

## Appendix

Table SI. Gene expression at least 4-fold higher in adult T-cell leukemia-lymphoma specimens than in Jurkat cells.

Arrayed feature	Expression relative to Jurkat cell line*
330370    HBB    hemoglobin, beta    Hs.155376	7.67
116933    LYZ    lysozyme (renal amyloidosis)    Hs.234734	6.99
120321    MGC17330    hypothetical protein MGC17330    Hs.26670	6.54
311493    CD28    CD28 antigen (Tp44)    Hs.1987	6.41
114151    HLA-DRB5    major histocompatibility complex, class II, DR beta 5    Hs.352392	6.09
119990    S100A11    S100 calcium binding protein A11 (calgizzarin)    Hs.417004	5.97
101316    HLA-DRB3    major histocompatibility complex, class II, DR beta 3    Hs.308026	5.80
111765    IGKC    **immunoglobulin kappa constant    Hs.406565	5.75
99469    S100A8    S100 calcium binding protein A8 (calgranulin A)    Hs.416073	5.70
331082    LGALS1    lectin, galactoside-binding, soluble, 1 (galectin 1)    Hs.382367	5.64
108180    ISG20    interferon stimulated gene 20 kDa    Hs.183487	5.58
107910    HLA-DRB1    major histocompatibility complex, class II, DR beta 1    Hs.375570	5.05
308487    ID2    inhibitor of DNA binding 2, dominant negative helix-loop-helix protein    Hs.180919	4.94
108639    CTLA4    cytotoxic T-lymphocyte-associated protein 4    Hs.247824	4.89
102363    TYROBP    TYRO protein tyrosine kinase binding protein    Hs.9963	4.83
112406    HBA2    **hemoglobin, alpha 2    Hs.347939	4.82
161366    SERPINB1    serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 1    Hs.183583	4.74
106670    HLA-DQB1    major histocompatibility complex, class II, DQ beta 1    Hs.73931	4.71
99062    OAS2    2'- 5'-oligoadenylate synthetase 2, 69/71 kDa    Hs.432659	4.63
119872    P2RY5    purinergic receptor P2Y, G-protein coupled, 5    Hs.189999	4.62
110632       <i>Homo sapiens</i> , Similar to nuclear localization signals binding protein 1, clone MGC:21810 IMAGE:4183576, mRNA, complete cds    Hs.244624	4.58
107000    CSPG2    chondroitin sulfate proteoglycan 2 (versican)    Hs.81800	4.54
100967    KCNN4    potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4    Hs.10082	4.46
314421    HLA-C    major histocompatibility complex, class I, C    Hs.277477	4.42
102967    CSPG2    chondroitin sulfate proteoglycan 2 (versican)    Hs.81800	4.37
102734    MGC27165    hypothetical protein MGC27165    Hs.366	4.37
108645    COPEB    core promoter element binding protein    Hs.285313	4.34
110694    MGC27165    hypothetical protein MGC27165    Hs.366	4.32
318245    ID2    inhibitor of DNA binding 2, dominant negative helix-loop-helix protein    Hs.180919	4.29
161545    EDG1    endothelial differentiation, sphingolipid G-protein-coupled receptor, 1    Hs.154210	4.28
318902    ChGn    chondroitin beta1,4N-acetylgalactosaminyltransferase    Hs.11260	4.26
108901    IGKC    immunoglobulin kappa constant    Hs.406565	4.24
222669    JAK3    Janus kinase 3 (a protein tyrosine kinase, leukocyte)    Hs.99877	4.23
102486    C14orf47    chromosome 14 open reading frame 47    Hs.57787	4.23
226481    TOSO    regulator of Fas-induced apoptosis    Hs.58831	4.21
161106    MGC27165    hypothetical protein MGC27165    Hs.366	4.16
115147    SOCS3    suppressor of cytokine signaling 3    Hs.345728	4.15
115200    LYN    v-yes-1 Yamaguchi sarcoma viral related oncogene homolog    Hs.80887	4.04
110533    RAB31    RAB31, member RAS oncogene family    Hs.223025	4.01
113390       **Homo sapiens cDNA FLJ37940 fis, clone CTONG2007779.    Hs.95872	4.00
116761    RARRES3    retinoic acid receptor responder (tazarotene induced) 3    Hs.17466	3.98
161053    TNFRSF7    tumor necrosis factor receptor superfamily, member 7    Hs.355307	3.97
115297    FCER1G    Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide    Hs.433300	3.96
108175    ARHGEF5    Rho guanine nucleotide exchange factor (GEF) 5    Hs.334	3.96
223997    APOL3    apolipoprotein L, 3    Hs.241535	3.95
331305    IGHM    immunoglobulin heavy constant mu    Hs.153261	3.93
100816    BTG1    B-cell translocation gene 1, anti-proliferative    Hs.77054	3.85
307195    LTB    lymphotoxin beta (TNF superfamily, member 3)    Hs.890	3.82
309992	3.80
239268    RUNX3    runt-related transcription factor 3    Hs.170019	3.79
317969       ESTs    Hs.296276	3.79
220964    GNG11    guanine nucleotide binding protein (G protein), gamma 11    Hs.83381	3.71
99380    CRIP1    cysteine-rich protein 1 (intestinal)    Hs.423190	3.71

