_P224666 | 2.09 |
| <i>Cno</i> | A_23_P69670 | 2.75 |
| <i>Cox5a</i> | A_32_P98502 | 2.07 |
| <i>Crct1</i> | A_24_P191047 | 3.24 |
| <i>Cyp4f2</i> | A_24_P168494 | 2.18 |
| <i>Dgkh</i> | A_24_P220575 | 2.16 |
| <i>Dicer1</i> | A_32_P129689 | 2.09 |
| <i>Dirc1</i> | A_23_P131139 | 5.12 |
| <i>Efcab4a</i> | A_23_P432545 | 2.39 |
| <i>Gfap</i> | A_24_P31165 | 4.21 |
| <i>Gpt</i> | A_23_P146339 | 3.77 |
| <i>Hist1h3i</i> | A_24_P9321 | 3.45 |
| <i>Hrasls5</i> | A_23_P416314 | 2.07 |
| <i>Il27</i> | A_23_P315320 | 5.24 |
| <i>Itm2b</i> | A_24_P381604 | 2.86 |
| <i>Krtap1-3</i> | A_24_P142495 | 3.07 |
| <i>Krtap5-8</i> | A_23_P47086 | 4.39 |
| <i>Lce2d</i> | A_23_P371284 | 3.31 |
| <i>Leprot</i> | A_23_P1126 | -2.04 |
| <i>Loc100131138</i> | A_32_P211248 | 3.74 |
| <i>Loc285830</i> | A_32_P76811 | 2.45 |
| <i>Loc728003</i> | A_24_P727868 | 2.11 |
| <i>Mab21l2</i> | A_24_P148907 | 5.05 |
| <i>Mcat</i> | A_24_P237328 | 5.39 |
| <i>Nacc1</i> | A_24_P271285 | 2.07 |
| <i>Nap1l1</i> | A_32_P82409 | 2.00 |
| <i>Ostcl</i> | A_24_P317450 | 2.19 |
| <i>P2rx7</i> | A_23_P25354 | -2.01 |
| <i>Pabpc3</i> | A_23_P48307 | 5.57 |
| <i>Pou3f3</i> | A_24_P34575 | 2.10 |
| <i>Prss36</i> | A_24_P412734 | 5.28 |
| <i>Ptges3</i> | A_32_P114896 | 2.04 |
| <i>Rho</i> | A_23_P57950 | 2.01 |
| <i>Samd10</i> | A_23_P427616 | 2.46 |
| <i>Scrt2</i> | A_24_P117782 | 2.33 |
| <i>Sf3a1</i> | A_24_P250614 | 2.23 |
| <i>Sp5</i> | A_32_P74615 | 2.17 |
| <i>Tcp1p3</i> | A_24_P307184 | 2.19 |

SUPPLEMENTARY TABLE S2. ONE HUNDRED AND THIRTY-FIVE GENES DIFFERENTIALLY EXPRESSED BETWEEN HEALTHY CONTROLS AND HUMAN T CELL LEUKEMIA VIRUS TYPE 1-ASSOCIATED MYELOPATHY/TROPICAL SPASTIC PARAPARESIS IN MICROARRAY ANALYSIS

| <i>Genes</i> | <i>Probes</i> | <i>Fold change</i> | <i>Genes</i> | <i>Probes</i> | <i>Fold change</i> |
|----------------------|---------------|--------------------|-------------------|---------------|--------------------|
| <i>Acp5</i> | A_23_P142075 | 2.05 | <i>Mapkapk3</i> | A_23_P314584 | 2.37 |
| <i>Adrm1</i> | A_24_P305597 | 2.01 | <i>Mcm2</i> | A_32_P103633 | 2.16 |
| <i>Agap3</i> | A_24_P333364 | -2.59 | <i>Mcm5</i> | A_23_P132277 | 2.03 |
| <i>Ahmak</i> | A_23_P21363 | 2.38 | <i>Mea1</i> | A_23_P30745 | 2.09 |
| <i>Aldh16a1</i> | A_24_P5743 | 2.11 | <i>Med16</i> | A_23_P56170 | 2.72 |
| <i>Aldoa</i> | A_23_P88963 | 2.15 | <i>Mpg</i> | A_24_P48162 | 2.32 |
