**Figure List**

**Figure 1 –** In Vivo Memory T cell Clones

**Figure 2 –** In Vitro T cell clones (P1902)

**Figure 3 –** In Vitro T cell clones (P3128 – sisters)

**Figure 4 –** In Vitro T cell clones (P9855 – ATAC)

**Figure 5 –** In Vivo Mouse Clones

**Extended Data Figures**

**Extended Data Figure 1 –** In Vivo Memory T cells Information

**Extended Data Figure 2 –** In Vitro Big Clones UMI/Controls

**Extended Data Figure 3 -** P3128 Copy Number Variation Test

**Extended Data Figure 4 -** P3128 RNA-Protein Correlations

**Extended Data Figure 5 –** P9855 RPV metric classification

**Extended Data Figure 6 –** P9855 Founder Identity Inheritance

**Extended Data Figure 7 –** P9855 RNA-Peak Correlations

**Extended Data Figure 8 -** Fig5, Mouse Data

**Extended Data Figure 9 -** Fig5, Mouse Data

**Extended Data Figure 10 -** Fig5, Mouse Data

**Extended Data Figure 11 -** Fig5, Mouse Data

**Table List**

**Main Figures - Tables**

***Table S1***: All TCR information of all cells used in the study for each Project ID.

Fig1\_InVivo, Fig2\_P1902, Fig3\_P3128, Fig4\_P9855 will be the four different datasets

***Table S2***: All Genes from In Vivo dataset – should have the following format –

Column 1: gene name

Column 2: Donor A (A1-06 but say ‘A’)

Column 3: Donor B( A1-30)

Column 4: Donor C (JH)

Each Donor should have a p-value associated with each gene or n.d. if it is not detected.

A separate file can be included to list genes which are significant in shuffled clones for each donor. I can add that as a page in excel (so it is a tab with the table)

***Table S3***: All genes from in vitro dataset P1902 with p-values

***Table S5***: All genes from in vitro dataset P3128 with p-values

***Table S6***: All genes shown in panels d, e in Figure 3 with associated p-values (well vs clone sig)

***Table S8***: All peak information and RPV values for Figure 4

***Table S10***: All genes for P9855

***Table S11+***: Any relevant data for MR mouse data (p-values for genes for each cell type)

**Extended Figures - Tables**

***Table S4***: All genes from in vitro dataset for 3 big clones with p-values. TPM and UMI should each get a column for this one.

***Table S7***: All protein and RNA expression data for clones using clone\_ID and well\_ID for extended data figure 4

***Table S9***: Any information on founder cell identity used to identify the founder cells with criteria shown.