(continued)

Table SI. (Continued).

Arrayed feature	Expression relative to Jurkat cell line*
113479    TNFSF7    tumor necrosis factor (ligand) superfamily, member 7    Hs.99899	3.66
309190    SAT    spermidine/spermine N1-acetyltransferase    Hs.28491	3.65
101875       ESTs, Weakly similar to S21348 probable pol polyprotein-related protein 4 - rat [ <i>R. norvegicus</i> ]    Hs.432827	3.64
307507    MALT1    mucosa associated lymphoid tissue lymphoma translocation gene 1    Hs.180566	3.64
114205       <i>Homo sapiens</i> , clone IMAGE:3881549, mRNA    Hs.346735	3.62
312080    LLT1    lectin-like NK cell receptor    Hs.136748	3.60
224392    DAF    decay accelerating factor for complement (CD55, Cromer blood group system)    Hs.1369	3.57
102912       ESTs    Hs.97872	3.54
118393    IL10RA    interleukin 10 receptor, alpha    Hs.327	3.54
104323    SLC2A14,    **solute carrier family 2 (facilitated glucose transporter), member 14    Hs.401274	3.50
103931       ESTs    Hs.15200	3.50
110556    MYO1E    myosin IE    Hs.82251	3.48
114548    BASP1    brain abundant, membrane attached signal protein 1    Hs.79516	3.45
226185       <i>Homo sapiens</i> , clone IMAGE:4766144, mRNA    Hs.72080	3.41
316875       ESTs    Hs.444602	3.41
112735    JUN    v-jun sarcoma virus 17 oncogene homolog (avian)    Hs.78465	3.40
110605    B2M    beta-2-microglobulin    Hs.48516	3.39
104520    IGJ    immunoglobulin J polypeptide, linker protein for immunoglobulin alpha and mu polypeptides    Hs.76325	3.35
330976       <i>Homo sapiens</i> , clone IMAGE:5533204, mRNA    Hs.235936	3.35
107005    HLA-DQB1    major histocompatibility complex, class II, DQ beta 1    Hs.73931	3.35
110541	3.34
117954    GNLY    granulysin    Hs.105806	3.34
307925       ESTs, Weakly similar to PRO0478 protein [ <i>Homo sapiens</i> ] [ <i>H. sapiens</i> ]    Hs.175437	3.32
330383    KLRC2    killer cell lectin-like receptor subfamily C, member 2    Hs.177605	3.32
184461    ANK1    ankyrin 1, erythrocytic    Hs.183805	3.30
191208	3.29
309960    KIAA0053    KIAA0053 gene product    Hs.1528	3.29
221560    UNC84B    unc-84 homolog A ( <i>C. elegans</i> )    Hs.406612	3.26
106809       <i>Homo sapiens</i> cDNA: FLJ21930 fis, clone HEP04301, highly similar to HSU90916 Human clone 23815 mRNA sequence.    Hs.82845	3.24
331223    CST7    cystatin F (leukocystatin)    Hs.143212	3.24
107517    CYLD    cylindromatosis (turban tumor syndrome)    Hs.18827	3.24
101256    PSCDBP    pleckstrin homology, Sec7 and coiled/coil domains, binding protein    Hs.270	3.24
100368    GBP1    guanylate binding protein 1, interferon-inducible, 67 kDa    Hs.62661	3.24
106240    TRIM22    tripartite motif-containing 22    Hs.318501	3.23
110188       ESTs, Highly similar to Y379_HUMAN Hypothetical protein KIAA0379 [ <i>H. sapiens</i> ]    Hs.40173	3.22
312563       <i>Homo sapiens</i> , Similar to olfactory receptor, family 2, subfamily A, member 4, clone IMAGE:4424116, mRNA    Hs.133517	3.21
309527    CDA    cytidine deaminase    Hs.72924	3.21
226697       <i>Homo sapiens</i> mRNA; cDNA DKFZp586A0618 (from clone DKFZp586A0618)    Hs.349755	3.19
317666    DDX17    DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 17, 72kDa    Hs.349121	3.16
98611    ZNF187    zinc finger protein 187    Hs.237786	3.15
115150    SAT    spermidine/spermine N1-acetyltransferase    Hs.28491	3.14
223574    IGSF4    immunoglobulin superfamily, member 4    Hs.70337	3.12
112895    OAS2    2'- 5'-oligoadenylate synthetase 2, 69/71 kDa    Hs.432659	3.11
99827    GJB1    gap junction protein, beta 1, 32kDa (connexin 32, Charcot-Marie-Tooth neuropathy, X-linked)    Hs.333303	3.08
119885    IGKC    **immunoglobulin kappa constant    Hs.406565	3.08
102629    MIR    myosin regulatory light chain interacting protein    Hs.20072	3.07
319569    ADAM19    a disintegrin and metalloproteinase domain 19 (meltrin beta)    Hs.278679	3.07
178262    JUNB    jun B proto-oncogene    Hs.400124	3.06
100666    C1S    complement component 1, s subcomponent    Hs.434029	3.06
307412    PTPRM    protein tyrosine phosphatase, receptor type, M    Hs.154151	3.05