| <i>Alox5ap</i> | A_24_P347378 | 2.25 | <i>Mpnd</i> | A_23_P130886 | 2.21 |
| <i>Ankhd1</i> | A_23_P213326 | -2.11 | <i>Myo1g</i> | A_23_P257542 | 3.13 |
| <i>Ankrd11</i> | A_32_P82403 | -2.35 | <i>Myppop</i> | A_24_P392486 | -2.63 |
| <i>Anxa2</i> | A_23_P146644 | 2.68 | <i>Nbpf11</i> | A_32_P149492 | -2.15 |
| <i>Bfsp1</i> | A_23_P109171 | 2.72 | <i>Ncr3</i> | A_23_P251881 | 2.85 |
| <i>Bloc1s1</i> | A_23_P53298 | 2.42 | <i>Neurog1</i> | A_24_P269101 | -2.97 |
| <i>C18orf23</i> | A_24_P348083 | -2.07 | <i>Nrbp2</i> | A_23_P112883 | -2.10 |
| <i>C19orf6</i> | A_23_P90369 | -2.91 | <i>Nthl1</i> | A_23_P88904 | 2.19 |
| <i>Capns1</i> | A_23_P67648 | 2.26 | <i>Oasl</i> | A_23_P139786 | 2.34 |
| <i>Cbx7</i> | A_32_P203585 | -3.02 | <i>Pafah1b3</i> | A_23_P16078 | 2.08 |
| <i>Ccdc85b</i> | A_23_P150249 | 2.13 | <i>Pan3</i> | A_23_P385938 | -2.03 |
| <i>CD320</i> | A_23_P119698 | 2.54 | <i>Pcbp4</i> | A_23_P166807 | 2.27 |
| <i>CD63</i> | A_23_P139476 | 2.31 | <i>Pcsk5</i> | A_23_P257003 | -3.13 |
| <i>Cdk2ap2</i> | A_23_P104579 | 2.18 | <i>Pdcd1</i> | A_23_P136405 | 2.65 |
| <i>Cdkn2a</i> | A_23_P43490 | 2.82 | <i>Pdxdc2p</i> | A_32_P216872 | -2.45 |
| <i>Cks2</i> | A_23_P71727 | 2.38 | <i>Phf10</i> | A_23_P503200 | -2.45 |
| <i>Cln3</i> | A_24_P567408 | -2.26 | <i>Pi16</i> | A_24_P300379 | 2.64 |
| <i>Clu</i> | A_23_P215913 | 4.18 | <i>Pip5k1c</i> | A_23_P78952 | -3.49 |
| <i>Cmip</i> | A_23_P100263 | -2.97 | <i>Pkm2</i> | A_32_P147241 | 2.02 |
| <i>Comt</i> | A_23_P251680 | 2.01 | <i>Poli</i> | A_23_P306890 | -2.09 |
| <i>Cope</i> | A_23_P209088 | 2.62 | <i>Prdx5</i> | A_23_P12989 | 2.17 |
| <i>Cox8a</i> | A_23_P52639 | 2.04 | <i>Prelid1</i> | A_23_P79161 | 2.37 |
| <i>Crhr2</i> | A_24_P926058 | -2.99 | <i>Psmid8</i> | A_23_P67466 | 2.01 |
| <i>Cst7</i> | A_23_P68601 | 2.80 | <i>Psors1c2</i> | A_24_P166434 | -3.58 |
| <i>Cyb5r3</i> | A_24_P378958 | -2.22 | <i>Rai1</i> | A_23_P417144 | -2.03 |
| <i>Dctpp1</i> | A_23_P33613 | 2.24 | <i>Rhbdl1</i> | A_23_P26468 | -2.84 |
| <i>Ddx17</i> | A_24_P925611 | -3.15 | <i>Rhoc</i> | A_23_P12514 | 2.25 |
| <i>Dkfzp434i0714</i> | A_32_P160254 | -4.03 | <i>Ric3</i> | A_23_P75915 | -2.68 |
| <i>Dnah3</i> | A_23_P100522 | -6.63 | <i>S100a4</i> | A_23_P94800 | 2.01 |
| <i>Dtnbp1</i> | A_24_P145316 | -2.24 | <i>S100p</i> | A_23_P58266 | 2.42 |
| <i>Eef1a1</i> | A_32_P44316 | -2.50 | <i>Sbds</i> | A_32_P177024 | -2.04 |
| <i>Eif6</i> | A_23_P210939 | 2.03 | <i>Sec31b</i> | A_23_P35564 | -3.71 |
