**Figure S1**

Expression intensity and fraction Present of four example genes. Two HK genes ACTB and GAPDH, and CD8+ T lymphocyte selective gene CD8B and liver selective gene CYP4A11 are shown as examples. Weighting expression intensity with fraction Present would emphasize the selective expression of CD8B in T cell related tissues, especially in CD8+ T lymphocyte, as well as the selective expression of CYP4A11 in liver and kidney.