(continued)

Table SI. (Continued).

Arrayed feature	Expression relative to Jurkat cell line*
112014    IL2RB    interleukin 2 receptor, beta    Hs.75596	3.04
105812    IRF7    interferon regulatory factor 7    Hs.166120	3.04
330877    OAS2    2'- 5'-oligoadenylate synthetase 2, 69/71kDa    Hs.432659	3.01
113615    ZNF24    zinc finger protein 24 (KOX 17)    Hs.183593	3.00
316377    GBP4    guanylate binding protein 4    Hs.240849	2.97
312148    OAS3    2'- 5'-oligoadenylate synthetase 3, 100 kDa    Hs.56009	2.96
104934    SERPINB1    serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 1    Hs.183583	2.93
310861       ESTs    Hs.169054	2.92
104093    LSP1    lymphocyte-specific protein 1    Hs.56729	2.90
178264    IFITM3    interferon induced transmembrane protein 3 (1-8U)    Hs.433414	2.89
330485    PSTPIP1    proline-serine-threonine phosphatase interacting protein 1    Hs.129758	2.87
224226    LOC91663    hypothetical protein BC013995    Hs.380906	2.85
115703    IRF7    interferon regulatory factor 7    Hs.166120	2.85
119893    SP100    nuclear antigen Sp100    Hs.77617	2.72
223329       ESTs    Hs.431083	2.70
111414       ESTs    Hs.119563	2.68
315157       ESTs, Moderately similar to hypothetical protein MGC4027 [ <i>Homo sapiens</i> ] [ <i>H. sapiens</i> ]    Hs.126232	2.67
101364    FGFR1    fibroblast growth factor receptor 1 (fms-related tyrosine kinase 2, Pfeiffer syndrome)    Hs.748	2.63
112250    TOB1    transducer of ERBB2, 1    Hs.178137	2.46
112885	2.36

\*Values shown are based on log-2 scale.

Table SII. Gene expression at least 4-fold lower in adult T-cell leukemia-lymphoma specimens than in Jurkat cells.