| <i>Elovl1</i> | A_23_P23380 | 2.08 | <i>Sell</i> | A_23_P103522 | -2.14 |
| <i>Fam176b</i> | A_23_P62831 | 2.11 | <i>Sf3a2</i> | A_23_P90339 | -2.80 |
| <i>Fbrs11</i> | A_24_P280497 | -4.15 | <i>Sik1</i> | A_24_P237231 | -2.08 |
| <i>Fibp</i> | A_23_P13018 | 2.03 | <i>Sil1</i> | A_23_P252903 | 2.02 |
| <i>Flot2</i> | A_23_P55319 | 2.04 | <i>Sit1</i> | A_23_P43369 | 2.29 |
| <i>Frm4a</i> | A_24_P43959 | -5.86 | <i>Slc25a1</i> | A_23_P120776 | 2.07 |
| <i>Gchfr</i> | A_23_P77328 | 2.14 | <i>Sox8</i> | A_24_P65292 | -4.01 |
| <i>Giyd1</i> | A_23_P501451 | 2.38 | <i>Speg</i> | A_23_P338919 | -2.40 |
| <i>Gsdmd</i> | A_23_P112103 | 2.54 | <i>Sppl2b</i> | A_23_P79066 | -2.24 |
| <i>Gstk1</i> | A_23_P20107 | 2.15 | <i>Spsb2</i> | A_23_P151098 | 2.10 |
| <i>Hint2</i> | A_23_P157784 | 2.29 | <i>St6galnac1</i> | A_23_P54968 | 2.01 |
| <i>Hnrnpa0</i> | A_23_P252449 | -2.23 | <i>Stmn3</i> | A_23_P165927 | -2.03 |
| <i>Hnrnp11</i> | A_32_P34149 | -2.18 | <i>Stx16</i> | A_24_P936122 | -2.32 |
| <i>Hsd17b1</i> | A_24_P230502 | -2.87 | <i>Synpo</i> | A_24_P405992 | -3.78 |
| <i>Ier5</i> | A_24_P379223 | -3.04 | <i>Tr1</i> | A_23_P10873 | 2.06 |
| <i>Ighm</i> | A_24_P417352 | 2.83 | <i>Tmem120a</i> | A_23_P259632 | 2.10 |
| <i>Igk@</i> | A_32_P39440 | 3.55 | <i>Trim66</i> | A_32_P396186 | -2.07 |
| <i>Il32</i> | A_23_P15146 | 2.57 | <i>Tssc4</i> | A_23_P2026 | 2.18 |
| <i>Ilk</i> | A_23_P105066 | 2.08 | <i>Ube2s</i> | A_32_P184933 | 2.64 |
| <i>Irf2bp2</i> | A_24_P154214 | -2.22 | <i>Ube3a</i> | A_32_P45375 | -3.58 |
| <i>Irx3</i> | A_24_P207195 | -3.83 | <i>Ucn2</i> | A_23_P155453 | -2.66 |
| <i>Jakmip1</i> | A_23_P144274 | 3.43 | <i>Uqcrc1</i> | A_23_P132675 | 2.08 |

(continued)

SUPPLEMENTARY TABLE S2. (CONTINUED)

| <i>Genes</i> | <i>Probes</i> | <i>Fold change</i> | <i>Genes</i> | <i>Probes</i> | <i>Fold change</i> |
|---------------------|---------------|--------------------|----------------|---------------|--------------------|
| <i>Klhl3</i> | A_23_P133543 | -2.04 | <i>Vamp5</i> | A_23_P39840 | 2.25 |
| <i>Lgals1</i> | A_23_P166459 | 3.98 | <i>Zdhhc24</i> | A_24_P259276 | 2.03 |
| <i>Lmf1</i> | A_24_P367812 | -3.89 | <i>Zmiz2</i> | A_24_P29686 | -2.05 |
| <i>Loc100132167</i> | A_32_P74357 | -2.44 | <i>Znf283</i> | A_24_P409670 | -2.19 |
| <i>Loc339352</i> | A_24_P542291 | -2.08 | <i>Znf714</i> | A_24_P19268 | -2.51 |
| <i>Loc439951</i> | A_24_P203953 | -2.12 | <i>Znf862</i> | A_24_P333421 | -2.02 |
| <i>Lrp3</i> | A_23_P16415 | -3.98 | <i>Zscan10</i> | A_23_P15135 | -4.06 |
| <i>Lynx1</i> | A_23_P257672 | -2.52 | | | |

SUPPLEMENTARY TABLE S3. ONE HUNDRED AND SIXTEEN GENES DIFFERENTIALLY EXPRESSED BETWEEN HEALTHY CONTROLS AND ASYMPTOMATIC HUMAN T CELL LEUKEMIA VIRUS TYPE 1 CARRIER IN MICROARRAY ANALYSIS

| Genes | Probes | Fold change | Genes | Probes | Fold change |
|----------------------|--------------|-------------|-------------------|--------------|-------------|
| <i>Acbd7</i> | A_23_P72584 | 2.64 | <i>Megf6</i> | A_24_P926960 | -2.32 |
| <i>Afg3l1</i> | A_23_P404893 | -2.09 | <i>Mgc10814</i> | A_23_P79032 | -4.01 |
| <i>Aire</i> | A_23_P68740 | 2.05 | <i>Mgea5</i> | A_23_P202170 | -2.58 |
| <i>Amy1c</i> | A_23_P23611 | -3.87 | <i>Mir17hg</i> | A_32_P139196 | -2.20 |
| <i>Anapc4</i> | A_23_P317800 | -2.18 | <i>Mlxip</i> | A_23_P9823 | -2.45 |
| <i>Ankk1</i> | A_23_P35943 | -4.64 | <i>Mylip</i> | A_24_P917123 | -5.70 |
| <i>Arf1</i> | A_24_P566891 | -2.51 | <i>Myo19</i> | A_23_P320250 | -2.17 |
| <i>Asb16</i> | A_23_P118581 | 4.62 | <i>Ncrna00116</i> | A_24_P359295 | 2.11 |
| <i>Athl1</i> | A_23_P98686 | -4.80 | <i>Neat1</i> | A_24_P566916 | -6.59 |
| <i>Atxn2l</i> | A_23_P124661 | -2.43 | <i>Nefl</i> | A_24_P18137 | 2.10 |
| <i>B3galt4</i> | A_23_P422071 | 2.10 | <i>Nfat5</i> | A_23_P359647 | -2.36 |
| <i>Bbs5</i> | A_23_P252642 | -4.55 | <i>Nfkbiz</i> | A_23_P212089 | -2.78 |
| <i>Bin1</i> | A_32_P124125 | 2.08 | <i>Pabpc1</i> | A_32_P152673 | -2.45 |
| <i>Bin2</i> | A_23_P162386 | -2.25 | <i>Pag1</i> | A_23_P347070 | -2.29 |
| <i>C1orf63</i> | A_23_P34396 | -2.54 | <i>Pcyox1l</i> | A_23_P30275 | -2.08 |
| <i>C21orf96</i> | A_24_P65941 | -2.96 | <i>Pde4dip</i> | A_23_P200801 | -2.21 |
| <i>C4orf42</i> | A_23_P7087 | 2.04 | <i>Plhf2011</i> | A_23_P216038 | -3.13 |
| <i>C5orf56</i> | A_24_P829156 | -3.17 | <i>Pilrb</i> | A_24_P403244 | -2.95 |
| <i>Camk2n2</i> | A_23_P18406 | 2.54 | <i>Pnn</i> | A_23_P99582 | -3.87 |
| <i>Capn1</i> | A_24_P544543 | -2.31 | <i>Polg2</i> | A_23_P26905 | -2.18 |
| <i>Casp8</i> | A_23_P209389 | 2.86 | <i>Polr2j2</i> | A_23_P215669 | 4.57 |
| <i>Ccdc45</i> | A_23_P307400 | -2.28 | <i>Ppp2r5c</i> | A_24_P76898 | -4.52 |
| <i>Ccn1l</i> | A_23_P132454 | -4.38 | <i>Prpf4b</i> | A_24_P941787 | -2.45 |
| <i>Cellf1</i> | A_23_P63999 | -3.00 | <i>Pspk</i> | A_23_P251987 | 3.59 |