Arrayed feature	Expression relative to Jurkat cell line*
330504    TRGV9    T cell receptor gamma variable 9    Hs.112259	-4.68
107272       <i>Homo sapiens</i> , clone IMAGE:4690669, mRNA    Hs.49265	-4.69
111956    NUCB2    nucleobindin 2    Hs.3164	-4.72
105129    TMEMPAI    transmembrane, prostate androgen induced RNA    Hs.83883	-4.79
109425    TRGV9    T cell receptor gamma variable 9    Hs.112259	-4.84
309831    D2S448    Melanoma associated gene    Hs.118893	-5.24
105870    ALDH1A2    aldehyde dehydrogenase 1 family, member A2    Hs.95197	-5.83
308729    TTK    TTK protein kinase    Hs.169840	-3.40
319981    LOC93081    hypothetical protein BC015148    Hs.13413	-3.45
331359    ESPL1    extra spindle poles like 1 ( <i>S. cerevisiae</i> )    Hs.153479	-3.50
100448       ** <i>Homo sapiens</i> , clone IMAGE:4655360, mRNA    Hs.325015	-3.50
330906    KIF4A    kinesin family member 4A    Hs.279766	-3.52
117645    NGFRAP1    nerve growth factor receptor (TNFRSF16) associated protein 1    Hs.381039	-3.53
331160    KIAA0992    palladin    Hs.194431	-3.53
308076    SLIT1    slit homolog 1 ( <i>Drosophila</i> )    Hs.133466	-3.58
119100    CCNA2    cyclin A2    Hs.85137	-3.70
248886	-3.75
309620    CD1B    CD1B antigen, b polypeptide    Hs.1310	-4.00
311271    GSTP1    glutathione S-transferase pi    Hs.226795	-4.00
220192    JAM3    junctional adhesion molecule 3    Hs.334703	-4.31
226414    ASRGL1    asparaginase like 1    Hs.7331	-4.37
98358    NKX3-1    NK3 transcription factor related, locus 1 ( <i>Drosophila</i> )    Hs.55999	-4.59
114866    FLJ20186    hypothetical protein FLJ20186    Hs.62771	-3.21
331303    CDT1    DNA replication factor    Hs.122908	-3.22
309851    ASRGL1    asparaginase like 1    Hs.7331	-3.26

(continued)

Table SII. (Continued).

Arrayed feature	Expression relative to Jurkat cell line*
104748    PELI2    pellino homolog 2 ( <i>Drosophila</i> )    Hs.44038	-3.29
117274    NRLN1    likely ortholog of mouse neuralin 1    Hs.82223	-3.32
226061    PCOLCE2    procollagen C-endopeptidase enhancer 2    Hs.8944	-3.34
226975    LOC81023    hypothetical protein AF301222    Hs.335951	-3.36
223918    FLJ25157    hypothetical protein FLJ25157    Hs.108323	-3.36
116625	-3.17
101527       <i>Homo sapiens</i> clone IMAGE:120162 mRNA sequence    Hs.406351	-3.17
107468    STEAP    six transmembrane epithelial antigen of the prostate    Hs.61635	-2.96
311092    MGC4248    hypothetical protein MGC4248    Hs.334437	-3.01
106982    RAMP    RA-regulated nuclear matrix-associated protein    Hs.126774	-3.02
103951       ESTs    Hs.421701	-3.03
313420    BRI3BP    BRI3 binding protein    Hs.131886	-3.08
317206    RAGD    Rag D protein    Hs.238679	-2.90
223114    RFC3    replication factor C (activator 1) 3, 38kDa    Hs.115474	-2.87
184450    SCD    stearoyl-CoA desaturase (delta-9-desaturase)    Hs.119597	-2.82
111873    DLG7    discs, large homolog 7 ( <i>Drosophila</i> )    Hs.77695	-2.68
109247    TRGV9    **T cell receptor gamma variable 9    Hs.112259	-2.68
223334    CCNB2    cyclin B2    Hs.194698	-2.70
114167    KIF9    kinesin family member 9    Hs.105187	-2.73
100912       Human full-length cDNA 5-PRIME end of clone CS0DK007YB08 of HeLa cells of <i>Homo sapiens</i> (human)    Hs.406349	-2.76
113026       ESTs    Hs.404723	-2.77
117992    KCNH2    potassium voltage-gated channel, subfamily H (eag-related), member 2    Hs.188021	-2.61
225987    SLC7A11    solute carrier family 7, (cationic amino acid transporter, y+ system) member 11    Hs.6682	-2.40
185871    LOC148418    hypothetical protein LOC148418    Hs.105069	-2.38
104835    MYO1B    myosin IB    Hs.121576	-2.35

\*Values shown are based on log-2 scale.

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