| <i>Crebzf</i> | A_23_P203645 | -2.09 | <i>Qki</i> | A_24_P456452 | -2.03 |
| <i>Csnk1a1</i> | A_24_P316154 | -2.48 | <i>R3hdm2</i> | A_23_P44631 | 5.35 |
| <i>Cyp1a2</i> | A_23_P206110 | -2.16 | <i>Rbm26</i> | A_23_P218096 | -2.29 |
| <i>D2hgdh</i> | A_23_P376627 | -2.33 | <i>Rictor</i> | A_32_P193322 | -2.24 |
| <i>Dkfpz586i1420</i> | A_23_P403398 | -3.51 | <i>Rnf34</i> | A_32_P70420 | -3.29 |
| <i>Dkfpz667e0512</i> | A_24_P282377 | -3.76 | <i>Sf3b1</i> | A_32_P31633 | -2.58 |
| <i>Dmtf1</i> | A_23_P8664 | -2.54 | <i>Slc27a1</i> | A_23_P131111 | 4.00 |
| <i>Dync1li2</i> | A_23_P9688 | -2.93 | <i>Slc35e4</i> | A_23_P259357 | -4.04 |
| <i>Eno3</i> | A_23_P130149 | -2.33 | <i>Smchd1</i> | A_23_P38723 | -2.05 |
| <i>Enosf1</i> | A_23_P15906 | -2.06 | <i>Son</i> | A_23_P402733 | -2.32 |
| <i>Epm2aip1</i> | A_23_P415622 | -2.00 | <i>Spn</i> | A_23_P433758 | 2.08 |
| <i>Fam46a</i> | A_23_P70660 | -2.19 | <i>Srsf11</i> | A_23_P11664 | -3.54 |
| <i>Fam50b</i> | A_23_P8240 | 2.05 | <i>Srsf2</i> | A_23_P77776 | -2.44 |
| <i>Flj11710</i> | A_23_P3921 | -2.13 | <i>Stk4</i> | A_24_P935026 | -4.49 |
| <i>Foxc2</i> | A_24_P82358 | 3.96 | <i>Taf1c</i> | A_23_P163546 | -2.63 |
| <i>Gbp6</i> | A_23_P130642 | 4.18 | <i>Tardbp</i> | A_23_P403955 | -2.61 |
| <i>Hectd1</i> | A_23_P54006 | -2.07 | <i>Tbrg1</i> | A_24_P931636 | -4.63 |
| <i>Hla-l</i> | A_24_P110012 | 2.22 | <i>Tcf7</i> | A_23_P7582 | -2.61 |
| <i>Hmbox1</i> | A_23_P134684 | -3.35 | <i>Tmc8</i> | A_23_P152992 | -6.29 |
| <i>Hnrnpa3</i> | A_24_P706314 | -2.50 | <i>Tnrc6a</i> | A_23_P349310 | -2.05 |
| <i>Hnrpd1</i> | A_24_P260300 | -4.69 | <i>Tpm2</i> | A_23_P216501 | -4.57 |
| <i>Ica1</i> | A_23_P215419 | 2.71 | <i>Trim33</i> | A_23_P23526 | -2.04 |
| <i>Ip6k2</i> | A_23_P301138 | 2.08 | <i>Trim44</i> | A_23_P139297 | -2.03 |
| <i>Iqsec1</i> | A_23_P6746 | -2.17 | <i>Trim56</i> | A_23_P350107 | -2.13 |
| <i>Klc3</i> | A_23_P4653 | -4.54 | <i>Tsen54</i> | A_24_P205008 | -2.22 |
| <i>Klf9</i> | A_23_P415401 | -2.86 | <i>Tuba1c</i> | A_24_P188071 | 2.01 |
| <i>Lcor</i> | A_23_P429670 | -2.05 | <i>Txk</i> | A_23_P302018 | -2.38 |
| <i>Loc100129292</i> | A_32_P177522 | 2.23 | <i>Usp42</i> | A_24_P135276 | -2.43 |
| <i>Loc100190939</i> | A_24_P110914 | -2.15 | <i>Vhl</i> | A_23_P132611 | -2.05 |
| <i>Loc644189</i> | A_24_P152649 | 2.06 | <i>Vps13c</i> | A_24_P927650 | -3.61 |
| <i>Mafa</i> | A_24_P127719 | 2.23 | <i>Zdhc11</i> | A_23_P256008 | -3.72 |
| <i>Man2a2</i> | A_23_P206041 | -2.22 | <i>Znf2</i> | A_23_P39223 | 3.47 |
| <i>Mbnl1</i> | A_24_P925361 | -3.31 | <i>Znf573</i> | A_23_P339079 | -2.67 |
| <i>Med17</i> | A_24_P941459 | -2.02 | <i>Znf713</i> | A_23_P74114 | 3.08 |

SUPPLEMENTARY TABLE S4. EIGHTY-FOUR GENES DIFFERENTIALLY EXPRESSED BETWEEN HEALTHY CONTROLS VERSUS ASYMPTOMATIC HUMAN T CELL LEUKEMIA VIRUS TYPE 1 CARRIER AND HUMAN T CELL LEUKEMIA VIRUS TYPE 1-ASSOCIATED MYELOPATHY/TROPICAL SPASTIC PARAPARESIS IN MICROARRAY ANALYSIS

| Genes | Probes | Fold change CT vs. HAC | Fold change CT vs. HAM/TSP | Genes | Probes | Fold change CT vs. HAC | Fold change CT vs. HAM/TSP |
|----------------------|--------------|---------------------------|-------------------------------|------------------|--------------|---------------------------|-------------------------------|
| <i>Abca5</i> | A_24_P67096 | -2.36 | -2.32 | <i>Loc727820</i> | A_32_P104619 | -7.00 | -5.74 |
| <i>Agap1</i> | A_32_P55161 | -2.43 | -2.29 | <i>Lphn1</i> | A_23_P208551 | -2.22 | -2.30 |
| <i>Agap7</i> | A_32_P221958 | -2.11 | -3.25 | <i>Malat1</i> | A_24_P497244 | -8.29 | -6.93 |
| <i>Ahsa2</i> | A_23_P372467 | -5.88 | -6.01 | <i>Mapk8ip3</i> | A_23_P218215 | -2.77 | -2.62 |
| <i>Alpk1</i> | A_23_P144531 | -5.07 | -6.78 | <i>Mst1p9</i> | A_32_P122373 | -2.06 | -2.27 |
| <i>Amt</i> | A_23_P257164 | -3.01 | -2.64 | <i>Myo1c</i> | A_23_P164022 | -4.18 | -3.56 |
| <i>Ankfy1</i> | A_24_P151834 | -2.97 | -2.89 | <i>Nbpf14</i> | A_23_P359430 | -3.43 | -2.95 |
| <i>Ankrd35</i> | A_23_P325690 | 2.08 | 2.38 | <i>Nbpf15</i> | A_32_P27020 | -2.01 | -2.36 |
| <i>Bms1</i> | A_24_P615822 | -2.49 | -2.48 | <i>Nbpf3</i> | A_23_P308189 | -3.20 | -2.57 |
| <i>Ccnl2</i> | A_23_P217899 | -2.32 | -2.12 | <i>Nlrp1</i> | A_23_P107351 | -2.62 | -2.92 |
| <i>Chd2</i> | A_24_P781846 | -2.83 | -2.83 | <i>Notch2nl</i> | A_32_P75695 | -2.15 | -2.13 |
| <i>Chd7</i> | A_24_P58381 | -2.72 | -2.47 | <i>Orai1</i> | A_23_P150919 | -6.17 | -6.04 |
| <i>Cpne5</i> | A_23_P360804 | 2.75 | 3.44 | <i>Orc6l</i> | A_23_P100341 | -3.22 | -5.03 |
| <i>Croccp2</i> | A_23_P126486 | -2.06 | -2.61 | <i>Papd7</i> | A_23_P18824 | -2.27 | -2.27 |
| <i>Ctnnb1</i> | A_24_P608330 | -2.20 | -2.09 | <i>Pde4c</i> | A_23_P119583 | -4.03 | -6.23 |
| <i>Dkfpz434f142</i> | A_23_P111797 | -2.42 | -2.41 | <i>Pde7a</i> | A_24_P360529 | -3.01 | -2.76 |
| <i>Egfl8</i> | A_23_P424582 | -2.37 | -2.28 | <i>Pdzd7</i> | A_23_P75097 | -5.51 | -5.23 |
| <i>Eif5</i> | A_24_P398810 | -2.19 | -2.50 | <i>Pion</i> | A_23_P416894 | -2.39 | -2.08 |
| <i>Engase</i> | A_23_P152583 | -3.08 | -2.81 | <i>Plxdc1</i> | A_23_P3911 | -4.17 | -4.38 |
| <i>Fan1</i> | A_23_P377888 | -2.40 | -2.34 | <i>Pou5f1</i> | A_23_P59138 | -2.90 | -2.86 |
| <i>Flj45340</i> | A_32_P50406 | -2.50 | -2.30 | <i>Prr11</i> | A_23_P207301 | -3.56 | -3.82 |
| <i>Fut6</i> | A_23_P252664 | -3.00 | -3.90 | <i>Pxn</i> | A_23_P13969 | -5.12 | -8.17 |
| <i>Galnt3</i> | A_23_P209459 | -3.86 | -5.83 | <i>Rax2</i> | A_23_P56150 | -4.64 | -4.40 |
| <i>Ggt6</i> | A_23_P66774 | -4.53 | -4.21 | <i>Rbbp6</i> | A_23_P54781 | -5.00 | -4.02 |
| <i>Golga8a</i> | A_32_P2392 | -2.75 | -2.81 | <i>Rpain</i> | A_24_P307785 | -2.37 | -2.55 |
| <i>Golga8f</i> | A_24_P384588 | -3.77 | -3.90 | <i>Sdcbp</i> | A_23_P168974 | -4.40 | -3.92 |
| <i>Hn1</i> | A_24_P247660 | 2.30 | 2.04 | <i>Sfrs18</i> | A_23_P122615 | -2.16 | -2.39 |
| <i>Ikzf1</i> | A_23_P124934 | -8.05 | -6.14 | <i>Snrk</i> | A_24_P102151 | -2.47 | -2.34 |
| <i>Ildr1</i> | A_23_P109907 | -6.80 | -10.75 | <i>Sp100</i> | A_24_P916816 | -3.35 | -2.86 |
| <i>Ivns1abp</i> | A_32_P205895 | -2.33 | -2.13 | <i>Spsb4</i> | A_23_P258381 | -2.35 | -3.46 |
| <i>Jmjd7-pla2g4b</i> | A_23_P403424 | -2.23 | -2.31 | <i>Stag3l1</i> | A_32_P45894 | -2.60 | -3.05 |
| <i>Kidins220</i> | A_24_P7202 | -3.15 | -2.66 | <i>Tbc1d3f</i> | A_23_P164210 | -2.44 | -2.35 |
| <i>Lcp1</i> | A_32_P181443 | 2.14 | 2.70 | <i>Tnrc6c</i> | A_23_P392501 | -3.22 | -2.54 |
| <i>Leng8</i> | A_24_P40055 | -5.14 | -4.31 | <i>Tra2a</i> | A_24_P929807 | -2.28 | -2.38 |
| <i>Lime1</i> | A_23_P376088 | 2.02 | 2.31 | <i>Ubox5</i> | A_23_P218717 | -6.21 | -9.50 |
| <i>Loc150759</i> | A_24_P391591 | -4.65 | -4.43 | <i>Usp34</i> | A_32_P81173 | -5.48 | -4.32 |
| <i>Loc221442</i> | A_24_P303420 | -2.32 | -2.25 | <i>Vps13b</i> | A_24_P280628 | -2.50 | -2.15 |
| <i>Loc284889</i> | A_32_P49334 | 2.42 | 2.04 | <i>Zbed5</i> | A_23_P98483 | -2.49 | -2.78 |
| <i>Loc338799</i> | A_23_P116743 | -4.13 | -4.16 | <i>Zbth20</i> | A_32_P179526 | -8.38 | -7.78 |
| <i>Loc390595</i> | A_24_P481783 | -2.51 | -2.48 | <i>Zkscan1</i> | A_23_P94063 | -4.71 | -6.50 |
| <i>Loc441124</i> | A_24_P456944 | -3.42 | -4.82 | <i>Znf688</i> | A_23_P141044 | 2.14 | 2.42 |
| <i>Loc642826</i> | A_32_P124493 | -2.25 | -2.08 | <i>Znf700</i> | A_23_P27638 | -2.72 | -2.74 |

SUPPLEMENTARY TABLE S5. TWENTY-FIVE GENES DIFFERENTIALLY EXPRESSED BETWEEN HEALTHY CONTROL VERSUS HUMAN T CELL LEUKEMIA VIRUS TYPE 1-ASSOCIATED MYELOPATHY/TROPICAL SPASTIC PARAPARESIS AND HUMAN T CELL LEUKEMIA VIRUS TYPE 1-ASSOCIATED MYELOPATHY/TROPICAL SPASTIC PARAPARESIS ASYMPTOMATIC HUMAN T CELL LEUKEMIA VIRUS TYPE 1 CARRIER IN MICROARRAY ANALYSIS

| <i>Genes</i> | <i>Probes</i> | <i>Fold change CT vs. HAM/TSP</i> | <i>Fold change HAM/TSP vs. HAC</i> |
|---------------------|---------------|-----------------------------------|------------------------------------|
| <i>Bhlhe23</i> | A_24_P57898 | -2.36 | 2.11 |
| <i>Btn2a1</i> | A_23_P501634 | -2.05 | 2.16 |
| <i>Clk3</i> | A_32_P20691 | -3.98 | 3.90 |
| <i>Cox11</i> | A_24_P391531 | -2.04 | 2.25 |
| <i>Fks2</i> | A_23_P255827 | -2.94 | 3.42 |
| <i>Hist1h3b</i> | A_24_P174924 | -2.44 | 2.66 |
| <i>Hist1h3e</i> | A_23_P70445 | -2.15 | 2.57 |
| <i>Hnrnpa1</i> | A_24_P517901 | -3.32 | 3.91 |
| <i>Hnrnpa1l2</i> | A_24_P32849 | -3.63 | 3.31 |
| <i>Loc100130890</i> | A_24_P456884 | -2.73 | 5.20 |
| <i>Loc100131582</i> | A_24_P848662 | -3.82 | 2.79 |
| <i>Loc400061</i> | A_24_P92973 | -2.59 | 3.02 |
| <i>Loc730144</i> | A_24_P391960 | -2.24 | 2.04 |
| <i>Morf4</i> | A_24_P3461 | -2.47 | 2.94 |
| <i>Nacap1</i> | A_23_P59888 | -2.93 | 4.71 |
| <i>Ppial4a</i> | A_24_P144499 | -2.16 | 3.12 |
| <i>Rsrc2</i> | A_24_P350160 | -2.39 | 2.07 |
| <i>Set</i> | A_24_P917866 | -2.57 | 4.75 |
| <i>Srp14p1</i> | A_24_P255314 | -2.40 | 3.48 |
| <i>Srp9</i> | A_32_P165340 | -2.63 | 3.65 |
| <i>St13p2</i> | A_24_P24912 | -2.85 | 2.59 |
| <i>Sumo1p3</i> | A_32_P223189 | -2.15 | 2.02 |
| <i>Sumo2</i> | A_32_P228869 | -3.43 | 4.70 |
| <i>Trim35</i> | A_24_P12651 | -3.76 | 2.35 |
| <i>Xpo6</i> | A_23_P206822 | -3.90 | 3.94 |

SUPPLEMENTARY TABLE S6. ONE GENE DIFFERENTIALLY EXPRESSED BETWEEN HEALTHY CONTROLS VERSUS ASYMPTOMATIC HUMAN T CELL LEUKEMIA VIRUS TYPE 1 CARRIER AND HUMAN T CELL LEUKEMIA VIRUS TYPE 1-ASSOCIATED MYELOPATHY/TROPICAL SPASTIC PARAPARESIS VERSUS ASYMPTOMATIC HUMAN T CELL LEUKEMIA VIRUS TYPE 1 CARRIER IN MICROARRAY ANALYSIS

| <i>Genes</i> | <i>Probes</i> | <i>Fold change CT vs. HAC</i> | <i>Fold change HAM/TSP vs. HAC</i> |
|---------------|---------------|-------------------------------|------------------------------------|
| <i>Tmeff2</i> | A_24_P239364 | 3.43 | 2.41 |